

Scope of Services – Building Information Modeling (BIM)

Included in Base Contract

- Develop architectural BIM model using Autodesk Revit® architecture to Level of Development (LOD) identified)
- Coordinate with subconsultants to develop respective BIM models to LOD identified
- Perform BIM model coordination/collaboration for collision detection, including:
 - Collection, preparation and filtering of models from Civil, Structural and MEP
 - Three (3) web-based meetings to review models and collisions

BIM Deliverables

- Model will be shared with subconsultants only. Release of Revit model is not included.
- Model will be made available in “read only” format to Owner and Contractor.
- Meeting minutes and list of collisions from collaboration meetings.

Optional Services: (indicate any of the following to be included)

- Additional collaboration sessions (beyond first three)
- Creation of animations or videos
- Virtual preconstruction meetings with contractors/subcontractors
- Quantity take-offs and material estimates

LOD Descriptions

- 100 – Non-geometric date of line work, areas, volumes, zones, etc.
- 200 – Generic elements shown in three dimensions
- 300 - Specific elements, confirmed 3D object geometry
 - Dimensions, capacities, connections
- 400 – Shop drawings/fabrication
- 500 – As-built

The content in G5:O83 is shown for example only - it is expected that each project team will validate and adjust the content to align with the particular needs of the project and capabilities of the team members. The Level of Detail by Phase entries shown here are the minimum that would satisfy the phase descriptions in the **AIA/AIACC IPD Guide***.

See "**Level of Detail Descriptions**" tab for descriptions of LOD 100 - 500.

[*Integrated Project Delivery: A Guide](#)

Element (ASTM Uniformat II Classification)

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	B2010 Exterior Walls	
		B2020 Exterior Windows	
		B2030 Exterior Doors	
		B2020 Exterior Windows	
B30 Roofing	B3010 Roof Coverings	B3010 Roof Coverings	
		B3020 Roof Openings	
		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	C3010 Wall Finishes
C3020 Floor Finishes			
C3030 Ceiling Finishes			
D SERVICES	D10 Conveying	D1010 Elevators & Lifts	
		D1020 Escalators & Moving Walks	
		D1030 Other Conveying Systems	
	D20 Plumbing	D2010 Plumbing Fixtures	D2010 Plumbing Fixtures
			D2020 Domestic Water Distribution
			D2030 Sanitary Waste
			D2040 Rain Water Drainage
			D2090 Other Plumbing Systems
			D2090 Other Plumbing Systems
	D30 HVAC	D3010 Energy Supply	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			

PD Prime Designer
DC Design Consultants
PC Prime Constructor
TC Trade Contractors
S Suppliers

Level of Detail (LOD) and Model Component Author (MCA)

Conceptual-ization		Criteria Design		Detailed Design		Implement-ation Docs	
LOD	MCA	LOD	MCA	LOD	MCA	LOD	MCA
100	PD	200	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	200	DC	300	TC	400	TC
100	PD	200	DC	300	TC	300	TC
100	PD	200	DC	300	TC	400	TC
100	PD	200	PD	300	PD	300	PC
100	PD	200	PD	300	PD	300	PC
100	PD	200	PD	300	TC	400	TC
100	PD	200	PD	300	TC	400	TC
100	PD	200	PD	300	TC	400	TC
100	PD	200	PD	300	TC	300	TC
100	PD	200	PD	300	PD	400	TC
100	PD	100	PD	300	PD	400	TC
100	PD	200	PD	300	TC	400	TC
100	PD	100	PD	100	TC	100	TC
100	PD	100	PD	100	PD	100	TC
100	PD	100	PD	100	PD	100	TC
100	PD	200	PD	300	DC	400	TC
100	PD	200	PD	300	DC	400	TC
100	PD	200	PD	300	DC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	300	TC	400	TC
100	PD	100	DC	100	TC	100	TC
100	PD	100	DC	100	TC	100	TC
100	PD	100	DC	300	TC	400	TC

