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LOD SPECIFICATION

For Building Information Models and Data

April 2026, 3rd Printing



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10th Anniversary

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Sections.

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Structure											
Enclosures											
Interiors											
MEP Systems											
Civil / Site											

Schmantic Design (SD) | Design Development (DD) | Construction Documents (CD) | Trade Coordination (Trade Cord.) | Shop & Fabrication (Shop)

PARTICIPATING ORGANIZATIONS

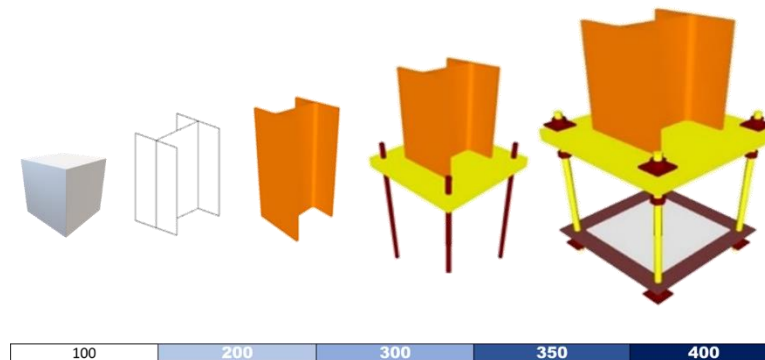


2023

LOD Specification

For Building Information Models

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EXECUTIVE SUMMARY

The ***BIMForum Global 2023 LOD Specification*** (LOD Specification) is a reference tool that aids in improving the quality of communication among Project Owners and their teams using Building Information Models (BIMs) on their projects. It achieves this by clarifying the 5 key characteristics of defining Model Elements (MEs).

The specification is intended to be compatible for teams working with Level of Detail and Level of Development definitions. The confusion of these two terms with the same acronyms should be clarified in each Project BIM Execution Plan. The English version of this document is formed to be compatible with the most common US-based LOD definitions as well as those of other countries. The specification is also formed to allow project teams to adjust their use of the BIMForum Global Specification by stating any amendments to the LOD definitions that teams may have in the BIM section of their Project Execution Plan and General Notes of their Construction Documents that are developed from BIM. This also permits those teams to utilize Level of Detail definitions if that is what is prescribed in their BIM PEP.

BIM presents information developed by an Owner's stakeholder for that Owner's project in the form of three-dimensional graphical MEs (e.g., doors, beams, etc.). The ME can be further associated with information about other characteristics of those elements. It is possible for an ME to appear very precise in a model even though it is not accurate. For example, a specific, highly detailed ME of building system equipment may be placed in the wrong location and thus only be approximate in the ME maturity and reliability for decision making. Successful LOD Schemas will develop a systematic way of conveying the extent of reliance that may be placed on an ME. This specification expands from simple narrative definitions of LOD to provide specific graphic examples of many of the MEs that are found in common projects.

Discussions among many of the section authors and graphics creators of previous national LOD Specifications concurred with Ascend in need to form BIMForum Global (BFG) to gather the input from various BIMForum groups and similarly aligned BIM organization and committees. The mission of BIMForum Global is to create a multi-disciplinary task force that includes input from multiple BIMForums and similar BIM groups to develop and expand the LOD Specification among other projects. This inclusive BIMForum Global approach recognizes and builds on the previous LOD section authors and graphic creators in a historically graphic rich approach to parametric model progression. This input and background distinguish this LOD project from any other. The principal investigators on this LOD specification bring over a decade of knowledge working with the graphics they developed over the various sections of the specification. They, along with BIMForum Global, would like for this work to remain free and available for all to use and download to allow for continual development and expanded use of the LOD Specification. The LOD Specification is an organized collection of detailed illustrative examples of the application of LOD definitions. This is achieved by providing graphical examples of the different ME levels of maturity in a broad variety of building element classes.



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LOD Specification Is a Dictionary, Not ‘The Story’

BIMForum Global *LOD Specification* does not prescribe the necessary levels of model element definition for all the different steps in design, estimating, scheduling, fabrication, manufacturing, construction and/or operation processes, i.e. “The Story” of a given project. This level of model progression granularity is left to the Project Owner’s teams of what ME are at a given LOD at a given phase. However, this LOD specification does provide a more precise framework of LOD definitions for a given Element object, i.e. The LOD Specification are the ‘dictionary’ for a team to write their ‘story’.

The analogy in this case is that the LOD Specification is a dictionary that defines Model Element’s LODs. The BIM section of the given Project Execution Plan is where the project authors use those LOD definitions to write their own BIM process (stories) for their project. Just as a dictionary does not tell you how to write your story, neither does the LOD Specification tell you how to write your BIM process in your BIM PEP. However, also just as dictionaries are invaluable tools in defining common terms for more precise writing, so is the BIMForum Global LOD Specification a tool in defining common Model Element terms to write more precise BIM PEP and BIM contractual scopes.

This LOD Specification will reduce the risks of miscommunication among the Project Owner’s stakeholder teams as it relates to model handoffs between team members. These model handoffs between teams should be clearly defined in the BIM section of the Project Execution Plan (PEP). The BIM PEP is where expectations for different stages in the design and construction process are established. ***This LOD Specification aids the Project Owner’s team by clearly identifying the level of Model Element (ME) maturity that is expected to be delivered*** and provides greater predictability of the level of effort that is required to create each member’s deliverables. ***The LOD Specification does not define who the Model Element Author (MEA) is.*** This is to be defined in the Project Owner’s contracts among their teams and the BIM PEP attached to those contracts.

The LOD Specification is organized by logical sections that align with the way it is used in practice. The Principal Investigators (PI) and BIMForum Global taskforce spent active time interviewing users of previous LOD Specifications. There was some critique on the use of Unifomat for organization while most acknowledged the need to have the cross references. Additionally, some users commented on the way some MEs spanned 2 to 3 pages and they would rather have a single element per page for referencing and attaching exhibits to their scopes of work. For example, when users are addressing LOD of a masonry wall, they want to have a single page that they could show to address the complete topic of the element with a Project Owner and their team. The result from listening to end users of the LOD Specification is that the BIMForum Global 2022 version of the LOD Specification pioneered a completely new and fresh approach to the LOD specification. Continuing this format, the new 2023 LOD Specification does still cross reference the following:

1. CSI Unifomat 2010.
2. Omniclass, with the subclasses expanded to Level 4 (and in a few cases to Level 5) to provide detail and clarity to the element definitions.
3. Uniclass 2015 indices per a UK initiative that is gaining international acceptance.
4. CSI MasterFormat references.

It is noted that a model in practice seldom ever has all Model Elements (MEs) at the same LOD. As such, LOD definitions should refer to the ME and not the overall BIM.



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Also, because LOD 500 in many definition sets typically refers to As-Built conditions without any additional geometric change of the elements, this LOD Specification does not show any additional graphics beyond LOD 400.

All Project Owner's teams members, which include, but are not limited to, designers, manufactures, fabricators, builders, and facility operators, should become very familiar with the LOD definitions that control their projects. They should also pay close attention to how these LOD definitions are used to define their scope, schedule, fee, and contractual risk if they fail to meet their BIM responsibilities.



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ACKNOWLEDGEMENTS

Mr. David Merrifield and Dr. Will Ikerd are the two Principal Investigators of this specification and have worked in LOD research and application of LOD definitions since 2008 and authored sections of national LOD Specifications since 2013. They developed the proposal for the LOD 350 definition that they presented to the Associated General Contractors (AGC) BIMForum in 2012 and that was later ratified in the first national 2013 LOD Specification. Additionally, Dr. Ikerd attended meetings with one of the United States leading institutes for architects, assisting with their contract documents committees work on their LOD definitions. In 2022, Dr. Ikerd presented justification for including the LOD 350 definition in their national LOD definitions which previously had not been included since their original 2008 and 2013 LOD Definitions. Following these meetings, this leading US architectural organization adopted LOD 350 in their national LOD definitions for its contract language. It is with this background that Mr. Merrifield and Dr. Ikerd have the honor of leading the team developing the 2023 version of the BIMForum Global LOD Specification.

Background on BIMForum Global's New LOD Specification

Ascend Building Knowledge Foundation (Ascend) was formed in 2017 and was recognized as a 501c3 non-profit organization the following year. The Associated General Contractors of America (AGC) published some of the earlier United States (US) based BIMForum LOD Specifications (AGC BIMForum) that the principal investigators of this document had collaborated with and chaired sections of its LOD specification from 2012 till AGC ended financial support and divested AGC from the original AGC BIMForum in 2019. In the fall of that same year, Ascend assisted with the formation of a newly incorporated Philadelphia, PA based BIMForum (BIMForum- Philadelphia) by providing graphics support and staffing of booths at conferences such as the Design Build Institute of America (DBIA) conferences in 2019 and online events following the Covid-19 pandemic. Ascend also assisted in some of the graphics in the BIMForum-Philadelphia LOD Specifications of 2020 and 2021. During this time frame, Ascend and its board members assisted other BIMForums and similarly aligned BIM groups in Latin America in Spanish as well.

Furthermore, in 2022, the American Concrete Institute (ACI) published a ACI PRC-131.3-22, TechNote ***"BIM Level of Development for CIP Concrete—TechNote"*** (ACI BIM LOD 22). This document referenced the US Architectural LOD 2013 definitions, while also including LOD 350 from the AGC BIMForum 2013 definitions created by the PIs of this specification. The ACI 2022 LOD definitions also added some new language and interpretation of LOD for concrete that are not fully synchronized with any of the US Architectural, AGC BIMForum or BIMForum-Philadelphia 2020 or 2021 LOD definitions. The new 2022 US Architectural LOD definitions came out within months of the ACI BIM LOD 22 TechNote being published, and while the ACI TechNote LOD Definitions differ, it does have some useful information for teams to consider, particularly the seven sub-categories of concrete discussed in a later section of this introduction.

The board of Ascend recognized from assisting these previous BIMForums, that there was a need for a unified approach to the LOD Specification that also considers and recognized development such as ACI's 2022 LOD Definitions. This approach would also simplify the use of the document. This led to the formation of BIMForum Global whose goal in LOD is to expand the work of the original creators of the various sections of the national 2013 LOD Specification while recognizing industry organization's work such as ACI's 2022 LOD contributions. Additionally, BIMForum Global's goals include engaging all who are willing to participate from other BIMForums in the US and



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globally, as well as other similarly aligned BIM organizations and committees. All contributors who participate in the BIMForum Global LOD Specification with their own content creators and authors will be cited and recognized for their contributions.

The graphics creators and section authors of many of the sections of previous national LOD Specifications from 2013-2021 have granted permission of the work they owned to be used in the development of this new BIMForum Global 2023 version.

Because neither BIMForum-Philadelphia nor AGC provided a platform in 2022 for the contributors, graphic creators and/or authors of the prior LOD Specification sections to publish and recognize their content, BIMForum Global published the Version 2023 with the commenting period extended into 2024. Since the Spring of 2023, Ascend has been gathering content from LOD section authors who are developing and expanding LOD work in areas such as, but not limited to, fundamental geometric elements, civil, site, landscape, roofing, and the documentation of all these systems with reality capture. Content from these and other sections will be gathered for comments during the public review period for consideration of incorporation into the BIMForum Global LOD Specification. These updates have been incorporated in this 2023 LOD Specification.

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BIMForum Global's Ten (Recommended) 'Rules' of LOD

Regardless of the LOD definitions used in a project's BIM section of its Project Execution Plan (PEP), the BIMForum Global (BFG) Principal Investigators (PIs) of this LOD Specification have developed the following ten (recommended) 'rules' that LOD definitions 'should' follow. These are the 'ten commandments' that the PIs use to moderate and consider the discussion of proposed updates among contributors of this LOD Specification.

- 1) **LOD IS NOT FOR A WHOLE MODEL; IT ONLY APPLIES TO ELEMENTS IN A MODEL.**
There is no LOD of a whole model. A model is a collection of Model Elements (MEs) at different LODs in a given phase of the project. The only exception to this rule could be considered with an LOD 100 mass model of a building, for example where distinct MEs for building components can only be referred to by inference. However, even in this example, there will typically be a mass model of the site (Civil), the overall building (architect), and perhaps general structural system (structural) at LOD 100 in a federated model. In such cases, LOD 100 would apply to each of the mass models consisting of a single Model Element (ME).
- 2) **LOD $\neq$ PROJECT PHASE**
LOD does not match any given project phase. There will always be MEs at higher and lower LODs than the majority of MEs at a given project phase. If all elements were ALWAYS at a specific LOD for a given project phase, there would be no reason for the term LOD. The reason LOD exists is because MEs are typically at varying levels for a given phase of the project (see 'BFG RULE #1' above).
- 3) **LOD 000 = NO MODELING IS SCOPED FOR A GIVEN CLASS OF ELEMENT.**
In the BIMForum Global LOD Specification, LOD 000 signifies that there is no Model Element (ME) requirement for the given class of element. It also signifies that there is not any scope for the element to be referenced by inference for the class of element from an overall LOD 100 mass model. *This level is important in contractual scoping of elements that are excluded from the Model Element Authors (MEAs) scope.*
- 4) **LOD 350 is for Detailed Coordination Between Model Element Systems**
After elements are developed to their specific LOD 300 geometry, detailed coordination typically must take place before the elements can be developed to full LOD 400 fabrication level. The principal investigators of this LOD Specification recognized early in the use of some of the 2008 LOD definitions that there was a critical step in the BIM process that warranted an intermediate LOD between 300 and 400. This work is documented in their publications and presentation leading up to their 2012 proposal for the LOD 350 definition to be adopted for the first time in a national LOD specification. The original steel column example is provided in the following section to further explain the role of LOD 350.
- 5) **A HIGHER LOD # IS NOT ALWAYS BETTER**
The best LOD for an object is the LOD that meets the current project requirements and usage. There is no value in modeling elements to a higher LOD if this additional effort does not provide a clearly defined purpose at the given time.



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For example, if a project is conducting typical trade coordination with Cold Formed Metal Framing (CFMF, metal studs) in walls, then LOD 350 Model Elements (MEs) that show the studs, but do not include the screw fasteners, is acceptable. In such a case, it could be considered a waste of time and money to model the system to LOD 400 full fabrication with screws for simply checking coordination around the framing, which was modeled at LOD 350. However, if the CFMF is a part of a 4D sequenced virtual mockup in an isolated area that is being used as part of a Building Enclosure Review Meeting, then LOD 400 may be the appropriate level for the metal studs. In these cases, the sequencing of when screws are being installed in relation to the water proofing membrane, for instance, can be critical. See Figure 1 below.

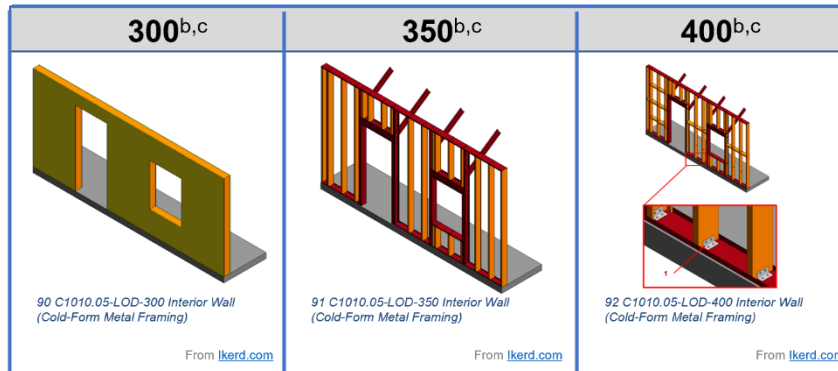


Figure 1: Sample images of Cold Formed Metal Framing (CFMF) from BIMForum Global specification. Note that at LOD 350 only studs are modeled, whereas connection fasteners are included at LOD 400.

6) Model Element (ME) Information Requirements Must be Defined in the BIM PEP

Associated Model Element Information is very specific for the given use case of a given BIM in a given project for a given Project Owner. Non-Graphic Information (NGI) may be associated with a Model Element (ME). If NGI has a different level of reliance than the ME LOD to which it is attached, then the Model Element Author (MEA) shall indicate the difference in the BIM section of the PEP.



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7) ME Must Meet 5 LOD-Distinguishing Geometric Characteristics for a Given LOD:

Model Element Geometry is distinguished by 5 key characteristics, and if one of the 5 is less developed than the minimum requirement of a given LOD, the ME fails to meet that given LOD. For example, if a steel column is modeled 'specific' within the given tolerances for structural steel for size, shape, quantity, orientation, but is merely 'approximate' in its location, then that column does not meet the LOD 300 ('specific') criteria and is therefore considered to be at LOD 200 ('approximate'). For the steel column in this example to meet the requirement of LOD 300, it must be modeled 'specifically' within the project specified tolerances for all 5 LOD Distinguishing Geometric Characteristics:

- 7.1. Quantity**
- 7.2. Size**
- 7.3. Shape**
- 7.4. Location**
- 7.5. Orientation**

8) Tolerances of MEs are Defined by Reference of the Elements Material/Industry Standards

All tolerances in LOD definitions should defer to industry standards that are incorporated by reference in a given projects specifications. The nature of 3D modeling is that all elements are precise even though they may not be accurate. Additionally, most modeling platforms in common use are static state modelers that do not account for real world dynamic conditions such as, but not limited to, deflection, camber, thermal expansion/contraction, thickness of fireproofing, thickness of insulation (in some cases), wind deflection, live loading, long term material creep, and material shrinkage. For example, such effects can be notable when considering the interface of systems such as glass and aluminum curtain wall on high-rise concrete buildings. Project Owners' teams should address such tolerance topics in the BIM section of the PEP.

9) Measurement of ME Accurately Within Tolerance is Only for LOD 300~400.

Because LOD 200 is approximate, only LOD 300 through LOD 400 can be measured directly from the model within the elements project specified tolerances. Unless noted otherwise, the tolerances for a given element are defined by that industries fabrication, manufacturing, erection, and installation tolerances. All such tolerances should be clearly defined by reference in the project specification for each element material and incorporated by reference in the BIM section of the PEP.

10) LOD 500 Model Elements Are Based on LOD 100~400 Geometry

The BIM section of the PEP should define if an LOD 500 element is documented with a reference by inference in LOD 100 overall mass model or defined with LOD 200, 300, 350 or 400 Geometry. This is why the ability of measuring MEs directly from a model at LOD 500 will vary depending on the geometric basis of the LOD 500 object.

For example, consider an existing basement wall inside a building that is modeled from as-built reality capture laser scan data on the interior side of the wall without any destructive testing to know the core of the wall or wall thickness. The models may have some historic drawings that indicate the design thickness of the wall, and the Model Element Author (MEA) may use this information to assume an 'approximate' thickness of the wall. As such, a wall's geometry could only be defined as LOD 200 (reference BFG LOD Rule #7). In this case, such a wall would be an LOD 500 wall with geometry to LOD 200, and only the inside face that was laser scanned



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could be measurable directly from the model.

Also, a Model Element at LOD 500 does not have any higher level of geometry than an element at LOD 400. For this reason, the BIMForum Global LOD Specification does not show any additional graphics beyond LOD 400 for a given element.



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LOD 350 Example, The Steel Column 2009-2012

The Principal Investigators (PIs) of this Specification published several articles and national conference presentations on the topic of model progression where they defined the LOD 350 definition from 2009 through 2012. This work led to their submitting this LOD 350 concept in 2012 to the AGC to be adopted in the first US national graphical LOD Specification in 2013. Because the steel examples in the original LOD 350 proposal are some of the most frequently referenced in online searches for LOD graphic examples, they are provided for context and background to the formation of the LOD 350 definition. It is noted that this steel column graphic developed by the PIs of this LOD is the same column found in almost all US national graphical LOD Specification to date since 2013 that include LOD 350 as well as some LOD Specification used in other countries.

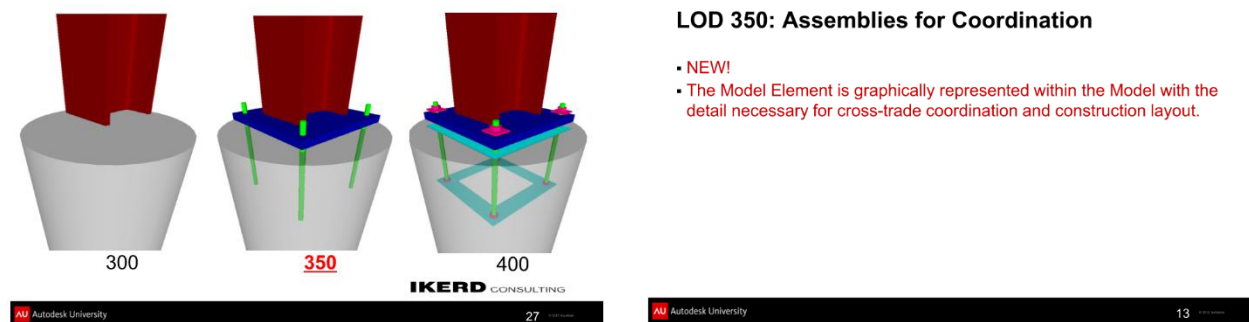


Figure 2: Published 2012 slides from national conference. This image was used to illustrate the author's concept of LOD 350 that was later presented to the AGC for adoption in the first US national graphical LOD specification.

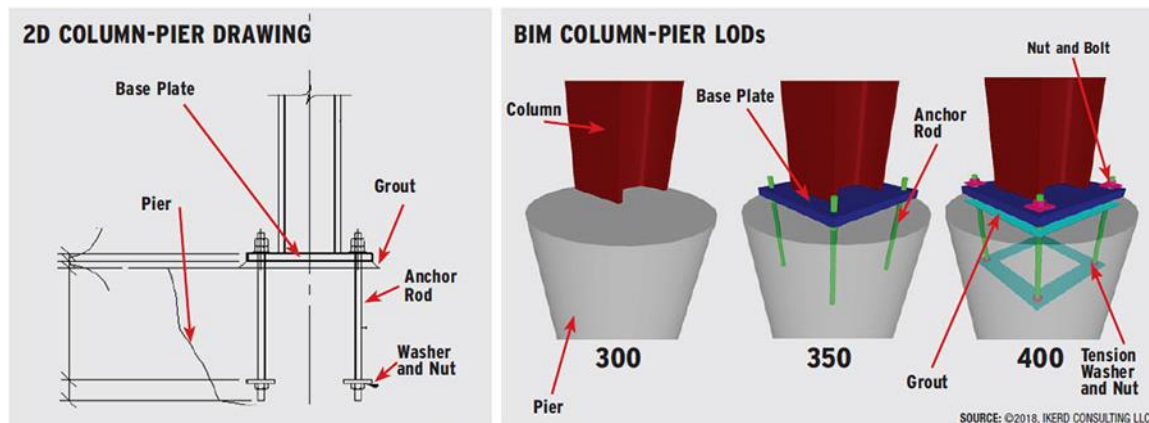


Figure 3: Image shown in ENR, Post, N, April 25, 2018 "At Structural Congress, a Call for Designers to Mitigate BIM-Project Risk." The image was used to delineate the distinction between LOD 300, 350, and 400 of a steel column, relative to the information shown in the example 2D typical detail that would be found in a project's Construction Documents (CD) issued for permit.

The sample LOD definitions shown on the follow pages use The BIMForum Global (BFG) Ten (Recommended) 'Rules' for LOD and The Steel Column example to illustrate the BIMForum Global LOD Definition.



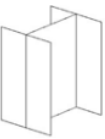
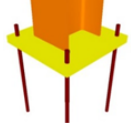
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BIMForum.Global LOD Definitions

The following are applications of the BIMForum Global Ten Fundamental LOD Rules using the original steel column example. Non-Graphical Information is addressed in BFG LOD Rule #6. Each project team should establish the LOD definitions used for a given project in the Contacts and BIM sections of its PEP. In the absence of such a definition, the following LOD definitions shall apply when this Specification is adopted by reference.

LOD	Summary Concept	Element Accurately Measured from Model at given LOD & LOD 500	Sample Definition	Sample Image
000	NO BIM	N/A	No distinct Model Elements (MEs) exist, AND No inference can be made from an overall mass for these elements at this LOD in this system.	
100	CONCEPTUAL / INFERED	NO (No Element Exists at this LOD)	No distinct model elements exist but inference about elements can be made from an overall mass at this LOD. The Model Element (ME) may be inferred or referenced in the model with a symbol or other generic representation, but the ME does not satisfy the requirements for LOD 200.	
200	APPROXIMATE	NO (ME only Approx.)	The Model Element (ME) is modeled approximately in terms of one or more of the following characteristics: quantity, size, shape, location, OR orientation.	
300	SPECIFIC	YES within ME Project / System Tolerances	The Model Element is modeled specifically within the project's tolerances for its system in terms of ALL of the following characteristics: quantity, size, shape, location, AND orientation.	
350	DETAILED COORDINATION	YES within ME Project / System Tolerances	The Model Element (ME) is modeled specifically per LOD 300 AND includes interfacing features with adjacent and/or dependent model elements to facilitate detailed coordination between systems.	
400	FABRICATE	YES within ME Project / System Tolerances	The Model Element (ME) is modeled with details required for fabrication, manufacturing, assembly and installation.	



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LOD 500 Notes

LOD 500 should be thought of as a special condition of LOD's 100, 200, 300, 350 and 400. The AS-BUILT state of LOD 500 for a model element may be based on element geometry and detail any of the LOD's 100 through 400.

LOD	Summary Concept	Element Accurately Measured from Model at given LOD & LOD 500	Sample Definition	Sample Image
500	AS-BUILT	VARIES if geometry is LOD 100-200 vs 300~400	The Model Element (ME) is modeled in its as-built or existing state within the tolerances that are defined for the project. The ability to measure the object depends on which LOD its geometry is based on.	ME Geometry could be that of LOD 100, 200, 300, 350 OR 400

BIMForum.Global Level of Acceptance (LOA), Reality Capture, Addressing Scan-To-BIM & Digital Twins

The purpose of The BIMForum Global Level of Acceptance (LOA) Specification (The Specification) for Reality Capture and Simulation is to provide guidance for owners and their teams wishing to address reality capture of the built environment.

The BIMForum Global Reality Capture and Simulation Taskforce (ReCap/Sim Taskforce) was formed to address the emerging trend in the areas of reality capture and simulation. Reality capture includes laser scanning, among other forms of measurement, for as-built documentation. Common tools and equipment used for reality capture includes, but are not limited to laser scanners, robotic total station, and point layout tools. Additionally, simulation includes but is not limited to virtual reality, augmented reality, and other related forms of simulation. The related simulation of 4D and 5D are addressed by the ReCap/Sim Taskforce in collaboration with the BIMForum's Global Scheduling & Estimating Taskforce (4x5D Taskforce).

The ReCap/Sim Taskforce is dedicated to improving documentation of the built environment, which includes but is not limited to building, GIS, civil infrastructure, equipment, and industrial projects.

To learn more about the BIMForum's Global Reality Capture and Simulation Specification please visit our website at bimforum.global/reality/ or contact the Director of Research & Education at info@BIMForum.global.



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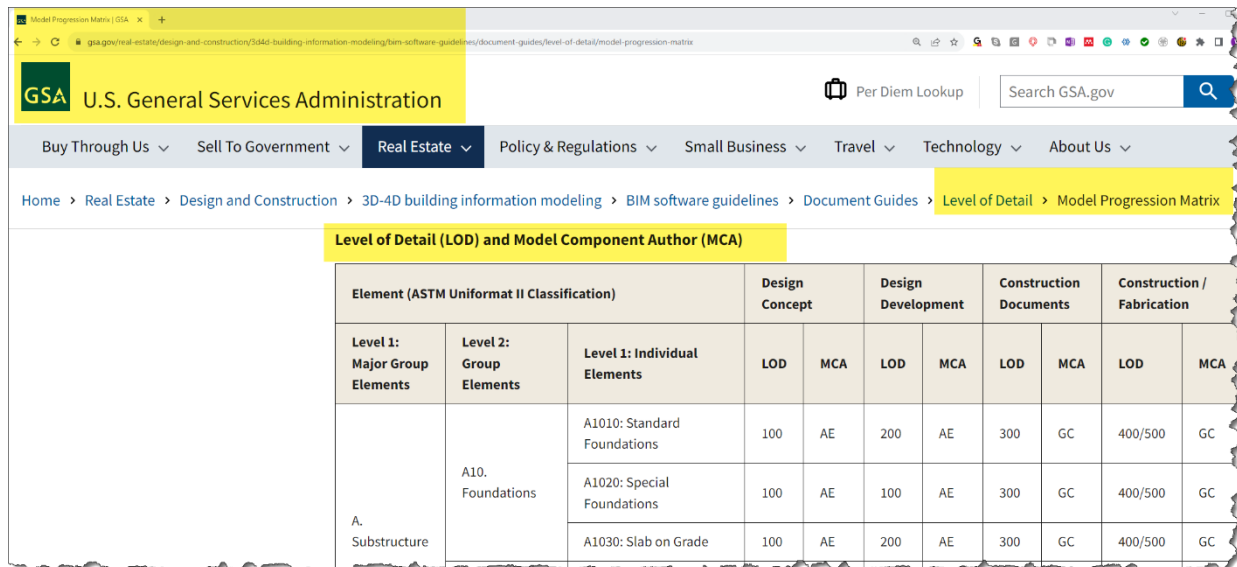
HISTORY OF LOD DEFINITIONS

There are more than one set of LOD definitions used in the industry, which is why it is critical that Project Owners and their teams define the controlling LOD definitions used in their contracts and BIM sections of their Project Execution Plans (PEP). While it is not possible to provide an exhaustive list of all LOD definitions in this introduction, some of the common ones are provided. The framework of this LOD Specification is designed to allow teams to tailor it to their particular Project Owner's needs in the BIM sections of the PEP.

Level of Detail (LOD) per US General Services Administration (GSA)

The US GSA uses the following definitions:

1. LOD: Level of Detail. These definitions use the LOD 100, 200, 300, 350, 400, 500 framework that this LOD Specification supports.
2. MPM: Model Progression Matrix &
MCA: Model Component Author (See Figure 4 below).
Note that some LOD frameworks may refer to MPM as a Model Element Table (MET), and may refer to MCA as Model Element Authors (MEA). This LOD Specification will use MET and MEA in most cases. It is left to the Project Owners teams to author their BIM sections of their projects PEP to properly clarify which terms they are using.
3. AUM: Approved Use Matrix. (Note this may be defined as the Model Use sections of some contracts and BIM sections of PEP.



Level of Detail (LOD) and Model Component Author (MCA)										
Element (ASTM Uniformat II Classification)			Design Concept		Design Development		Construction Documents		Construction / Fabrication	
Level 1: Major Group Elements	Level 2: Group Elements	Level 1: Individual Elements	LOD	MCA	LOD	MCA	LOD	MCA	LOD	MCA
A. Substructure	A10. Foundations	A1010: Standard Foundations	100	AE	200	AE	300	GC	400/500	GC
		A1020: Special Foundations	100	AE	100	AE	300	GC	400/500	GC
		A1030: Slab on Grade	100	AE	200	AE	300	GC	400/500	GC

Figure 4: Image from GSA website showing Level Of Detail (LOD) and Model Component Author (MCA) matrix. Image is from GSA website, <https://www.gsa.gov/real-estate/design-and-construction/3d4d-building-information-modeling/bim-software-guidelines/document-guides/level-of-detail/model-progression-matrix>. Highlights added to note section of website for Level Of Detail.



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Level of Development (LOD), US Architectural Definitions

There are popular Architectural contract definitions in the United States (US) for Level of Development (LOD) from 2008, 2013 and most recently 2022. There are still many projects and Project Owners' requirements that use the previous two sets of LOD definitions. This LOD specification is designed to be compatible with all the LOD definitions with some important caveats that need to be included in each project's BIM section of its PEP. However, it is strongly recommended that all new work moving forward utilizes the most recent LOD definitions and consider the BIMForum Global's Ten (Recommended) 'Rules' of LOD (see section with this title in this introduction).

