

State of Utah Version of AIA[®] Document G202[™] – 2013

Project Building Information Modeling Protocol Form CMGC Project Edition



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES
Division of Facilities Construction and Management

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State of Utah Version of Document G202™ – 2013

Project Building Information Modeling Protocol Form

State of Utah CMGC Project Edition



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This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 This document establishes the Modeling protocols for the Project.

§ 1.2 Terms in this document shall have the same meaning as those in AIA Document E203–2013 State of Utah CMGC Project Edition.

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.

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.

§ 2.3 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.

§ 2.4 LOD 300

§ 2.4.1 Model Element Content Requirements. The Model Element is graphically represented within the Model as a non-proprietary 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.

§ 2.5 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.

§ 2.6 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.

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, State of Utah CMGC Project Edition, Section 3.7 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.

§ 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)
A/E	Design Team
CM	CMGC
USER	User Agency

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, 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> <i>NOTE: LODs must be adapted for the unique characteristics of each Project.</i>	Schematic Design			Design Development			Construction Documents			Coordination/Submittals			Record Drawings			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 CSI UniFormat™																			
A SUBSTRUCTURE																			
A10 FOUNDATIONS																			
A1010 Standard Foundations	NM			200	A/E		300	A/E					300	A/E	X1				
A1020 Special Foundations	NM			200	A/E		300	A/E					300	A/E	X1				
A20 SUBGRADE ENCLOSURES																			
A2010 Walls for Subgrade Enclosures	100	A/E		200	A/E		300	A/E					300	A/E	X1				
A40 SLABS-ON-GRADE																			
A4010 Standard Slabs-on-Grade	100	A/E		200	A/E		300	A/E		300	CM		300	A/E	X1				
A4020 Structural Slabs-on-Grade	100	A/E		200	A/E		300	A/E		300	CM		300	A/E	X1				
A4030 Slab Trenches	NM			200	A/E		300	A/E		300	CM		300	A/E	X1				
A4040 Pits and Bases	NM			200	A/E		300	A/E		300	CM		300	A/E	X1				
A60 WATER AND GAS MITIGATION																			
A6010 Building Subdrainage	NM			200	A/E		200	A/E					200	A/E	X1				
B SHELL																			
B10 SUPERSTRUCTURE																			
B1010 Floor Construction	100	A/E		200	A/E		300	A/E	B1,B2 ,B3,B 4	400	CM		300	A/E	X1				
B1020 Roof Construction	100	A/E		200	A/E		300	A/E	B1,B2 ,B3,B 4	400	CM		300	A/E	X1				
B1080 Stairs	100	A/E		200	A/E		200	A/E		400	CM		200	A/E	X1				

Init.

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§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, 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> <i>NOTE: LODs must be adapted for the unique characteristics of each Project.</i>	Schematic Design			Design Development			Construction Documents			Coordination/Submittals			Record Drawings			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 CSI UniFormat™																			
B20 EXTERIOR VERTICAL ENCLOSURES																			
B2010 Exterior Walls	100	A/E		200	A/E		300	A/E	B5				300	A/E	X1				
B2020 Exterior Windows	100	A/E		200	A/E		200	A/E					200	A/E	X1				
B2050 Exterior Doors and Grilles	100	A/E		200	A/E		300	A/E					300	A/E	X1				
B2070 Exterior Louvers and Vents	NM			200	A/E		300	A/E					300	A/E	X1				
B2080 Exterior Wall Appurtenances	NM			200	A/E		300	A/E					300	A/E	X1				
B2090 Exterior Wall Specialties	NM			200	A/E		300	A/E					300	A/E	X1				
B30 EXTERIOR HORIZONTAL ENCLOSURES																			
B3010 Roofing	NM			100	A/E		100	A/E					100	A/E	X1				
B3020 Roof Appurtenances	NM			200	A/E		200	A/E					200	A/E	X1				
B3060 Horizontal Openings	NM			200	A/E		300	A/E					300	A/E	X1				
B3080 Overhead Exterior Enclosures	NM			200	A/E		300	A/E					300	A/E	X1				
C INTERIORS																			
C10 INTERIOR CONSTRUCTION																			
C1010 Interior Partitions	100	A/E		200	A/E		300	A/E	C1	300	CM	C2	300	A/E	X1				
C1020 Interior Windows	100	A/E		200	A/E		300	A/E					300	A/E	X1				
C1030 Interior Doors	100	A/E		200	A/E		300	A/E					300	A/E	X1				
C1070 Suspended Ceiling Construction	NM			200	A/E		200	A/E					200	A/E	X1				
C1090 Interior Specialties	NM			100	A/E		100	A/E					100	A/E	X1				
C20 INTERIOR FINISHES																			
C2010 Wall Finishes	NM			100	A/E		100	A/E					100	A/E	X1				
C2030 Flooring	NM			100	A/E		100	A/E					100	A/E	X1				
C2040 Stair Finishes	NM			100	A/E		100	A/E					100	A/E	X1				
C2050 Ceiling Finishes	NM			200	A/E		200	A/E					200	A/E	X1				
D SERVICES																			
D10 CONVEYING																			
D1010 Vertical Conveying Systems	100	A/E		200	A/E		300	A/E					300	A/E	X1				
D1030 Horizontal Conveying	100	A/E		200	A/E		300	A/E					300	A/E	X1				
D1050 Material Handling	100	A/E		200	A/E		300	A/E					300	A/E	X1				
D20 PLUMBING																			
D2010 Domestic Water Distribution	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2				D9
D2020 Sanitary Drainage	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2				D9

