



AIA® Document G202™ – 2013

Project Building Information Modeling Protocol Form

PROJECT: *(Name and address)*

PROTOCOL VERSION NUMBER:

DATE:

PREPARED BY:

DISTRIBUTION TO: *(List each individual to whom this protocol is distributed. Include individuals listed in Section 1.1, or reference Section 1.1, along with any additional recipients.)*

This document is intended to be used in conjunction with a Project specific AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, which the Parties will incorporate into their agreement for the Project, and a Project specific AIA Document G201™–2013, Project Digital Data Protocol Form.

TABLE OF ARTICLES

- 1 GENERAL PROVISIONS
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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 For each Project Participant that has incorporated the Project specific AIA Document E203™–2013, Building Information Modeling and Digital Data Protocol Exhibit, dated _____, into its agreement for the Project, identify and provide the contact information for individuals responsible for implementation of the Modeling protocols. If, for any Project Participant, more than one individual will be responsible for implementation of the Modeling protocols, list each individual separately and describe the unique Modeling Role assigned to each individual.

Modeling Role	Project Participant	Individual Responsible	Contact Information

§ 1.2 This document establishes the Modeling protocols for the Project. For purposes of these protocols, the Model is comprised of the following information and other data sets:
(Indicate disciplines, separate models, and other data that will be included within the Model and governed by the Modeling protocols.)

§ 1.3 Collaboration Protocols. The Project Participants’ protocols for the collaborative utilization of the Model, if any, including communications protocols, a collaboration meeting schedule and colocation requirements, are as follows:

§ 1.4 Technical Requirements. The technical requirements relating to the utilization of Building Information Modeling, including specific software and hardware requirements are as follows:

§ 1.5 Training and Support. The parameters for any training or support program(s) that will be implemented with respect to any collaboration strategy or technical requirements are set forth below:

§ 1.6 Model Standard. The Model shall be developed in accordance with the following Model Standard, if any:

§ 1.7 Model Management Protocols and Processes

The following Model Management Protocols and Processes shall apply to the Project only if specifically designated in the table below as being applicable.

(Designate the Model Management Protocols and Processes applicable to the Project in the second column of the table below. In the third column, indicate whether the detailed description of the Model Management Protocol or Process is located in Section 1.8 or in an attached exhibit. If in an exhibit, identify the exhibit.)

Model Management Protocols and Processes	Applicability to Project <i>(Applicable or Not Applicable)</i>	Location of Detailed Description <i>(Section 1.8 below or in an attachment to this exhibit identified below)</i>
§ 1.7.1 Model origin point, coordinate system, precision, file formats and units		
§ 1.7.2 Model file storage location(s)		
§ 1.7.3 Processes for transferring and accessing Model files		
§ 1.7.4 Naming conventions		
§ 1.7.5 Processes for aggregating Model files from varying software platforms		
§ 1.7.6 Model access rights		
§ 1.7.7 Design coordination and clash detection procedures.		
§ 1.7.8 Model security requirements		

§ 1.8 Insert a description of each Model Management Protocol and Process identified in Section 1.7, if not further described in an exhibit attached to this document:

§ 1.9 Terms in this document shall have the same meaning as those in AIA Document E203–2013.

ARTICLE 2 LEVEL OF DEVELOPMENT

§ 2.1 The Level of Development (LOD) descriptions, included in Section 2.2 through Section 2.6 below, identify the specific minimum content requirements and associated Authorized Uses for each Model Element at five progressively detailed levels of completeness. The Parties shall utilize the five LOD descriptions in completing the Model Element Table at Section 3.3.

§ 2.2 LOD 100

§ 2.2.1 Model Element Content Requirements. The Model Element may be graphically represented in the Model with a symbol or other generic representation, but does not satisfy the requirements for LOD 200. Information related to the Model Element (i.e. cost per square foot, tonnage of HVAC, etc.) can be derived from other Model Elements.

§ 2.2.2 Authorized Uses

§ 2.2.2.1 Analysis. The Model Element may be analyzed based on volume, area and orientation by application of generalized performance criteria assigned to other Model Elements.

§ 2.2.2.2 Cost Estimating. The Model Element may be used to develop a cost estimate based on current area, volume or similar conceptual estimating techniques (e.g., square feet of floor area, condominium unit, hospital bed, etc.).

§ 2.2.2.3 Schedule. The Model Element may be used for Project phasing and determination of overall Project duration.

§ 2.2.2.4 Other Authorized Uses. Additional Authorized Uses of the Model Element developed to LOD 100, if any, are as follows:

§ 2.3 LOD 200

§ 2.3.1 Model Element Content Requirements. The Model Element is graphically represented within the Model as a generic system, object, or assembly with approximate quantities, size, shape, location, and orientation. Non-graphic information may also be attached to the Model Element.

§ 2.3.2 Authorized Uses

§ 2.3.2.1 Analysis. The Model Element may be analyzed for performance of selected systems by application of generalized performance criteria assigned to the representative Model Elements.

§ 2.3.2.2 Cost Estimating. The Model Element may be used to develop cost estimates based on the approximate data provided and quantitative estimating techniques (e.g., volume and quantity of elements or type of system selected).

§ 2.3.2.3 Schedule. The Model Element may be used to show ordered, time-scaled appearance of major elements and systems.

§ 2.3.2.4 Coordination. The Model Element may be used for general coordination with other Model Elements in terms of its size, location and clearance to other Model Elements.

