

MODEL PROGRESSION MATRIX (MPM) FOR BIM-ENABLED PROJECTS



The Model Progression Matrix (MPM) is intended to define the team members' roles and responsibilities on BIM-enabled projects. Depending on the size and scope of the project, a custom MPM may be defined. When no custom MPM exists, it is expected that the default table outlined below is followed.

KEY: A - Architect | M - Mechanical Engineer | P - Plumbing Engineer | E - Electrical Engineer | S - Structural Engineer | AE - Architect / Engineer Team | GC - General Contractor and/or trade partners | SM - Scan & Modeling Team

ELEMENT (ASTM UNIFORMAT II CLASSIFICATION)

LEVEL OF DETAIL (LOD) AND MODEL COMPONENT AUTHOR (MCA)

A | SUBSTRUCTURE

ELEMENT	DESCRIPTION	DESIGN CONCEPT		DESIGN DEVELOPMENT		CONSTRUCTION DOCUMENTS		CONSTRUCTION / FABRICATION		FACILITY MANAGEMENT	
		LOD	MCA	LOD	MCA	LOD	MCA	LOD	MCA	LOD	MCA
A10 - Foundations	A1010 - Standard Foundations	100	AE	200	AE	300	GC	400/500	GC		GC
	A1020 - Special Foundations	100	AE	100	AE	300	GC	400/500	GC		GC
	A1030 - Slab on Grade	100	AE	200	AE	300	GC	400/500	GC		GC
A20 - Basement Construction	A2010 - Basement Excavation	100	AE	200	AE	300	GC	300	GC		GC
	A2020 - Basement Walls	100	AE	200	AE	300	GC	400/500	GC		GC

B | SHELL

B10 - Superstructure	B1010 - Floor Construction	100	AE	200	AE	300	AE	300	GC		GC
	B1020 - Roof Construction	100	AE	200	AE	300	AE	300	GC		GC
B20 - Exterior Enclosure	B2010 - Exterior Walls	100	AE	200	AE	300	GC	400/500	GC		GC
	B2020 - Exterior Windows	100	AE	200	AE	300	GC	400/500	GC	500	GC
	B2030 - Exterior Doors	100	AE	200	AE	300	GC	400/500	GC	500	GC
B30 - Roofing	B3010 - Roof Coverings	100	AE	200	AE	300	GC	300	GC		GC
	B3020 - Roof Openings	100	AE	200	AE	300	GC	300	GC	500	GC

C | INTERIORS

C10 - Interior Construction	C1010 - Partitions	100	AE	200	AE	300	AE	400/500	GC		GC
	C1020 - Interior Doors	100	AE	200	AE	300	AE	400/500	GC	500	GC
	C1030 - Fittings	100	AE	100	AE	300	AE	400/500	GC		GC
C20 - Stairs	C2010 - Stair Construction	100	AE	200	AE	300	GC	400/500	GC		GC
	C2020 - Stair Finishes	100	AE	100	AE	100	GC	100	GC		GC
C30 - Interior Finishes	C3010 - Wall Finishes	100	AE	100	AE	100	AE	100	GC	500	GC
	C3020 - Floor Finishes	100	AE	100	AE	100	AE	100	GC		GC
	C3030 - Ceiling Finishes	100	AE	100	AE	100	AE	100	GC	500	GC

D | SERVICES

D10 - Conveying	D1010 - Elevators & Lifts	100	AE	200	AE	300	AE	400/500	GC	500	GC
	D1020 - Escalators & Moving Walks	100	AE	200	AE	300	AE	400/500	GC	500	GC
	D1030 - Other Conveying Systems	100	AE	200	AE	300	AE	400/500	GC		GC
D20 - Plumbing	D2010 - Plumbing Fixtures	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D2020 - Domestic Water Distribution	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D2030 - Sanitary Waste	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D2040 - Rain Water Drainage	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D2090 - Other Plumbing Systems	100	AE	100	AE	300	GC	400/500	GC	500	GC
D30 - HVAC	D3010 - Energy Supply	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D3020 - Heat Generating Systems	100	AE	200	AE	300	GC	400/500	GC	500	GC
	D3030 - Cooling Generating Systems	100	AE	200	AE	300	GC	400/500	GC	500	GC
	D3040 - Distribution Systems	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D3050 - Terminal & Package Units	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D3060 - Controls & Instrumentation	100	AE	100	AE	100	GC	100	GC	500	GC
	D3070 - Systems Testing & Balancing	100	AE	100	AE	100	GC	100	GC	500	GC
	D3090 - Other HVAC Systems & Equipment	100	AE	100	AE	300	GC	400/500	GC	500	GC
D40 - Fire Protection	D4010 - Sprinklers	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D4020 - Standpipes	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D4030 - Fire Protection Specialties	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D4090 - Other Fire Protection Systems	100	AE	100	AE	300	GC	400/500	GC	500	GC
D50 - Electrical	D5010 - Electrical Service & Distribution	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D5020 - Lighting and Branch Wiring	100	AE	100	AE	300	GC	400/500	GC	500	GC
	D3030 - Communications & Security	100	AE	100	AE	100	GC	100	GC	500	GC
	D3090 - Other Electrical Systems	100	AE	100	AE	100	GC	100	GC	500	GC