US Architectural 2008 LOD Definitions (For Historic Context)

The original 2008 architecture LOD definitions that were popular at the time did not have the LOD 350 definition that was presented to the AGC BIMForum in 2012 for inclusion in the AGC BIMForum 2013 LOD specification. Additionally, this set of definitions used the term 'accurate' in the LOD 300 definition. BIMForum Global does not recommend the use of these older 2008 definitions; they are only referenced here for context. However, this LOD Specification can be used with these older 2008 definitions, as long as LOD 350 is recognized and addressed in the BIM section of the PEP.

US Architectural 2013 LOD Definitions, (For Historic Context)

The subsequent 2013 US architectural LOD definitions that replaced the previous 2008 definitions were published around the same timeframe as the formation of the first US based national LOD Specifications. As such, the US architectural LOD 2013 definitions did not have the LOD 350 definition. LOD 350 was presented to the AGC BIMForum in 2012 for inclusion in the first national graphical 2013 LOD Specification. These definitions may be referenced in that document. BIMForum Global does not recommend the use of these older 2013 definitions; they are only referenced here for context. However, this LOD Specification can be used with these older 2013 definitions, as long as LOD 350 is recognized and addressed in the BIM section of the PEP.

US Architectural 2022 LOD Definitions

The most recent 2022 architectural Level of Development (LOD) definitions now include a LOD 350 definition that is similar to what the PIs of this LOD originally proposed for inclusion in the AGC BIMForum 2013 LOD Specification.

American Concrete Institute (ACI) 2022 LOD Definitions

In 2022, the American Concrete Institute (ACI) published a ACI PRC-131.3-22, TechNote "BIM Level of Development for CIP Concrete—TechNote" (ACI BIM LOD 22). This document referenced the US Architectural LOD 2013 definitions, while also including LOD 350. The ACI 2022 LOD definitions also added some new language and interpretation of LOD for concrete that are not fully synchronized with any of the US Architectural, AGC BIMForum or BIMForum-Phil definitions. The new 2022 US Architectural LOD definitions came out within months of the ACI BIM LOD 22 TechNote being published, and while the ACI TechNote LOD Definitions differ, it does have some useful information for teams to consider, particularly the seven sub-categories of concrete discussed below.



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The ACI BIM LOD 22 TechNote 7 categories of concrete content that provide a framework to organize concrete BIM topic in your contracts, general notes and specifications are: (1) Concrete, (2) Reinforcing bar, (3) Specialty reinforcements, (4) Prestressing, (5) Specialty systems, (6) Embedments, and (7) Formwork. This BIMForum Global Specification supports key elements of the ACI 2022 LOD Definition in the Cast-In-Place section of this LOD Specification.

LOD Definition Summary

Authors of the BIM sections of PEP are encouraged to consider these more recent LOD definitions that include LOD 350 and are in line with the BIMForum Global's Ten (Recommended) 'Rules' of LOD.



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PAST LOD SPECIFICATION VERSIONS – HISTORIC BACKGROUND

The following LOD Specification editions are developed by other separate organizations. Redistribution is provided by BIMForum Global under the Creative Commons License they were developed under that allows redistribution of the material in any medium or format. The original content creators in these documents below retained the copyrights to that content. Several of the content owners have licensed their content to Ascend Building Knowledge Foundation, a 501c3 research and education nonprofit foundation and its subforum BIMForum Global. The new BIMForum Global LOD Specification is a new format with a new structure and has notable new content added in this new version. Any similarities to BIMForum Global's LOD Specifications were not derived from any other organizations but come from the fact that some of the same content owners have licensed their content they own to BIMForum Global for the development of BIMForum Global's new documents. The LOD Documents of other organizations are provided for reference order of their publication starting with the most recent dates originally published with proper citation to their relative organizations.

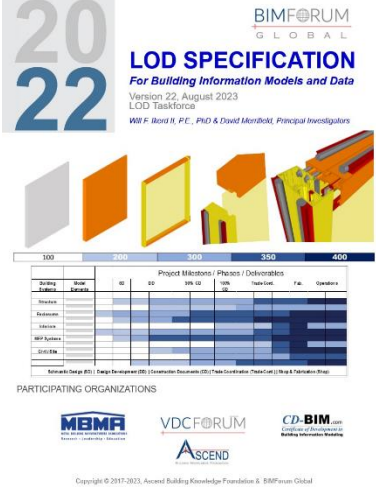


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BIMForum Global / Ascend, Founded 2017
BIMForum.Global

	2022 LOD Specification (BIMForum.Global/LOD) The BIMForum Global 2022 LOD Specification (LOD Specification) is a reference tool that aids in improving the quality of communication among Project Owners and their teams using Building Information Models (BIMs) on their projects. It achieves this by clarifying the 5 key characteristics of defining Model Elements MEs). The specification is intended to be compatible for teams working with Level of Detail and Level of Development definitions. The confusion of these two terms with the same acronyms should be clarified in each Project BIM Execution Plan (PEP). The English version of this document is formed to be compatible with the most common US-based LOD definitions as well as those of other countries. The specification is also formed to allow project teams to adjust their use of the BIMForum Global Specification by stating any amendments to the LOD definitions that teams may have in the BIM section of their Project Execution Plan. This also permits those teams to utilize Level of Detail definitions if that is what is prescribed in their BIM PEP.
	2022 Especificación LOD [Español/Spanish] (BIMForum.Global/LOD) La Especificación LOD del BIMForum Global 2022 (Especificación LOD) es una herramienta de referencia que ayuda a mejorar la calidad de la comunicación entre los Propietarios de Proyectos y sus equipos que utilizan Modelos de Información de Construcción (BIM) en sus proyectos. Lo consigue aclarando las 5 características clave de la definición de los Elementos del Modelo MEs). La especificación pretende ser compatible para los equipos que trabajan con definiciones de Nivel de Detalle y Nivel de Desarrollo. La confusión de estos dos términos con las mismas siglas debe aclararse en cada Plan de Ejecución BIM del Proyecto (PEP). La versión inglesa de este documento se ha elaborado para que sea compatible con las definiciones de LOD más comunes en EE.UU. y en otros países. La especificación también está pensada para permitir a los equipos de proyecto ajustar su uso de la Especificación Global BIMForum indicando cualquier enmienda a las definiciones de LOD que los equipos puedan tener en la sección BIM de su Plan de Ejecución del Proyecto. Esto también permite a esos equipos utilizar definiciones de Nivel de Detalle si eso es lo que se prescribe en su PEP BIM.

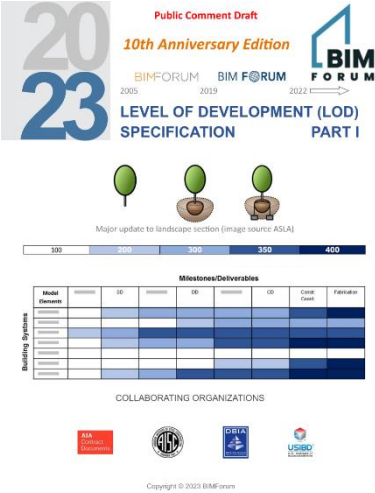
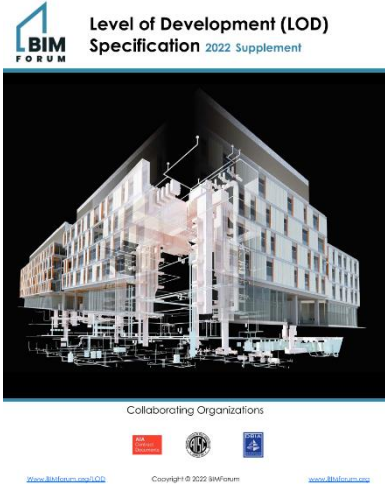


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BIMForum, Pennsylvania founded in 2019
2105 Parkview Drive, Haverford, Pennsylvania, 1904-2004 (Pennsylvania-BIMForum)

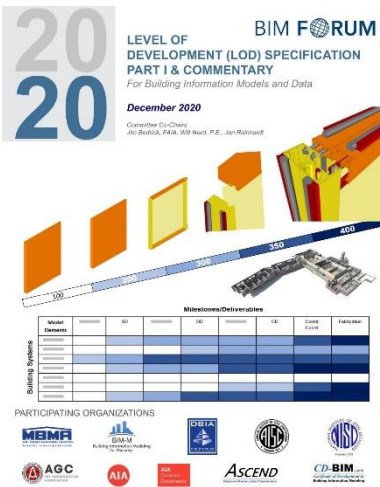
	2023 LOD Specification, Public Draft Comment (Pennsylvania-BIMForum) Published December 2023, by Pennsylvania-BIMForum. New Graphics were developed that are different from the copyrighted original LOD graphics that only BIMForum.Global is licensed to use. This publication added some landscape sections that are similar to the land scape content that was originally developed in the BIMForum Global 2022 LOD Specification.
	2022 LOD Specification (Pennsylvania-BIMForum) Published December 2022, by Pennsylvania-BIMForum. No graphics were provided in this supplement.



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	2021 LOD Specification (Pennsylvania-BIMForum) Published December 28, 2021, by Pennsylvania-BIMForum. Pennsylvania-BIMForum LOD-21 final 2021-12-28-1.pdf (Part 1 only) Notes: Ascend Building Knowledge Foundation owned some content in this publication which was developed in early 2017 and whose logo appears on the cover of the document. Other contributors also own content that appears throughout the document. The first paragraph of page 4 of this specification by the Pennsylvania-BIMForum clearly states the ownership of intellectual property and references Ascend Building Knowledge Foundation as well as other content creators who have since licensed their content to BIMForum Global for its use in developing new documents. From a text search of the Pennsylvania-BIMForum 2021 LOD specification, there are approximately 296 graphics in this 2021 LOD Specification, and approximately 270 of them are not owned by the Pennsylvania-BIMForum per their own publication (first paragraph on page 4 of this 2021 spec.). Ascend and BIMForum Global has obtained permission from the content owners to use this content in BIMForum Global future documents. No other groups have written permission currently from Ascend or BIMForum Global to use content from Ascend in future editions of their documents.
	2020 LOD Specification (Pennsylvania-BIMForum) Published December 31, 2020 (2020 LOD Spec.), by Pennsylvania-BIMForum. Pennsylvania-BIMForum LOD-20 final 2020-12-31-1.pdf (Part 1 only) Notes: Ascend Building Knowledge Foundation (Ascend) owned some content in this publication and its logo is shown on the cover of the document. Other contributors also owned their respective content that is sited throughout the document (2020 LOD Spec.) who have since licensed this content to BIMForum Global for future documents. No other groups have written permission currently from Ascend or BIMForum Global to use content from Ascend I future editions.



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**AGC BIMForum, (AGC-BIMForum) formed around 2005-2006 to 2019
Associated General Contractors of America (AGC)**



2019 LOD Specification (AGC-BIMForum)

Published April 2019, by AGC-BIMForum.

[AGC-BIMForum LOD-19 final 2019-4.pdf \(Part 1 only\)](#)



2018 LOD Specification (AGC-BIMForum)

Published September 2018 (2018 LOD Spec.), by AGC-BIMForum.

[AGC-BIMForum LOD-21 final 2017-12.pdf \(Part 1 only\)](#)



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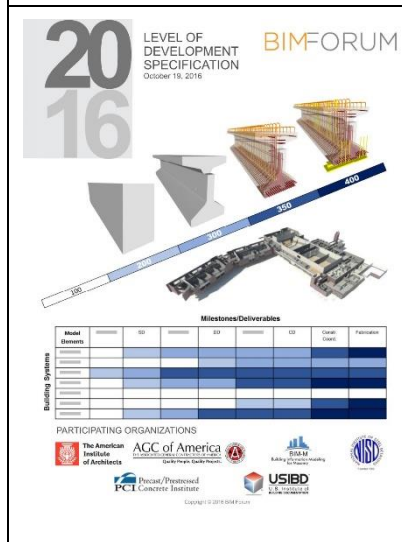
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2017 LOD Specification (AGC-BIMForum)

Published November 2017 (2017 LOD Spec.), by AGC-BIMForum.

[AGC-BIMForum LOD-17 final 2017-11.pdf \(Part 1 only\)](#)



2016 LOD Specification (AGC-BIMForum)

Published October 2016 (2016 LOD Spec.), by AGC-BIMForum.

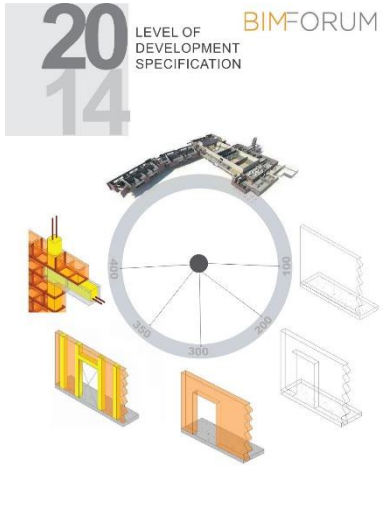
[AGC-BIMForum LOD-16 final 2016-10.pdf \(Part 1 only\)](#)



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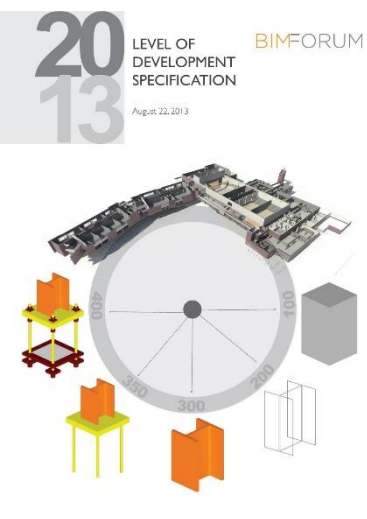
	<u>2015 LOD Specification (AGC-BIMForum)</u> Published October 2015 (2015 LOD Spec), by AGC-BIMForum. <u>AGC-BIMForum LOD-15 final 2015-10.pdf (Part 1 only)</u>
	<u>2014 LOD Specification (AGC-BIMForum)</u> Published December 2014 (2014 LOD Spec), by AGC-BIMForum. <u>AGC-BIMForum LOD-14 final 2014-12.pdf</u>



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	<u>2013 LOD Specification</u> Published August 2013 (2013 LOD Spec), by AGC-BIMForum. <u>AGC-BIMForum LOD-13 final 2013-10.pdf</u>
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CHANGES FROM OTHER LOD VERSION PRIOR TO THE BIMFORUM GLOBAL 2022 VERSION.

There have been many LOD Specifications in prior years since 2008 for both Level of Detail and Level of Development. This BIMForum Global Specification provides a new framework from prior LOD Specification. This new approach typically has a single sheet for each Model Element organized in clear sections aligned with a give system, such as structural steel for example (see Figure 5 and Figure 6 below) Additionally, this is the first graphical LOD specification of its kind that is produced in multiple languages with input from international BIMForums outside the US and other similarly aligned BIM groups.

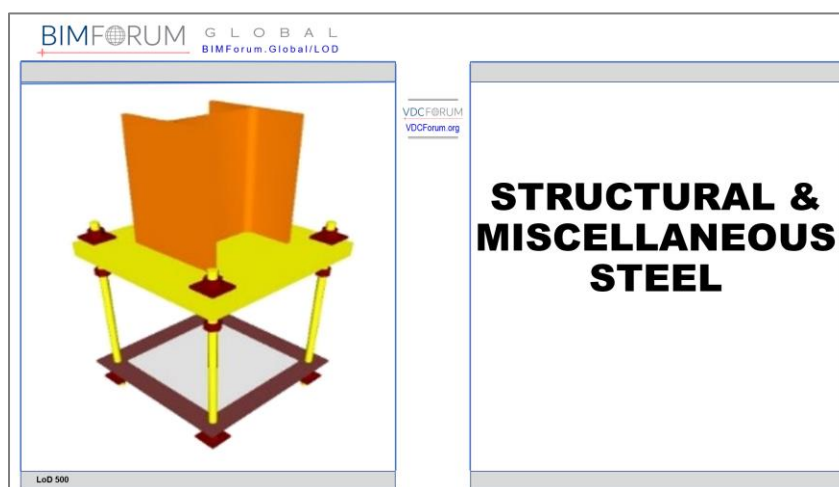


Figure 5: BIMForum Global LOD Specification's new approach for Model Elements to be organized in clear sections aligned with a give system, such as structural steel in the section heading above.



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Floor Structural Frame (Steel Framing Column)				Uniformat: #1010.10.30	Omniclass: 21-02 10 10 10 30	Uniclass
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}	300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
						
	NO DISTANCE MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM	NO DISTANCE MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM	20101010 10-1-100-200 Floor Structural Frame (Steel Framing Column) From: BIMForum	20101010 10-1-300-300 Floor Structural Frame (Steel Framing Column) From: BIMForum	20101010 10-1-350-350 Floor Structural Frame (Steel Framing Column) From: BIMForum	20101010 10-1-400-400 Floor Structural Frame (Steel Framing Column) From: BIMForum
Description	1. Generic column element. See 010		See 01010	1. Element modeling to include: 2. Specific sizes of main vertical structural members modeled per defined structural grid with correct location and orientation	1. Element modeling to include: 2. Actual elevations and location of member connections 3. Main elements of typical connections applied to all structural steel connections such as base plates, gusset plates, anchor rods, etc. 4. Any miscellaneous steel members with correct size, shape, orientation, and material 5. Any steel structure reinforcement such as web stiffeners, sleeve penetrations, etc.	1. Element modeling to include: 2. Welds 3. Clamping of members 4. Cap plates 5. Washers, nuts, etc. 6. All assembly elements
Associated Masterformat Sections: 05 10 10						
LoD 500						

Figure 6: BIMForum Global LOD Specification's new approach for Model Elements to be defined on a Single Sheet Per Element Format.

Revision Process

Public Comment

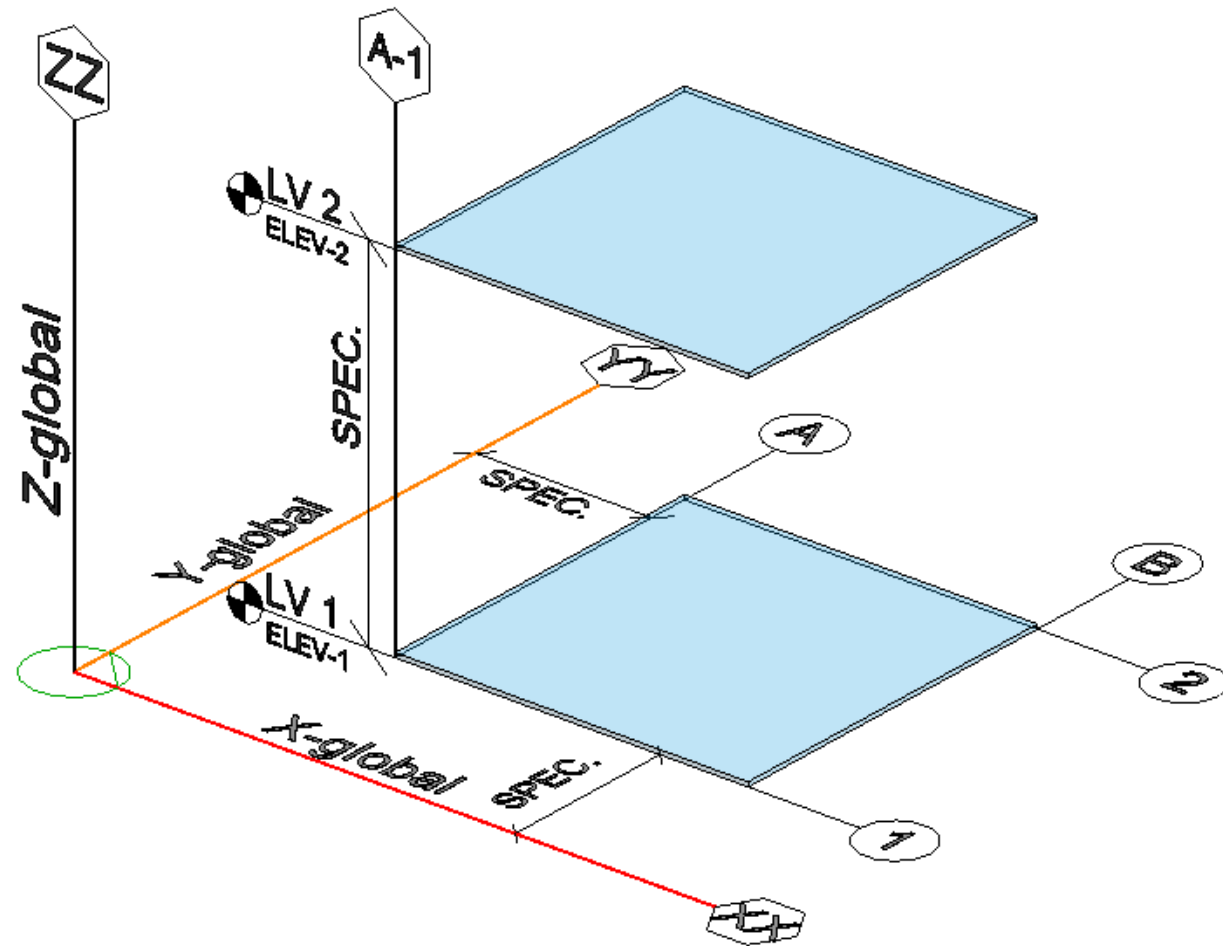
Each new LOD Specifications version is typically first released as a draft for contributor comment. Public comments are also collected from the links at the bottom of the pages of the specification. Feedback is evaluated prior to the publishing of the official version.



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LoD 500

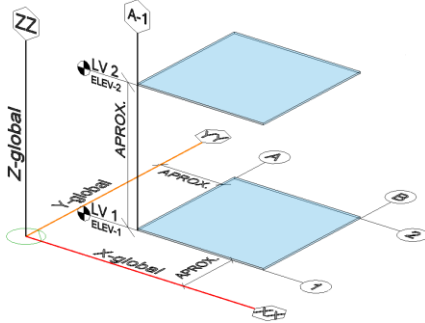
GENERAL & GENERIC ELEMENTS

LoA

LoD 500



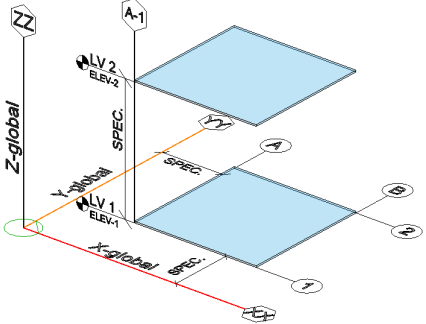
Grides & Level Model Elements
(Special Class of Lines & Planes)

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 LOD 200 Grids & Elevation From AscendBKF.org
Description			Grids & Elevations Equipment, Building, Campus, Civil, and GIS is approximate in its relation to the content in the given model.
Associated Masterformat Sections:			

VDCFORUM

VDCForum.org

- Notes:
- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
- b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
- c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 LOD 300 Grids & Elevation From AscendBKF.org	THIS CATEGORY OF OBJECT IS NOT DEFINED FOR THIS LOD	THIS CATEGORY OF OBJECT IS NOT DEFINED FOR THIS LOD
Grids & Elevations Equipment, Building, Campus, Civil, and GIS is specific in its relation to the content in the given model.		

LoD 500

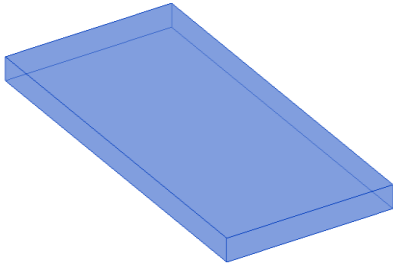
LoA



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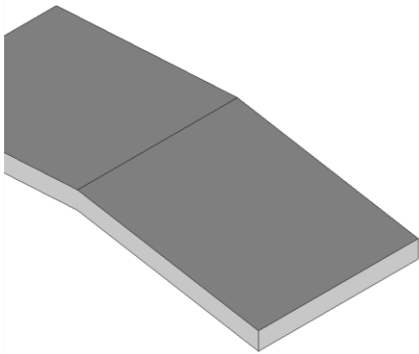
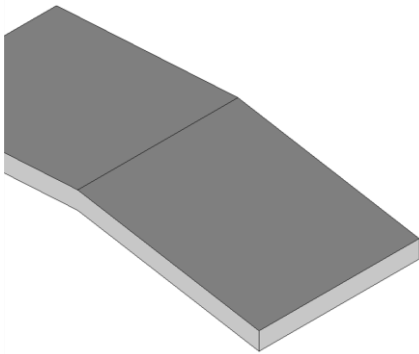
LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See fundamental definitions		Generic model element Nominal overall unit scope shall include: - Nominal plan dimensions (length, width) - Nominal vertical dimensions (levels, landings)
Associated Masterformat Sections:			
LoD 500			

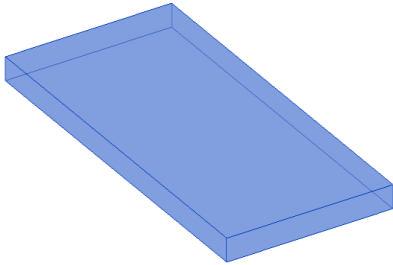
VDCFORUM

VDCForum.org

Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		See Element Sections For Fabrication Level Information
Major ramp support elements are modeled to disability access standards. Element is accurate as to: - Width - Grade - Landing geometry	Secondary ramp support elements are modeled (hangers, brackets, handrail, tactiles location, connection points etc.).	All ramp elements are modeled to support fabrication and installation.



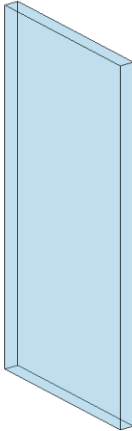
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	N/A		Generic roof objects separated by type of material. Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
Associated Masterformat Sections:			
03 30 00 / 03 40 00 / 03 50 00 / 03 52 00 / 05 30 00 / 05 34 00 / 05 35 00 / 06 12 00 / 06 15 00 / 06 16 00 / 06 18 00 / 06 53 00 / 06 73 00			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Penetrations are modeled to nominal dimensions for major roof openings such as skylights and large mechanical elements.	All penetrations are modeled at actual rough-opening dimensions. Framing members at openings are modeled.	Element modeling to include: 1. Studs and tracks 2. Individual masonry units 3. Reinforcing 4. Sheathing 5. Insulation

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta).
Associated Masterformat Sections:			Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
LoD 500			



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

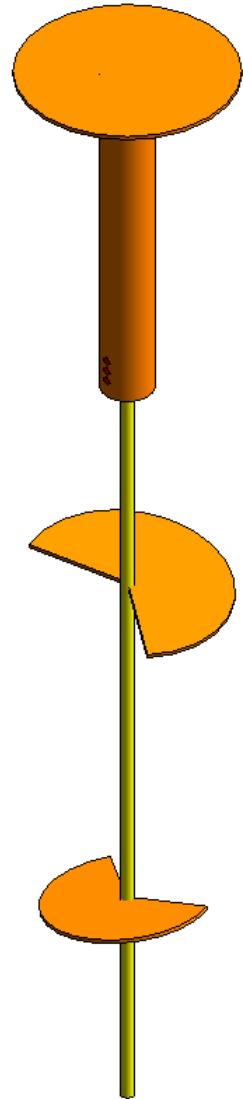
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Specific wall modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements.	Exterior wall construction modeled as a separate element. All penetrations are modeled at actual rough-opening dimensions. Headers and jamb framing are modeled.	Element modeling to include: 1. Studs and tracks 2. Individual masonry units 3. Reinforcing 4. Sheathing 5. Insulation

LoA



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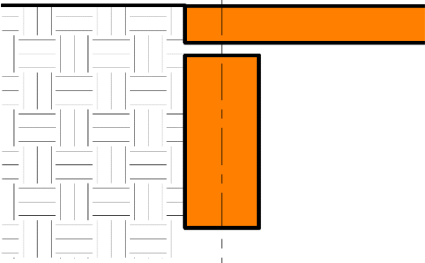


LoD 500

FOUNDATION, SPECIALTY (Other than CIP Concrete)

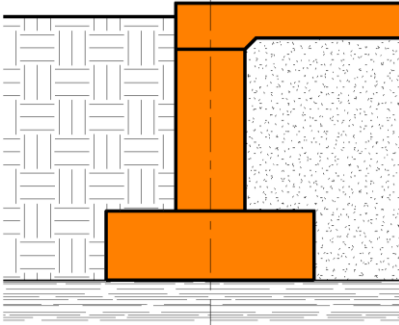


LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	See A10		See A10
Associated Masterformat Sections:			
01 82 13			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 1 A1010.10-LOD-300 Wall Foundation From lkerd.com	See Element Sections For Additional Information	
Elements are modeled to the design-specified size and shape of the foundation. Element modeling to include: - Overall size and geometry of the foundation element - Sloping surfaces or floor depressions - External dimensions of the members - Main openings such as elevators and other shafts		

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From AscendBKF.org
Description	See A10		See A10
Associated Masterformat Sections:			
31 60 00			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
See A1010 Elevator pit slabs are sloped correctly Sump pits are shown at correct locations and geometries	Element modeling to include: 1. Location and size of sleeve penetrations and MEP openings 2. Chamfer 3. Pour joints 4. Dowels 5. All elements needed for cross-trade collaboration are to be modeled 6. Actual location and shape of structural element 7. Exposed embeds or reinforcement such as lintels 8. Penetrations detailed and modeled 9. Expansion joints	Element modeling to include: 1. Rebar detailing including hooks and lap splices 2. Dowels 3. Moisture retarder 4. Coursing for unit masonry defined 5. Waterproofing

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 <i>A1020.10.10 LOD 200 Helical Pier</i> From AscendBKF.org
Description	See A10		See A10
Associated Masterformat Sections:			
N/A			
LoD 500			

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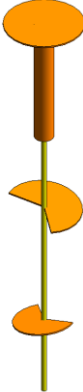
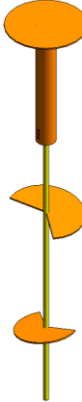
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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

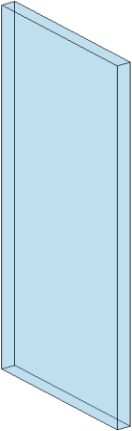
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 <i>A1020.10.10 LOD 300 Helical Pier</i> From AscendBKF.org	 <i>A1020.10.10 LOD 350 Helical Pier</i>	 <i>A1020.10.10 LOD 400 Helical Pier</i> From AscendBKF.org
Element modeling to include: 1. Pile system type 2. Pile material 3. Coating 4. Influence area modeled or accommodated by model checking software	Element modeling to include: 1. Spacing 2. Plate Size 3. Bearing Strata	Element modeling to include: 1. Full fabrication connections