§ 3.3 Model Element Table																		
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, 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."																		
NOTE: LODs must be adapted for the unique characteristics of each Project.																		
Schematic Design			Design Development			Construction Documents			Coordination/Submittals			Record Drawings			Notes (See Sec. 3.4)			
Model Elements Utilizing CSI UniFormat™	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes
D2030 Building Support Plumbing Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D9
D2050 General Service Compressed-Air	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D9
D2060 Process Support Plumbing Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D9
D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)																		
D3010 Facility Fuel Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D9
D3020 Heating Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D7,D9
D3030 Cooling Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D7,D9
D3050 Facility HVAC Distribution Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D7,D9
D3060 Ventilation	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D7,D9
D3070 Special Purpose HVAC Systems	NM			200	A/E		300	A/E		400	CM		500	CM	X1, X2			D7,D9
D40 FIRE PROTECTION																		
D4010 Fire Suppression	NM			NM	A/E, CM		300	A/E, CM		400	CM		400	CM	X1, X2			D8
D4030 Fire Protection Specialties	NM			100	A/E		200	A/E					200	A/E	X1			
D50 ELECTRICAL																		
D5010 Facility Power Generation	NM			200	A/E		200	A/E		400	CM		400	CM	X1, X2			D1,D3,D6
D5020 Electrical Service and Distribution	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2			D1,D3,D6
D5030 General Purpose Electrical Power	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2			D1,D3,D6
D5040 Lighting	NM			200	A/E		200	A/E		400	CM		400	CM	X1, X2			D2,D3,D6
D5080 Miscellaneous Electrical Systems	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2			D1,D3,D6
D60 COMMUNICATIONS																		
D6010 Data Communications	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2			D2,D4,D5, D6
D6020 Voice Communications	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2			D2,D4,D5, D6

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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 CSI UniFormat™																			
D6030 Audio-Video Communication	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2				D2,D4,D5, D6
D6060 Distributed Communications and Monitoring	NM			200	A/E		300	A/E		400	CM		400	CM	X1, X2				D2,D4,D5, D6
D70 ELECTRONIC SAFETY AND SECURITY																			
D7010 Access Control and Intrusion Detection	NM			100	A/E		100	A/E		100	CM		100	CM	X1, X2				D2,D4,D5, D6
D7030 Electronic Surveillance	NM			100	A/E		100	A/E		100	CM		100	CM	X1, X2				D2,D4,D5, D6
D7050 Detection and Alarm	NM			100	A/E		100	A/E		100	CM		100	CM	X1, X2				D2,D4,D5, D6
D80 INTEGRATED AUTOMATION																			
D8010 Integrated Automation Facility Controls	NM			NM			NM			100/300	CM	D10	100	CM					
E EQUIPMENT AND FURNISHINGS																			
E10 EQUIPMENT																			
E1010 Vehicle and Pedestrian Equipment	NM			200	A/E		200	A/E	E2,E3	400	CM	E3	400	CM	X1, X2				
E1030 Commercial Equipment	NM			200	A/E		200	A/E	E2,E3	400	CM	E3	400	CM	X1, X2				
E1040 Institutional Equipment	NM			200	A/E		200	A/E	E2,E3	400	CM	E3	400	CM	X1, X2				
E1070 Entertainment and Recreational Equipment	NM			200	A/E		200	A/E	E2,E3	400	CM	E3	400	CM	X1, X2				
E1090 Other Equipment	NM			200	A/E		200	A/E	E2,E3	400	CM	E3	400	CM	X1, X2				
E20 FURNISHINGS																			
E2010 Fixed Furnishings	100	A/E		200	A/E		200	A/E		400	USER	E1	400	USER	X1, X3				
E2050 Movable Furnishings	100	A/E		200	A/E		200	A/E		400	USER	E1	400	USER	X1, X3				
F30 DEMOLITION																			
F3010 Structure Demolition	100	A/E		200	A/E		200	A/E					200	A/E	X1				
F3030 Selective Demolition	100	A/E		200	A/E		200	A/E					200	A/E	X1				
G SITEWORK																			
G10 SITE PREPARATION																			
G1010 Site Clearing	NM			200	A/E		300	A/E					300	A/E	X1				
G1020 Site Elements Demolition	NM			200	A/E		300	A/E					300	A/E	X1				