E | EQUIPMENT & FURNISHINGS

E10 - Equipment	E1010 - Commercial Equipment	100	AE	100	AE	300	GC	400/500	GC	500	GC
	E1020 - Institutional Equipment	100	AE	100	AE	300	GC	400/500	GC	500	GC
	E1030 - Vehicular Equipment	100	AE	100	AE	300	GC	400/500	GC	500	GC
	E1090 - Other Equipment	100	AE	100	AE	300	GC	400/500	GC	500	GC
E20 - Furnishings	E2010 - Fixed Furnishings	100	AE	100	AE	300	AE	400/500	AE	500	AE
	E2020 - Movable Furnishings	100	AE	100	AE	100	AE	100	AE	500	AE

F | SPECIAL CONSTR. & DEMO

F10 - Special Construction	F1010 - Special Structures	100	AE	200	AE	300	AE	400/500	AE		AE
	F1020 - Integrated Construction	100	AE	100	AE	300	AE	400/500	AE		AE
	F1030 - Special Construction Systems	100	AE	100	AE	300	AE	400/500	AE	500	AE
	F1040 - Special Facilities	100	AE	100	AE	300	AE	400/500	AE	500	AE
	F1050 - Special Controls & Instrumentation	100	AE	100	AE	100	AE	100	AE	500	AE
F20 - Selective Bldg Demo	F2010 - Building Elements Demolition	100	AE	200	AE	300	AE	400/500	GC		GC
	F2020 - Hazardous Components Abatement	100	AE	100	AE	100	AE	100	GC	500	GC

G | BUILDING SITEWORK

G10 - Site Preparation	G1010 - Site Clearing	100	AE	100	AE	100	AE	100	GC		GC
	G1020 - Site Demolition & Relocations	100	AE	200	AE	300	AE	300	GC		GC
	G1030 - Site Earthwork	100	AE	200	AE	300	AE	300	GC		GC
	G1040 - Hazardous Waste Remediation	100	AE	100	AE	100	AE	100	GC		GC
G20 - Site Improvements	G2010 - Roadways	100	AE	200	AE	300	AE	300	GC		GC
	G2020 - Parking Lots	100	AE	100	AE	300	AE	300	GC		GC
	G2030 - Pedestrian Paving	100	AE	100	AE	300	AE	300	GC		GC
	G2040 - Site Development	100	AE	100	AE	300	AE	300	GC		GC
	G2050 - Landscaping	100	AE	100	AE	300	AE	300	GC		GC
G30 - Site Civil/Mech Utilities	G3010 - Water Supply & Distribution Systems	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G3020 - Sanitary Sewer Systems	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G3030 - Storm Sewer Systems	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G3040 - Heating Distribution	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G3050 - Cooling Distribution	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G3060 - Fuel Distribution	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G3090 - Other Civil/Mechanical Utilities	100	AE	100	AE	300	GC	400/500	GC	500	GC
G40 - Site Electrical Utilities	G4010 - Electrical Distribution	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G4020 - Site Lighting	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G4030 - Site Communications & Security	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G4090 - Other Electrical Utilities	100	AE	100	AE	300	GC	400/500	GC	500	GC
G50 - Other Site Construction	G5010 - Service Tunnels	100	AE	100	AE	300	GC	400/500	GC	500	GC
	G5090 - Other Site Systems & Equipment	100	AE	100	AE	300	GC	400/500	GC	500	GC



Credit: This MPM has been reconstructed by United-BIM Inc. from the original source <https://www.gsa.gov/real-estate/design-construction/3d4d-building-information-modeling>
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