

BIM FORUM LOD Specification 2020 Part II

Breakdown Level	This project	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License			Milestones shown here are examples only ->			SD			DD			CD			Estimating Est. 1			Estimating Bid Pkg.			LEED Cert. Check			LEED Cert Submittal		
		UNIFORMAT	OMNICLASS	SYSTEM/COMPONENT	RELEVANT ATTRIBUTE TABLES	Date			Date			Date			Date			Date			Date			Date				
		LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes			
1		N/A	36-51	OFFICE RESOURCES																								
2		N/A	36-51 73	Office Model Templates																								
3		N/A	36-51 73 11	Model Content																								
4		N/A	36-51 73 11 13	Model Annotation Content																								
5		N/A	36-51 73 11 13 11	Properties																								
6		N/A	36-51 73 11 13 11 19	Zones/Rooms/Spaces																								
5		N/A	36-51 73 11 13 17	Symbols																								
6		N/A	36-51 73 11 13 17 11	Horizontal Grids																								
6		N/A	36-51 73 11 13 17 13	Vertical Levels																								
				ELEMENTS																								
1		A	21-01 00 00	SUBSTRUCTURE																								
2		A10	21-01 10	Foundations	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
3		A1010	21-01 10 10	Standard Foundations	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
4		A1010.10	21-01 10 10 10	Wall Foundations	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
4		A1010.30	21-01 10 10 30	Column Foundations	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
4		A1010.90	21-01 10 10 90	Standard Foundation Supplementary Components																								
3		A1020	21-01 10 20	Special Foundations	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
4		A1020.10	21-01 10 20 10	Driven Piles																								
4		A1020.15	21-01 10 20 15	Bored Piles																								
4		A1020.20	21-01 10 20 20	Caissons																								
4		A1020.30	21-01 10 20 30	Special Foundation Walls																								
4		A1020.40	21-01 10 20 40	Foundation Anchors																								
4		A1020.50	21-01 10 20 50	Underpinning																								
4		A1020.60	21-01 10 20 60	Raft Foundations																								
4		A1020.70	21-01 10 20 70	Pile Caps																								
4		A1020.80	21-01 10 20 80	Grade Beams	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
2		A20	21-01 20	Subgrade Enclosures	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
3		A2010	21-01 20 10	Walls for Subgrade Enclosures	A, B Concrete; A, B Wood; A, B Masonry; A, B Precast Concrete																							
4		A2010.10	21-01 20 10 10	Subgrade Enclosure Wall Construction																								
4		A2010.20	21-01 20 10 20	Subgrade Enclosure Wall Interior Skin																								
4		A2010.90	21-01 20 10 90	Subgrade Enclosure Wall Supplementary Components																								
2		A40	21-01 40	Slabs-on-Grade	A, B - Str. Concrete																							
3		A4010	21-01 40 10	Standard Slabs-on-Grade	A, B Concrete																							
3		A4020	21-01 40 20	Structural Slabs-on-Grade	A, B Concrete																							
3		A4030	21-01 40 30	Slab Trenches																								
3		A4040	21-01 40 40	Pits and Bases																								
3		A4090	21-01 40 90	SlabOn-Grade Supplementary Components																								
4		A4090.10	21-01 40 90 10	Perimeter Insulation																								
4		A4090.20	21-01 40 90 20	Vapor Retarder																								
4		A4090.30	21-01 40 90 30	Waterproofing																								
4		A4090.50	21-01 40 90 50	Mud Slab																								
4		A4090.60	21-01 40 90 60	Subbase Layer																								
2		A60	21-01 60	Water and Gas Mitigation																								
3		A6010	21-01 60 10	Building Subdrainage																								
4		A6010.10	21-01 60 10 10	Foundation Drainage																								
4		A6010.20	21-01 60 10 20	Underslab Drainage																								
3		A6020	21-01 60 20	Off-Gassing Mitigation																								
4		A6020.10	21-01 60 20 10	Radon Mitigation																								
4		A6020.50	21-01 60 20 50	Maethane Mitigation																								
2		A90	21-01 90	Substructure Related Activities																								
3		A9010	21-01 90 10	Substructure Excavation																								