§ 3.3 Model Element Table <i>Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, 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> <i>NOTE: LODs must be adapted for the unique characteristics of each Project.</i>	Schematic Design			Design Development			Construction Documents			Coordination/Submittals			Record Drawings			Notes <i>(See Sec. 3.4)</i>		
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes			
Model Elements Utilizing CSI UniFormat™																		
G1030 Site Element Relocations	NM			200	A/E		300	A/E					300	A/E	X1			
G1070 Site Earthwork	NM			200	A/E		300	A/E					300	A/E	X1			
G20 SITE IMPROVEMENTS																		
G2010 Roadways	100	A/E		200	A/E		300	A/E					300	A/E	X1			
G2020 Parking Lots	100	A/E		200	A/E		300	A/E					300	A/E	X1			
G2030 Pedestrian Plazas and Walkways	100	A/E		200	A/E		300	A/E					300	A/E	X1			
G2060 Site Development	100	A/E		200	A/E		300	A/E					300	A/E	X1			
G2080 Landscaping	NM			100	A/E		200	A/E					200	A/E	X1			
G30 LIQUID AND GAS SITE UTILITIES																		
G3010 Water Utilities	NM			200	A/E		300	A/E					300	A/E	X1			
G3020 Sanitary Sewerage Utilities	NM			200	A/E		300	A/E					300	A/E	X1			
G3030 Storm Drainage Utilities	NM			200	A/E		300	A/E					300	A/E	X1			
G3050 Site Energy Distribution	NM			200	A/E		300	A/E					300	A/E	X1			
G3060 Site Fuel Distribution	NM			200	A/E		300	A/E					300	A/E	X1			
G40 ELECTRICAL SITE IMPROVEMENTS																		
G4010 Site Electric Distribution Systems	NM			200	A/E		300	A/E					300	A/E	X1			D1
G4050 Site Lighting	NM			200	A/E		300	A/E					300	A/E	X1			
G50 SITE COMMUNICATIONS																		
G5010 Site Communications Systems	NM			200	A/E		300	A/E					300	A/E	X1			D1
G90 MISCELLANEOUS SITE CONSTRUCTION																		
G9010 Tunnels																		

§ 3.4 Model Element Table Notes

Notes:
(List by number shown on table.)

NM - Not modeled for this project milestone.

- [B1] Roof or floor system modeling will not include edge-of-slab angles or bent plates, decking, blocking, bridging, strapping, and tie, gusset or connection plates.
- [B2] Framing for openings in roof or floor systems smaller than a square 12 inches by 12 inches will not be modeled.
- [B3] The overall profile of open-web joists and joist girders shall be modeled. The size, configuration and layout of individual members comprising joists and joist girders will not be modeled.

- [B4] Structural steel or concrete used to support roof top equipment shall be modeled.
- [B5] Structural steel supporting or bracing exterior walls shall be modeled. Shear tabs and tie, gusset or connection plates will not be modeled. Metal or wood stud bracing will not be modeled.
- [C1] Structural steel bracing for non-full height masonry partitions shall be modeled. Shear tabs and tie, gusset or connection plates will not be modeled. Bracing for metal stud or wood framed non-full height partitions is not modeled.
- [C2] Non-moveable required framing elements shall be modeled (e.g. king studs, bracing, outside corners or other framing that may conflict with other construction.)
- [D1] Underground conduits are not required to be modeled, with the exception of main electrical and telecommunications service underground exterior wall penetrations.
- [D2] Underground or in-slab conduits are not required to be modeled.
- [D3] Above grade service and distribution conduits shall be modeled, or banks of conduit may be modeled as a service/distribution conduit zone. Above grade raceway 2.5 inches in diameter or greater shall be modeled.
- [D4] Electrical rooms, and other panels not located in electrical rooms including voice/data, a/v and security, shall have branch conduit zones modeled 10' beyond the walls of the electrical room or panel location, where it is believed 6 or more conduits will run. The branch conduit zones shall have sufficient capacity for anticipated conduits. At a minimum, conduit zones shall be equal to the width of the panel served by two times its depth.
- [D5] Cable tray shall be modeled.
- [D6] Conduit run modeling shown by engineer represents one possible route. The contractor is not required to follow that specific route, unless noted otherwise. The contractor is responsible to determine actual routing based on field verification, and the means and methods the contractor chooses.
- [D7] Model element shall include appropriate clearance and work zone(s)
- [D8] Fire Protection shall be modeled by the design team or by a Design-Build Vendor procured at the completion of Design Development
- [D9] Piping greater than 1 inch diameter shall be modeled. Insulation, if required or specified must be a part of the model element.
- [D10] Panels modeled to Level 300
- [E1] User agency shall identify model information, if any, that can be obtained from vendor(s).
- [E2] LOD 300 for equipment that is included in the Construction Contract. LOD 200 for equipment that is Not In Contract (NIC).
- [E3] Project teams shall meet and discuss what, if any, equipment is to be included in the model.
- [X1] Record Drawing Modeling shall be consistent with the Design Agreement requirements. There is no anticipation or expectation of Field Verification or the provision of model information of greater development than that required at the completion of Construction Documents.
- [X2] CM shall provide A/E with model content for incorporation into model database
- [X3] User shall provide A/E with model content for incorporation into model database.