LoA

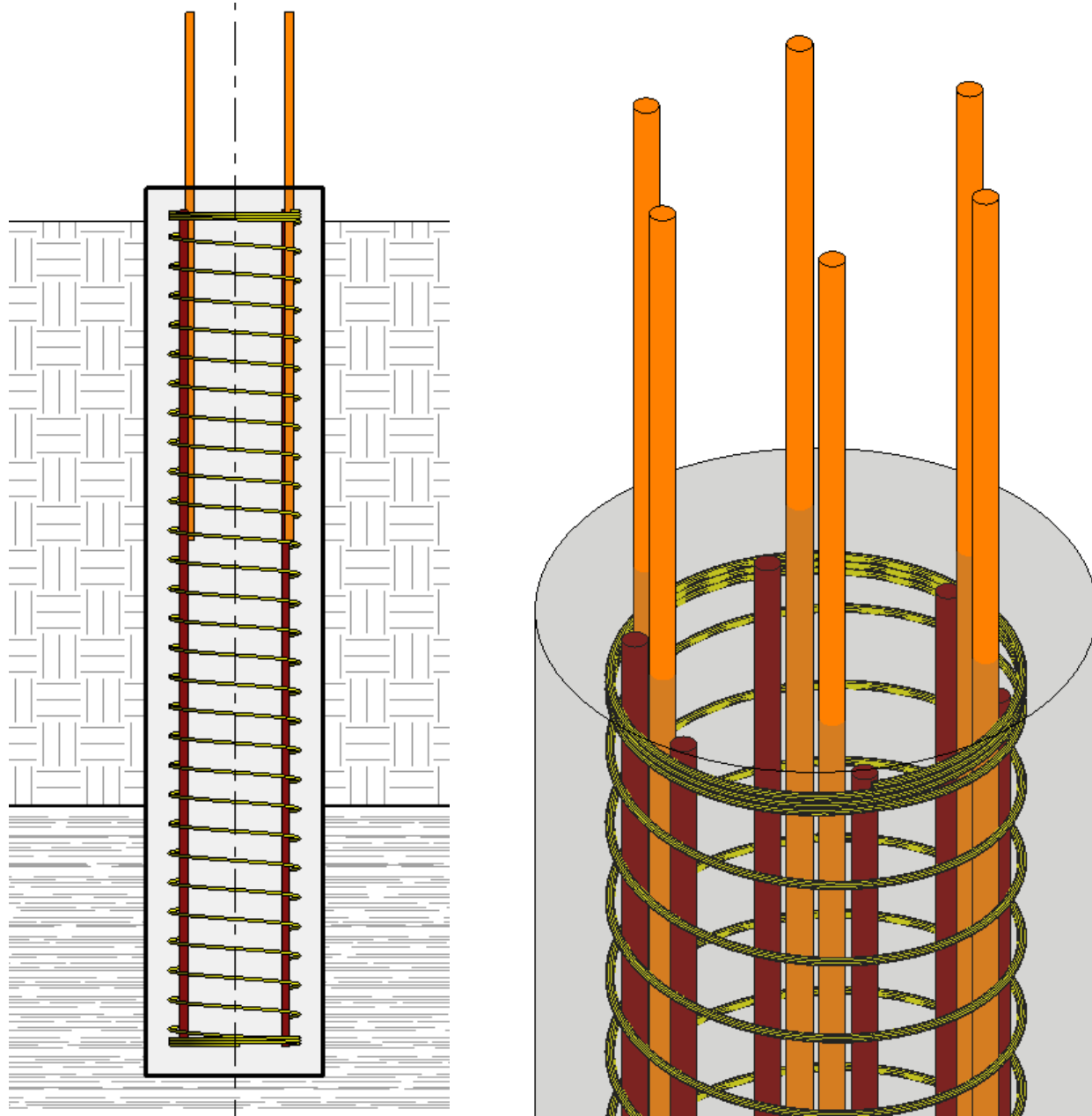
Page 43

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See A20		See A20
Associated Masterformat Sections:			
01 82 16			
LoD 500			

Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Element modeling to include: 1. Overall size and geometry of the subgrade element 2. Sloping surfaces 3. External dimensions of the element 4. Major openings such as large mechanical elements modeled to nominal dimensions.	Element modeling to include: 1. Chamfers 2. All penetrations modeled to rough opening dimensions. 3. Pour joints 4. Rebar and any embedded elements modeled at congested areas where specified by project BXP which is typically with in a set distance from the area of congestion. 5. Any permanent shoring or forming structures such as void boxes 6. Insulation 7. Expansion joints 8. Moisture retarder 9. Exposed embeds or reinforcement such as lintels 10. Penetrations detailed and modeled 11. Expansion joints	Element modeling to include: 1. Rebar including hooks and lap splices 2. Dowels 3. Coursing for unit masonry defined 4. Waterproofing





CONCRETE, CAST IN PLACE

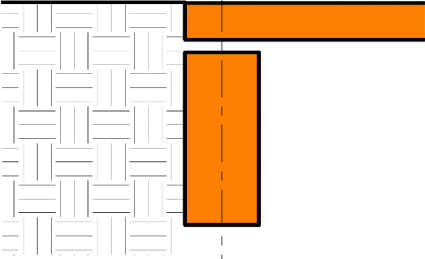
LoD 500



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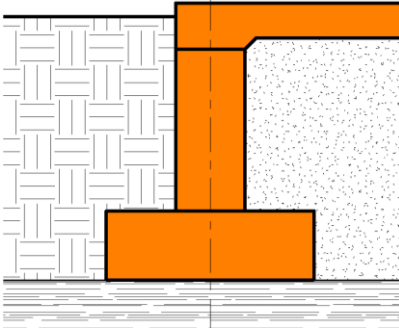
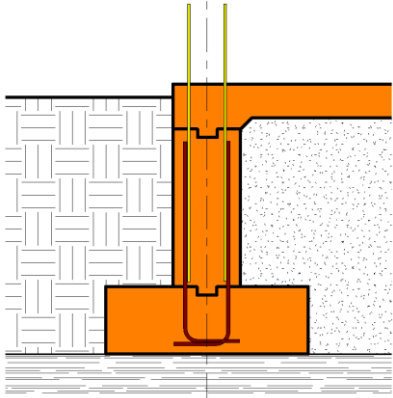
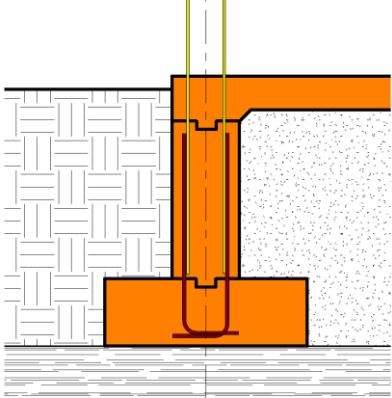


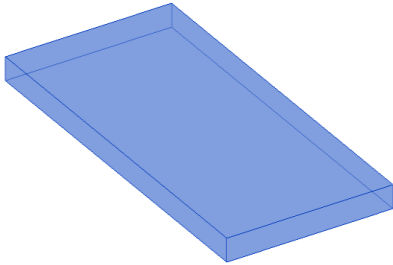
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	See A10		See A10
Associated Masterformat Sections:			
03 30 00 / 03 40 00 / 04 20 00 / 06 14 00			
LoD 500			

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 1 A1010.10-LOD-300 Wall Foundation From lkerd.com	 2 A1010.10-LOD-350 Wall Foundations (Shallow Foundations) From lkerd.com	 2 A1010.10-LOD-350 Wall Foundations (Shallow Foundations) From lkerd.com
Element modeling to include: - Overall size and geometry of the foundation element - Sloping surfaces. - External dimensions of the members - Geotechnical bearing strata elevation is modeled from geotechnical report. - Area of bearing influence – modeled or accommodated by model checking software Image Notes: - Wall foundation sizes are accurately modeled with footings where applicable. - Bearing elevation is modeled from the geotechnical report. - Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD. - See slab on grade for related conditions at this LOD.	Element modeling to include: Location of sleeve penetrations, Pour joints, Chamfer, Moisture retarder, Dowels - All exposed embeds or reinforcement such as lintels - Expansion joints - Geotechnical Bearing Strata is modeled from geotechnical report estimates. Image Notes: - Grade beam sizes are modeled with interfaces to other systems such as but not limited to slab turn downs, key-ways between concrete pours, construction joints and reinforcing dowels into adjacent pours. - Bearing elevation is modeled from the geotechnical report with the addition on interface elements such as void boxes where applicable. - Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD. - See slab on grade for related conditions at this LOD.	Element modeling to include: - Rebar including hooks and lap splices - Dowels - Coursing for unit masonry defined - Waterproofing

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B10		Element modeling to include: - Type of structural concrete system - Approximate geometry (e.g. depth) of structural elements
Associated Masterformat Sections:			

03 30 00 / 03 40 00

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Element modeling to include: - Composite model assembly by type with overall thickness of structural frame - Specific sizes and locations of main concrete structural members modeled per defined structural grid with correct orientation - Concrete defined per spec (strength, air entrainment, aggregate size, etc.) - All sloping surfaces included in model element with exception of elements affected by manufacturer selection	Element modeling to include: - Reinforcing Post-tension profiles and strand locations - Reinforcement called out, modeled if required by the BXP, typically only in congested areas - Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. - Expansion Joints - Embeds and anchor rods - Post-tension profile and strands modeled if required by the BXP - Penetrations for items such as MEP - Any permanent forming or shoring components - Shear reinforcing and stud rails - Critical structural zones for coordination, including but not limited to zones that cannot be penetrated, cut, or damaged. - Chamfer	Element modeling to include: All reinforcement including post tension elements detailed and modeled camber, etc.

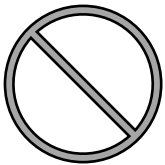
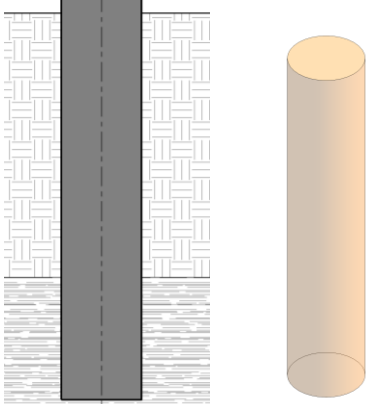
LoD 500

LoA



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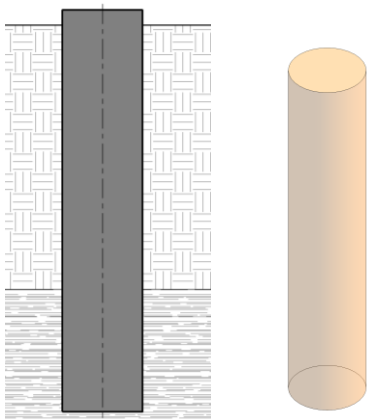
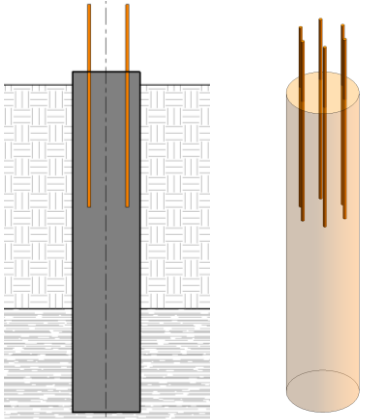
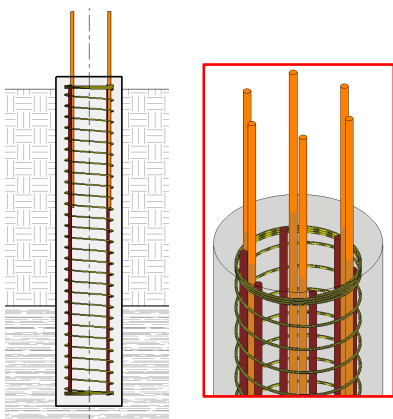


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See A10	See A10	Approximate geometry.
Associated Masterformat Sections:			
03 30 00			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

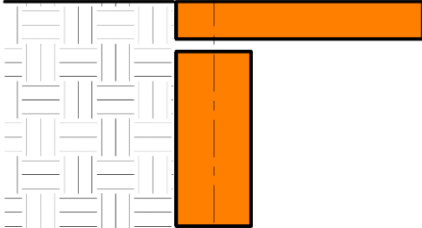
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 3 A1010.30-LOD-300 Column Foundations (Deep Foundations) From lkerd.com	 4 A1010.30-LOD-350 Column Foundations From lkerd.com	 5 A1010.30-LOD-400 Column Foundation From lkerd.com
Element modeling to include: 1. Assumed bearing depth per geotechnical report with designed penetration geometry modeled. 2. Top of Pier 3. Size of Pier 4. Area of bearing influence - modeled or accommodated by model checking software Image Notes: 1. Pier sizes are accurately modeled with top of pier elevation, estimated depth to bearing and specified depth of penetration into bearing strata. 2. Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD.	Element modeling to include: 1. Actual Top of Pier (TOP) and expected Bottom of Pier (BOT) modeled per engineer's review of site conditions. 2. Foundation dowel locations and anchor rods if applicable. Image Notes: 1. Pier sizes are accurately modeled with interfaces to other systems such as but not limited to slab turn downs, key-ways between concrete pours, construction joints and reinforcing dowels into adjacent pours. 2. Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD.	Element modeling to include: 1. Depth to bearing stratum 2. Penetration into bearing stratum 3. Locations of lap splices 4. Rebar including hooks and lap splices 5. Dowels 6. Pier sled or Pier wheel for side clear cover 7. Pier bolster for bottom clear cover Image Notes: 1. Pier modeling is developed to include all fabrication content that is part of the element. 2. Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD. 3. Pier sled, pier wheel, pier bolsters and other related items are not shown in image for clarity.

LoA



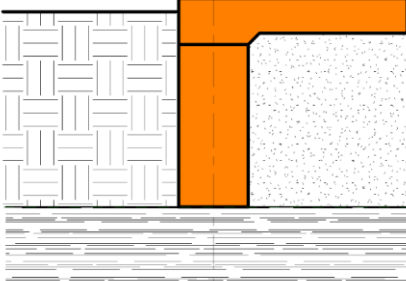
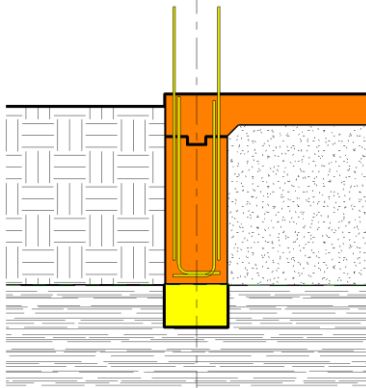
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 6 A1020.80-LOD-200 Grade Beams From lkerd.com
Description	See A10		See A10
Associated Masterformat Sections:			
03 30 00			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 7 A1020.80-LOD-300 Grade Beams From lkerd.com	 8 A1020.80-LOD-350 Grade Beams From lkerd.com	
See A1010	Element modeling to include:	Element modeling to include:
Image Notes:		
1. Grade Beam	1. Water stops	1. Detailed post-tensioned components
2. See slab on grade (A4010, A4020) for related conditions at this LOD.	2. Pour joints and sequences required to identify reinforcing lap spice, scheduling, etc.	2. Rebar including hooks and lap splices
3. Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD.	3. Chamfer	3. Dowels
	Image Notes:	4. Waterproofing
	1. Grade beam sizes are modeled with interfaces to other systems such as but not limited to slab turn downs, key-ways between concrete pours, construction joints and reinforcing dowels into adjacent pours.	
	2. Interface elements such as void boxes or critical bearing zones are modeled where applicable.	
	3. See slab on grade ((A4010, A4020) for related conditions at this LOD.	
	4. Geotechnical regions are shown for context and not required to be modeled as part of this element at this LOD.	

LoA



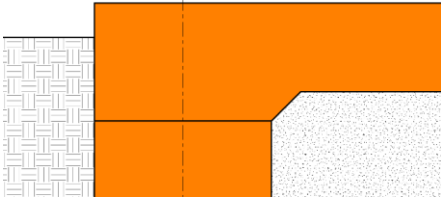
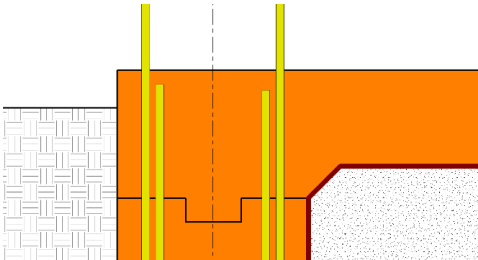
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 9 A40-LOD-200 Slabs-on-Grad From lkerd.com
Description	See A40	Assumptions for slabs are included in other modeled elements such as a volumetric mass or architectural floor element that contains a layer for assumed structural framing depth.	Element modeling to include: - Generic slab with approximate thickness. - Structural building grids for local project coordinate system are defined in model and coordinated with global civil coordinate system (State Plane Coordinate System, etc.)
Associated Masterformat Sections:			
03 30 00			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 10 A4010-LOD-300 Standard Slabs-on-Grad From lkerd.com	 11 A4010-LOD-350 Standard Slabs-on-Grad From lkerd.com	
Element modeling to include: - Overall size, thickness and geometry of the slab - Major openings such as large mechanical elements modeled to nominal dimensions. - Slab depressions - Edge turn downs - Material strength - Surfaces modeled to actual slopes	Element modeling to include: - All penetrations modeled to rough opening dimensions. - Pour joints - Control joints - Expansion joints - Water stops - Rebar and any embedded elements modeled at congested areas where specified by project BIMXP which is typically with in a set distance from the area of congestion. - Void boxes - Anchor rods - Dowels - Post-tension profile and strands if required by the BXP.	Element modeling to include: - Fully modeled rebar - Actual slab dimensions and profiles with fully modeled rebar - Post tensioning components - All joints - Water proofing - Finish

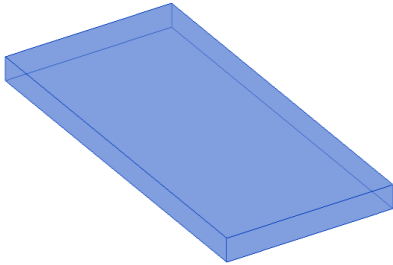
LoD 500

LoA



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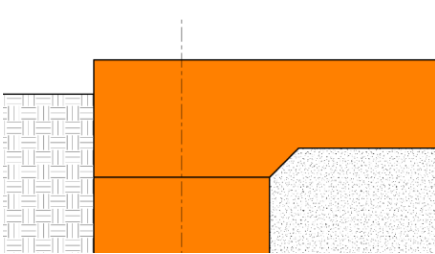
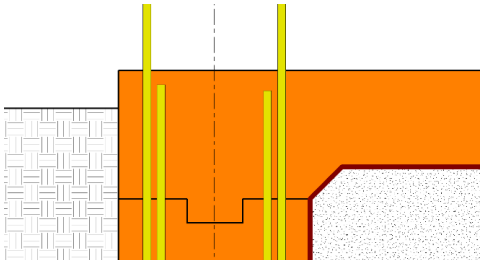


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See A40		See A40
Associated Masterformat Sections:			
03 30 00			
LoD 500			

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 12 A4020-LOD-300 Structural Slabs-on-Grad From lkerd.com	 13 A4020-LOD-350 Structural Slabs-on-Grad From lkerd.com	
Element modeling to include: 1. Overall size, thickness and geometry of the slab-on-grade 2. Major openings such as large mechanical elements modeled to nominal dimensions. 3. Slab depressions 4. Edge turn downs 5. All sloping surfaces included in model element with exception of elements affected by manufacturer selection which are not known at this LOD. Such conditions could include floor geometry differences where different specified manufacturers will not be known until the actual system is selected.	Element modeling to include: 1. All penetrations modeled to rough opening dimensions. 2. Pour joints 3. Control joints 4. Expansion joints 5. Water Stops 6. Rebar and any embedded elements modeled at congested areas where specified by project BXP which is typically with in a set distance from the area of congestion. 7. Void boxes 8. Anchor rods 9. Moisture retarder 10. Dowels 11. Post-tension profile and strands modeled if required by the BXP	Element modeling to include: 1. Fully modeled rebar 2. Actual slab dimensions and profiles with fully modeled rebar 3. Post tensioning components 4. All joints 5. Water proofing 6. Finish



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Description	See B10		Element modeling to include: - Type of structural concrete system - Approximate geometry (e.g. depth) of structural elements
Associated Masterformat Sections:			
See note in left column. Master Class: 03 30 00 / 03 40 00 / 04 20 00 / 05 10 00 / 05 20 00 / 05 21 23 / 05 42 00 / 05 44 00 / 06 11 00 / 06 13 00 / 06 13 26 / 06 17 33 / 06 17 36 / 06 17 53 / 06 18 13 / 06 18 16 / 06 50 00			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 19 B1010.10- LOD 300 Precast Structural Column (Concrete) From lkerd.com	 20 B1010.10- LOD 350 Precast Structural Column (Concrete) From lkerd.com	 21 B1010.10- LOD 400 Precast Structural Column (Concrete) From lkerd.com
Element modeling to include: - Specific sizes and locations of main concrete structural members modeled per defined structural grid with correct orientation - All sloping surfaces included in model element with exception of elements affected by manufacturer selection	Element modeling to include: - Reinforcing Post-tension profiles and strand locations - Reinforcement called out, modeled if required by the BXP, typically only in congested areas - Chamfer - Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. - Expansion Joints - Lifting devices - Embeds and anchor rods - Post-tension profile and strands modeled if required by the BXP - Penetrations for items such as MEP - Any permanent forming or shoring components	Element modeling to include: - All reinforcement including post tension elements detailed and modeled - Finishes

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CONCRETE FORMWORK

LoD 500



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Description			Element modeling to include: 1. Approximate geometry (e.g. panel dimensions or depth).
Associated Masterformat Sections:			
03-10-00			
LoD 500			

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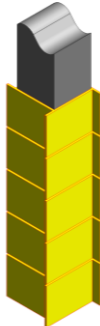
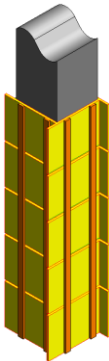
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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

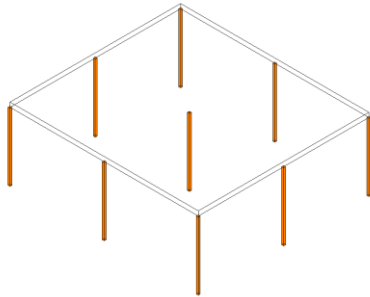
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 LOD 300 Concrete Column Formwork From AscendBKF.org	 LOD 350 Concrete Column Formwork From AscendBKF.org	 LOD 400 Concrete Column Formwork From AscendBKF.org
Element modeling to include: 1. Formwork materials are defined. These may include, but are not limited to plastic, wood or steel. 2. Material properties are defined. These may include, but are not limited to material finish, type, size, grade, strength, etc. 3. Products manufacturer is defined.	Element modeling to include: 1. Insulating faces are defined. 2. Insulating details are defined. These include, but are not limited, too, the type of insulation specified, the temperature change the insulation will cause and the thickness of the insulation within the formwork. 3. Hardware and fastener specification defined (may include Nails, Wood Screws, Bolts, Lag Screws, Ties, Anchors, Hangers, etc.) 4. Shoring connections are defined. 5. Scaffolding connections are defined 6. Liner details are defined.	Element modeling to include: 1. All connections, fasteners, and forms detailed and modeled. 2. Nails, Screws, Anchors, etc.

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	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description			Element modeling to include: 1. Approximate geometry (e.g. formwork dimensions or depth).
Associated Masterformat Sections:			
03-10-00			
LoD 500			

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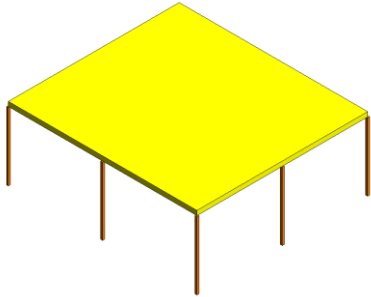
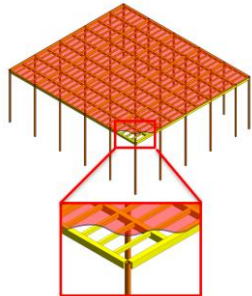
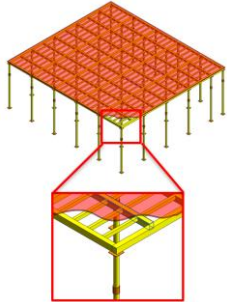
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Notes:

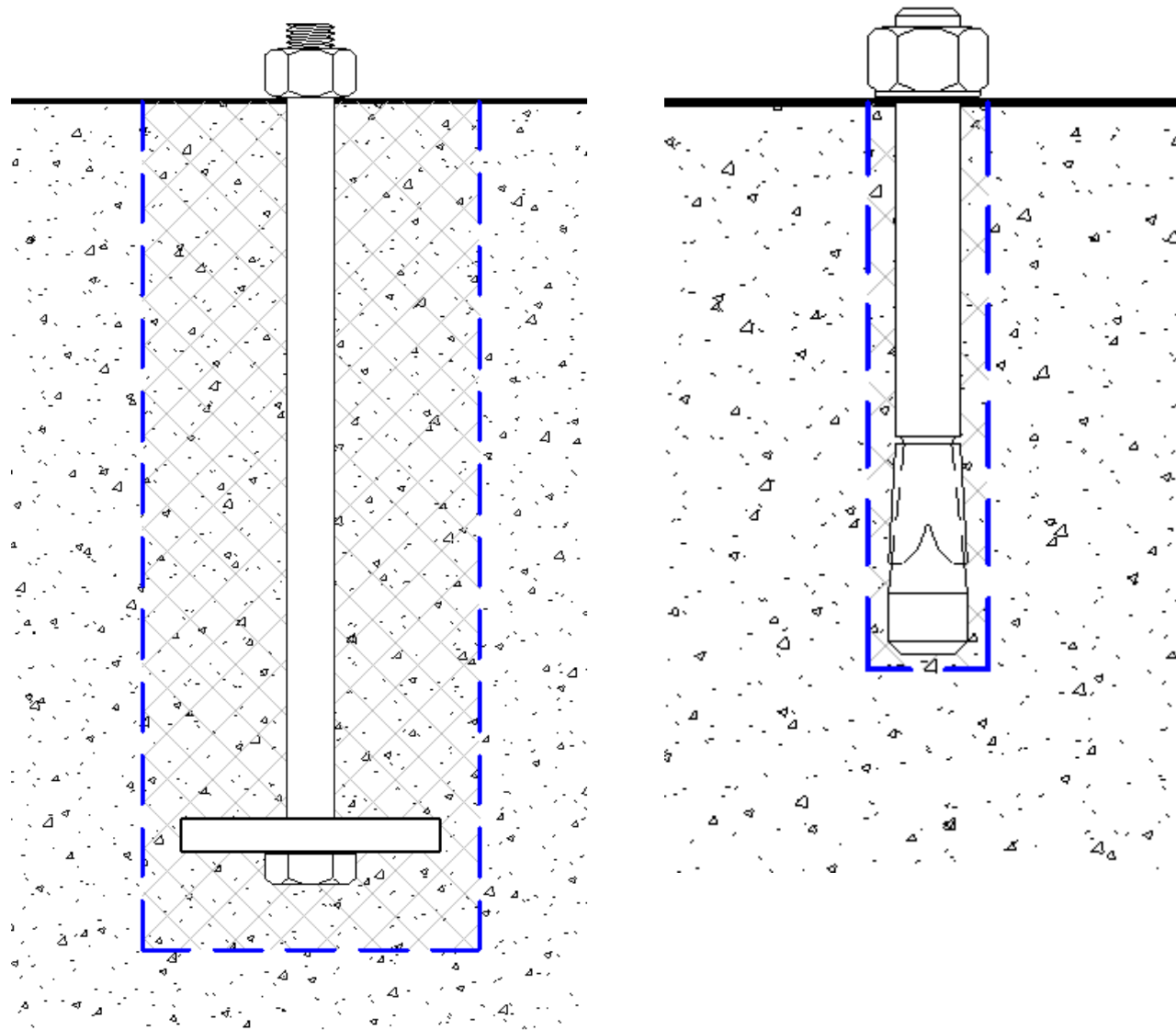
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Element modeling to include: 1. Formwork materials are defined. These may include, but are not limited to plastic, wood or steel. 2. Material properties are defined. These may include, but are not limited to material finish, type, size, grade, strength, etc. 3. Products manufacturer is defined.	Element modeling to include: 1. Insulating faces are defined. 2. Insulating details are defined. These include, but are not limited, too, the type of insulation specified, the temperature change the insulation will cause and the thickness of the insulation within the formwork. 3. Hardware and fastener specification defined (may include Nails, Wood Screws, Bolts, Lag Screws, Ties, Anchors, Hangers, etc.) 4. Shoring connections are defined. 5. Scaffolding connections are defined 6. Liner details are defined.	Element modeling to include: 1. All supports and formwork detailed and modeled. 2. Wood supports, metal supports, plates, etc.