§ 2.3.2.5 Other Authorized Uses. Additional Authorized Uses of the Model Element developed to LOD 200, if any, are as follows:

§ 2.4 LOD 300

§ 2.4.1 Model Element Content Requirements. The Model Element is graphically represented within the Model as a specific system, object or assembly in terms of quantity, size, shape, location, and orientation. Non-graphic information may also be attached to the Model Element.

§ 2.4.2 Authorized Uses

§ 2.4.2.1 Analysis. The Model Element may be analyzed for performance of selected systems by application of specific performance criteria assigned to the representative Model Element.

§ 2.4.2.2 Cost Estimating. The Model Element may be used to develop cost estimates suitable for procurement based on the specific data provided.

§ 2.4.2.3 Schedule. The Model Element may be used to show ordered, time-scaled appearance of detailed elements and systems.

§ 2.4.2.4 Coordination. The Model Element may be used for specific coordination with other Model Elements in terms of its size, location and clearance to other Model Elements including general operation issues.

§ 2.4.2.5 Other Authorized Uses. Additional Authorized Uses of the Model Element developed to LOD 300, if any, are as follows:

§ 2.5 LOD 400

§ 2.5.1 Model Element Content Requirements. The Model Element is graphically represented within the Model as a specific system, object or assembly in terms of size, shape, location, quantity, and orientation with detailing, fabrication, assembly, and installation information. Non-graphic information may also be attached to the Model Element.

§ 2.5.2 Authorized Uses

§ 2.5.2.1 Analysis. The Model Element may be analyzed for performance of systems by application of actual performance criteria assigned to the Model Element.

§ 2.5.2.2 Cost Estimating. Costs are based on the actual cost of the Model Element at buyout.

§ 2.5.2.3 Schedule. The Model may be used to show ordered, time-scaled appearance of detailed specific elements and systems including construction means and methods.

§ 2.5.2.4 Coordination. The Model Element may be used for coordination with other Model Elements in terms of its size, location and clearance to other Model Elements, including fabrication, installation and detailed operation issues.

§ 2.5.2.5 Other Authorized Uses. Additional Authorized Uses of the Model Element developed to LOD 400, if any, are as follows:

§ 2.6 LOD 500

§ 2.6.1 Model Element Content Requirements. The Model Element is a field verified representation in terms of size, shape, location, quantity, and orientation. Non-graphic information may also be attached to the Model Elements.

§ 2.6.2 Authorized Uses. Specific Authorized Uses of the Model Element developed to LOD 500, if any, are as follows:

ARTICLE 3 MODEL ELEMENTS

§ 3.1 Reliance on Model Elements

§ 3.1.1 At any particular Project milestone, a Project Participant may rely on the accuracy and completeness of a Model Element only to the extent consistent with the minimum data required for the Model Element's LOD for that Project milestone as identified below in the Model Element Table, even if the content of a specific Model Element includes data that exceeds the minimum data required for the identified LOD.

§ 3.1.2 Coordination and Model Refinement

Where conflicts are found in the Model, regardless of the phase of the Project or LOD, the Project Participant that identifies the conflict shall promptly notify the Model Element Authors and the Project Participant identified in AIA Document E203–2013 Section 4.8 as being responsible for Model management. Upon such notification, the Model Element Author(s) shall act promptly to evaluate, mitigate and resolve the conflict in accordance with the processes established in Section 1.7.7, if applicable.

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author (MEA), and (3) references to any applicable notes found in Section 3.4.</i>	Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes <i>(See Sec. 3.4)</i>
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
Model Elements utilizing OmniClass™																			
21-01 40 20 Structural Slabs-on-Grade																			
21-01 40 30 Slab Trenches																			
21-01 40 40 Pits and Bases																			
21-01 40 90 Slab-On-Grade Supplementary Components																			
21-01 40 90 10 Perimeter Insulation																			
21-01 40 90 20 Vapor Retarder																			
21-01 40 90 30 Waterproofing																			
21-01 40 90 50 Mud Slab																			
21-01 40 90 60 Subbase Layer																			
21-01 60 Water and Gas Mitigation																			
21-01 60 10 Building Subdrainage																			
21-01 60 10 10 Foundation Drainage																			
21-01 60 10 20 Underslab Drainage																			
21-01 60 20 Off-Gassing Mitigation																			
21-01 60 20 10 Radon Mitigation																			
21-01 60 20 50 Methane Mitigation																			
21-01 90 Substructure Related Activities																			
21-01 90 10 Substructure Excavation																			
21-01 90 10 10 Backfill and Compaction																			
21-01 90 20 Construction Dewatering																			
21-01 90 30 Excavation Support																			
21-01 90 30 10 Anchor Tiebacks																			
21-01 90 30 20 Cofferdams																			
21-01 90 30 40 Cribbing and Walers																			
21-01 90 30 60 Ground Freezing																			
21-01 90 30 70 Slurry Walls																			
21-01 90 40 Soil Treatment																			
21-02 00 00 SHELL																			
21-02 10 Superstructure																			
21-02 10 10 Floor Construction																			
21-02 10 10 10 Floor Structural Frame																			
21-02 10 10 20 Floor Decks, Slabs, and Toppings																			
21-02 10 10 30 Balcony Floor Construction																			