	D40	Fire Protection	D4010	Sprinklers	100	PD	100	DC	300	TC	400	TC	
			D4020	Standpipes	100	PD	100	DC	300	TC	400	TC	
			D4030	Fire Protection Specialties	100	PD	100	DC	300	TC	400	TC	
			D4090	Other Fire Protection Systems	100	PD	100	DC	300	TC	400	TC	
	D50	Electrical	D5010	Electrical Service & Distribution	100	PD	100	DC	300	TC	400	TC	
			D5020	Lighting and Branch Wiring*	100	PD	100	DC	300/100	TC	400/100	TC	
			D5030	Communications & Security	100	PD	100	DC	100	TC	100	TC	
			D5090	Other Electrical Systems	100	PD	100	DC	100	TC	100	TC	
E	EQUIPMENT & FURNISHINGS	E10	Equipment	E1010	Commercial Equipment	100	PD	100	PD	300	TC	400	TC
				E1020	Institutional Equipment	100	PD	100	PD	300	TC	400	TC
				E1030	Vehicular Equipment	100	PD	100	PD	300	TC	400	TC
				E1090	Other Equipment	100	PD	100	PD	300	TC	400	TC
		E20	Furnishings	E2010	Fixed Furnishings	100	PD	100	PD	300	PD	400	PD
				E2020	Movable Furnishings	100	PD	100	PD	100	PD	100	PD
F	SPECIAL CONSTR. & DEMO	F10	Special Construction	F1010	Special Structures	100	PD	200	PD	300	PD	400	PD
				F1020	Integrated Construction	100	PD	100	PD	300	PD	400	PD
				F1030	Special Construction Systems	100	PD	100	PD	300	PD	400	PD
				F1040	Special Facilities	100	PD	100	PD	300	PD	400	PD
				F1050	Special Controls & Instrumentation	100	PD	100	PD	100	PD	100	PD
		F20	Selective Bldg Demo	F2010	Building Elements Demolition	100	PD	200	PD	300	PD	400	TC
				F2020	Hazardous Components Abatement	100	PD	100	PD	100	PD	100	TC
G	BUILDING SITEWORK	G10	Site Preparation	G1010	Site Clearing	100	PD	100	PD	100	PD	100	TC
				G1020	Site Demolition & Relocations	100	PD	200	PD	300	PD	300	TC
				G1030	Site Earthwork	100	PD	200	PD	300	PD	300	TC
				G1040	Hazardous Waste Remediation	100	PD	100	PD	100	PD	100	TC
		G20	Site Improvements	G2010	Roadways	100	PD	200	PD	300	PD	300	TC
				G2020	Parking Lots	100	PD	100	PD	300	PD	300	TC
				G2030	Pedestrian Paving	100	PD	100	PD	300	PD	300	TC
				G2040	Site Development	100	PD	100	PD	300	PD	300	TC
				G2050	Landscaping	100	PD	100	PD	300	PD	300	TC
		G30	Site Civil/Mech Utilities	G3010	Water Supply & Distribution Systems	100	PD	100	DC	300	TC	400	TC
				G3020	Sanitary Sewer Systems	100	PD	100	DC	300	TC	400	TC
				G3030	Storm Sewer Systems	100	PD	100	DC	300	TC	400	TC
				G3040	Heating Distribution	100	PD	100	DC	300	TC	400	TC
				G3050	Cooling Distribution	100	PD	100	DC	300	TC	400	TC
				G3060	Fuel Distribution	100	PD	100	DC	300	TC	400	TC
				G3090	Other Civil/Mechanical Utilities	100	PD	100	DC	300	TC	400	TC
		G40	Site Electrical Utilities	G4010	Electrical Distribution	100	PD	100	DC	300	TC	400	TC
				G4020	Site Lighting	100	PD	100	DC	300	TC	400	TC
				G4030	Site Communications & Security	100	PD	100	DC	300	TC	400	TC
				G4090	Other Electrical Utilities	100	PD	100	DC	300	TC	400	TC
		G50	Other Site Construction	G5010	Service Tunnels	100	PD	100	DC	300	TC	400	TC
				G5090	Other Site Systems & Equipment	100	PD	100	DC	300	TC	400	TC

* Common current practice is to model lighting fixtures for coordination purposes, but not to model branch wiring.