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LoD 500

CONCRETE ANCHOR SYSTEM



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description			Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:			
N/A			
LoD 500			

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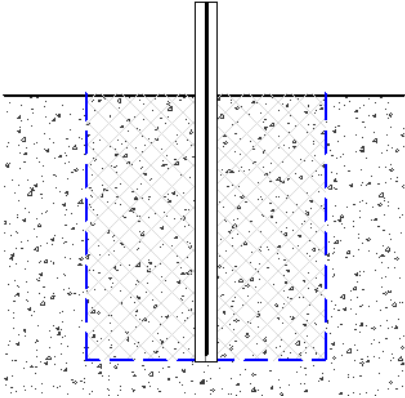
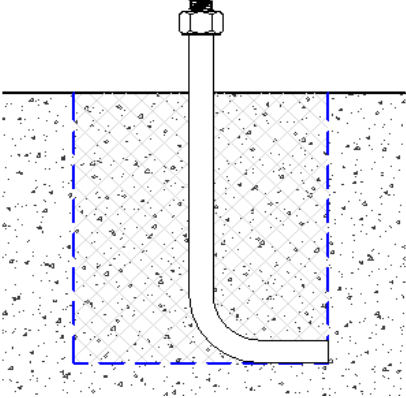
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Notes:

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 L-Bolt Anchor From AscendBKF.org	 LOD 400 L-Bolt Anchor From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads - Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts - Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

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Description			Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:			
N/A			
LoD 500			

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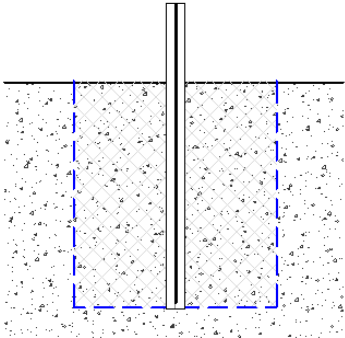
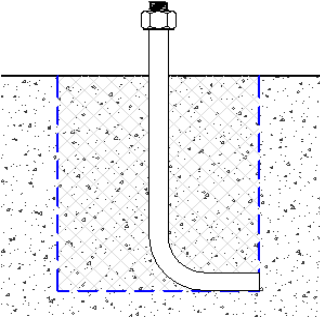
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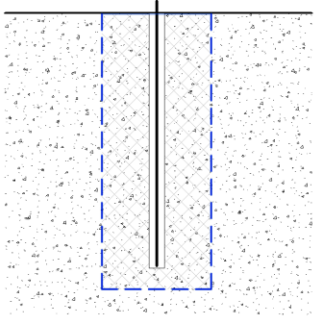
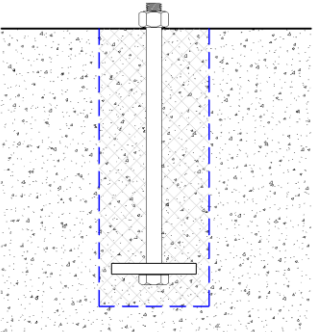
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 J-Bolt Anchor From AscendBKF.org	 LOD 400 J-Bolt Anchor From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads - Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts - Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description			Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Hex Head Bolt with Washer From AscendBKF.org	 LOD 400 Hex Head Bolt with Washer From AscendBKF.org
	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

LoA



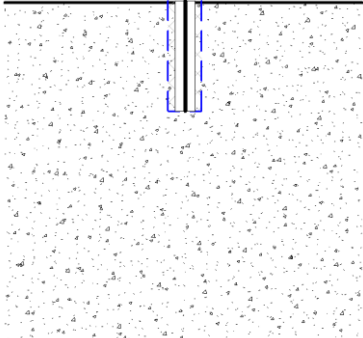
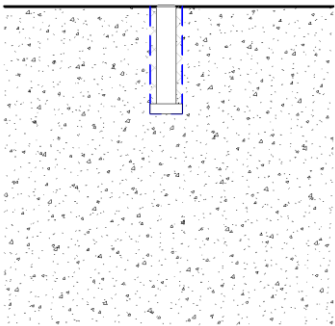
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Description	23-13 23 11		Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:	--		
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Welded Headed Stud Bolt From AscendBKF.org	 LOD 400 Welded Headed Stud Bolt From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

LoA



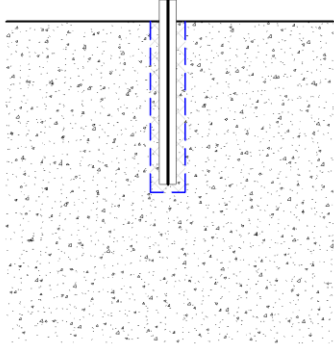
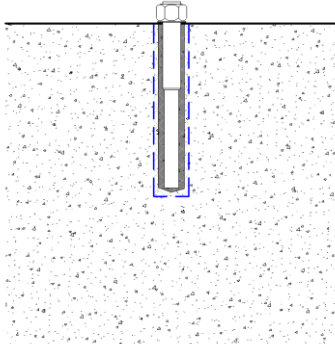
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Description	23-13 23 11		Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:	--		
LoD 500			

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Adhesive Anchor From AscendBKF.org	 LOD 400 Adhesive Anchor From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

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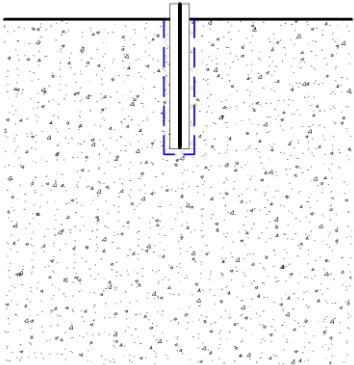
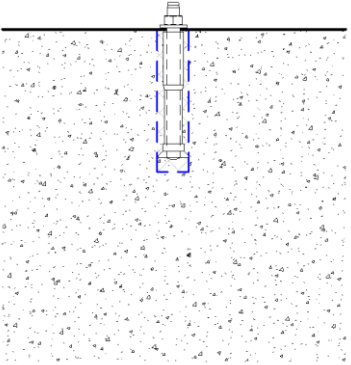
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	23-13 23 11		Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:	--		
LoD 500			

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Undercut Anchor From AscendBKF.org	 LOD 400 Undercut Anchor From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)



Mechanical Fasteners – Torque-controlled Expansion Anchor (Sleeve Type)

Unifomat

Omniclass

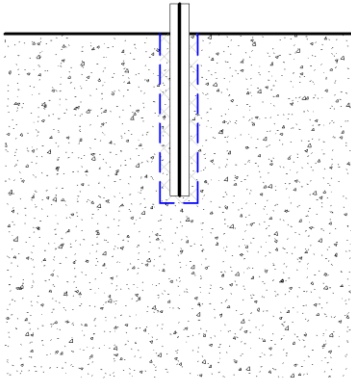
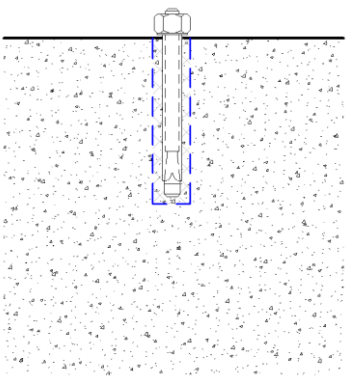
Uniclass

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	23-13 23 11		Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:			
--			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Torque-Controlled Expansion Anchor (Sleeve Type) From AscendBKF.org	 LOD 400 Torque-Controlled Expansion Anchor (Sleeve Type) From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

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Mechanical Fasteners – Torque-controlled Expansion Anchor (Stud Type)

Unifomat

Omniclass

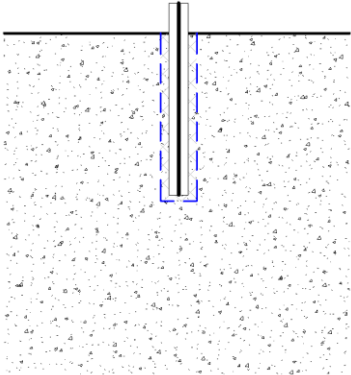
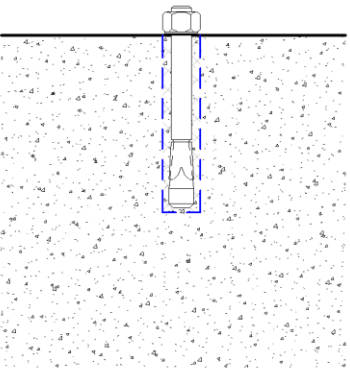
Uniclass

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	23-13 23 11		Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:			
--			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Torque-Controlled Expansion Anchor (Stud Type) From AscendBKF.org	 LOD 400 Torque-Controlled Expansion Anchor (Stud Type) From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

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Mechanical Fasteners – Drop-in Type Displacement-Controlled Expansion Anchor

Unifomat

Omniclass

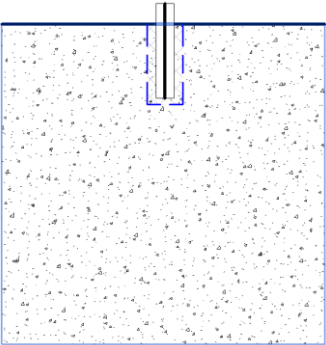
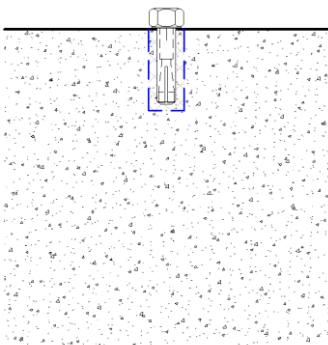
Uniclass

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	23-13 23 11		Refer to the model element of the main assembly being connected.
Associated Masterformat Sections:			
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LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 LOD 350 Drop-In Type Displacement-Controlled Expansion Anchor From AscendBKF.org	 LOD 400 Drop-In Type Displacement-Controlled Expansion Anchor From AscendBKF.org
Refer to the model element of the main assembly being connected.	Element modeling to include: - Anchor Length - Embedment Length - Projection Length - Edge Distance Zone - Spacing Zone - Geometry, base size without threads Required non-graphic information associated with model elements to include: - Anchor materials defined - Anchor type defined - Base material type (steel, concrete, masonry, etc) - Base material strength - Base material condition (New, existing, cracked, uncracked, saturated, etc.) - Finishes, i.e. primed, galvanized, etc.	Element modeling to include fabrication level information: - Anchor Threads - Anchor Washers - Anchor Nuts Other non-graphic information may be included such as: - Mark identification that correlates with bill of material (i.e., piece mark) - Member finish (primer, galvanized, etc.) - Fastener finish (i.e., black, zinc electroplated, hot-dipped galvanized)

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CONCRETE REPAIR

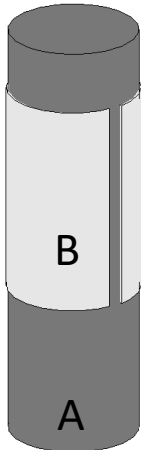
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Concrete Strengthening – FRP Fiber-Reinforced Polymer

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description			Approximate areas of repair are identified as 2D surface patterns (B) on the element being repaired (A). Repair instructions are referenced in specifications and general notes.
Associated Masterformat Sections:			
LoD 500			

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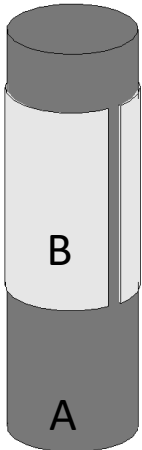
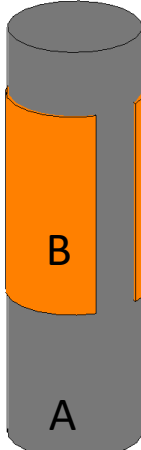
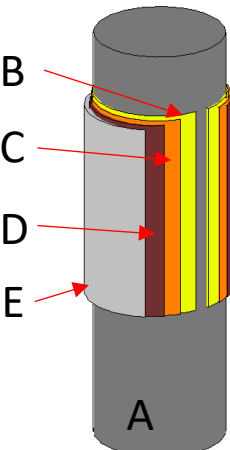
VDCForum.org

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Specific areas of repair are identified as 2D surface patterns (B) on the element being repaired (A). On existing structures, specific as-built geometry is defined in the model in the areas that repairs are applied.	Surface repair areas (B) are modeled in 3D with a thickness on the elements being repaired (A). Interface between main element and concrete strengthening are modeled.	Layers and sequences of repair system are modeled in 3D on the element being repaired (A), noted as such in the graphic above: A. Concrete Substrate B. Primer C. Paste and Filler D. Fabric Saturated E. Protective Coating

LoA

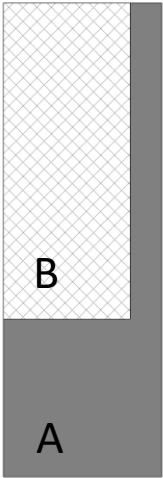


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Concrete Repair
FRCM – Fabric-Reinforced Cementitious Matrix

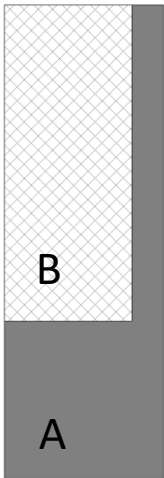
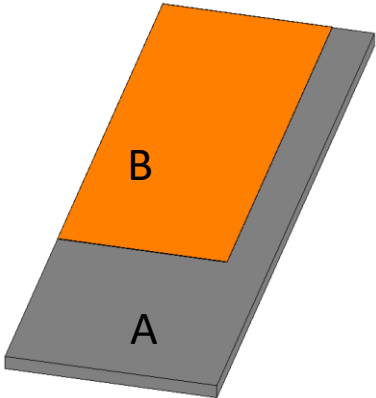
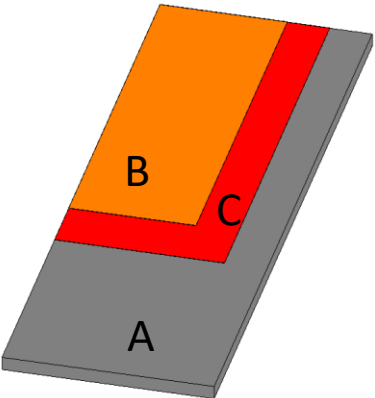
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 Approximate areas of repair is identified (B) on the repair substrate (A). Repair instructions are referenced in specifications and general notes.
Description			
Associated Masterformat Sections:			
LoD 500			

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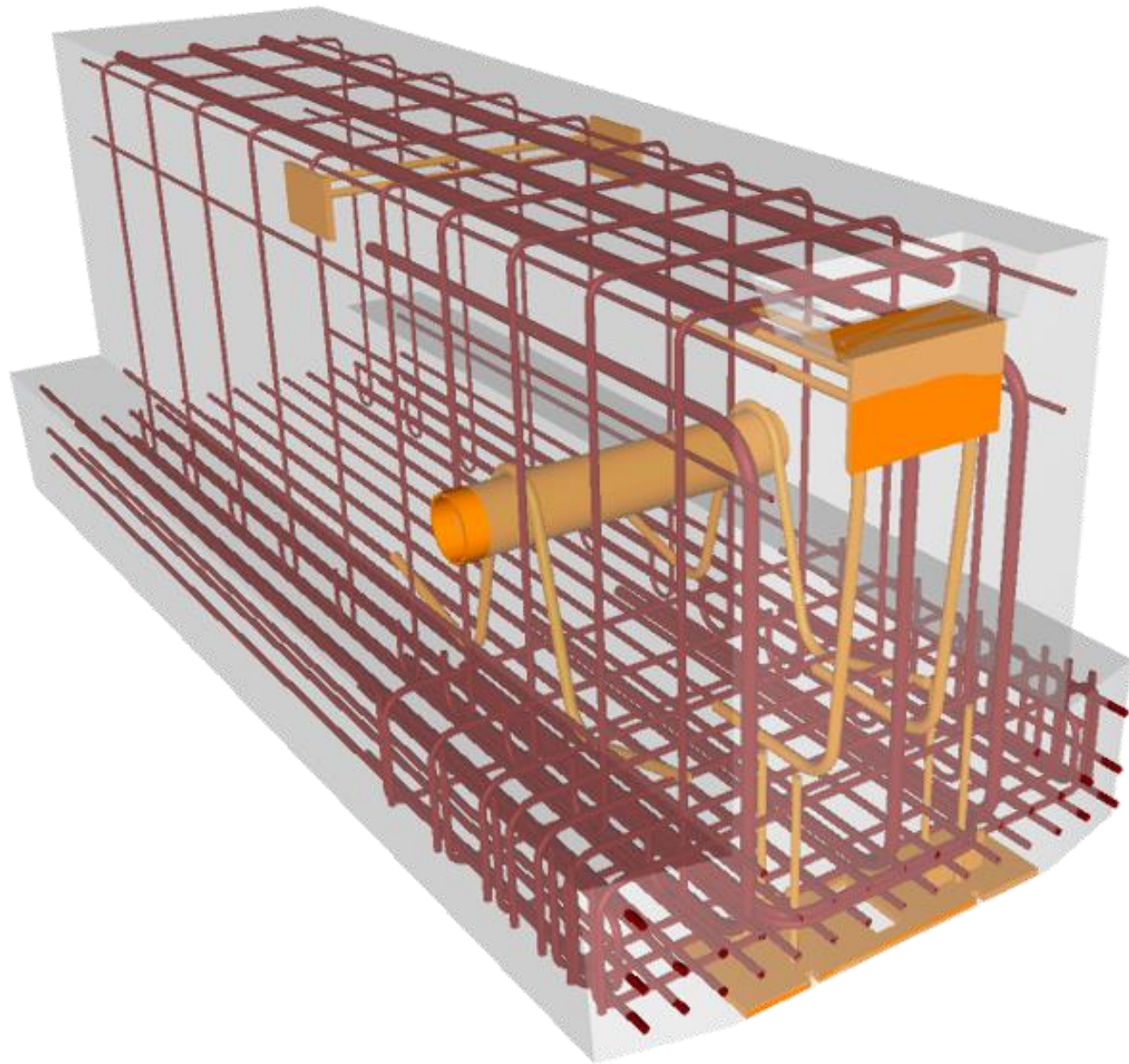
- Notes:**
- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
- b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
- c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

Unifomat	Omniclass	Uniclass
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Specific areas of repair (A) is modeled as a 2D surface on top of the specific geometry of the element being repaired (B). On existing structures, specific as-built geometry is defined in the model in the areas that repairs are applied	Surface repair (B) areas is modeled in 3D with a thickness on top of the element being repaired (B). Interface between main element and concrete strengthening are modeled.	Layers and sequences of repair surface preparation (C) and repair system (B) are modeled on top of the element being repaired (A).



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LoD 500

PRECAST CONCRETE

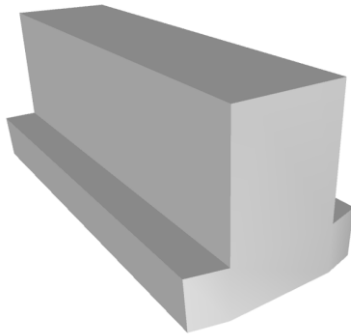


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All reinforcement including post tensión elements detailed and modeled camber

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 <i>LOD 200 Precast Structural Inverted T Beam (Concrete)</i> From lkerd.com
Description			Element modeling to include: - Type of structural concrete system - Approximate geometry (e.g. depth) of structural elements
Associated Masterformat Sections:			
See note under descritpoin.			
Master Class: 03 30 00 / 03 40 00 / 04 20 00 / 05 10 00 / 05 20 00 / 05 21 23 / 05 42 00 / 05 44 00 / 06 11 00 / 06 13 00 / 06 13 26 / 06 17 33 / 06 17 36 / 06 17 53 / 06 18 13 / 06 18 16 / 06 50 00			
LoD 500			

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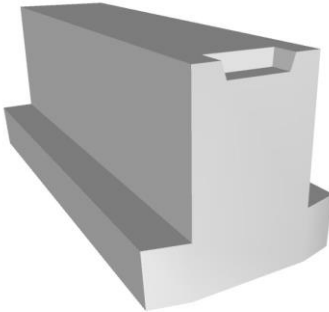
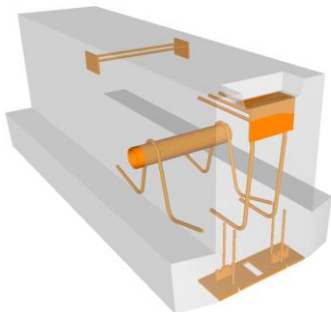
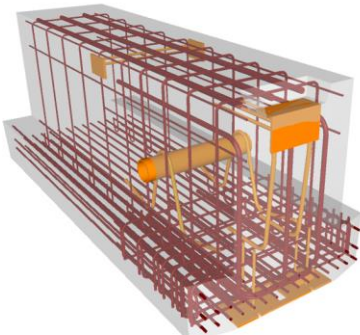
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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 <i>LOD 300 Precast Structural Inverted T Beam (Concrete)</i> From lkerd.com	 <i>LOD 350 Precast Structural Inverted T Beam (Concrete)</i> From lkerd.com	 <i>LOD 400 Precast Structural Inverted T Beam (Concrete)</i> From lkerd.com
Element modeling to include: - Specific sizes and locations of main concrete structural members modeled per defined structural grid with correct orientation - All sloping surfaces included in model element with exception of elements affected by manufacturer selection	Element modeling to include: - Reinforcing Post-tension profiles and strand locations - Reinforcement called out, modeled if required by the BXP, typically only in congested areas - Chamfer - Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. - Lifting devices - Expansion Joints - Embeds and anchor rods - Post-tension profile and strands modeled if required by the BXP - Penetrations for items such as MEP - Any permanent forming or shoring components	Element modeling to include: - All reinforcements including post tension elements detailed and modeled. - Finishes

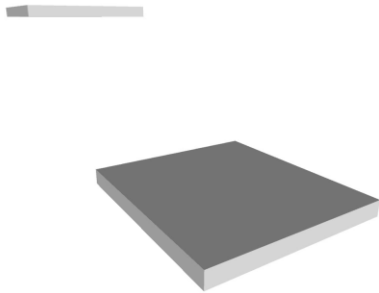
LoA



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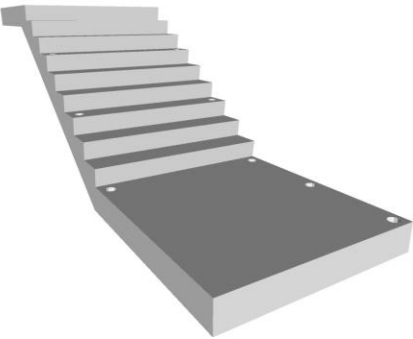
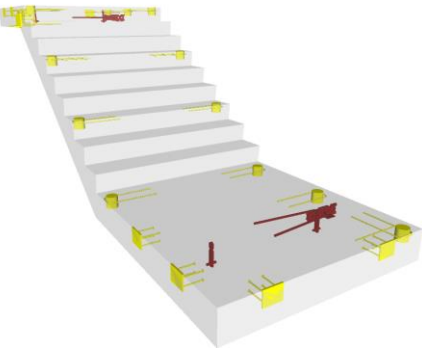
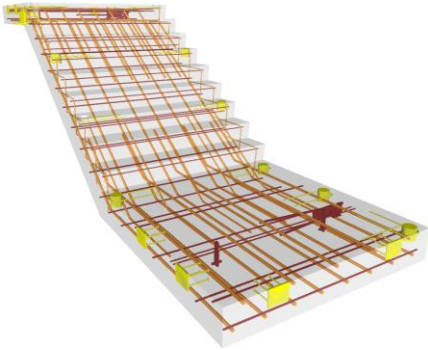


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 53 B1080.10-LOD 200 Precast Structural Stairs (Concrete) From lkerd.com
Description	See B1080		Element modeling to include: 1. Type of structural concrete system 2. Approximate geometry (e.g. depth) of structural elements
Associated Masterformat Sections:			

03 11 23 / 03 30 00 / 03 41 23 / 03 48 19 / 05 51 00
05 55 00 / 05 71 00 / 06 43 00

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 54 B1080.10-LOD 300 Precast Structural Stairs (Concrete) From lkerd.com	 55 B1080.10-LOD 350 Precast Structural Stairs (Concrete) From lkerd.com	 56 B1080.10-LOD 400 Precast Structural Stairs (Concrete) From lkerd.com
Element is accurate as to: 1. Riser count 2. Riser height 3. Tread width 4. Nosing conditions, including top and bottom 5. Landing geometry	Element modeling to include: 1. Reinforcing Post-tension profiles and strand locations 2. Reinforcement called out, modeled if required by the BXP, typically only in congested areas 3. Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. 4. Chamfer 5. Expansion Joints 6. Lifting devices 7. Embeds and anchor rods 8. Post-tension profile and strands modeled if required by the BXP 9. All penetrations modeled to rough opening dimensions. 10. Any permanent forming or shoring components	Element modeling to include: 1. All reinforcement including post tension elements detailed and modeled 2. Finishes, etc.

LoD 500

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 45 B1010.20 – LOD 200 Precast Structural Double Tee (Concrete) From lkerd.com
Description	See B10B10		Element modeling to include: 1. Approximate geometry (e.g. depth) of structural elements.
Associated Masterformat Sections:			
03 30 00 / 03 40 00 / 04 20 00 / 05 10 00 / 05 20 00 / 05 21 23 / 05 42 00 / 05 44 00 / 06 11 00 / 06 13 00 / 06 13 26 / 06 17 33 / 06 17 36 / 06 17 53 / 06 18 13 / 06 18 16 / 06 50 00			
LoD 500			

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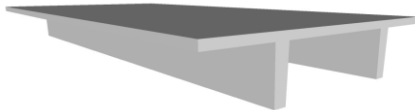
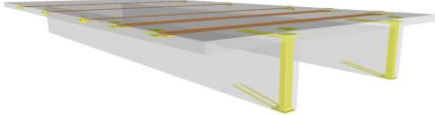
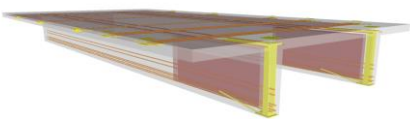
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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 46 B1010.20 – LOD 300 Precast Structural Double Tee (Concrete) From lkerd.com	 47 B1010.20 – LOD 350 Precast Structural Double Tee (Concrete) From lkerd.com	 48 B1010.20 – LOD 400 Precast Structural Double Tee (Concrete) From lkerd.com
Element modeling to include: 1. Specific sizes and locations of main concrete structural members modeled per defined structural grid with correct orientation. 2. Concrete defined per spec (strength, air entrainment, aggregate size, etc.) 3. All sloping surfaces included in model element with exception of elements affected by manufacturer selection.	Element modeling to include: 1. Reinforcing Post-tension profiles and strand locations. 2. Reinforcement called out, modeled if required by the BXP, typically only in congested areas. 3. Chamfer 4. Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. 5. Expansion Joints 6. Lifting devices 7. Embeds and anchor rods 8. Penetrations for items such as MEP 9. Any permanent forming or shoring components	Element modeling to include: 1. All reinforcement including post tension elements detailed and modeled 2. Finishes

LoA



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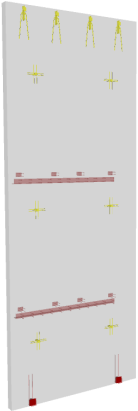
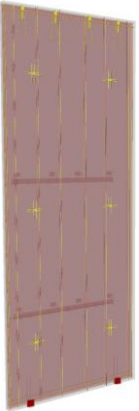


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta). Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
Associated Masterformat Sections:			

03 30 00 / 03 40 00 / 04 20 00 / 05 41 00 / 06 11 00 / 06 12 00 / 06 16 00

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 79 B2010.20– LOD 350 Precast Wall (Concrete) From lkerd.com	 80 B2010.20– LOD 350 Precast Wall (Concrete) From lkerd.com
Specific wall modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements. Shear panels	Element modeling to include: - Reinforcing Post-tension profiles and strand locations - Reinforcement called out, modeled if required by the BXP, typically only in congested areas - Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. - Expansion Joints - Lifting devices - Embeds and anchor rods - Post-tension profile and strands modeled if required by the BXP - All penetrations are modeled at actual rough-opening dimensions. - Any permanent forming or shoring components - Chamfer, reveals, etc.	Element modeling to include: All reinforcement including post tension elements detailed and modeled

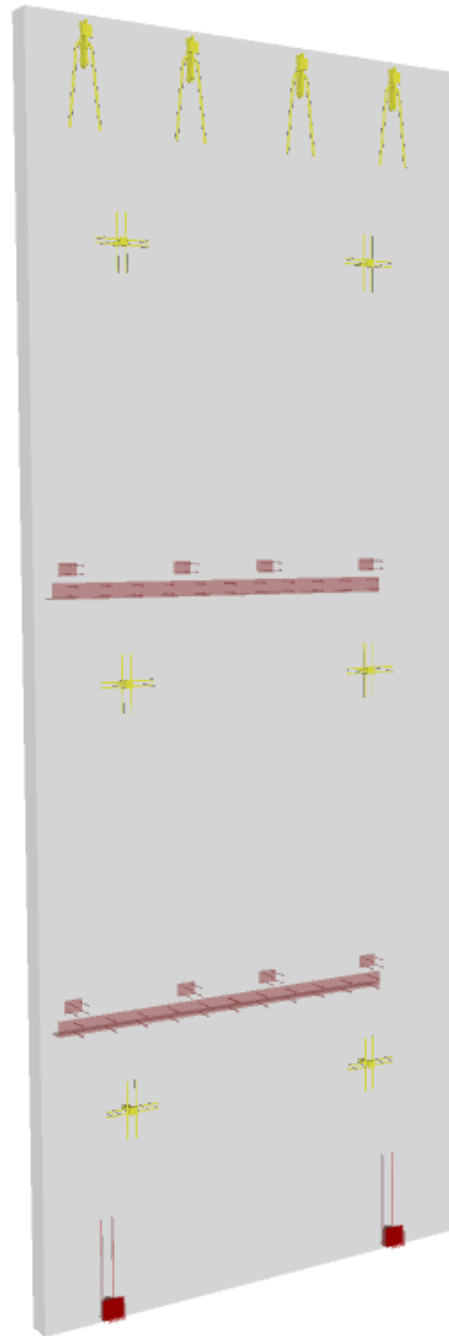
LoD 500

LoA



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LoD 500

Tilt Wall Concrete



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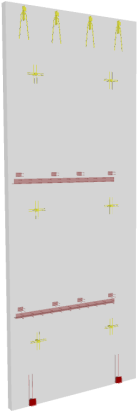
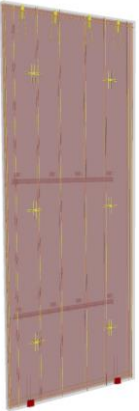
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta). Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
Associated Masterformat Sections:			
03 30 00 / 03 40 00 / 04 20 00 / 05 41 00 / 06 11 00 / 06 12 00 / 06 16 00			
LoD 500			

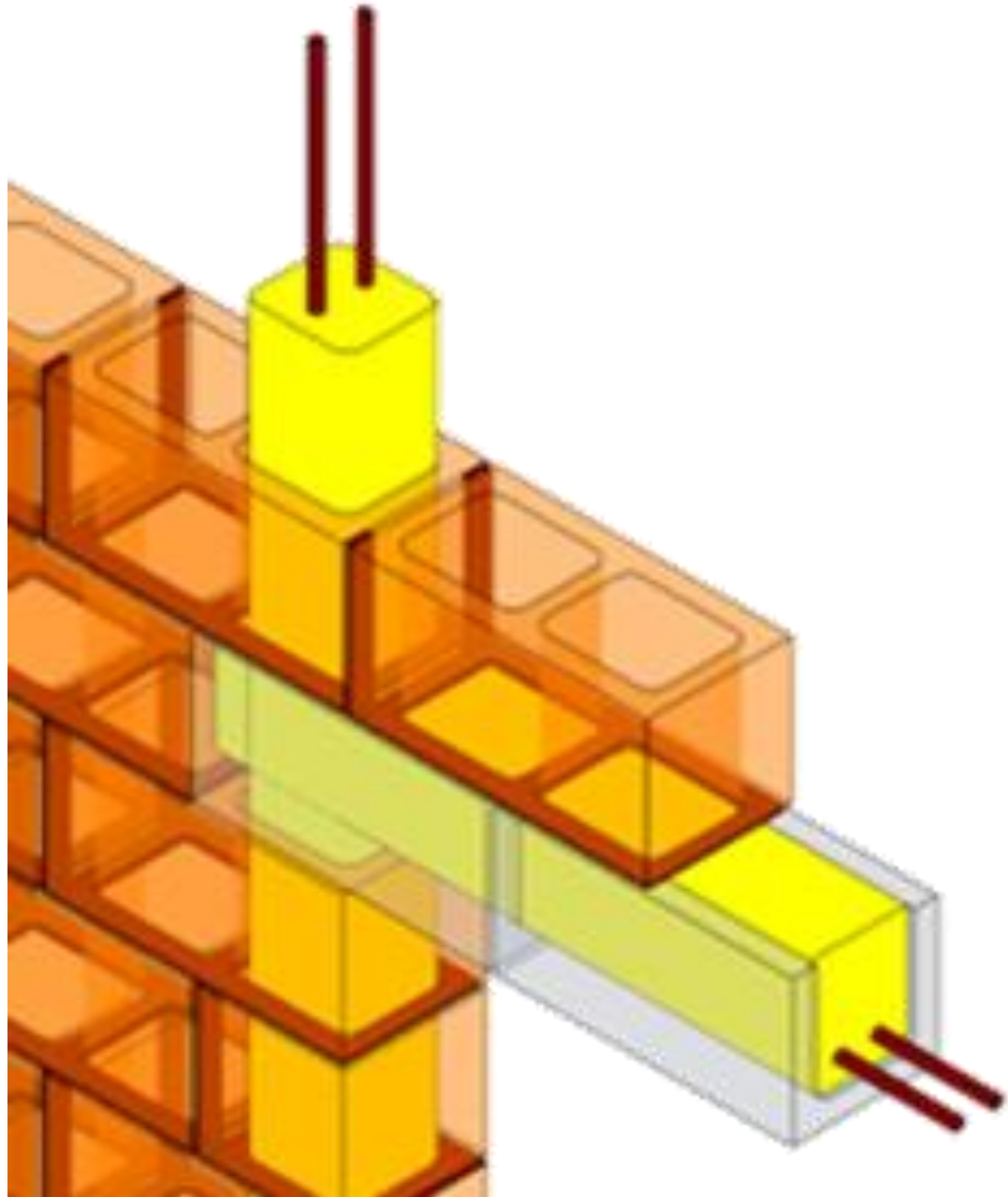
LoA



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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 79 B2010.20- LOD 350 Tilt Wall (Concrete) From lkerd.com	 80 B2010.20- LOD 400 Tilt-Wall(Concrete) From lkerd.com
Specific wall modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements. Shear panels	Element modeling to include: 1. Reinforcing 2. Reinforcement called out, modeled if required by the BXP, typically only in congested areas 3. Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. 4. Expansion Joints 5. Lifting devices 6. Embeds and anchor rods 7. All penetrations are modeled at actual rough-opening dimensions. 8. Any permanent forming or shoring components 9. Chamfer, reveals, etc.	Element modeling to include: 1. All reinforcement elements detailed and modeled