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author (MEA), and (3) references to any applicable notes found in Section 3.4.</i> <i>Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."</i>	Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes <i>(See Sec. 3.4)</i>
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
Model Elements utilizing OmniClass™																			
21-02 10 10 40	Mezzanine Floor Construction																		
21-02 10 10 50	Ramps																		
21-02 10 10 90	Floor Construction Supplementary Components																		
21-02 10 20	Roof Construction																		
21-02 10 20 10	Roof Structural Frame																		
21-02 10 20 20	Roof Decks, Slabs, and Sheathing																		
21-02 10 20 30	Canopy Construction																		
21-02 10 20 90	Roof Construction Supplementary Components																		
21-02 10 80	Stairs																		
21-02 10 80 10	Stair Construction																		
21-02 10 80 30	Stair Soffits																		
21-02 10 80 50	Stair Railings																		
21-02 10 80 60	Fire Escapes																		
21-02 10 80 70	Metal Walkways																		
21-02 10 80 80	Ladders																		
21-02 20	Exterior Vertical Enclosures																		
21-02 20 10	Exterior Walls																		
21-02 20 10 10	Exterior Wall Veneer																		
21-02 20 10 20	Exterior Wall Construction																		
21-02 20 10 30	Exterior Wall Interior Skin																		
21-02 20 10 40	Fabricated Exterior Wall Assemblies																		
21-02 20 10 50	Parapets																		
21-02 20 10 60	Equipment Screens																		
21-02 20 10 80	Exterior Wall Supplementary Components																		
21-02 20 10 90	Exterior Wall Opening Supplementary Components																		
21-02 20 20	Exterior Windows																		
21-02 20 20 10	Exterior Operating Windows																		
21-02 20 20 20	Exterior Fixed Windows																		
21-02 20 20 30	Exterior Window Wall																		
21-02 20 20 50	Exterior Special Function Windows																		
21-02 20 50	Exterior Doors and Grilles																		
21-02 20 50 10	Exterior Entrance Doors																		
21-02 20 50 20	Exterior Utility Doors																		

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Model Elements utilizing OmniClass™																			
21-02 20 50 30 Exterior Oversize Doors																			
21-02 20 50 40 Exterior Special Function Doors																			
21-02 20 50 60 Exterior Grilles																			
21-02 20 50 70 Exterior Gates																			
21-02 20 50 90 Exterior Door Supplementary Components																			
21-02 20 70 Exterior Louvers and Vents																			
21-02 20 70 10 Exterior Louvers																			
21-02 20 70 50 Exterior Vents																			
21-02 20 80 Exterior Wall Appurtenances																			
21-02 20 80 10 Exterior Fixed Grilles and Screens																			
21-02 20 80 30 Exterior Opening Protection Devices																			
21-02 20 80 50 Exterior Balcony Walls and Railings																			
21-02 20 80 70 Exterior Fabrications																			
21-02 20 80 80 Bird Control Devices																			
21-02 20 90 Exterior Wall Specialties																			
21-02 30 Exterior Horizontal Enclosures																			
21-02 30 10 Roofing																			
21-02 30 10 10 Steep Slope Roofing																			
21-02 30 10 50 Low-Slope Roofing																			
21-02 30 10 70 Canopy Roofing																			
21-02 30 10 90 Roofing Supplementary Components																			
21-02 30 20 Roof Appurtenances																			
21-02 30 20 10 Roof Accessories																			
21-02 30 20 30 Roof Specialties																			
21-02 30 20 70 Rainwater Management																			
21-02 30 40 Traffic Bearing Horizontal Enclosures																			
21-02 30 40 10 Traffic Bearing Coatings																			
21-02 30 40 30 Horizontal Waterproofing Membrane																			
21-02 30 40 50 Wear Surfaces																			
21-02 30 40 90 Horizontal Enclosure Supplementary Components																			
21-02 30 60 Horizontal Openings																			
21-02 30 60 10 Roof Windows and Skylights																			
21-02 30 60 50 Vents and Hatches																			

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author (MEA), and (3) references to any applicable notes found in Section 3.4.</i> <i>Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."</i>	Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes <i>(See Sec. 3.4)</i>
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
Model Elements utilizing OmniClass™																			
21-02 30 60 90 Horizontal Opening Supplementary Components																			
21-02 30 80 Overhead Exterior Enclosures																			
21-02 30 80 10 Exterior Ceilings																			
21-02 30 80 20 Exterior Soffits																			
21-02 30 80 30 Exterior Bulkheads																			
21-03 00 00 INTERIORS																			
21-03 10 Interior Construction																			
21-03 10 10 Interior Partitions																			
21-03 10 10 10 Interior Fixed Partitions																			
21-03 10 10 20 Interior Glazed Partitions																			
21-03 10 10 40 Interior Demountable Partitions																			
21-03 10 10 50 Interior Operable Partitions																			
21-03 10 10 70 Interior Screens																			
21-03 10 10 90 Interior Partition Supplementary Components																			
21-03 10 20 Interior Windows																			
21-03 10 20 10 Interior Operating Windows																			
21-03 10 20 20 Interior Fixed Windows																			
21-03 10 20 50 Interior Special Function Windows																			
21-03 10 20 90 Interior Window Supplementary Components																			
21-03 10 30 Interior Doors																			
21-03 10 30 10 Interior Swinging Doors																			
21-03 10 30 20 Interior Entrance Doors																			
21-03 10 30 25 Interior Sliding Doors																			
21-03 10 30 30 Interior Folding Doors																			
21-03 10 30 40 Interior Coiling Doors																			
21-03 10 30 50 Interior Panel Doors																			
21-03 10 30 70 Interior Special Function Doors																			
21-03 10 30 80 Interior Access Doors and Panels																			
21-03 10 30 90 Interior Door Supplementary Components																			
21-03 10 40 Interior Grilles and Gates																			
21-03 10 40 10 Interior Grilles																			
21-03 10 40 50 Interior Gates																			
21-03 10 60 Raised Floor Construction																			

