AIA® Document G202™ – 2013

Project Building Information Modeling Protocol Form

PROJECT: *(Name and address)*

DISTRIBUTION TO:

PROTOCOL VERSION NUMBER:
DATE:
PREPARED BY:

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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.

Model Management Protocols and Processes		Applicability to Project *(Applicable or Not Applicable)*	Location of Detailed Description *(Section 1.8 below or in an attachment to this exhibit identified below)*
§ 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.

§ 3.2 Table Instructions

§ 3.2.1 The Model Element table in Section 3.3 indicates the LOD to which each Model Element shall be developed at each identified Project milestone and the Model Element Author.

§ 3.2.2 Abbreviations for each Model Element Author to be used in the Model Element Table are as follows:
(Provide abbreviations, such as "A—Architect," or "C—Contractor.")

Abbreviation	Model Element Author (MEA)

§ 3.3 Model Element Table *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.* *Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."*				Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes
Model Elements utilizing Uniformat™				LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
A SUBSTRUCTURE	A10 Foundations	A1010	Standard Foundations																			
		A1020	Special Foundations																			
		A1030	Slab on Grade																			
	A20 Basement Construction	A2010	Basement Excavation																			
		A2020	Basement Walls																			
B SHELL	B10 Superstructure	B1010	Floor Construction																			
		B1020	Roof Construction																			
	B20 Exterior Enclosure	B2010	Exterior Walls																			
		B2020	Exterior Windows																			
		B2030	Exterior Doors																			
	B30 Roofing	B3010	Roof Coverings																			
		B3020	Roof Openings																			
C INTERIORS	C10 Interior Construction	C1010	Partitions																			
		C1020	Interior Doors																			
		C1030	Fittings																			
	C20 Stairs	C2010	Stair Construction																			
		C2020	Stair Finishes																			
	C30 Interior Finishes	C3010	Wall Finishes																			
		C3020	Floor Finishes																			
		C3030	Ceiling Finishes																			

§ 3.3 Model Element Table

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Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."

Model Elements utilizing Uniformat™				Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes
				LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
D SERVICES	D10	Conveying	D1010	Elevators & Lifts																				
			D1020	Escalators & Moving Walks																				
			D1030	Other Conveying Systems																				
	D20	Plumbing	D2010	Plumbing Fixtures																				
			D2020	Domestic Water Distribution																				
			D2030	Sanitary Waste																				
			D2040	Rain Water Drainage																				
			D2090	Other Plumbing Systems																				
	D30	HVAC	D3010	Energy Supply																				
			D3020	Heat Generating Systems																				
			D3030	Cooling Generating Systems																				
			D3040	Distribution Systems																				
			D3050	Terminal & Package Units																				
			D3060	Controls & Instrumentation																				
			D3070	Systems Testing & Balancing																				
			D3090	Other HVAC Systems & Equipment																				
	D40	Fire Protection	D4010	Sprinklers																				
			D4020	Standpipes																				
			D4030	Fire Protection Specialties																				
			D4090	Other Fire Protection Systems																				
	D50	Electrical	D5010	Electrical Service & Distribution																				
			D5020	Lighting and Branch Wiring																				
			D5030	Communications & Security																				
			D5090	Other Electrical Systems																				
E EQUIPMENT	E10	Equipment	E1010	Commercial Equipment																				

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Model Elements utilizing Uniformat™			LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
& FURNISHINGS		E1020 Institutional Equipment																			
		E1030 Vehicular Equipment																			
		E1090 Other Equipment																			
	E20 Furnishings	E2010 Fixed Furnishings																			
		E2020 Movable Furnishings																			
F SPECIAL CONSTRUCTION & DEMO	F10 Special Construction	F1010 Special Structures																			
		F1020 Integrated Construction																			
		F1030 Special Construction Systems																			
		F1040 Special Facilities																			
		F1050 Special Controls & Instrumentation																			
	F20 Selective Bldg Demo	F2010 Building Elements Demolition																			
		F2020 Hazardous Components Abatement																			
G BUILDING SITEWORK	G10 Site Preparation	G1010 Site Clearing																			
		G1020 Site Demolition & Relocations																			
		G1030 Site Earthwork																			
		G1040 Hazardous Waste Remediation																			
	G20 Site Improvements	G2010 Roadways																			
		G2020 Parking Lots																			
		G2030 Pedestrian Paving																			
		G2040 Site Development																			
		G2050 Landscaping																			
	G30 Site Civil/ Mech. Utilities	G3010 Water Supply & Distribution Systems																			
		G3020 Sanitary Sewer Systems																			
		G3030 Storm Sewer Systems																			
		G3040 Heating Distribution																			
		G3050 Cooling Distribution																			
		G3060 Fuel Distribution																			

§ 3.3 Model Element Table

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Insert abbreviations for each MEA identified in the table below, such as "A—Architect," or "C—Contractor."

Model Elements utilizing Uniformat™				Project Milestone 1			Project Milestone 2			Project Milestone 3			Project Milestone 4			Project Milestone 5			Project Milestone 6			Notes
				LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
		G3090	Other Civil Mechanical Utilities																			
G40	Site Electrical Utilities	G4010	Electrical Distribution																			
		G4020	Site Lighting																			
		G4030	Site Communications & Security																			
		G4090	Other Electrical Utilities																			
G50	Other Site Construction	G5010	Service Tunnels																			
		G5090	Other Site Systems & Equipment																			

§ 3.4 Model Element Table Notes

Notes:

(List by number shown on table.)