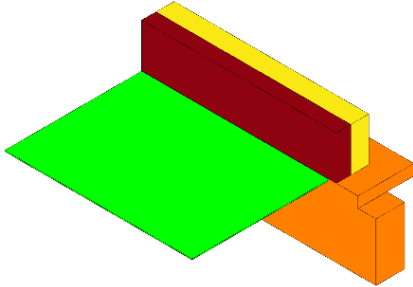
MASONRY

LoD 500



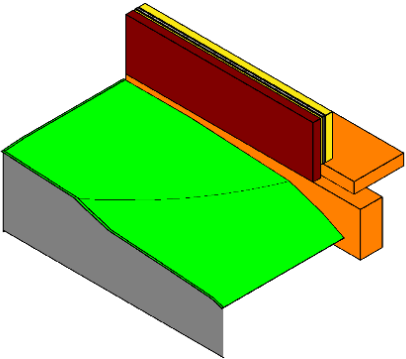
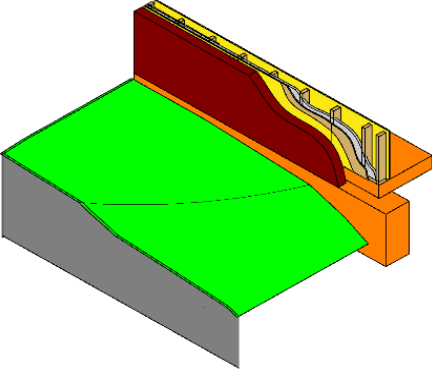
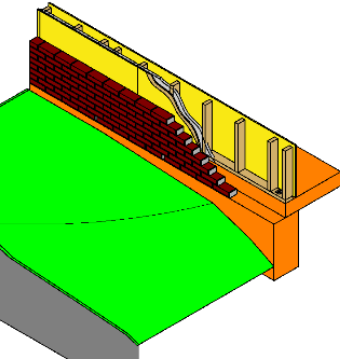
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 63 B2010.10-LOD-200 Exterior Wall Veneer From lkerd.com
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta).
Associated Masterformat Sections:			Approximate thickness of layer represented by a single assembly.
			Layouts and locations still flexible.
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

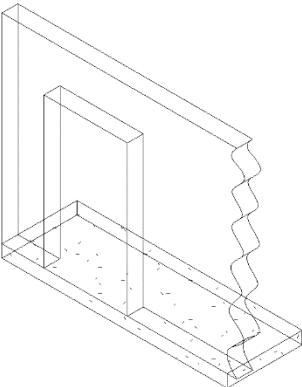
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 64 B2010.10-LOD-300 Exterior Wall Veneer From lkerd.com	 65 B2010.10-LOD-350 Exterior Wall Veneer From lkerd.com	 66 B2010.10-LOD-400 Exterior Wall Veneer From lkerd.com
Exterior wall veneer modeled as a separate element.	Exterior wall veneer modeled as a separate element.	Element modeling includes:
Specific wall modeled to actual dimensions.	All penetrations are modeled at actual rough-opening dimensions.	- Individual masonry units - Skin layers including - Moisture barrier, sheathing, and insulation - Core framing - Bolt - Concrete slab edge - Weep holes
Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements.	Precast concrete panels are individually modeled. Connection points are specified.	
	Connection to interfacing systems	
	Images notes:	
	- Wall veneer element - Skin layers including but not limited to waterproofing membrane - Core framing - Concrete slab edge	

LoA



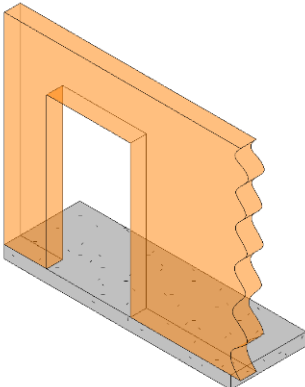
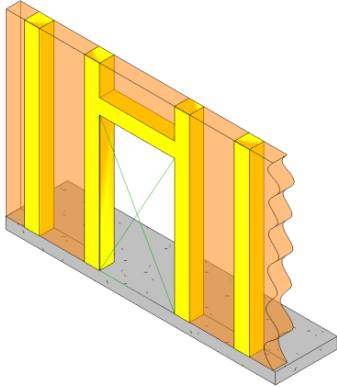
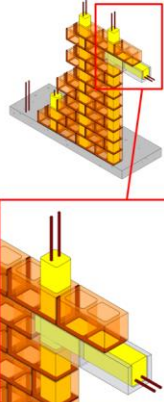
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 75 B2010.04-LOD-200 Exterior Wall (Masonry) From lkerd.com
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta). Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
Associated Masterformat Sections:			
01 83 16			
LoD 500			

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

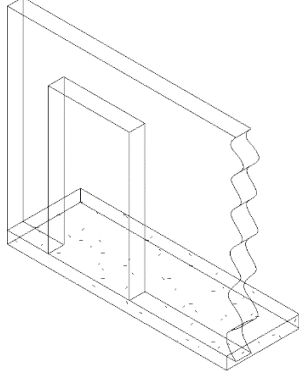
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 76 B2010.04-LOD-300 Exterior Wall (Masonry) From lkerd.com	 77 B2010.04-LOD-350 Exterior Wall (Masonry) From lkerd.com	 78 B2010.04-LOD-400 Exterior Wall (Masonry) From lkerd.com
Specific wall modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements. Shear panels	Element modeling to include: 1. Members modeled at any interface with wall edges (top, bottom, sides) or opening through wall 2. All penetrations are modeled at actual rough-opening dimensions. 3. Openings modeled with support framing around openings 4. Any regions that would impact coordination with other systems such as but not limited to: 5. Bond Beam & Lintel Regions 6. Reinforcing & Embed Regions 7. Jam Regions 8. Any other grouted regions	Element modeling to include: 1. Reinforcing 2. Connections 3. Grouting Material 4. Jams 5. Bond Beams 6. Lintels 7. Member fabrication part number 8. Any part required for complete installation

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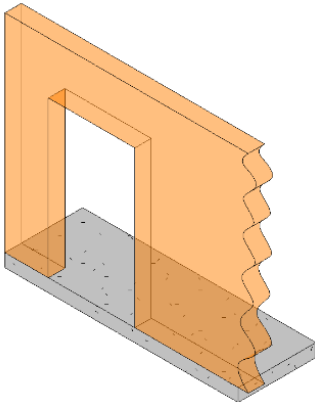
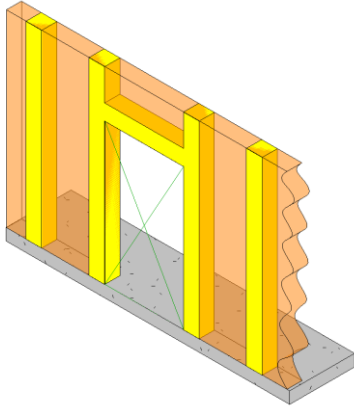
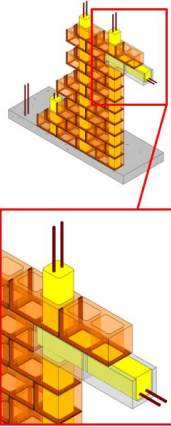


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 37 B1010.10-LOD-200 Floor Structural Frame (Masonry Framing) From lkerd.com
Description	See B10		See B10
Associated Masterformat Sections:			
04 20 00			
LoD 500			



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Notes:
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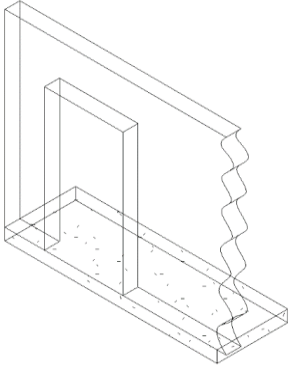
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 38 B1010.10-LOD-300 Floor Structural Frame (Masonry Framing) From lkerd.com	 39 B1010.10-LOD-350 Floor Structural Frame (Masonry Framing) From lkerd.com	 40 B1010.10-LOD-400 Floor Structural Frame (Masonry Framing) From lkerd.com
Element modeling to include: 1. floor element with design-specified locations and geometries	Element modeling to include: 1. Members modeled at any interface with wall edges (top, bottom, sides) or opening through wall 2. Any regions that would impact coordination with other systems such as but not limited to: - Bond Beam & Lintel Regions - Reinforcing & Embed Regions - Jam Regions - Any other grouted regions	Element modeling to include: 1. Reinforcing 2. Connections 3. Grouting Material 4. Jams 5. Bond Beams 6. Lintels 7. Member fabrication part number 8. Any part required for complete installation

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 85 C1010.04-LOD-200 Interior Wall (Masonry) From lkerd.com
Description	See C10	IN	See C1010
Associated Masterformat Sections:			
10 22 00 / 01 84 13			



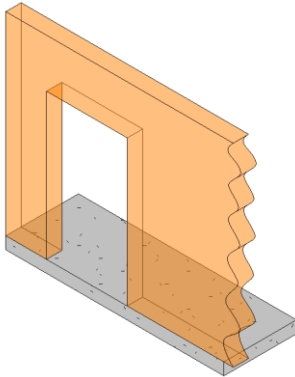
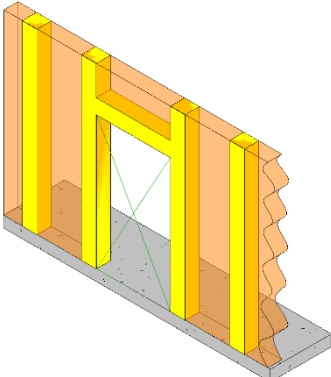
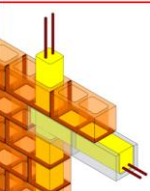
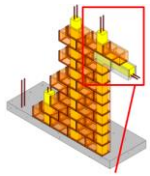
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 86 C1010.04-LOD-300 Interior Wall (Masonry) From lkerd.com	 87 C1010.04-LOD-350 Interior Wall (Masonry) From lkerd.com	 88 C1010.04-LOD-400 Interior Wall (Masonry) From lkerd.com
See C1010.10	Element modeling to include: 1. Members modeled at any interface with wall edges (top, bottom, sides) or opening through wall 2. All penetrations are modeled at actual rough-opening dimensions. 3. Any regions that would impact coordination with other systems such as but not limited to: - Bond Beam & Lintel Regions - Reinforcing & Embed Regions 4. Jam Regions	Element modeling to include: 1. Reinforcing 2. Connections 3. Grouting Material 4. Jams 5. Bond Beams 6. Lintels 7. Member fabrication part number 8. Any part required for complete installation

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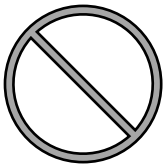
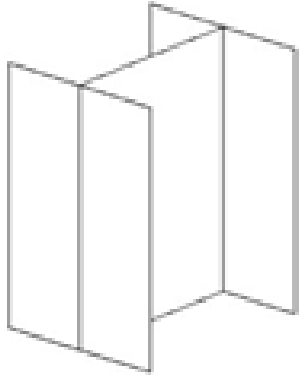




LoD 500

STRUCTURAL & MISCELLANEOUS STEEL



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 23 B1010.10-LOD-200 Floor Structural Frame (Steel Framing Columns) From lkerd.com
Description	Generic column element. See B10.		See B1010
Associated Masterformat Sections:			
05 10 00			
LoD 500			

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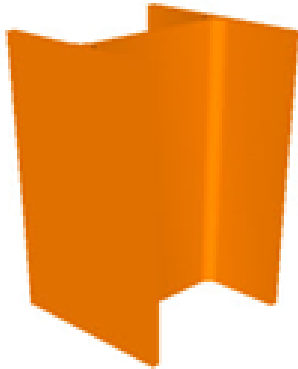
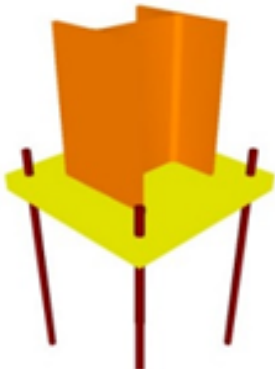
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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 24 B1010.10-LOD-300 Floor Structural Frame (Steel Framing Columns) From lkerd.com	 25 B1010.10-LOD-350 Floor Structural Frame (Steel Framing Columns) From lkerd.com	 26 B1010.10-LOD-400 Floor Structural Frame (Steel Framing Columns) From lkerd.com
Element modeling to include: 1. Specific sizes of main vertical structural members modeled per defined structural grid with correct location and orientation.	Element modeling to include: 1. Actual elevations and location of member connections 2. Main elements of typical connections applied to all structural steel connections such as base plates, gusset plates, anchor rods, etc. 3. Any miscellaneous steel members with correct size, shape, orientation, and material. 4. Any steel structure reinforcement such as web stiffeners, sleeve penetrations, etc.	Element modeling to include: 1. Welds 2. Coping of members 3. Cap pates 4. Washers, nuts, etc. 5. All assembly elements

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B10		See B1010
Associated Masterformat Sections:			
: 05 10 00 / 05 20 00 / 05 21 23			
LoD 500			

LoA



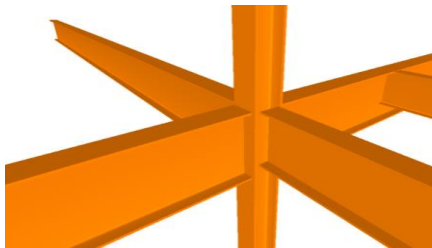
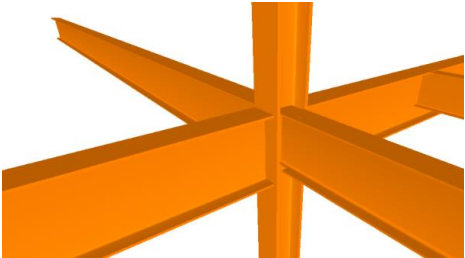
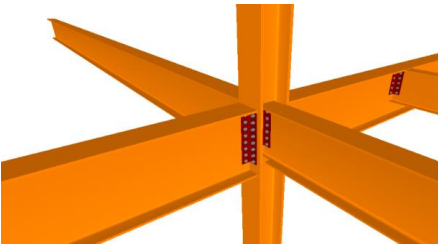
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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

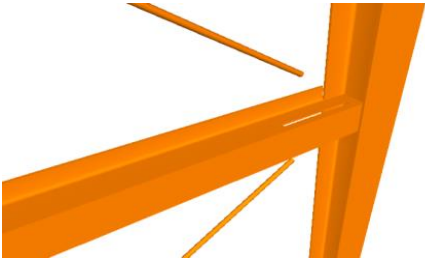
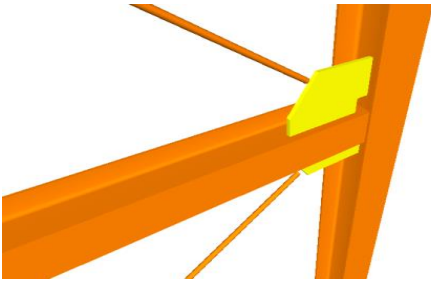
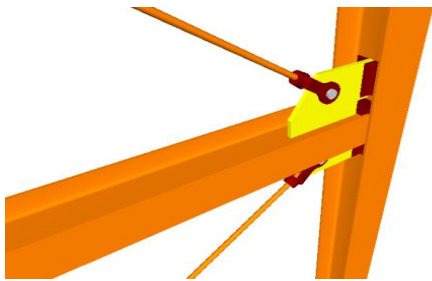
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 27 B1010.10-LOD-300 Floor Structural Frame (Steel Framing Beams) From lkerd.com	 28 B1010.10-LOD-350 Floor Structural Frame (Steel Framing Beams) From lkerd.com	 29 B1010.10-LOD-400 Floor Structural Frame (Steel Framing Beams) From lkerd.com
Element modeling to include: 1. Specific sizes of main horizontal structural members modeled per defined structural grid with correct orientation, slope and elevation	Element modeling to include: 1. Actual elevations and location of member connections 2. Main elements of typical connections applied to all structural steel connections such as base plates, gusset plates, anchor rods, etc. 3. Any miscellaneous steel members with correct size, shape, orientation and material 4. Any steel structure reinforcement such as web stiffeners, sleeve penetrations, etc.	Element modeling to include: 1. Welds 2. Coping of members 3. Bent plates, cap pates, etc. 4. Bolts, washers, nuts, etc. 5. All assembly elements

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B10		See B1010
Associated Masterformat Sections:			
05 10 00			
LoD 500			



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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 30 B1010.100-LOD-300 Floor Structural Frame (Steel Framing Bracing Rods) From lkerd.com	 31 B1010.100-LOD-350 Floor Structural Frame (Steel Framing Bracing Rods) From lkerd.com	 32 B1010.100-LOD-400 Floor Structural Frame (Steel Framing Bracing Rods) From lkerd.com
Element modeling to include: 1. Specific sizes of main structural braces modeled per defined structural grid	Element modeling to include: 1. Connection details 2. Actual elevations and location of member connections 3. Main elements of typical connections applied to all structural steel connections such as base plates, gusset plates, anchor rods, etc. 4. Any miscellaneous steel members with correct size, shape, orientation and material	Element modeling to include: 1. Welds 2. Clevis 3. Bolts, washers, nuts, etc. 4. All assembly elements

LoA



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STEEL STAIRS & RAILING

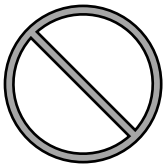
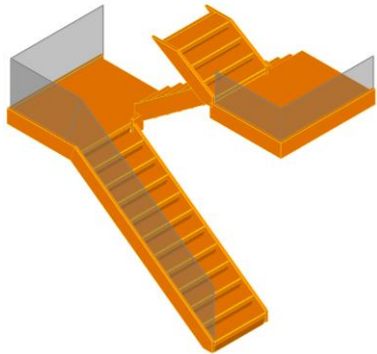
LoD 500



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 49 B1080.10-LOD-200 Stair Construction From lkerd.com
Description	See B1080		Generic model element with simplified treads and risers.
Associated Masterformat Sections:			Nominal overall unit scope shall include:
			Nominal plan dimensions (length, width)
			Nominal vertical dimensions (levels, landings)
LoD 500			

LoA

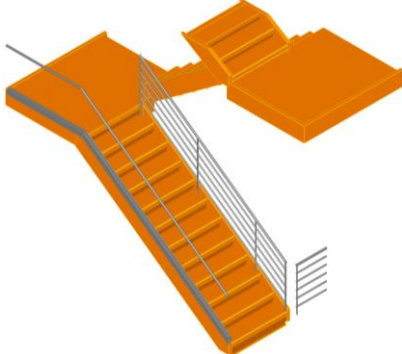
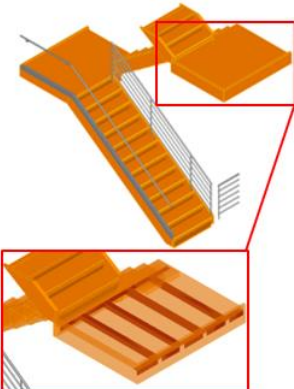
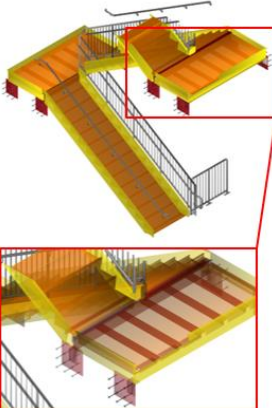
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[VDCForum.org](#)

Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 50 B1080.10-LOD-300 Stair Construction From lkerd.com	 51 B1080.10-LOD-350 Stair Construction From lkerd.com	 52 B1080.10-LOD-400 Stair Construction From lkerd.com
Major stair support elements are modeled (stringers).	Secondary stair support elements are modeled (hangers, brackets, handrail connection points etc.).	All stair elements are modeled to support fabrication and installation.
Element is accurate as to:		
1. Riser count 2. Riser height 3. Tread width 4. Nosing conditions, including top and bottom 5. Landing geometry		

LoA

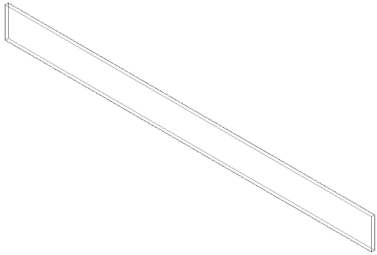
STEEL JOISTS

LoD 500



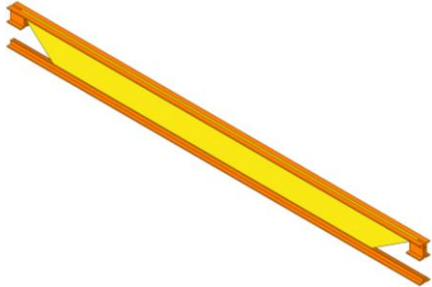
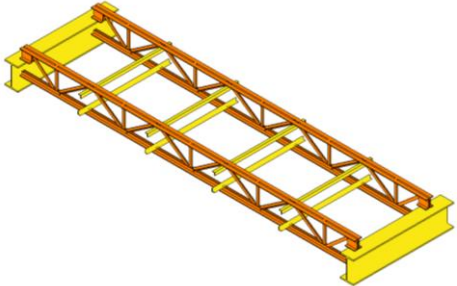
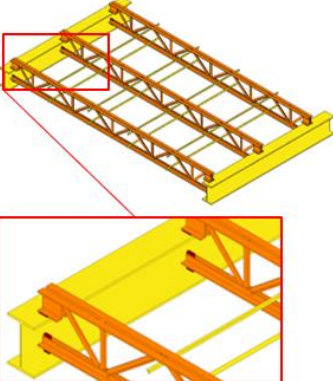
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 33 B1010.10-LOD-200 Floor Structural Frame (Steel Joists), From lkerd.com
Description	See B10		Element modeling to include: 1. Approximate depth
Associated Masterformat Sections:			
05 10 00 / 05 20 00 / 05 21 23			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

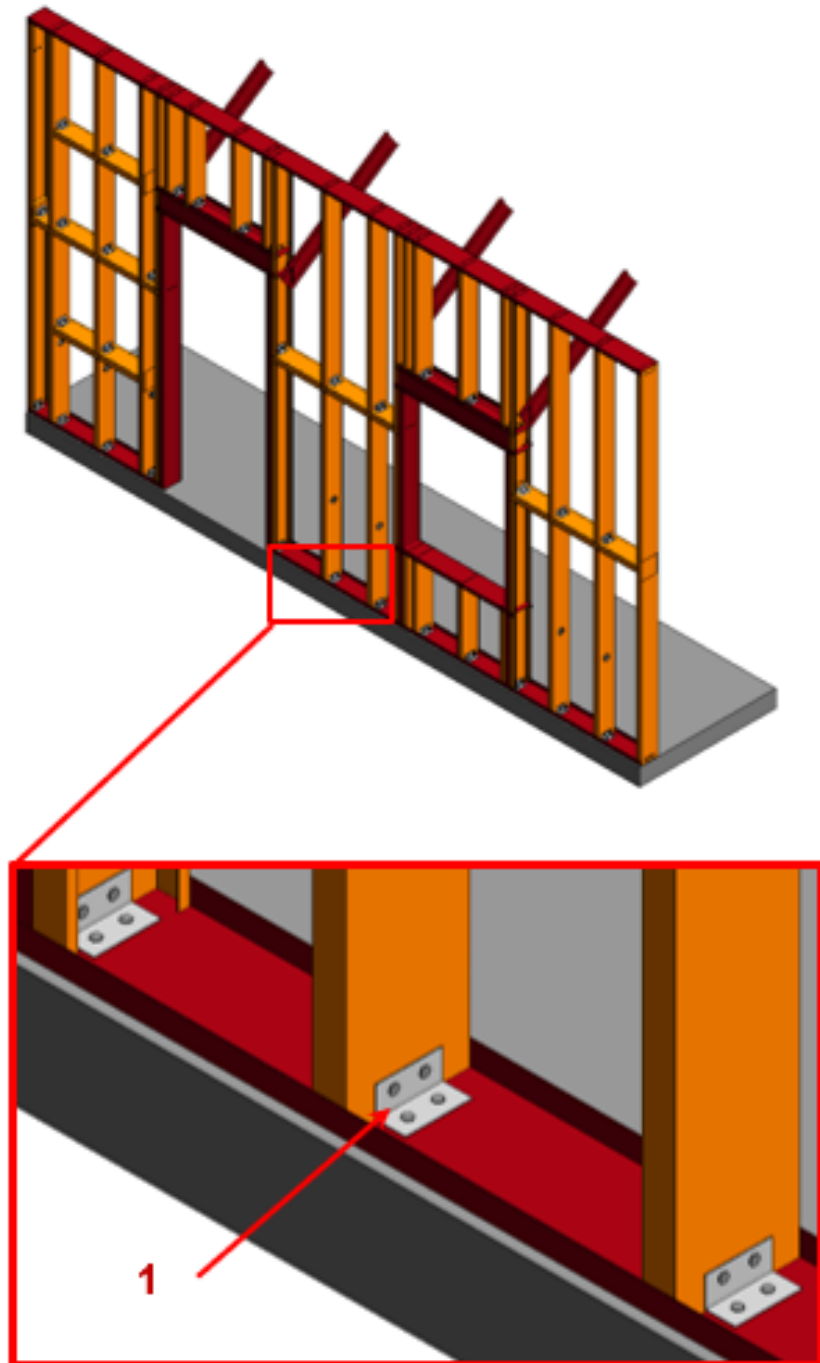
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 34 B1010.10-LOD-300 Floor Structural Frame (Steel Joists), From lkerd.com	 35 B1010.10-LOD-350 Floor Structural Frame (Steel Joists), From lkerd.com	 36 B1010.10-LOD-400 Floor Structural Frame (Steel Joists), From lkerd.com
Element modeling to include: 1. Joist size, depth, slope, and material 2. Spacing and end elevations 3. Joist seat depth	Element modeling to include, information needed for cross trade collaboration such as: 1. Actual final joist profile locations with accurate panel points 2. Joist bridging and lateral braces. 3. Fire protection coating 4. Any miscellaneous steel pertaining to the joist 5. Joist seat width 6. Erection details for installation 7. Chord and web member section profiles are defined 8. Joist layout in coordination with metal deck fasteners would be confirmed 9. Non-standard joist seat depths and/or sloping joist seat	Element modeling to include: 1. Welds 2. Connection plates 3. Member fabrication part number 4. Quantity 5. Spacing 6. Anchorage 7. Material required for proper installation 8. Mark identification that correlates with bill of material 9. Type of shop paint if required

LoA



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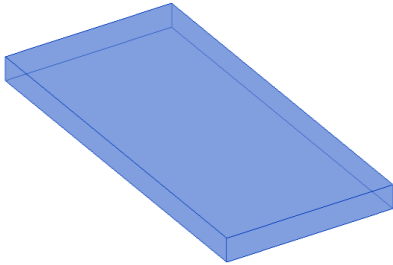
COLD FORMED METAL FRAMING, DRYWALL & SHEATHING

LoD 500



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B10		Element modeling to include: 1. Rough architectural masses 2. Approximate member depth 3. Desired member spacing
Associated Masterformat Sections:			
05 10 00 / 05 42 00 / 05 44 00			
LoD 500			

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

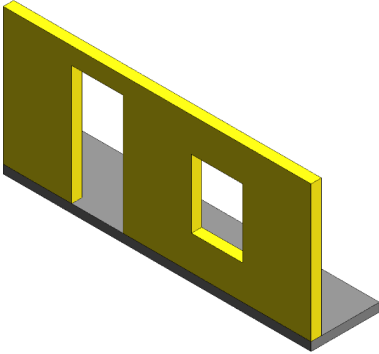
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Element modeling to include: 1. Floor element with design-specified locations and geometries	Element modeling to include: 1. Members modeled at any interface with wall edges (top, bottom, sides) or opening through wall 2. Bridging or straps	Element modeling to include: 1. Welds 2. Connections 3. Member fabrication part number 4. Any part required for complete installation

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta). Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
Associated Masterformat Sections:			
01 83 16			

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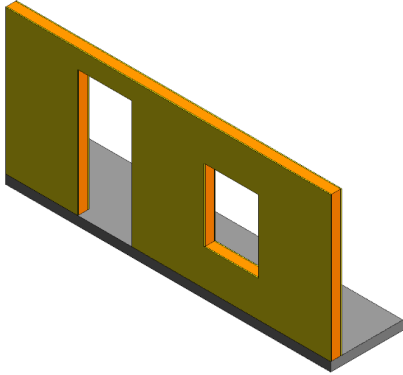
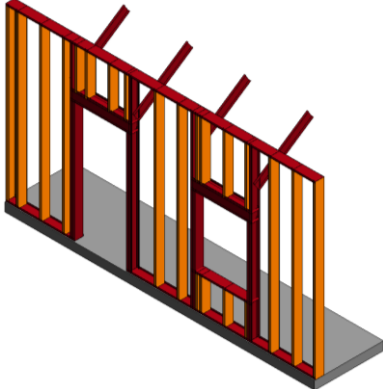
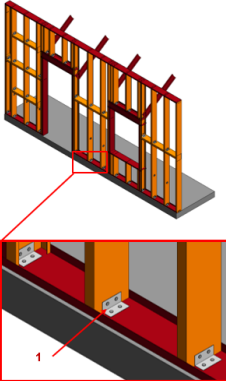
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 72 B2010.05-LOD-300 Exterior Wall (Cold-Form Metal Framing) From lkerd.com	 73 B2010.05-LOD-350 Exterior Wall (Cold-Form Metal Framing) From lkerd.com	 74 B2010.05-LOD-400 Exterior Wall (Cold-Form Metal Framing) From lkerd.com
Specific wall modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements. Shear panels	Cold formed metal framing is developed with sufficient elements to support detailed interface coordination with other systems such as MEP. All penetrations are modeled at actual rough-opening dimensions. Openings modeled with support framing around openings Image notes: 1. Elements in red are critical wall support elements that cannot be easily cut for coordination of MEP opening through the walls. 2. Diagonal bracing (kickers) that may be in the above ceiling space are modeled for coordination with other building content such as MEP passing along the wall in the above ceiling spaces. 3. Infill cold formed metal framing modeling (Orange) may be omitted at this LOD if stated in the BXP. 4. Cladding and sheathing are not shown for clarity in this image.	Cold formed metal framing is developed with sufficient elements that support the fabrication of the CFMF system. Image notes: 1. Connection content is development in the wall elements. This includes but is not limited to fasteners, clips, and other related hardware. 2. Cladding and sheathing are not shown for clarity in this image.