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Model Elements utilizing OmniClass™																			
21-03 10 60 10 Access Flooring																			
21-03 10 60 30 Platform/Stage Floors																			
21-03 10 70 Suspended Ceiling Construction																			
21-03 10 70 10 Acoustical Suspended Ceilings																			
21-03 10 70 20 Suspended Plaster and Gypsum Board Ceilings																			
21-03 10 70 50 Specialty Suspended Ceilings																			
21-03 10 70 70 Special Function Suspended Ceilings																			
21-03 10 70 90 Ceiling Suspension Components																			
21-03 10 90 Interior Specialties																			
21-03 10 90 10 Interior Railings and Handrails																			
21-03 10 90 15 Interior Louvers																			
21-03 10 90 20 Information Specialties																			
21-03 10 90 25 Compartments and Cubicles																			
21-03 10 90 30 Service Walls																			
21-03 10 90 35 Wall and Door Protection																			
21-03 10 90 40 Toilet, Bath, and Laundry Accessories																			
21-03 10 90 45 Interior Gas Lighting																			
21-03 10 90 50 Fireplaces and Stoves																			
21-03 10 90 60 Safety Specialties																			
21-03 10 90 70 Storage Specialties																			
21-03 10 90 90 Other Interior Specialties																			
21-03 20 Interior Finishes																			
21-03 20 10 Wall Finishes																			
21-03 20 10 10 Tile Wall Finish																			
21-03 20 10 20 Wall Paneling																			
21-03 20 10 30 Wall Coverings																			
21-03 20 10 35 Wall Carpeting																			
21-03 20 10 50 Stone Facing																			
21-03 20 10 60 Special Wall Surfacing																			
21-03 20 10 70 Wall Painting and Coating																			
21-03 20 10 80 Acoustical Wall Treatment																			
21-03 20 10 90 Wall Finish Supplementary Components																			
21-03 20 20 Interior Fabrications																			

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author (MEA), and (3) references to any applicable notes found in Section 3.4.</i> <i>Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."</i>	Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes <i>(See Sec. 3.4)</i>
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Model Elements utilizing OmniClass™																			
21-03 20 30 Flooring																			
21-03 20 30 10 Flooring Treatment																			
21-03 20 30 20 Tile Flooring																			
21-03 20 30 30 Specialty Flooring																			
21-03 20 30 40 Masonry Flooring																			
21-03 20 30 45 Wood Flooring																			
21-03 20 30 50 Resilient Flooring																			
21-03 20 30 60 Terrazzo Flooring																			
21-03 20 30 70 Fluid-Applied Flooring																			
21-03 20 30 75 Carpeting																			
21-03 20 30 80 Athletic Flooring																			
21-03 20 30 85 Entrance Flooring																			
21-03 20 30 90 Flooring Supplementary Components																			
21-03 20 40 Stair Finishes																			
21-03 20 40 20 Tile Stair Finish																			
21-03 20 40 40 Masonry Stair Finish																			
21-03 20 40 45 Wood Stair Finish																			
21-03 20 40 50 Resilient Stair Finish																			
21-03 20 40 60 Terrazzo Stair Finish																			
21-03 20 40 75 Carpeted Stair Finish																			
21-03 20 50 Ceiling Finishes																			
21-03 20 50 10 Plaster and Gypsum Board Finish																			
21-03 20 50 20 Ceiling Paneling																			
21-03 20 50 70 Ceiling Painting and Coating																			
21-03 20 50 80 Acoustical Ceiling Treatment																			
21-03 20 50 90 Ceiling Finish Supplementary Components																			
21-04 00 00 SERVICES																			
21-04 10 Conveying																			
21-04 10 10 Vertical Conveying Systems																			
21-04 10 10 10 Elevators																			
21-04 10 10 20 Lifts																			
21-04 10 10 30 Escalators																			
21-04 10 10 50 Dumbwaiters																			

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author (MEA), and (3) references to any applicable notes found in Section 3.4.</i> <i>Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."</i>	Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes <i>(See Sec. 3.4)</i>
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Model Elements utilizing OmniClass™																			
21-04 10 10 60 Moving Ramps																			
21-04 10 30 Horizontal Conveying																			
21-04 10 30 10 Moving Walks																			
21-04 10 30 30 Turntables																			
21-04 10 30 50 Passenger Loading Bridges																			
21-04 10 30 70 People Movers																			
21-04 10 50 Material Handling																			
21-04 10 50 10 Cranes																			
21-04 10 50 20 Hoists																			
21-04 10 50 30 Derricks																			
21-04 10 50 40 Conveyors																			
21-04 10 50 50 Baggage Handling Equipment																			
21-04 10 50 60 Chutes																			
21-04 10 50 70 Pneumatic Tube Systems																			
21-04 10 80 Operable Access Systems																			
21-04 10 80 10 Suspended Scaffolding																			
21-04 10 80 20 Rope Climbers																			
21-04 10 80 30 Elevating Platforms																			
21-04 10 80 40 Powered Scaffolding																			
21-04 10 80 50 Building Envelope Access																			
21-04 20 Plumbing																			
21-04 20 10 Domestic Water Distribution																			
21-04 20 10 10 Facility Potable-Water Storage Tanks																			
21-04 20 10 20 Domestic Water Equipment																			
21-04 20 10 40 Domestic Water Piping																			
21-04 20 10 60 Plumbing Fixtures																			
21-04 20 10 90 Domestic Water Distribution Supplementary Components																			
21-04 20 20 Sanitary Drainage																			
21-04 20 20 10 Sanitary Sewerage Equipment																			
21-04 20 20 30 Sanitary Sewerage Piping																			
21-04 20 20 90 Sanitary Drainage Supplementary Components																			
21-04 20 30 Building Support Plumbing Systems																			
21-04 20 30 10 Stormwater Drainage Equipment																			