Bridge Concrete

Baseline	Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones			
						Estimating	Estimating	LEED Cert.	LEED Cert
Additional						Est. 1	Bid Pkg.	Check	Submittal
Attribute	Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary				
Member Type	Text			(0) Foundation (1) Beam (2) Column (3) Slab (4) Wall					
Concrete Compression Strength		PSI			Example: 3000 PSI				
Reinforcing Steel Flexure		PSI			Example: 60,000 PSI				
Reinforcing Steel Shear		PSI			Example: 60,000 PSI				
Target LOD	Text			100, 200, 300, 350, 400					
Current LOD	Text			100, 200, 300, 350, 400					
Member Casting Number									
Exterior Exposure	Logical			T/F, 1/0					
Shop Submittal Parameters									
Date - Issued For Construction	Date Time				DateIFC				
Date - Permitted	Date Time				DatePermitted				
Date - received for Shop Detailing	Date Time				DateReceivedForShopDet				
Date - Detailing Submitted for EOR review \ Out For Approval	Date Time				DateOutForApproval				
Date - Final Erection Drawings Approved for Fab	Date Time				DateFinalForFab				
Date - Fabrication Start	Date Time				DateFabStart				
Date - Fabrication End	Date Time				DateFabEnd				
Date - Fabrication Shipped	Date Time				DateFabShip				
Date - Fabrication Received	Date Time				DateFabReceived				
Date - Erection	Date Time				DateErected				
Date - Inspected	Date Time				DateInspected				
Finish	Character			A,B,C per ACI 117	Specify by face of concrete				

Highway Bridge Precast

Baseline	Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones			
						Estimating	Estimating	LEED Cert.	LEED Cert
Additional						Est. 1	Bid Pkg.	Check	Submittal
Attribute	Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary				
Member Type	Text			(0) Foundation (1) Beam (2) Column (3) Slab (4) Wall					
Concrete Compression Strength		PSI			Example: 3000 PSI				
Reinforcing Steel Flexure		PSI			Example: 60,000 PSI				
Reinforcing Steel Shear		PSI			Example: 60,000 PSI				
Target LOD	Text			100, 200, 300, 350, 400					
Current LOD	Text			100, 200, 300, 350, 400					
Member Casting Number									
Exterior Exposure	Logical			T/F, 1/0					
Shop Submittal Parameters									
Date - Issued For Construction	Date Time				DateIFC				
Date - Permitted	Date Time				DatePermitted				
Date - received for Shop Detailing	Date Time				DateReceivedForShopDet				
Date - Detailing Submitted for EOR review \ Out For Approval	Date Time				DateOutForApproval				
Date - Final Erection Drawings Approved for Fab	Date Time				DateFinalForFab				
Date - Fabrication Start	Date Time				DateFabStart				
Date - Fabrication End	Date Time				DateFabEnd				
Date - Fabrication Shipped	Date Time				DateFabShip				
Date - Fabrication Received	Date Time				DateFabReceived				
Date - Erection	Date Time				DateErected				
Date - Inspected	Date Time				DateInspected				
Finish	Character			A,B,C per ACI 117	Specify by face of concrete				

Railroad Bridge Precast

Baseline	Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones			
						Estimating	Estimating	LEED Cert.	LEED Cert
Additional						Est. 1	Bid Pkg.	Check	Submittal
Attribute	Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary				
Member Type	Number			(0) Foundation (1) Beam (2) Column (3) Slab (4) Wall					
Concrete Compression Strength	Number	PSI			Example: 3000 PSI				
Reinforcing Steel Flexure	Number	PSI			Example: 60,000 PSI				
Reinforcing Steel Shear	Number	PSI			Example: 60,000 PSI				
Target LOD	Text			100, 200, 300, 350, 400					
Current LOD	Text			100, 200, 300, 350, 400					
Member Casting Number									
Exterior Exposure	Logical			T/F, 1/0					
Shop Submittal Parameters									
Date - Issued For Construction	Date Time				DateIFC				
Date - Permitted	Date Time				DatePermitted				
Date - received for Shop Detailing	Date Time				DateReceivedForShopDet				
Date - Detailing Submitted for EOR review \ Out For Approval	Date Time				DateOutForApproval				
Date - Final Erection Drawings Approved for Fab	Date Time				DateFinalForFab				
Date - Fabrication Start	Date Time				DateFabStart				
Date - Fabrication End	Date Time				DateFabEnd				
Date - Fabrication Shipped	Date Time				DateFabShip				
Date - Fabrication Received	Date Time				DateFabReceived				
Date - Erection	Date Time				DateErected				
Date - Inspected	Date Time				DateInspected				
Finish	Text			A,B,C per ACI 117	Specify by face of concrete				