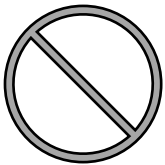
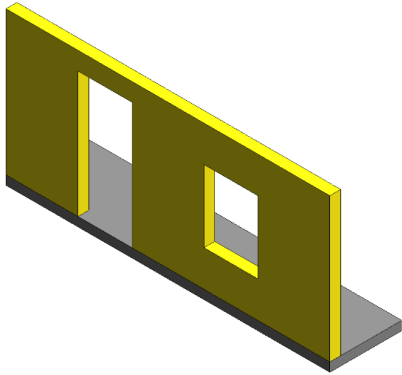
LoD 500

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 89 C1010.05-LOD-200 Interior Wall (Cold-Form Metal Framing) From lkerd.com
Description	See C10		See C1010
Associated Masterformat Sections:			
10 22 00 / 01 84 13			
LoD 500			



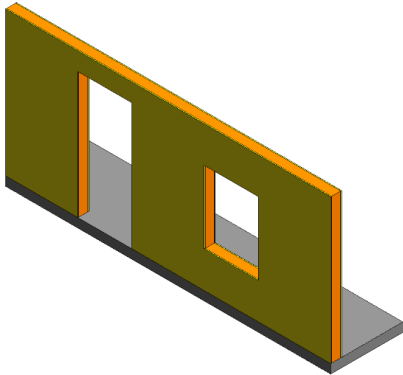
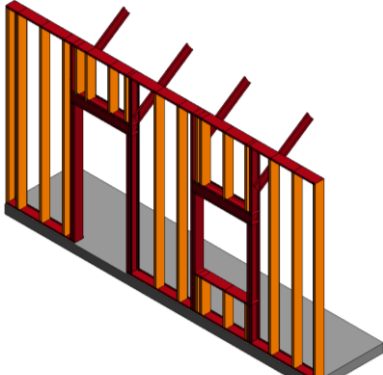
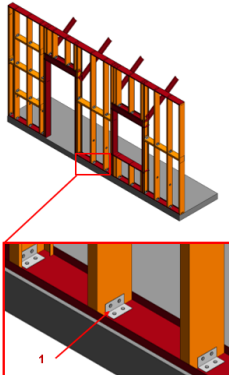
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

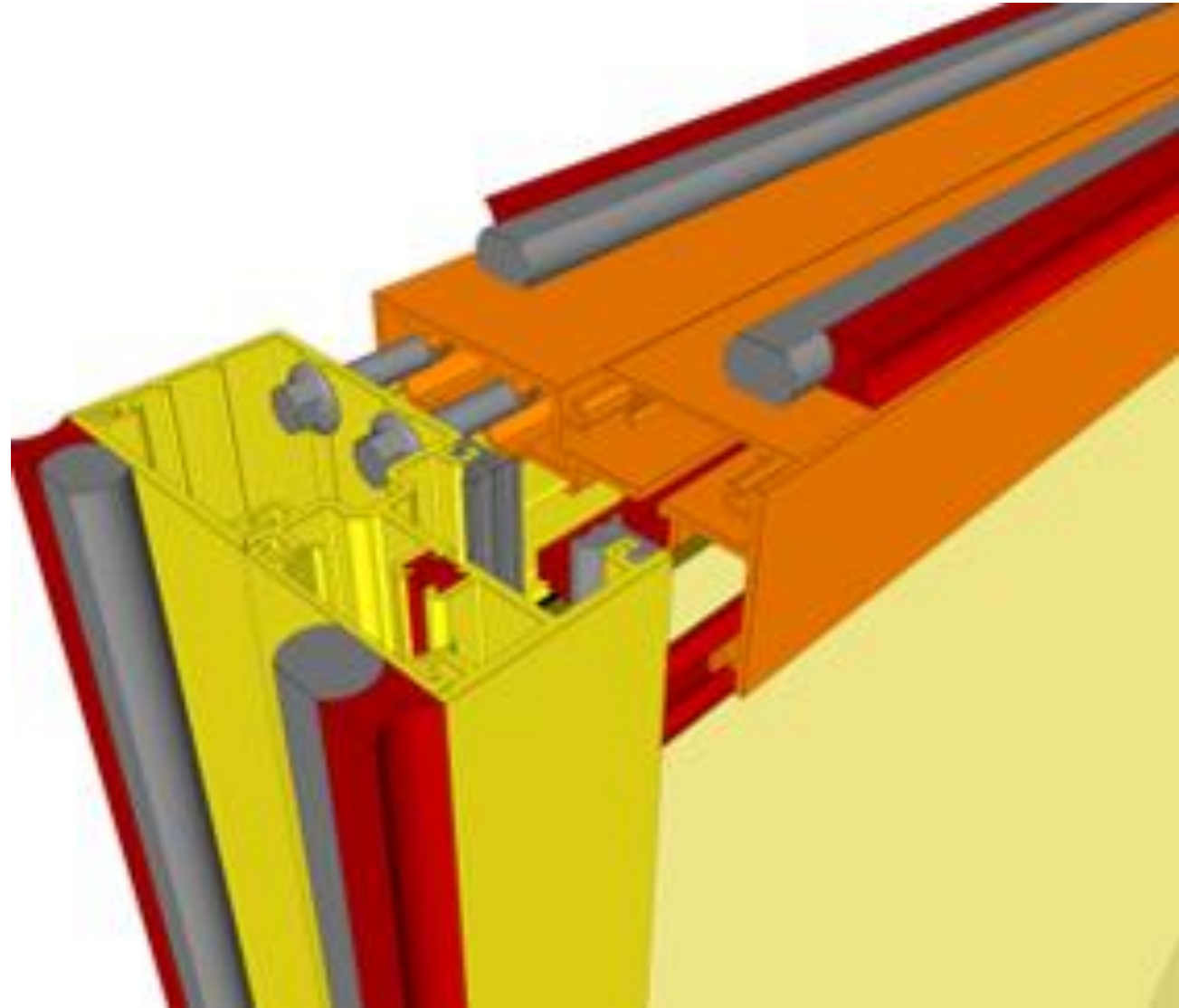
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 90 C1010.05-LOD-300 Interior Wall (Cold-Form Metal Framing) From lkerd.com	 91 C1010.05-LOD-350 Interior Wall (Cold-Form Metal Framing) From lkerd.com	 92 C1010.05-LOD-400 Interior Wall (Cold-Form Metal Framing) From lkerd.com
See C1010.10	Cold formed metal framing is developed with sufficient elements to support detailed interface coordination with other systems such as MEP.	Cold formed metal framing is developed with sufficient elements that support the fabrication of the CFMF system.
	All penetrations are modeled at actual rough-opening dimensions.	Image notes: 1. Connection content is development in the wall elements. This includes but is not limited to fasteners, clips, and other related hardware. 2. Cladding and sheathing are not shown for clarity in this image.
	Image notes: 1. Elements in red are critical wall support elements that cannot be easily cut for coordination of MEP opening through the walls. 2. Diagonal bracing (kickers) that may be in the above ceiling space are modeled for coordination with other building content such as MEP passing along the wall in the above ceiling spaces. 3. Infill CFMF modeling (Orange) may be omitted at this LOD if stated in the BXP. 4. Cladding and sheathing are not shown for clarity in this image.	

LoA



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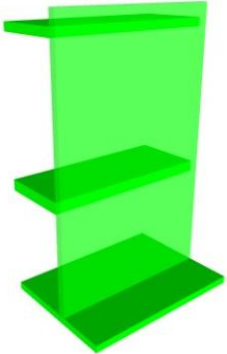
ENCLOSURES CLADDING & CURTAIN WALL

LoD 500



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	See B20		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta).
Associated Masterformat Sections:			Approximate overall wall thickness represented by a single assembly.
01 83 16			Layouts and locations still flexible.
LoD 500			

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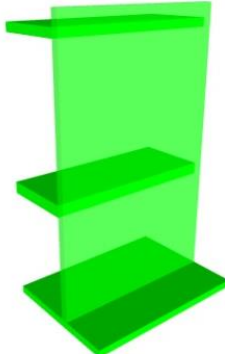
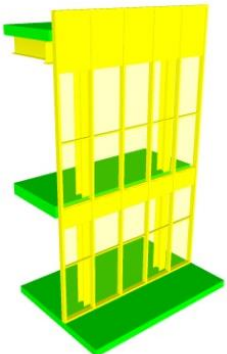
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

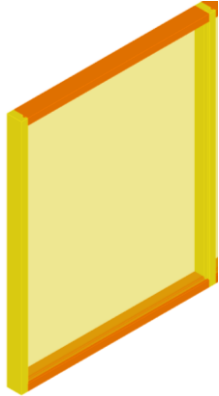
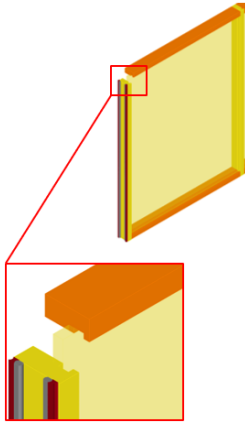
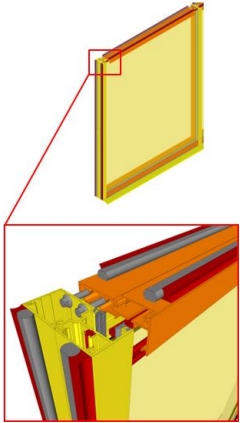
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 61 B2010-LOD-300 Exterior Walls From lkerd.com	 62 B2010-LOD-350 Exterior Walls From lkerd.com	
Single model element with specific overall thickness that accounts for veneer, structure, insulation, air space, and interior skin specified for the wall system. (Refer to LOD350 and LOD400 for individually modeled elements)	May be modeled as a single model element.	
Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements.	Main structural members such as headers and jambs at openings are modeled.	
	All penetrations are modeled at actual rough-opening dimensions.	

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 81 B2020.30-LOD-200 Exterior Window Wall From lkerd.com
Description	See B20		Generic wall objects representing major types of proposed window wall assemblies. Overall window wall assembly depth represented by a single model object. Layouts and locations still flexible.
Associated Masterformat Sections:			
08 43 00			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 82 B2020.30-LOD-300 Exterior Window Wall From lkerd.com	 83 B2020.30-LOD-350 Exterior Window Wall From lkerd.com	 84 B2020.30-LOD-400 Exterior Window Wall From lkerd.com
Specified location and orientation of face of glass. Nominal face dimensions and thickness of glazing. Spacing, location, size and orientation of mullions. Operable components defined (windows, louvers and doors) and included in model.	Mullion shapes and geometry defined. Actual anchorage layouts and types defined and modeled. Actual panel dimensions (including seating).	Complete mullion extrusion profiles. Interface details between wall systems (within) and wall and support systems including sealants, end dams, flashings and membranes.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 81 B2020.30-LOD-200 Exterior Window Wall From lkerd.com
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta). Approximate thickness of layer represented by a single assembly. Layouts and locations still flexible.
Associated Masterformat Sections:			
09 20 00			
LoD 500			



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Specific wall modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements.	Exterior wall interior skin modeled as a separate element. All openings modeled to rough opening dimensions.	Element modeling to include: 1. Studs and tracks 2. Individual masonry units 3. Reinforcing 4. Wall board 5. Insulation

LoA



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- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
- b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
- c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions.

See Element Sections For Additional Information

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 81 B2020.30-LOD-200 Exterior Window Wall From lkerd.com
Description	See B20		See B2020
Associated Masterformat Sections:			
08 50 00 / 08 51 66 / 08 52 66 / 08 53 66 / 08 54 66 08 51 69 / 08 52 69 / 08 53 69 / 08 54 69			
LoD 500			

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

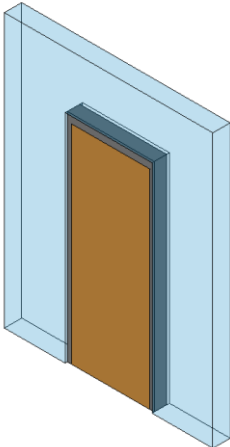
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Units are modeled based on specified location and nominal size. Outer geometry (profile) of window frame elements and glazing modeled in correct location. Operation is indicated.	Attachment method of window to structure. Embed elements. Backer rod and sealant.	Detailed frame extrusion profiles. Glazing sub-components (gaskets) Attachment components. End dam. Fasteners.

LoA



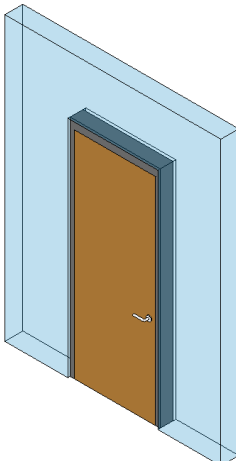
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	Simple representation of a door unit. Size, count, and location are approximate.		Units are modeled as a simple, monolithic component; or represented with simple frame and panel. Nominal unit size is provided.
Associated Masterformat Sections:			
01 83 16			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

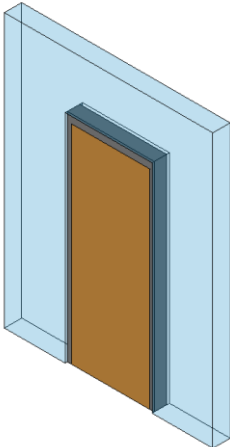
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	See Element Sections For Additional Information	

LoA



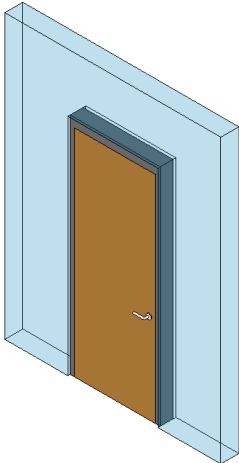
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	See B20		See B2050
Associated Masterformat Sections:			
08 32 00 / 08 42 00 / 08 42 26 / 08 42 29 / 08 42 33 / 08 42 36 / 08 43 29			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

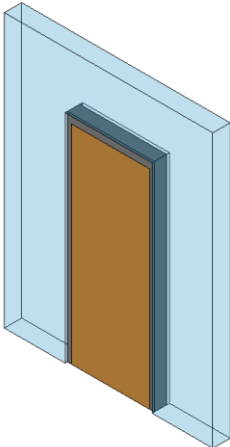
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	See Element Sections For Additional Information	
Entrance door assemblies modeled by type to include the following: 1. Specific door panels and frames (if applicable). 2. Operation is specified. Spatial requirements for operation may be modeled if required by BXP.	Major framing elements are modeled at jambs and head. Thresholds. Operation or mechanism enclosures are modeled. All connections and interfaces modeled including brackets and supports.	Complete mullion extrusion profiles Actual panel size dimensions.

LoA



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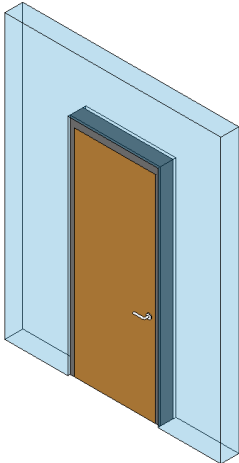


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	See B20		See B2050
Associated Masterformat Sections:			
08 10 00			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

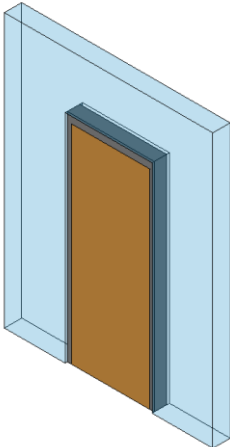
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	See Element Sections For Additional Information	
See B2050.10 Door hardware is modeled as specified.	See B2050.10	All connections and interfaces modeled including brackets, supports, sealants, and thresholds.

LoA



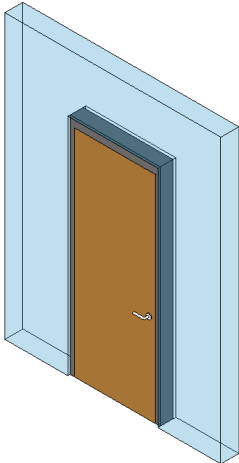
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	See B20		See B2050
Associated Masterformat Sections:			
: 08 33 00 / 08 36 00 / 08 36 13 / 08 36 16 / 08 36 19 / 08 36 23 / 08 34 16			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

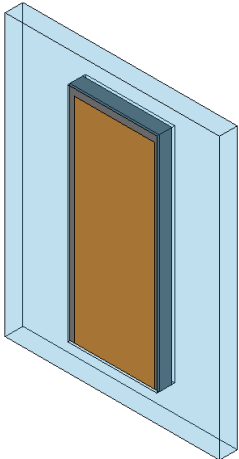
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Oversize door assemblies modeled by type to include the following: 1. Door panels with nominal dimensions. 2. Frames with nominal dimensions. 3. Clearance zones are modeled or accommodated by model checking software for operation of overhead doors (other than coiling doors). 4. Enclosures and motor housings are modeled with overall nominal dimensions.	Major framing elements in wall are modeled at jambs and head. Attachment elements are modeled	All connections and interfaces modeled including brackets, supports, sealants, and thresholds.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description	See B20		See B2050
Associated Masterformat Sections:			
08 33 00 / 08 35 16			
LoD 500			



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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Grille assemblies modeled by type to include the following: 1. Nominal size of unit. 2. Operation is specified.	Major framing elements are modeled at jams and head.	All connections and interfaces modeled including brackets, supports, sealants, and thresholds.

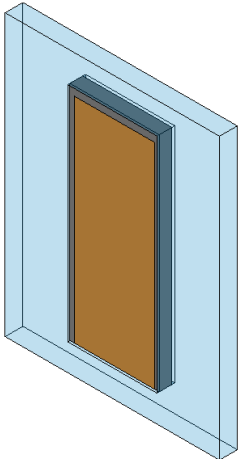
LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B20		See B2070
Associated Masterformat Sections:			
01 83 16 / 08 91 00			
LoD 500			

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Notes:

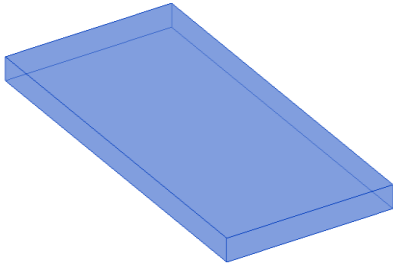
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Louver assembly modeled by type, indicative of area and location of intended louver/vent. Accurate frame and blade boundary areas. Opening for louver is cut from host wall.	Major framing elements are modeled at connection points. Connection points are modeled.	All connections and interfaces modeled including brackets, supports, and sealants.

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B30		See B3080
Associated Masterformat Sections:			
07 42 00 / 07 44 00 / 09 20 00 / 09 54 00 / 09 56 00			
LoD 500			

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Notes:

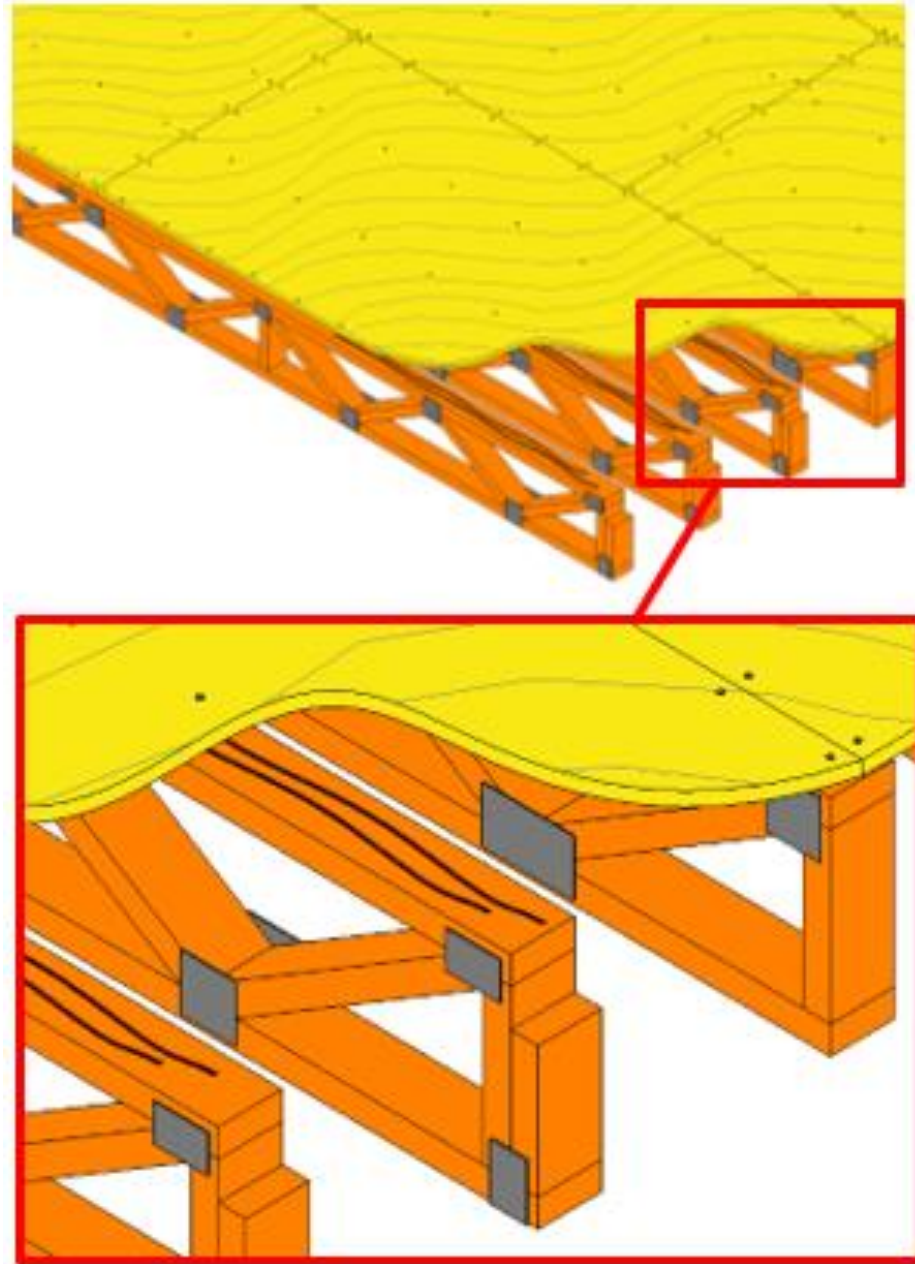
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Overall assembly modeled to specific system thickness including structural backing. Location of expansion or control joints indicated, but not modeled.	Face material modeled to specific thickness. Structural backing members including bracing/lateral framing/kickers are modeled. Expansion or control joints are modeled to indicate specific width.	Individual elements of face material are modeled. Structural backing members and all support members (kickers) are modeled including all connections. Expansion or control joints are modeled.

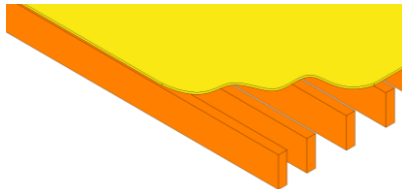
LoA



LoD 500

WOOD & TIMBER CONSTRUCTION



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 41 B1010.10-LOD-200 Floor Structural Frame (Wood Floor Trusses) From lkerd.com
Description	See B10		Element modeling to include: - Top chord or bottom chord bearing - Truss orientation - Approximate depth - Approximate width - Truss orientation - Approximate centerline location of individual trusses
Associated Masterformat Sections:			
06 11 00 / 06 13 26 / 06 17 53			
LoD 500			



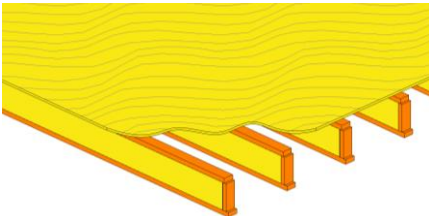
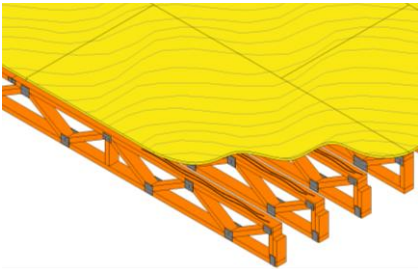
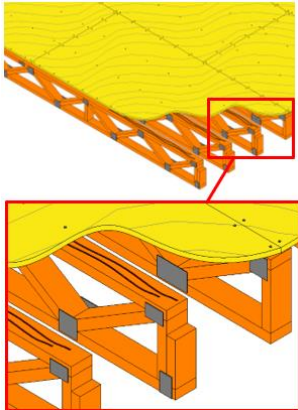
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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

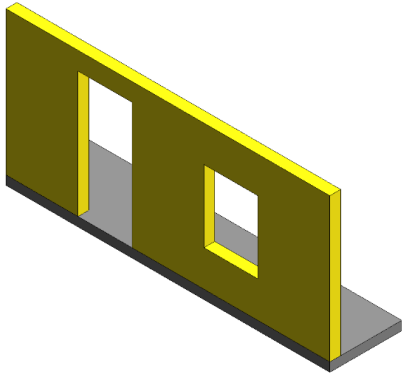
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 42 B1010.10-LOD-300 Floor Structural Frame (Wood Floor Trusses) From lkerd.com	 43 B1010.10-LOD-350 Floor Structural Frame (Wood Floor Trusses) From lkerd.com	 44 B1010.10-LOD-400 Floor Structural Frame (Wood Floor Trusses) From lkerd.com
Element modeling to include: - Truss size, depth, and material with sloping geometry - Spacing and end elevations - Support locations	Element modeling to include: - Actual final truss profile with accurate panel points - Bridging and lateral braces - Fire protection coating - Any miscellaneous framing pertaining the truss - Erection details for installation - Chord and web member section profiles are accurately defined - Truss layout in coordination with deck fasteners would be confirmed - Hold down locations for large bolts.	Element modeling to include: - Fasteners - Sealant - Truss plates and connection material - Nails and fasteners - Truss plates. - Deck patterns and joints

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 93 C1010.06-LOD-200 Interior Wall (Wood) From lkerd.com
Description	See C10		See C1010
Associated Masterformat Sections:			
10 22 00 / 01 84 13			
LoD 500			

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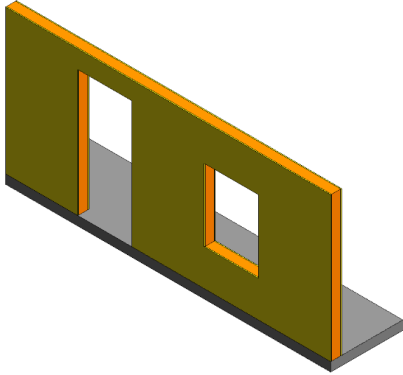
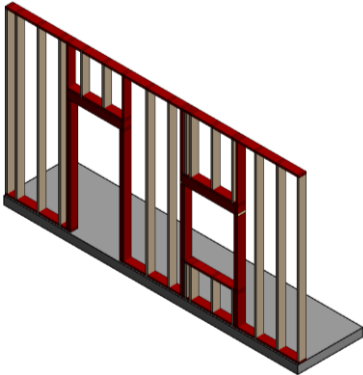
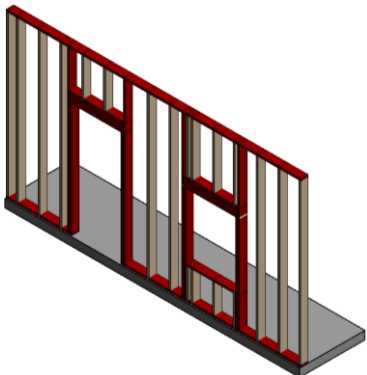
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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

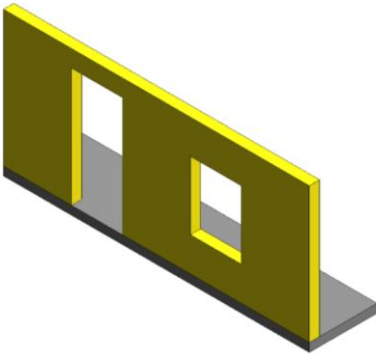
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 94 C1010.06-LOD-300 Interior Wall (Wood) From lkerd.com	 95 C1010.06-LOD-350 Interior Wall (Wood) From lkerd.com	 96 C1010.06-LOD-400 Interior Wall (Wood) From lkerd.com
See C1010	Wood framing is developed with sufficient elements to support detailed interface coordination with other systems such as MEP. All penetrations are modeled at actual rough-opening dimensions. Image notes: 1. Elements in red are critical wall support elements that cannot be easily cut for coordination of MEP opening through the walls. 2. Infill wood framing modeling may be omitted at this LOD if stated in the BXP. 3. Cladding and sheathing are not shown for clarity in this image.	Wood framing is developed with sufficient elements that support the fabrication of the wood framing system. Openings and penetrations through studs are modeled. Image notes: 1. Connection content is development in the wall elements. This includes but is not limited to fasteners, anchor rods, and other related hardware. 2. Cladding and sheathing are not shown for clarity in this image

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 67 B2010.06-LOD-200 Exterior Wall (Wood) From lkerd.com
Description	N/A		Generic wall objects separated by type of material (e.g. brick wall vs. terracotta).
Associated Masterformat Sections:			Approximate thickness of layer represented by a single assembly.
01 83 16			Layouts and locations still flexible.
LoD 500			

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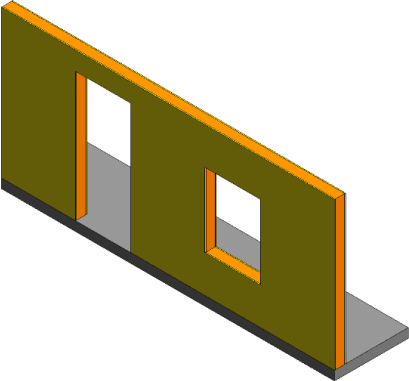
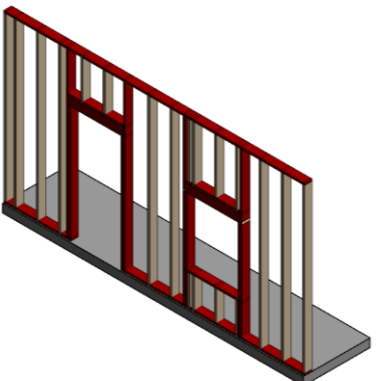
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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

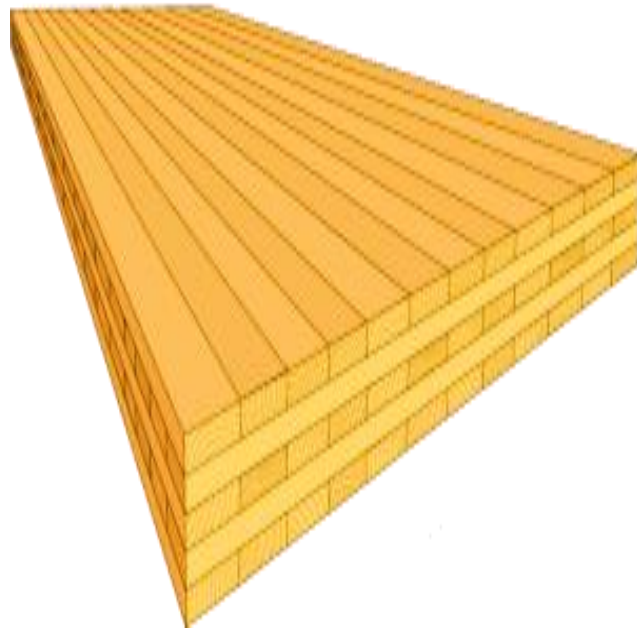
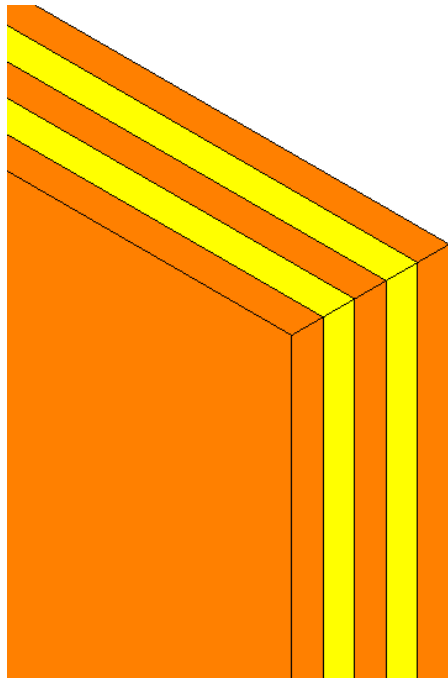
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 68 B2010.06-LOD-300 Exterior Wall (Wood) From lkerd.com	 69 B2010.06-LOD-350 Exterior Wall (Wood) From lkerd.com	 70 B2010.06-LOD-400 Exterior Wall (Wood) From lkerd.com
Specific wall modeled to actual dimensions.	Wood framing is developed with sufficient elements to support detailed interface coordination with other systems such as MEP.	
Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements.	All penetrations are modeled at actual rough-opening dimensions.	
Shear panels	Openings modeled with support framing around openings	
	Image notes: 1. Elements in red are critical wall support elements that cannot be easily cut for coordination of MEP opening through the walls. 2. Infill wood framing modeling may be omitted at this LOD if stated in the BXP. 3. Cladding and sheathing are not shown for clarity in this image.	