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Model Elements utilizing OmniClass™																			
21-04 20 30 20 Stormwater Drainage Piping																			
21-04 20 30 30 Facility Stormwater Drains																			
21-04 20 30 60 Gray Water Systems																			
21-04 20 30 90 Building Support Plumbing System Supplementary Components																			
21-04 20 50 General Service Compressed-Air																			
21-04 20 60 Process Support Plumbing Systems																			
21-04 20 60 10 Compressed-Air Systems																			
21-04 20 60 20 Vacuum Systems																			
21-04 20 60 30 Gas Systems																			
21-04 20 60 40 Chemical-Waste Systems																			
21-04 20 60 50 Processed Water Systems																			
21-04 20 60 90 Process Support Plumbing System Supplementary Components																			
21-04 30 Heating, Ventilation, and Air Conditioning (HVAC)																			
21-04 30 10 Facility Fuel Systems																			
21-04 30 10 10 Fuel Piping																			
21-04 30 10 30 Fuel Pumps																			
21-04 30 10 50 Fuel Storage Tanks																			
21-04 30 20 Heating Systems																			
21-04 30 20 10 Heat Generation																			
21-04 30 20 30 Thermal Heat Storage																			
21-04 30 20 70 Decentralized Heating Equipment																			
21-04 30 20 90 Heating System Supplementary Components																			
21-04 30 30 Cooling Systems																			
21-04 30 30 10 Central Cooling																			
21-04 30 30 30 Evaporative Air-Cooling																			
21-04 30 30 50 Thermal Cooling Storage																			
21-04 30 30 70 Decentralized Cooling																			
21-04 30 30 90 Cooling System Supplementary Components																			
21-04 30 50 Facility HVAC Distribution Systems																			
21-04 30 50 10 Facility Hydronic Distribution																			
21-04 30 50 30 Facility Steam Distribution																			
21-04 30 50 50 HVAC Air Distribution																			

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	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
Model Elements utilizing OmniClass™																			
21-04 30 50 90 Facility Distribution Systems Supplementary Components																			
21-04 30 60 Ventilation																			
21-04 30 60 10 Supply Air																			
21-04 30 60 20 Return Air																			
21-04 30 60 30 Exhaust Air																			
21-04 30 60 40 Outside Air																			
21-04 30 60 60 Air-to-Air Energy Recovery																			
21-04 30 60 70 HVAC Air Cleaning																			
21-04 30 60 90 Ventilation Supplementary Components																			
21-04 30 70 Special Purpose HVAC Systems																			
21-04 30 70 10 Snow Melting																			
21-04 40 Fire Protection																			
21-04 40 10 Fire Suppression																			
21-04 40 10 10 Water-Based Fire-Suppression																			
21-04 40 10 50 Fire-Extinguishing																			
21-04 40 10 90 Fire Suppression Supplementary Components																			
21-04 40 30 Fire Protection Specialties																			
21-04 40 30 10 Fire Protection Cabinets																			
21-04 40 30 30 Fire Extinguishers																			
21-04 40 30 50 Breathing Air Replenishment Systems																			
21-04 40 30 70 Fire Extinguisher Accessories																			
21-04 50 Electrical																			
21-04 50 10 Facility Power Generation																			
21-04 50 10 10 Packaged Generator Assemblies																			
21-04 50 10 20 Battery Equipment																			
21-04 50 10 30 Photovoltaic Collectors																			
21-04 50 10 40 Fuel Cells																			
21-04 50 10 60 Power Filtering and Conditioning																			
21-04 50 10 70 Transfer Switches																			
21-04 50 10 90 Facility Power Generation Supplementary Components																			
21-04 50 20 Electrical Service and Distribution																			
21-04 50 20 10 Electrical Service																			
21-04 50 20 30 Power Distribution																			

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Model Elements utilizing OmniClass™																			
21-04 50 20 70 Facility Grounding																			
21-04 50 20 90 Electrical Service and Distribution Supplementary Components																			
21-04 50 30 General Purpose Electrical Power																			
21-04 50 30 10 Branch Wiring System																			
21-04 50 30 50 Wiring Devices																			
21-04 50 30 90 General Purpose Electrical Power Supplementary Components																			
21-04 50 40 Lighting																			
21-04 50 40 10 Lighting Control																			
21-04 50 40 20 Branch Wiring for Lighting																			
21-04 50 40 50 Lighting Fixtures																			
21-04 50 40 90 Lighting Supplementary Components																			
21-04 50 80 Miscellaneous Electrical Systems																			
21-04 50 80 10 Lightning Protection																			
21-04 50 80 40 Cathodic Protection																			
21-04 50 80 70 Transient Voltage Suppression																			
21-04 50 80 90 Miscellaneous Electrical Systems Supplementary Components																			
21-04 60 Communications																			
21-04 60 10 Data Communications																			
21-04 60 10 10 Data Communications Network Equipment																			
21-04 60 10 20 Data Communications Hardware																			
21-04 60 10 30 Data Communications Peripheral Data Equipment																			
21-04 60 10 50 Data Communications Software																			
21-04 60 10 60 Data Communication Program and Integration Services																			
21-04 60 20 Voice Communications																			
21-04 60 20 10 Voice Communications Switching and Routing Equipment																			
21-04 60 20 20 Voice Communications Terminal Equipment																			
21-04 60 20 30 Voice Communications Messaging																			
21-04 60 20 40 Call Accounting																			
21-04 60 20 50 Call Management																			
21-04 60 30 Audio-Video Communication																			
21-04 60 30 10 Audio-Video Systems																			

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	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
Model Elements utilizing OmniClass™																			
21-04 60 30 50 Electronic Digital Systems																			
21-04 60 60 Distributed Communications and Monitoring																			
21-04 60 60 10 Distributed Audio-Video Communications Systems																			
21-04 60 60 30 Healthcare Communications and Monitoring																			
21-04 60 60 50 Distributed Systems																			
21-04 60 90 Communications Supplementary Components																			
21-04 60 90 10 Supplementary Components																			
21-04 70 Electronic Safety and Security																			
21-04 70 10 Access Control and Intrusion Detection																			
21-04 70 10 10 Access Control																			
21-04 70 10 50 Intrusion Detection																			
21-04 70 30 Electronic Surveillance																			
21-04 70 30 10 Video Surveillance																			
21-04 70 30 50 Electronic Personal Protection																			
21-04 70 50 Detection and Alarm																			
21-04 70 50 10 Fire Detection and Alarm																			
21-04 70 50 20 Radiation Detection and Alarm																			
21-04 70 50 30 Fuel-Gas Detection and Alarm																			
21-04 70 50 40 Fuel-Oil Detection and Alarm																			
21-04 70 50 50 Refrigeration Detection and Alarm																			
21-04 70 50 60 Water Intrusion Detection and Alarm																			
21-04 70 70 Electronic Monitoring and Control																			
21-04 70 70 10 Electronic Detention Monitoring and Control																			
21-04 70 90 Electronic Safety and Security Supplementary Components																			
21-04 70 90 10 Supplementary Components																			
21-04 80 Integrated Automation																			
21-04 80 10 Integrated Automation Facility Controls																			
21-04 80 10 10 Integrated Automation Control of Equipment																			
21-04 80 10 20 Integrated Automation Control of Conveying Equipment																			
21-04 80 10 30 Integrated Automation Control of Fire-Suppression Systems																			
21-04 80 10 40 Integrated Automation Control of Plumbing Systems																			
21-04 80 10 50 Integrated Automation Control of HVAC Systems																			
21-04 80 10 60 Integrated Automation Control of Electrical Systems																			

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Model Elements utilizing OmniClass™																			
21-04 80 10 70 Integrated Automation Control of Communication Systems																			
21-04 80 10 80 Integrated Automation Control of Electronic Safety and Security Systems																			
21-04 80 10 90 Integrated Automation Supplementary Components																			
21-05 00 00 EQUIPMENT AND FURNISHINGS																			
21-05 10 Equipment																			
21-05 10 10 Vehicle and Pedestrian Equipment																			
21-05 10 10 10 Vehicle Servicing Equipment																			
21-05 10 10 30 Interior Parking Control Equipment																			
21-05 10 10 50 Loading Dock Equipment																			
21-05 10 10 70 Interior Pedestrian Control Equipment																			
21-05 10 30 Commercial Equipment																			
21-05 10 30 10 Mercantile and Service Equipment																			
21-05 10 30 20 Vault Equipment																			
21-05 10 30 25 Teller and Service Equipment																			
21-05 10 30 30 Refrigerated Display Equipment																			
21-05 10 30 35 Commercial Laundry and Dry Cleaning Equipment																			
21-05 10 30 40 Maintenance Equipment																			
21-05 10 30 50 Hospitality Equipment																			
21-05 10 30 55 Unit Kitchens																			
21-05 10 30 60 Photographic Processing Equipment																			
21-05 10 30 70 Postal, Packaging, and Shipping Equipment																			
21-05 10 30 75 Office Equipment																			
21-05 10 30 80 Foodservice Equipment																			
21-05 10 40 Institutional Equipment																			
21-05 10 40 10 Educational and Scientific Equipment																			
21-05 10 40 20 Healthcare Equipment																			
21-05 10 40 40 Religious Equipment																			
21-05 10 40 60 Security Equipment																			
21-05 10 40 70 Detention Equipment																			
21-05 10 60 Residential Equipment																			
21-05 10 60 10 Residential Appliances																			
21-05 10 60 50 Retractable Stairs																			

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Model Elements utilizing OmniClass™																			
21-05 10 60 70 Residential Ceiling Fans																			
21-05 10 70 Entertainment and Recreational Equipment																			
21-05 10 70 10 Theater and Stage Equipment																			
21-05 10 70 20 Musical Equipment																			
21-05 10 70 50 Athletic Equipment																			
21-05 10 70 60 Recreational Equipment																			
21-05 10 90 Other Equipment																			
21-05 10 90 10 Solid Waste Handling Equipment																			
21-05 10 90 30 Agricultural Equipment																			
21-05 10 90 40 Horticultural Equipment																			
21-05 10 90 60 Decontamination Equipment																			
21-05 20 Furnishings																			
21-05 20 10 Fixed Furnishings																			
21-05 20 10 10 Fixed Art																			
21-05 20 10 20 Window Treatments																			
21-05 20 10 30 Casework																			
21-05 20 10 70 Fixed Multiple Seating																			
21-05 20 10 90 Other Fixed Furnishings																			
21-05 20 50 Movable Furnishings																			
21-05 20 50 10 Movable Art																			
21-05 20 50 30 Furniture																			
21-05 20 50 40 Accessories																			
21-05 20 50 60 Movable Multiple Seating																			
21-05 20 50 90 Other Movable Furnishings																			
21-06 00 00 SPECIAL CONSTRUCTION AND DEMOLITION																			
21-06 10 Special Construction																			
21-06 10 10 Integrated Construction																			
21-06 10 10 10 Building Modules																			
21-06 10 10 50 Manufactured/Fabricated Rooms																			
21-06 10 10 70 Modular Mezzanines																			
21-06 10 20 Special Structures																			
21-06 10 20 10 Fabric Structures																			
21-06 10 20 20 Space Frames																			