LoA



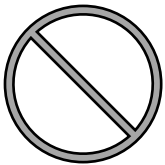
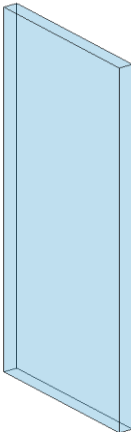
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WOOD MASS TIMBER

LoD 500

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	N/A		See basic framing members.
Associated Masterformat Sections:			
01 83 16			
LoD 500			



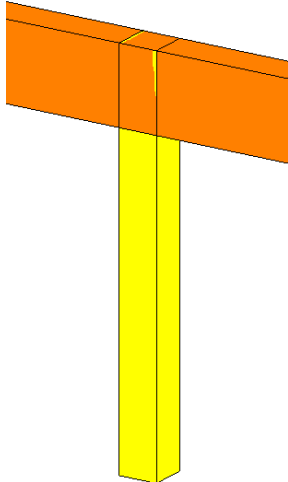
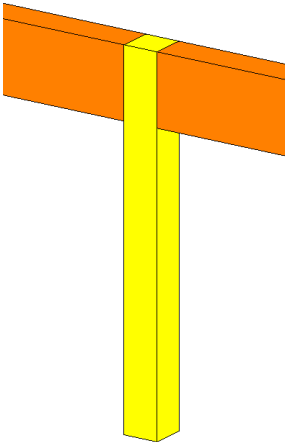
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Notes:

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

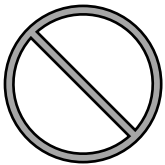
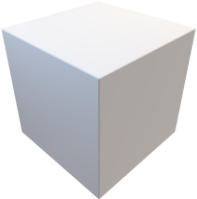
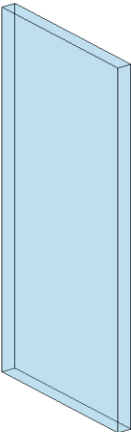
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Wood specifications Size	Connection locations.	Plys Connections

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	N/A		
Associated Masterformat Sections:			
01 83 16			
LoD 500			

VDCFORUM

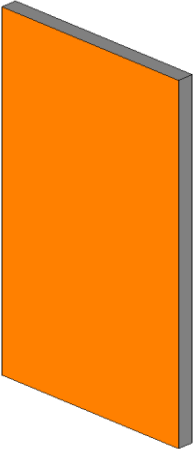
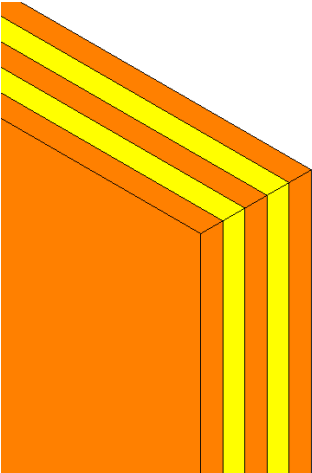
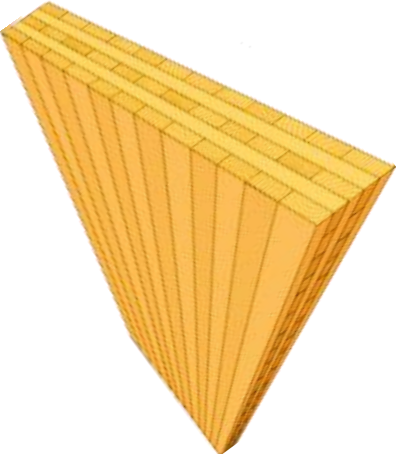
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Panel geometry.	CLT Layers Embed locations	CLT Fabrication detail

LoA



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LoA

ROOFING

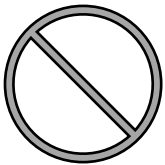
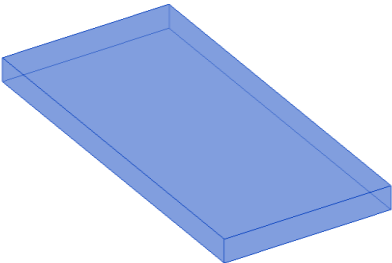
LoD 500



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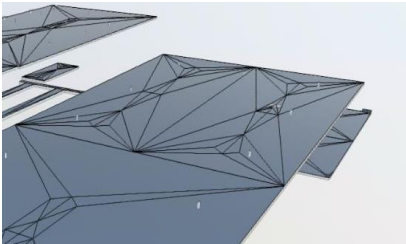
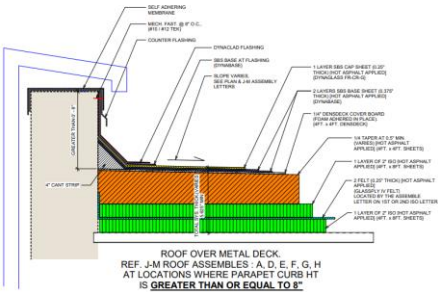


LoA

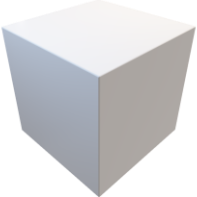
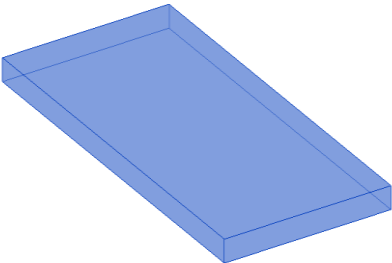
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B30		Generic element representing roof exterior skin
Associated Masterformat Sections:			
01 83 19			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		Not Commonly Modeled to Fabrication Level For Constructed Roof Systems.
Specific element representing roof insulation and exterior skin modeled to actual dimensions. Surface slopes (e.g. tapered insulation) are modeled to actual dimensions. Penetrations are modeled to nominal dimensions for major wall openings such as skylights, and large mechanical elements.	All penetrations are modeled at actual rough-opening dimensions. Flashing	



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B30		See Fundamental LOD Definitions
Associated Masterformat Sections:			
05 51 33 / 07 72 00 / 07 72 13 / 07 72 23 / 07 72 26 07 72 46 / 07 72 53			
LoD 500			



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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Ladders: Specific assemblies indicating length and width. Required access/clearance space is modeled or accommodated by model checking software. Walkways: Specific assemblies indicating length, width, and rail/guard height. Vents: Specific assemblies indicating roof opening size. Roof opening element is included. Required service access space is modeled or accommodated by model checking software.	Ladders: Specific assemblies indicating length, width, and attachment/anchoring members. Walkways: Specific assemblies indicating length, width, rail/guard height, and support/attachment/anchoring members. Vents: Specific assemblies indicating roof opening size and attachment/anchoring members if applicable.	See Fundamental LOD Definitions

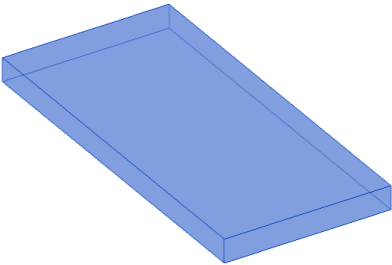
LoA



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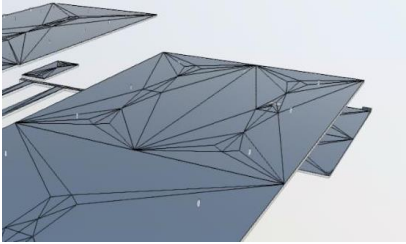
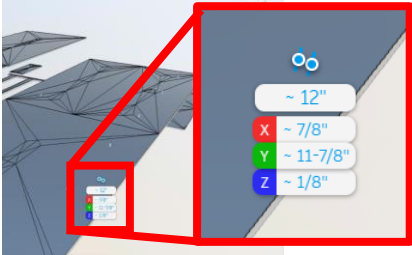
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B30		See B3040
Associated Masterformat Sections:			
07 10 00			
LoD 500			

LoA

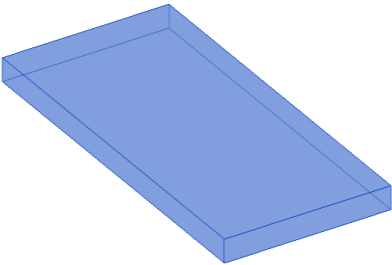
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300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		Not Commonly Modeled to Fabrication Level For Constructed Roof Systems.
Membrane assembly modeled by type to specified thickness. Major openings such as shafts and hatches are modeled	Individual material layers of membrane assembly are modeled separately. All openings and penetrations are modeled. Expansion joints are modeled indicating specific width	



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See B30		See B3040
Associated Masterformat Sections:			
07 76 00 / 32 13 00 / 32 14 00			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Wear surface system modeled by type to specified thickness/depth. Major openings such as shafts and hatches are modeled.	Individual system elements are modeled separately. Pedestals are modeled and located properly, if applicable. Expansion joints are modeled indicating specific width.	

LoA

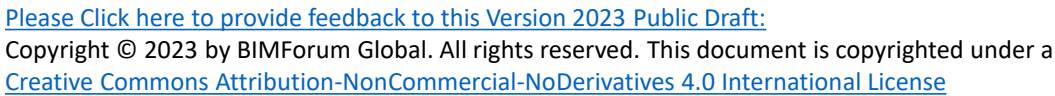


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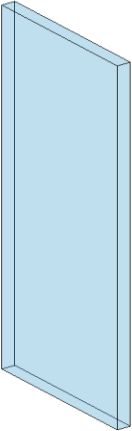
LoD 500



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300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1010
Associated Masterformat Sections:			
03 30 00 / 03 40 00 / 04 20 00 / 05 41 00 / 06 11 00 / 09 20 00 / 10 22 13			
LoD 500			

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300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Composite model assembly by type with overall thickness that accounts for framing and finish specified for the wall system. (Refer to LOD350 and LOD400 for individually modeled elements) Wall elements are modeled to specific layouts, locations, heights, and elevation profiles. Penetrations are modeled to nominal dimensions for major wall openings such as windows, doors, and large mechanical elements.	Structure and finish layers of partition assembly modeled as separate elements. All penetrations are modeled at actual rough-opening dimensions. Major framing elements such as king studs, kickers, diagonal bracing, and headers are modeled.	Element modeling to include: 1. Studs and tracks 2. Bracing 3. Insulation 4. Sheathing or wall boards 5. Openings/penetrations

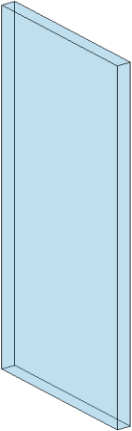
LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1010
Associated Masterformat Sections:			
08 43 00			
LoD 500			



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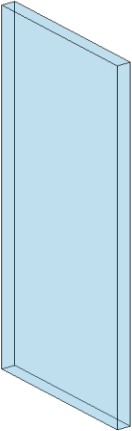
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Specified location and orientation of face of glass. Nominal face dimensions and thickness of glazing. Structural support systems of wall to be modeled. Spacing, location, size and orientation of mullions. Operable components defined (doors) and included in model	Mullion shapes and geometry defined. Actual anchorage layouts and types defined. Actual panel dimensions (including seating).	Complete mullion extrusion profiles. Interface details between wall systems (within) and wall and support systems.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	See C10		See C1010
Associated Masterformat Sections:			
01 84 13 / 01 84 13 / 10 22 33 / 10 22 36 / 10 22 39 / 10 22 43			
LoD 500			

LoA

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Operable partition system modeled to include spatial requirements for open/storage position and closed position. Spatial requirements for structure (overhead or below) to be modeled.	Major support elements (overhead or below) Mechanical connections	All assembly components including tracks, panels, hardware and supports.



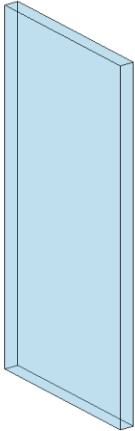
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See Element Sections For Additional Information



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1020
Associated Masterformat Sections:			
08 50 00			
LoD 500			



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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Element Sections For Additional Information		
Units are modeled based on specified location and nominal size. Outer geometry of window frame elements and glazing modeled. Operation is indicated. Non-graphic information associated with model element: - Aesthetic characteristics (finishes, glass types) - Performance characteristics (i.e. U-value, wind loading, blast resistance, structural, air, thermal, water, sound) - Functionality of the window (fixed, casement, double/single hung, awning/project out, pivot, sliding)	Attachment method of window to structure Embed geometry	Frame profiles Glazing sub-components (gaskets) Attachment components

LoA



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DOORS, GATES, ETC.

LoD 500



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BIMForum.Global Version 2023 LOD Specification Page 131

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1030
Associated Masterformat Sections:			
08 10 00			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Door assemblies modeled by type to include the following: 1. Specific door panels and frames (if applicable) 2. Operation is specified	Major framing elements are modeled at jambs and head in containing wall. Operation or mechanism enclosures are modeled, if applicable.	Actual frame/mullion extrusions. Actual panel size dimensions. All connections and interfaces modeled including brackets, supports, sealants, and thresholds.



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1030
Associated Masterformat Sections:			
08 33 00 / 08 33 13			
LoD 500			



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Coiling door assemblies modeled by type to include the following: 1. Door panels with nominal dimensions. 2. Frames with nominal dimensions. 3. Hardware set functionality and types included in non-graphic information. 4. Clearance zones for operation of overhead doors are modeled or accommodated by model checking software. 5. Enclosures and motor housings are modeled with overall nominal dimensions.	Major framing elements in wall are modeled at jambs and head. Other major structural support elements are modeled.	All connections and interfaces modeled including brackets, supports, sealants, and thresholds.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1030
Associated Masterformat Sections:			
LoD 500			

LoA



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1030
Associated Masterformat Sections:			
08 11 74 / 08 33 00 / 08 35 16			
LoD 500			



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Grille assemblies modeled by type to include the following: 1. Nominal size of unit. 2. Required openness provided as non-graphic information. 3. Operation is specified graphically.	Major framing elements are modeled at jams and head.	All connections and interfaces modeled including brackets, supports, sealants, and thresholds.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		Generic assembly that contains spatial allowance for support system and flooring material.
Associated Masterformat Sections:			
01 84 13 / 01 84 13 / 01 84 13 / 01 84 13 / 01 84 13 01 84 13 / 01 84 13 / 01 84 13 / 01 84 13			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		See C1060
Associated Masterformat Sections:			
09 69 00			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Overall flooring assembly modeled by type to specified thickness/depth. Major openings such as shafts are modeled.	Individual layers of assembly are modeled separately. All openings and penetrations are modeled. Expansion joints are modeled indicating specific width. Pedestals are modeled and located properly, if applicable.	All assembly components are modeled including frame, floor tiles, pedestals, and cross bracing.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description Associated Masterformat Sections: 01 84 13 / 01 84 13	Ceiling construction is represented in other composite objects such as floors or rooms; or, schematic model elements that are not distinguishable by type or material. Assembly depth/thickness and locations still flexible.		Generic assemblies indicative of overall scope and approximate thickness/system depth of suspended ceiling.
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C1070		See C1070
Associated Masterformat Sections:			
09 51 00 / 09 81 00			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Overall assembly modeled to specific system thickness including structural backing. Location of expansion or control joints indicated, but not modeled. Ceiling grid is shown as linework.	Ceiling suspension grid is modeled. Structural backing members including bracing/lateral framing/kickers are modeled. Expansion or control joints are modeled to indicate specific width.	All assembly components are modeled including tees, hangers, support structure, and tiles.



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C1070		See C1070
Associated Masterformat Sections:			
09 20 00 / 09 22 26 / 09 81 00			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Overall assembly modeled to specific system thickness including framing. Bulkheads Major penetrations are modeled.	Major bracing elements such as kickers are modeled.	All assembly components including furring channels, hangers, lath, plaster coats, and gypsum boards.



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C10		Generic model element representing approximate overall height and location of railing/handrail.
Associated Masterformat Sections:			
01 84 00 / 01 84 00 / 01 84 00 / 01 84 00 / 05 52 00 05 73 00 / 06 43 16 / 06 63 00 / 06 81 00			
LoD 500			

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Railing/handrail systems modeled by type to include: 1. All horizontal rails 2. All vertical posts/balusters	Mounting/attachment components	All assembly components including fasteners and supports.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	See C10		Generic model element that is indicative of approximate area and location of louver.
Associated Masterformat Sections:			
08 91 00 / 01 84 00			
LoD 500			



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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Louver assembly modeled by type, indicative of area and location of intended louver/vent. Accurate frame and blade boundary areas. Opening for louver is cut from host wall.	Rough opening is modeled in containing wall. Major framing elements are modeled at jambs and head. Connection points are modeled.	All connections and interfaces modeled including brackets, supports, and sealants.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	Non-graphic information attached to model elements providing assumptions that are not distinguishable by type or material Types, layouts and locations are still flexible. See Part II		Generic materials other than sheet goods and coatings by type (e.g. tile or paneling), approximate thickness represented by a single assembly.. Layouts, patterns and locations are still flexible
Associated Masterformat Sections:			
09 70 00 / 01 84 19 / 01 84 19 / 01 84 19 / 01 84 19 / 01 84	See C20		
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Single model element by type with overall thickness that accounts for finish materials based on specific types other than sheet goods and coatings (e.g. Tile type CT-1). Sheet goods and coatings may be specified in Part II related to interior partitions.	Individual materials are modeled as separate elements. Additional non-graphic information such as manufacturer and model number may be included.	Individual material pattern layouts,expansion/control joints, and finish edges to be modeled as separate elements.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See C20		Generic materials by type (e.g. tile or coatings), approximate thickness represented by a single assembly. Layouts, patterns and locations are still flexible
Associated Masterformat Sections:			
09 60 00 / 01 84 19			
LoD 500			

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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Single model element by type with overall thickness that accounts for materials based on specific types (e.g. Tile type CT-1).	Individual materials are modeled as separate elements Additional non-graphic information such as manufacturer and model number may be included.	Individual material pattern layouts, expansion/control joints, and finish edges to be modeled as separate elements.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description Associated Masterformat Sections: 01 85 00 / 14 00 00	Schematic model elements that are not distinguishable by type or material. Component sizes and locations still flexible.		
LoD 500			

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

LoA



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LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D10		See D1010
Associated Masterformat Sections:			
01 85 00 / 14 31 00			
LoD 500			

LoA

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Specific system elements modeled by type, including all path of travel zones. Including: 1. Truss Shape 2. Risers 3. Balustrade Type		

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D10		Generic representation of the material handling system envelope, including critical path of travel zones.
Associated Masterformat Sections:			
01 85 00			
LoD 500			

LoA



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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See D10	See D1050	Specific system elements modeled by type, including all path of travel/boom swing zones. Lay-down/pick-up zones are modeled.



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	See D10		See D1050
Associated Masterformat Sections:			
41 22 13			
LoD 500			

LoA

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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Specific system elements modeled by type, including all path of travel/boom swing zones.	Sizing adjusted to the actual manufacturer specifications.	All connections, supports, framing, and other supplementary components.
Lay-down/pick-up zones are modeled.	Guiding tracks/rails	
Major structural support elements modeled.	Service/access zones	
Crane Swing Radius	Connections to mechanical or electrical services	

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D10		See D1050
Associated Masterformat Sections:			
34 77 16			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
See Fundamental LOD Definitions	See Fundamental LOD Definitions	See Fundamental LOD Definitions



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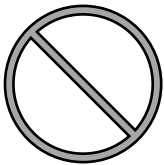
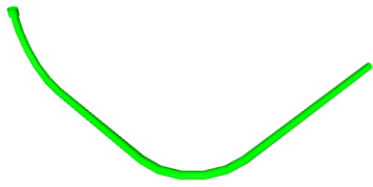
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LoD 500



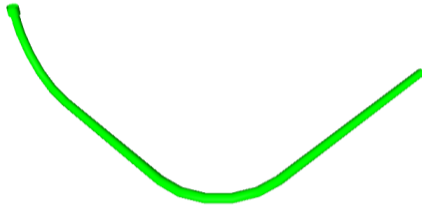
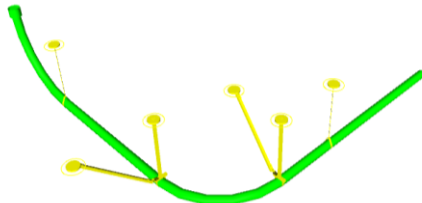
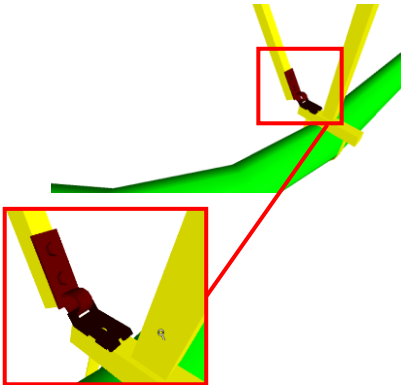
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 98 D1050.70-LOD-200 Pneumatic Tube Systems From lkerd.com
Description	Diagrammatic elements or quantitative call outs;		Generic elements; schematic layout with approximate size, shape, and location of equipment and tubing;
Associated Masterformat Sections:	Conceptual and/or schematic flow diagrams;		
14 92 00			
LoD 500			

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- Notes:**
- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
 - b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
 - c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 99 D1050.70-LOD-300 Pneumatic Tube Systems From lkerd.com	 100 D1050.70-LOD-350 Pneumatic Tube Systems From lkerd.com	 101 D1050.70-LOD-400 Pneumatic Tube Systems From lkerd.com
Modeled as design-specified elements; specified size, shape, spacing, and location of equipment and tubing.	Modeled as actual construction elements.	Supplementary components added to the model required for fabrication and field installation
Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all equipment and tubing are modeled or accommodated by model checking software.	Actual size, shape, spacing, and location/connections of equipment and tubing.	
Access/code clearance requirements modeled or accommodated by model checking software.	Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all equipment and tubing are or accommodated by model checking software.	
	Floor and wall penetrations modeled. actual access/code clearance requirements modeled or accommodated by model checking software.	

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PLUMBING

LoD 500



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description Associated Masterformat Sections: 01 86 16 / 22 00 00	Diagrammatic or schematic model elements. Conceptual and/or schematic layout/flow diagram. Design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.		
LoD 500			

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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

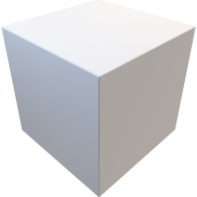
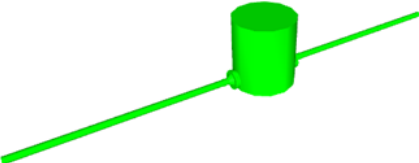
LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 107 D2010.20-LOD-200 Domestic Water Equipment From lkerd.com
Description	See D20		Schematic layout with approximate size, shape, and location of equipment; approximate access/code clearance requirements modeled;
Associated Masterformat Sections:			
22 11 23 / 22 31 00 / 22 32 00 / 22 33 00 / 22 34 00 / 22 35 00			
LoD 500			



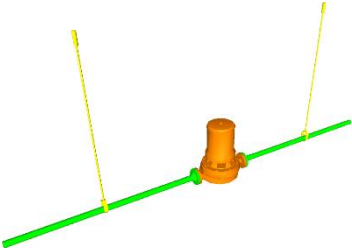
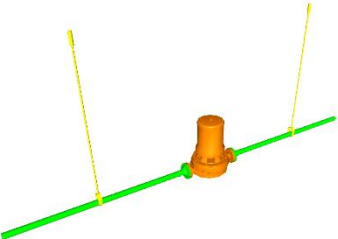
VDCForum.org

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

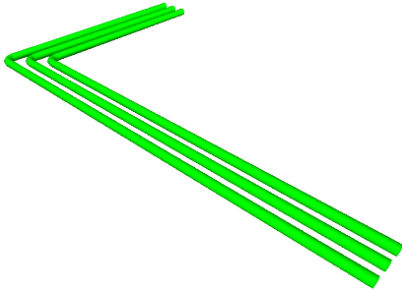
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 107 D2010.20-LOD-300 Domestic Water Equipment From lkerd.com	 107 D2010.20-LOD-350 Domestic Water Equipment From lkerd.com	 107 D2010.20-LOD-400 Domestic Water Equipment From lkerd.com
Modeled as design-specified size, shape, spacing, and location of equipment.	Modeled as actual construction elements size, shape, spacing, and location/connections of equipment.	See D2010.10
Approximate allowances for spacing and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment.	Actual size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment.	
Access/code clearance requirements modeled.	Actual access/code clearance requirements modeled.	

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 111 D2010.40-LOD-200 Domestic Water Piping From lkerd.com
Description	Diagrammatic or schematic model elements.		Schematic layout with approximate size, shape, and location of mains and risers.
Associated Masterformat Sections:	Conceptual and/or schematic flow diagrams.		Shaft requirements modeled.
22 11 16 / 22 11 19	Design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.		
LoD 500			



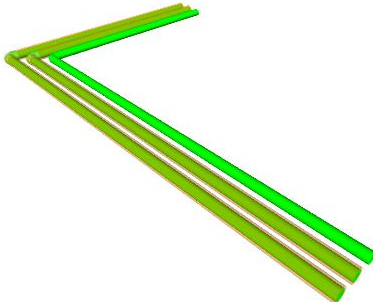
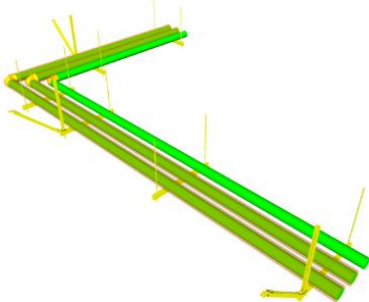
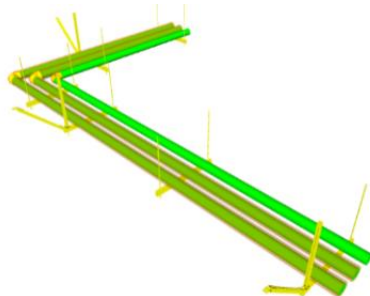
VDCForum.org

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

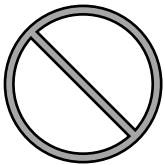
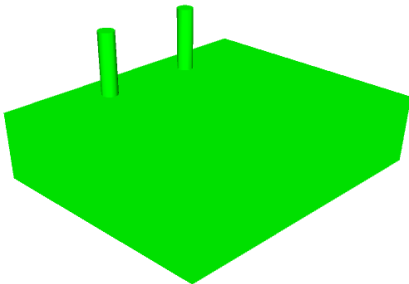
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 111 D2010.40-LOD-300 Domestic Water Piping From lkerd.com	 111 D2010.40-LOD-350 Domestic Water Piping From lkerd.com	 111 D2010.40-LOD-400 Domestic Water Piping From lkerd.com
Modeled as design-specified size, shape, spacing, and location of pipe, valves, fittings, and insulation for risers, mains, and branches.	Modeled as actual construction elements.	See D2010.10
Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches.	Actual size, shape, spacing, and location/connections of pipe, valves, fittings, and insulation for risers, mains, and branches.	
Access/code clearance requirements modeled.	Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches; actual floor and wall penetration elements modeled.	
	Actual access/code clearance requirements modeled.	

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 115 D2010.60-LOD-200 Plumbing Fixtures From lkerd.com
Description	See D20		Schematic layout with approximate size, shape, and location of fixtures; carrier and wall width requirements modeled;
Associated Masterformat Sections:			
22 00 00 (See caption on sheet for full list of Master Format References)			
LoD 500			



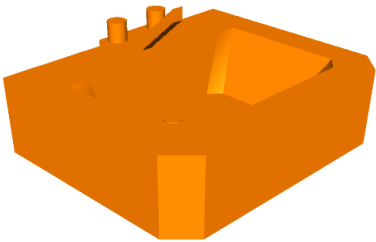
VDCForum.org

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 115 D2010.60-LOD-300 Plumbing Fixtures From lkerd.com	 115 D2010.60-LOD-350 Plumbing Fixtures From lkerd.com	 115 D2010.60-LOD-400 Plumbing Fixtures From lkerd.com
Modeled as design-specified size, shape, spacing, and location of fixtures.	Modeled as actual construction elements size, shape, spacing, and location/connections of fixtures/carriers.	See D2010.10
Approximate allowances for spacing and clearances required for all specified supports that are to be utilized in the layout of all fixtures.	Actual size, shape, spacing, and clearances required for all supports that are utilized in the layout of all fixtures.	
Access/code clearance requirements modeled.	Actual access/code clearance requirements modeled.	

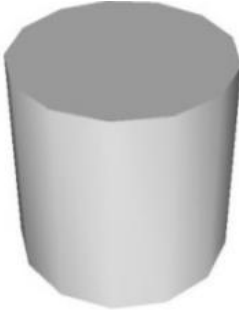
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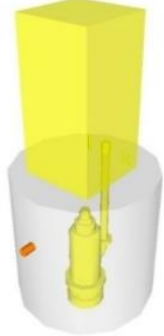
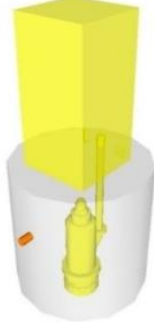
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 119 D2020.10-LOD-200 Sanitary Sewerage Equipment From lkerd.com
Description	See D20		Schematic layout with approximate size, shape, and location of equipment;
Associated Masterformat Sections:			
22 13 23 / 22 13 26 / 22 13 29 / 22 13 33 / 22 13 36 22 13 43 / 22 13 53			
LoD 500			

Notes:

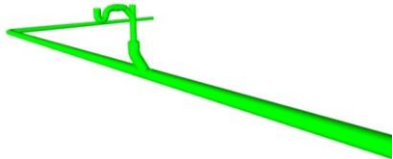
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 119 D2020.10-LOD-300 Sanitary Sewerage Equipment From lkerd.com	 119 D2020.10-LOD-350 Sanitary Sewerage Equipment From lkerd.com	 119 D2020.10-LOD-400 Sanitary Sewerage Equipment From lkerd.com
Modeled as design specified size, shape, spacing, and location of equipment.	Actual size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment.	Supplementary components added to the model required for fabrication and field installation
Approximate allowances for spacing and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment are modeled.	Actual access/code clearance requirements modeled.	
Access/code clearance requirements modeled.		



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 123 D2020.30-LOD-200 Sanitary Sewerage Piping From lkerd.com
Description	See D20		Schematic layout with approximate size, shape, and location of mains and risers; shaft requirements modeled;
Associated Masterformat Sections:			
22 13 13 / 22 13 16 / 22 13 19 / 22 05 73 / 22 05 76			
LoD 500			



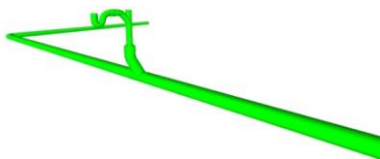
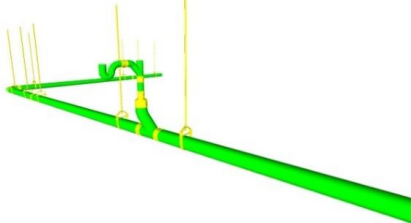
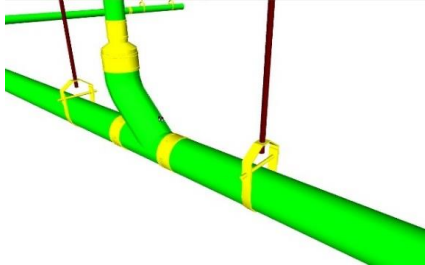
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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 123 D2020.30-LOD-300 Sanitary Sewerage Piping From lkerd.com	 123 D2020.30-LOD-350 Sanitary Sewerage Piping From lkerd.com	 123 D2020.30-LOD-400 Sanitary Sewerage Piping From lkerd.com
Modeled as design-specified size, shape, spacing, location, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches.	Modeled as actual construction elements.	See D2020.10
Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches.	Actual size, shape, spacing, location, connections, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches.	
Access/code clearance requirements modeled	Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches.	
	Actual floor and wall penetration elements modeled.	
	Actual access/code clearance requirements modeled	

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D20		See D2010
Associated Masterformat Sections:			
01 86 16 / 22 14 00			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

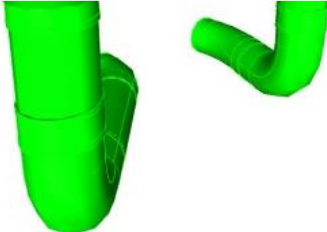
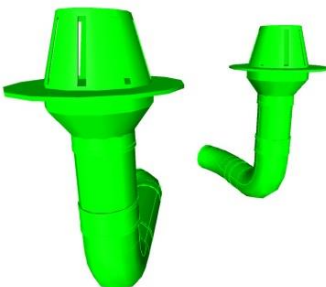
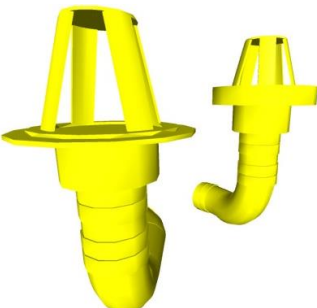
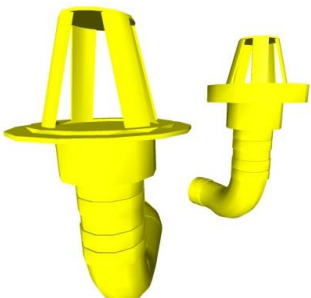


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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}	VDCFORUM VDCForum.org Notes: a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling. b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project. c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,		
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 135 D2030.30-LOD-200 Facility Stormwater Drains From lkerd.com	 135 D2030.30-LOD-300 Facility Stormwater Drains From lkerd.com	 135 D2030.30-LOD-350 Facility Stormwater Drains From lkerd.com	 135 D2030.30-LOD-400 Facility Stormwater Drains From lkerd.com
Description Associated Masterformat Sections: 22 14 26	See D20		Schematic layout with approximate size, shape, and location of components.			See D2030.10
LoD 500						

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D20		Schematic layout with approximate size, shape, and location of mains and risers; shaft requirements modeled;
Associated Masterformat Sections:			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D20		See D2060
Associated Masterformat Sections:			
01 86 16 / 22 61 00 / 22 61 13 / 22 61 19			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		139 D2060.10-LOD-400 Compressed-Air Systems From lkerd.com
Modeled as design-specified size, shape, spacing, location, and slope of equipment/pipe, valves, fittings, and insulation for risers, mains, and branches. Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, location, connections, and slope of equipment/pipe, valves, fittings, and insulation for risers, mains, and branches. Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. Actual access/code clearance requirements modeled. Actual floor and wall penetration elements modeled.	Supplementary components added to the model required for fabrication and field installation.