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Model Elements utilizing OmniClass™																			
21-06 10 20 30		Geodesic Structures																	
21-06 10 20 40		Manufacturer-Engineered Structures																	
21-06 10 20 60		Manufactured Canopies																	
21-06 10 20 65		Rammed Earth Construction																	
21-06 10 20 70		Towers																	
21-06 10 30		Special Function Construction																	
21-06 10 30 10		Sound and Vibration Control																	
21-06 10 30 30		Seismic Control																	
21-06 10 30 50		Radiation Protection																	
21-06 10 50		Special Facility Components																	
21-06 10 50 10		Pools																	
21-06 10 50 20		Interior Fountains																	
21-06 10 50 30		Interior Water Features																	
21-06 10 50 40		Aquariums																	
21-06 10 50 50		Amusement Park Structures and Equipment																	
21-06 10 50 60		Ice Rinks																	
21-06 10 50 70		Animal Containment																	
21-06 10 60		Athletic and Recreational Special Construction																	
21-06 10 60 10		Indoor Soccer Boards																	
21-06 10 60 20		Safety Netting																	
21-06 10 60 30		Arena Football Boards																	
21-06 10 60 40		Floor Sockets																	
21-06 10 60 50		Athletic and Recreational Court Walls																	
21-06 10 60 60		Demountable Athletic Surfaces																	
21-06 10 80		Special Instrumentation																	
21-06 10 80 10		Stress Instrumentation																	
21-06 10 80 20		Seismic Instrumentation																	
21-06 10 80 40		Meteorological Instrumentation																	
21-06 10 80 60		Earth Movement Monitoring																	
21-06 20		Facility Remediation																	
21-06 20 10		Hazardous Materials Remediation																	
21-06 20 10 10		Transportation and Disposal of Hazardous Materials																	
21-06 20 10 20		Asbestos Remediation																	

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Model Elements utilizing OmniClass™																			
21-06 20 10 30		Lead Remediation																	
21-06 20 10 40		Polychlorinate Biphenyl Remediation																	
21-06 20 10 50		Mold Remediation																	
21-06 30		Demolition																	
21-06 30 10		Structure Demolition																	
21-06 30 10 10		Building Demolition																	
21-06 30 10 30		Tower Demolition																	
21-06 30 10 50		Bridge Demolition																	
21-06 30 10 70		Dam Demolition																	
21-06 30 30		Selective Demolition																	
21-06 30 30 10		Selective Building Demolition																	
21-06 30 30 30		Selective Interior Demolition																	
21-06 30 30 50		Selective Bridge Demolition																	
21-06 30 30 70		Selective Historic Demolition																	
21-06 30 50		Structure Moving																	
21-06 30 50 10		Structure Relocation																	
21-06 30 50 30		Structure Raising																	
21-07 00 00		SITWORK																	
21-07 10		Site Preparation																	
21-07 10 10		Site Clearing																	
21-07 10 10 10		Clearing and Grubbing																	
21-07 10 10 30		Tree and Shrub Removal and Trimming																	
21-07 10 10 50		Earth Stripping and Stockpiling																	
21-07 10 20		Site Elements Demolition																	
21-07 10 20 10		Utility Demolition																	
21-07 10 20 30		Infrastructure Demolition																	
21-07 10 20 50		Selective Site Demolition																	
21-07 10 30		Site Element Relocations																	
21-07 10 30 10		Utility Relocation																	
21-07 10 50		Site Remediation																	
21-07 10 50 10		Physical Decontamination																	
21-07 10 50 15		Chemical Decontamination																	
21-07 10 50 20		Thermal Decontamination																	

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Model Elements utilizing OmniClass™																			
21-07 10 50 25																			
21-07 10 50 30																			
21-07 10 50 40																			
21-07 10 50 45																			
21-07 10 50 50																			
21-07 10 50 60																			
21-07 10 50 80																			
21-07 10 70																			
21-07 10 70 10																			
21-07 10 70 20																			
21-07 10 70 30																			
21-07 10 70 35																			
21-07 10 70 40																			
21-07 10 70 45																			
21-07 10 70 50																			
21-07 10 70 55																			
21-07 10 70 60																			
21-07 10 70 65																			
21-07 10 70 70																			
21-07 10 70 80																			
21-07 10 70 90																			
21-07 20																			
Site Improvements																			
21-07 20 10																			
21-07 20 10 10																			
21-07 20 10 20																			
21-07 20 10 40																			
21-07 20 10 70																			
21-07 20 10 80																			
21-07 20 20																			
21-07 20 20 10																			
21-07 20 20 20																			
21-07 20 20 40																			
21-07 20 20 70																			

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Model Elements utilizing OmniClass™																			
21-07 20 20 80 Exterior Parking Control Equipment																			
21-07 20 30 Pedestrian Plazas and Walkways																			
21-07 20 30 10 Pedestrian Pavement																			
21-07 20 30 20 Pedestrian Pavement Curbs and Gutters																			
21-07 20 30 30 Exterior Steps and Ramps																			
21-07 20 30 40 Pedestrian Pavement Appurtenances																			
21-07 20 30 70 Plaza and Walkway Lighting																			
21-07 20 30 80 Exterior Pedestrian Control Equipment																			
21-07 20 40 Airfields																			
21-07 20 40 10 Aviation Pavement																			
21-07 20 40 20 Aviation Pavement Curbs and Gutters																			
21-07 20 40 40 Aviation Pavement Appurtenances																			
21-07 20 40 70 Airfield Lighting																			
21-07 20 40 80 Airfield Signaling and Control Equipment																			
21-07 20 50 Athletic, Recreational, and Playfield Areas																			
21-07 20 50 10 Athletic Areas																			
21-07 20 50 30 Recreational Areas																			
21-07 20 50 50 Playfield Areas																			
21-07 20 60 Site Development																			
21-07 20 60 10 Exterior Fountains																			
21-07 20 60 20 Fences and Gates																			
21-07 20 60 25 Site Furnishings																			
21-07 20 60 30 Exterior Signage																			
21-07 20 60 35 Flagpoles																			
21-07 20 60 40 Covers and Shelters																			
21-07 20 60 45 Exterior Gas Lighting																			
21-07 20 60 50 Site Equipment																			
21-07 20 60 60 Retaining Walls																			
21-07 20 60 70 Site Bridges																			
21-07 20 60 80 Site Screening Devices																			
21-07 20 60 85 Site Specialties																			
21-07 20 80 Landscaping																			
21-07 20 80 10 Planting Irrigation																			

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Model Elements utilizing OmniClass™																			
21-07 20 80 20 Turf and Grasses																			
21-07 20 80 30 Plants																			
21-07 20 80 50 Planting Accessories																			
21-07 20 80 70 Landscape Lighting																			
21-07 20 80 80 Landscaping Activities																			
21-07 30 Liquid and Gas Site Utilities																			
21-07 30 10 Water Utilities																			
21-07 30 10 10 Site Domestic Water Distribution																			
21-07 30 10 30 Site Fire Protection Water Distribution																			
21-07 30 10 50 Site Irrigation Water Distribution																			
21-07 30 20 Sanitary Sewerage Utilities																			
21-07 30 20 10 Sanitary Sewerage Utility Connection																			
21-07 30 20 20 Sanitary Sewerage Piping																			
21-07 30 20 40 Utility Septic Tanks																			
21-07 30 20 50 Sanitary Sewerage Structures																			
21-07 30 20 60 Sanitary Sewerage Lagoons																			
21-07 30 30 Storm Drainage Utilities																			
21-07 30 30 10 Storm Drainage Utility Connection																			
21-07 30 30 20 Storm Drainage Piping																			
21-07 30 30 30 Culverts																			
21-07 30 30 40 Site Storm Water Drains																			
21-07 30 30 50 Storm Drainage Pumps																			
21-07 30 30 60 Site Subdrainage																			
21-07 30 30 70 Storm Drainage Ponds and Reservoirs																			
21-07 30 50 Site Energy Distribution																			
21-07 30 50 10 Site Hydronic Heating Distribution																			
21-07 30 50 20 Site Steam Energy Distribution																			
21-07 30 50 40 Site Hydronic Cooling Distribution																			
21-07 30 60 Site Fuel Distribution																			
21-07 30 60 10 Site Gas Distribution																			
21-07 30 60 20 Site Fuel-Oil Distribution																			
21-07 30 60 30 Site Gasoline Distribution																			
21-07 30 60 40 Site Diesel Fuel Distribution																			

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Model Elements utilizing OmniClass™																			
21-07 30 60 60 Site Aviation Fuel Distribution																			
21-07 30 90 Liquid and Gas Site Utilities Supplementary Components																			
21-07 30 90 10 Supplementary Components																			
21-07 40 Electrical Site Improvements																			
21-07 40 10 Site Electric Distribution Systems																			
21-07 40 10 10 Electrical Utility Services																			
21-07 40 10 20 Electric Transmission and Distribution																			
21-07 40 10 30 Electrical Substations																			
21-07 40 10 40 Electrical Transformers																			
21-07 40 10 50 Electrical Switchgear and Protection Devices																			
21-07 40 10 70 Site Grounding																			
21-07 40 10 90 Electrical Distribution System Instrumentation and Controls																			
21-07 40 50 Site Lighting																			
21-07 40 50 10 Area Lighting																			
21-07 40 50 20 Flood Lighting																			
21-07 40 50 50 Building Illumination																			
21-07 40 50 90 Exterior Lighting Supplementary Components																			
21-07 50 Site Communications																			
21-07 50 10 Site Communications Systems																			
21-07 50 10 10 Site Communications Structures																			
21-07 50 10 30 Site Communications Distribution																			
21-07 50 10 50 Wireless Communications Distribution																			
21-07 90 Miscellaneous Site Construction																			
21-07 90 10 Tunnels																			
21-07 90 10 10 Vehicular Tunnels																			
21-07 90 10 20 Pedestrian Tunnels																			
21-07 90 10 40 Service Tunnels																			
21-07 90 10 90 Tunnel Construction Related Activities																			

§ 3.4 Model Element Table Notes

Notes:

(List by number shown on table.)