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MECHANICAL (HVAC)

LoD 500



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LoA

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D30		See D3010
Associated Masterformat Sections:			
23 12 00 / 23 12 13 / 23 12 16			
LoD 500			



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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of equipment. Approximate allowances for spacing and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location/connections of equipment; actual size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. Actual access/code clearance requirements modeled.	See D3010.10

LoA



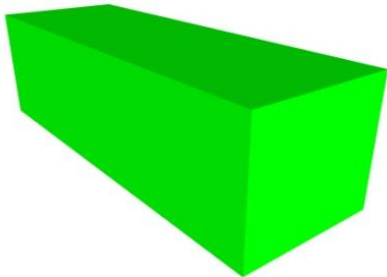
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LoA

- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
- b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
- c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions.

From lkerd.com

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 155 D3030.10-LOD-200 Central Cooling From lkerd.com
Description	See D30		See D3030
Associated Masterformat Sections:			
23 60 00 / 23 61 00 / 23 62 00 / 23 63 00 / 23 64 00 / 23 65 00			
LoD 500			

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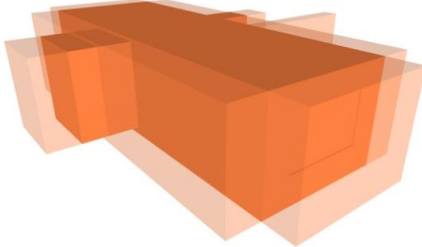
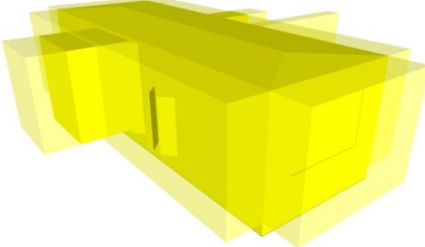
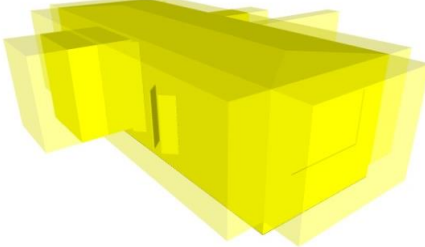
VDCForum.org

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 155 D3030.10-LOD-300 Central Cooling From lkerd.com	 155 D3030.10-LOD-350 Central Cooling From lkerd.com	 155 D3030.10-LOD-400 Central Cooling From lkerd.com
Modeled as design-specified size, shape, spacing, and location of equipment.	Modeled as actual size, shape, spacing, and location/connections of equipment;	Supplementary components added to the model required for fabrication and field installation.
Approximate allowances for spacing and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment.	actual size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment.	
Access/code clearance requirements modeled.	Actual access/code clearance requirements modeled.	

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LoA

Supplementary components added to the model required for fabrication and field installation.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D30		See D3050
Associated Masterformat Sections:			
01 86 19 / 23 73 00 / 23 74 00 / 23 75 00 / 23 30 00 / 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 36 00 / 23 37 00 / 23 40 00 / 23 41 00 / 23 42 00 / 23 43 00 / 23 84 00			
LoD 500			

LoA

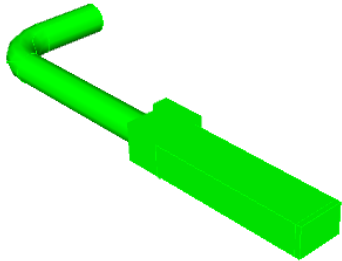
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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of duct, dampers, fittings, and insulation for risers, mains, and branches. Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location/connections of duct, dampers, fittings, and insulation for risers, mains, and branches. Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. Actual floor and wall penetration elements modeled. Actual access/code clearance requirements modeled.	See D3050.10



LoA

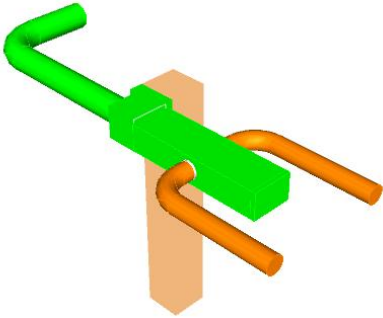
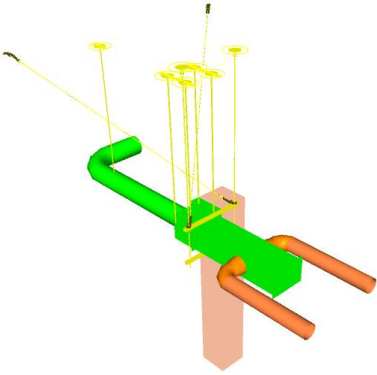
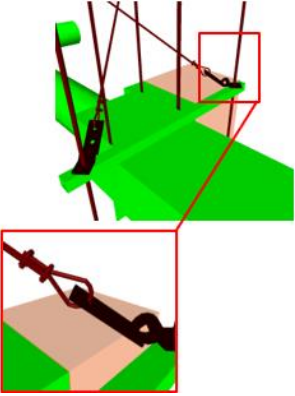
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 167 D3060.10-LOD-200 Supply Air From lkerd.com
Description	See D30		See D3060
Associated Masterformat Sections:			
23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 36 00 / 23 37 00			
LoD 500			

Notes:

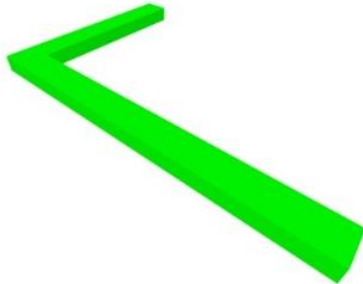
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 167 D3060.10-LOD-300 Supply Air From lkerd.com	 167 D3060.10-LOD-350 Supply Air From lkerd.com	 167 D3060.10-LOD-400 Supply Air From lkerd.com
Modeled as design-specified size, shape, spacing, and location of duct, dampers, fittings, and insulation for risers, mains, and branches.	Modeled as actual size, shape, spacing, and location/connections of duct, dampers, fittings, and insulation for risers, mains, and branches.	Supplementary components added to the model required for fabrication and field installation.
Approximate specified allowances for spacing and clearances required for all hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches.	Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches; actual floor and wall penetration elements modeled.	
Access/code clearance requirements modeled.	Actual access/code clearance requirements modeled.	



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 <i>D3060.30-LOD-200 Exhaust Air</i> From lkerd.com
Description	See D30		See D3060
Associated Masterformat Sections:			
23 35 00 / 23 35 13.13 / 23 35 16 / 23 38 00 / 23 38 13 / 23 38 16 / 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 37 00			
LoD 500			

LoA

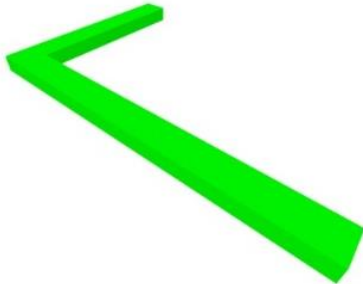
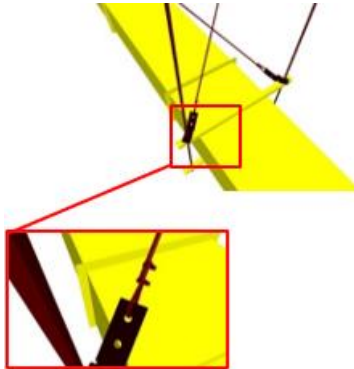
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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 <i>D3060.30-LOD-300 Exhaust Air</i> From lkerd.com	 <i>D3060.30-LOD-350 Exhaust Air</i> From lkerd.com	 <i>D3060.30-LOD-400 Exhaust Air</i> From lkerd.com
Modeled as design-specified size, shape, spacing, location, duct slope (if required), dampers, fittings, insulation for risers, mains, and branches. Approximate specified allowances for spacing and clearances required for all hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, location, and slope (if required)/connections of duct, dampers, fittings, and insulation for risers, mains, and branches. Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches; actual floor and wall penetration elements modeled. Actual access/code clearance requirements modeled.	See D3060.10

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D30		See D3070
Associated Masterformat Sections:			
23 83 13 / 23 83 16			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of supplementary components. Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all supplementary components. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location/connections of supplementary components. Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all supplementary components. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

FIRE PROTECTION

LoD 500



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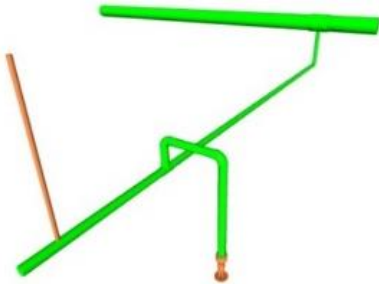


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	Diagrammatic or schematic model elements;		Approximate geometry.
Associated Masterformat Sections:	Conceptual and/or schematic layout/flow diagram;		

LoD 500

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Modeled as design-specified size, shape, spacing, and location of pipe/slope (if required)/valves/fittings/insulation for risers, mains, and branches/standpipes. Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches/standpipes. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location/ slope (if required)/connections of pipe, valves, fittings, and insulation for risers, mains, and branches/standpipes. Actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches/standpipes. Actual floor and wall penetration elements modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LoA



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- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
- b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
- c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

400^{b,c}

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D40		See D4030
Associated Masterformat Sections:			
10 44 13			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of components. Approximate allowances for spacing and clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all components. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location/connections of components. actual size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all components. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.



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ELECTRICAL

LoD 500



- a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
- b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
- c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions.

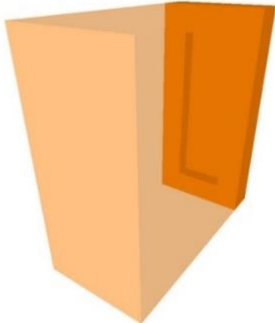
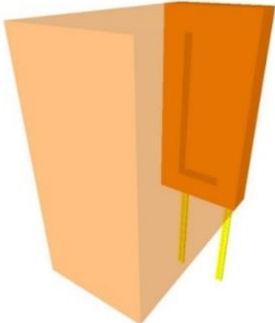
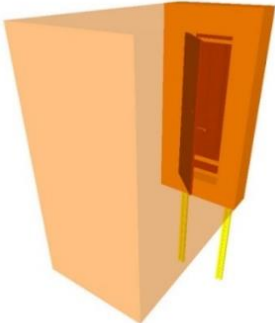
From lkerd.com

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5020
Associated Masterformat Sections:			
26 21 00 / 26 16 00 / 26 11 00 / 26 12 00 / 26 22 00 / 26 13 00 / 22 23 00 / 26 18 00 / 22 28 00			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 183 D5020.10-LOD-300 Electrical Service Entrance From lkerd.com	 183 D5020.10-LOD-350 Electrical Service Entrance From lkerd.com	 183 D5020.10-LOD-400 Electrical Service Entrance From lkerd.com
Modeled as design-specified size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of equipment and associated components. Actual size, shape, spacing, and location for supports and seismic control. Actual size, shape, and location/connections of equipment and support structure/pads. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.



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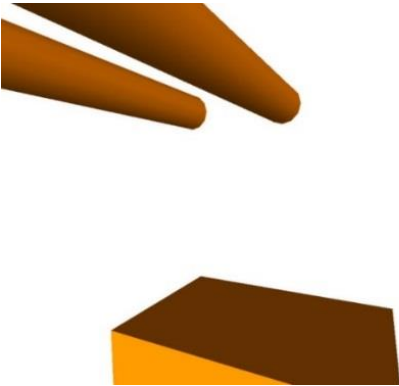
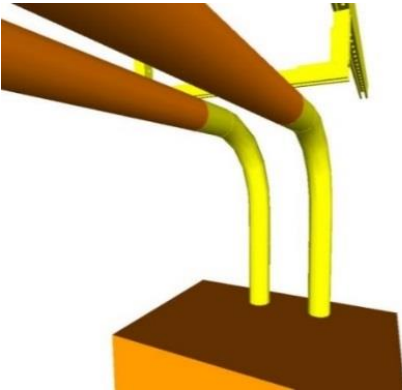
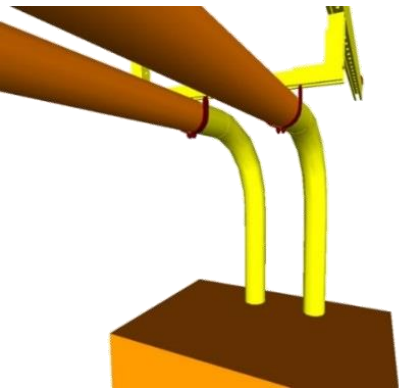
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5020
Associated Masterformat Sections:			
26 20 00 / 26 24 00 / 26 24 13 / 26 24 16 / 26 24 19 / 26 25 00 / 26 27 00 / 26 27 16 / 26 05 33 / 26 05 43 / 26 05 36 / 26 05 13			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 186 D5020.30-LOD-300 Power Distribution From lkerd.com	 186 D5020.30-LOD-350 Power Distribution From lkerd.com	 186 D5020.30-LOD-400 Power Distribution From lkerd.com
Modeled as design-specified size, shape, spacing, and location of raceways, boxes, enclosures, and equipment. Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, and enclosures. Actual size, shape, spacing, and location for supports and seismic control. Actual size, shape, and location/connections of equipment and support structure/pads. Actual floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5020
Associated Masterformat Sections:			
26 05 26 / 26 05 33 / 26 05 13			
LoD 500			



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served. Approximate allowances for spacing and clearances required for all specified hangers, supports, and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served. Actual size, shape, spacing, and location for supports and seismic control. Actual floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LoA



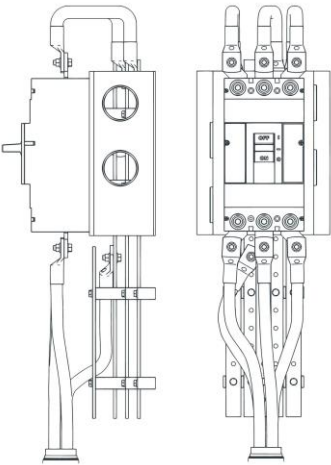
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5020
Associated Masterformat Sections:			
05 45 16 / 26 05 00 / 26 05 26 / 26 05 29 / 26 05 33 / 26 05 36 / 26 05 46 / 26 05 48 / 26 05 53 / 26 05 83 / 26 09 00			
LoD 500			

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
1. Modeled as design-specified size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served. 2. Approximate allowances for spacing and clearances required for all specified hangers, supports, and seismic control. 3. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served. Actual size, shape, spacing, and location for supports and seismic control. Actual floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LoA



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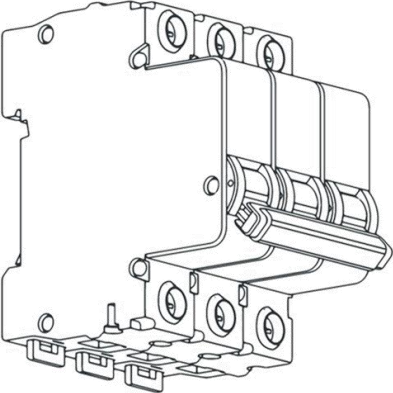


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		Schematic layout with approximate size, shape, and location of equipment.
Associated Masterformat Sections:			
01 86 26			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		



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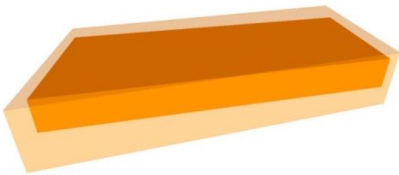
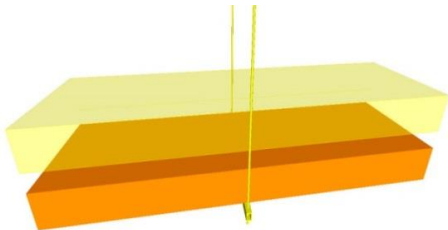


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5030
Associated Masterformat Sections:			
26 05 33 / 26 05 43 / 26 05 36 / 26 05 19			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 189 D5030.10-LOD-300 Branch Wiring System From lkerd.com	 189 D5030.10-LOD-350 Branch Wiring System From lkerd.com	
Modeled as design-specified size, shape, spacing, and location of raceways, boxes, and enclosures. Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, enclosures. Actual size, shape, spacing, and location for supports and seismic control. Actual floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5030
Associated Masterformat Sections:			
26 27 26			
LoD 500			

LoA

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of outlet boxes and devices. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of outlet boxes and devices. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5030
Associated Masterformat Sections:			
05 45 16 / 26 05 00 / 26 05 26 / 26 05 29 / 26 05 33 / 26 05 36 / 26 05 48 / 26 05 53 / 26 05 83 / 26 09 00			
LoD 500			

LoA

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of outlet boxes and devices. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of outlet boxes and devices. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		Schematic layout with approximate size, shape, and location of equipment.
Associated Masterformat Sections:			
LoD 500			

LoA



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}



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LIGHTING

LoD 500



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5040
Associated Masterformat Sections:			
6 09 23 / 26 09 26 / 26 09 33 / 26 09 36 / 26 09 43 / 26 09 61			
LoD 500			

LoA



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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of enclosures, equipment, and devices. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of enclosures, equipment, and control devices. Actual size, shape, and location/connections of equipment and control devices. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5040
Associated Masterformat Sections:			
26 05 33 / 26 05 43 / 26 05 36 / 26 05 19 / 26 27 26			
LoD 500			

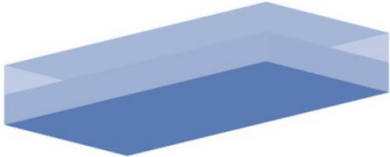
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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

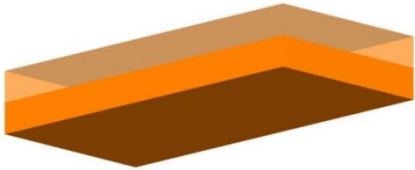
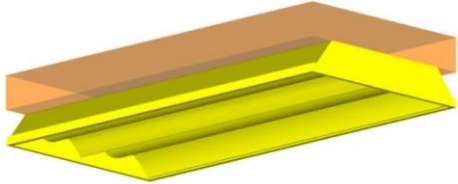
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of raceways, boxes, and enclosures to fixture locations. Approximate allowances for spacing and clearances required for all specified hangers, supports, and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, and enclosures to fixture locations. Actual size, shape, spacing, and location for supports and seismic control. Actual floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5040
Associated Masterformat Sections:			
26 50 00 / 26 51 00 / 26 52 00 / 26 53 00 / 26 54 00 / 26 55 00 / 26 55 23 / 26 55 29 / 26 55 33 / 26 55 36 / 26 55 39 / 26 55 53 / 26 55 59 / 26 55 61 / 26 55 63 / 26 55 70			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 191 D5040.50-LOD-300 Lighting Fixtures From lkerd.com	 191 D5040.50-LOD-350 Lighting Fixtures From lkerd.com	
Modeled as design-specified size, shape, spacing, and location of lighting fixtures. Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of lighting fixtures. Actual size, shape, spacing, and location for supports and seismic control. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5010
Associated Masterformat Sections:			
27 21 00 / 27 21 13 / 27 21 16 / 27 21 29 / 27 21 33			
LoD 500			



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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of equipment and associated components. Actual size, shape, spacing, and location for supports and seismic control. Actual size, shape, and location/connections of equipment and support structure/pads. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5010
Associated Masterformat Sections:			
27 22 00 / 07 22 13 / 07 22 16 / 07 22 19 / 07 22 23 / 07 22 26 / 07 22 29			
LoD 500			



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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of equipment and associated components. Actual size, shape, spacing, and location for supports and seismic control. Actual size, shape, and location/connections of equipment and support structure/pads. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See D50		See D5010
Associated Masterformat Sections:			
27 24 00 / 27 24 13 / 27 24 26 / 27 24 19 / 27 24 23 / 27 24 26 / 27 24 29			
LoD 500			

LoA

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of equipment and associated components. Actual size, shape, spacing, and location for supports and seismic control. Actual size, shape, and location/connections of equipment and support structure/pads. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.



LoA

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See E10		See E1010
Associated Masterformat Sections:			
11 11 00 / 11 11 19 / 11 11 23 / 11 11 26			
LoD 500			

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of equipment and associated components. Actual size, shape, spacing, and location for supports and seismic control. Actual size, shape, and location of service connections and support structure/pads. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description Associated Masterformat Sections: 12 00 00 / 01 87 16	A schematic model element or symbol that is not distinguishable by type or material. Types, layouts, and locations are still flexible.		
LoD 500			

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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See E20		Generic model elements with approximate nominal size. Placement and quantity remains flexible.
Associated Masterformat Sections:			
LoD 500			



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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

LoA



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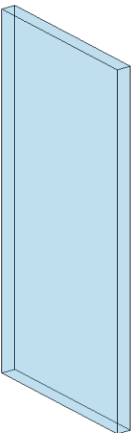
FIXED ART

LoD 500



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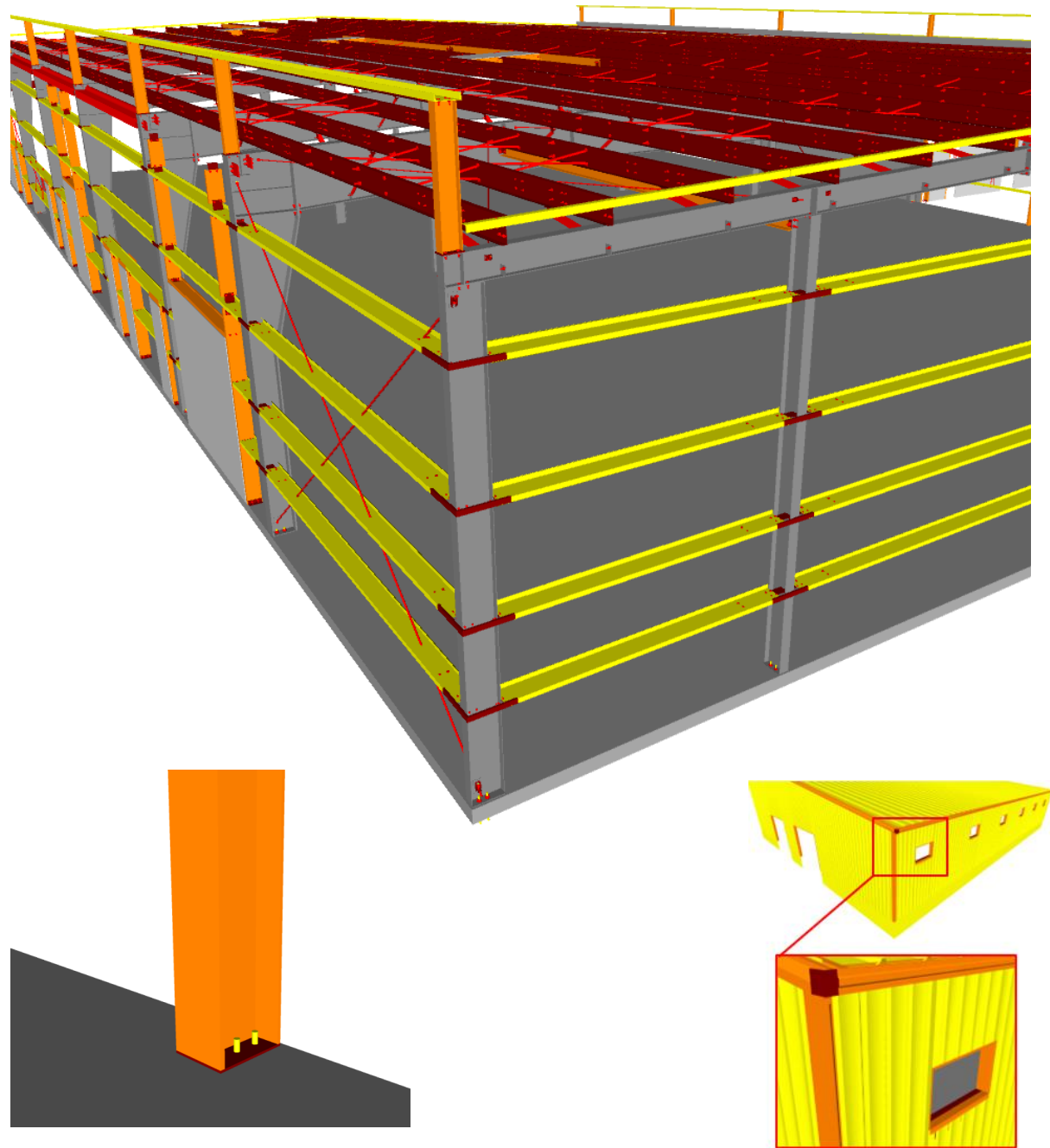
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See E20		See E2010
Associated Masterformat Sections:			
12 10 00 / 12 11 00 / 12 12 00 / 12 12 23 / 12 12 26 / 12 14 00 / 12 17 00 / 12 19 00			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Model Geometry Varies By Object Type		
Modeled types with specific dimensions, locations, and quantities.	Include any applicable service or installation clearances. Include any applicable support and connection points.	Supplementary components added to the model required for fabrication and field installation.

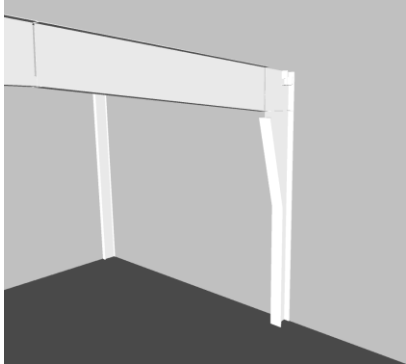


LoD 500

METAL BUILDING SYSTEMS



LoA

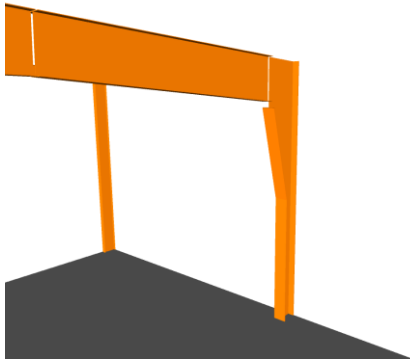
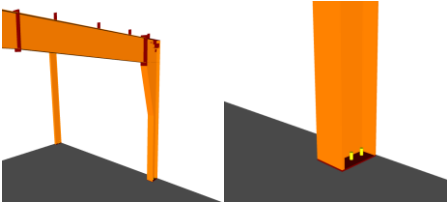
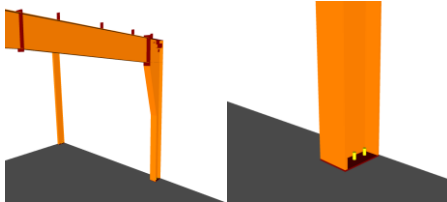
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 194 F1020.40-LOD 200 Metal Building Systems - Primary Framing From lkerd.com
Description	See F1020.40	See F1020.40	Element modeling to include: - Primary frame, approximate member size and location per defined structural grids. - Bracing, approximate member size and location.
Associated Masterformat Sections:			

13 34 00 / 01 88 13 / 13 34
13 / 13 34 16 / 13 34 19 /
13 34 56



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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 195 F1020.40-LOD 300 Metal Building Systems - Primary Framing From lkerd.com	 196 F1020.40-LOD 350 Metal Building Systems - Primary Framing From lkerd.com	 197 F1020.40-LOD 400 Metal Building Systems - Primary Framing From lkerd.com
Element modeling to include: - Primary frame, specific member size and location per defined structural grids. - Bracing, specific member size and location.	Element modeling to include: - Actual elevations and locations of connections. - Main elements of connections (bolts, places, stiffeners, etc.). - Any miscellaneous steel (mill secondary framing, equipment supports, etc.).	Element modeling to include: - Welds - Reinforcement plates - Coping of members - Bolts, nuts, washers, etc. - Holes, slots, etc., including holes for future element attachments - All assembly elements

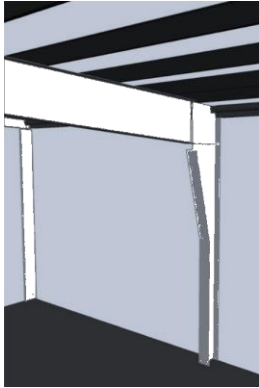
LoD 500

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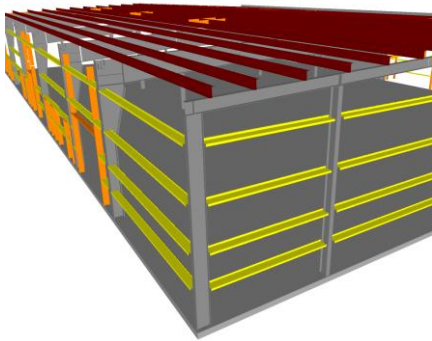
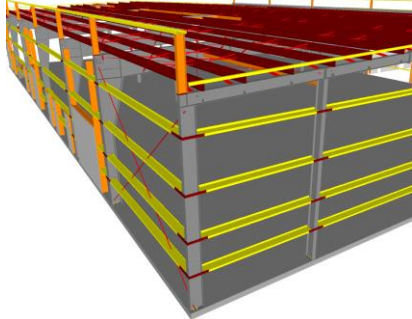
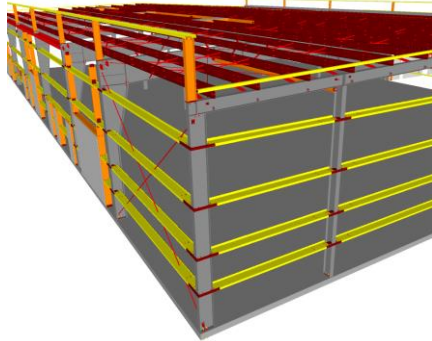
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 198 F1020.40-LOD 200 Metal Building Systems - Secondary Framing From lkerd.com
Description	See F1020.40	See F1020.40	Generic mass of special structure with system typically noted with a design narrative for conceptual pricing. Generic open wall conditions identified (i.e., open for material by others, open for passage, etc.) Approximate overall depth and extent represented by secondary roof and wall framing members.
Associated Masterformat Sections:			
13 34 00 / 01 88 13 / 13 34 13 / 13 34 16 / 13 34 19 / 13 34 56			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

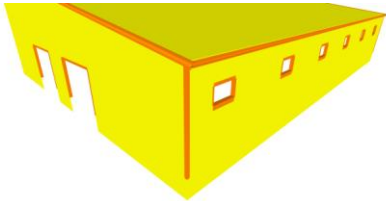
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 199 F1020.40-LOD 300 Metal Building Systems - Secondary Framing From lkerd.com	 200 F1020.40-LOD 350 Metal Building Systems- Secondary Framing From lkerd.com	 201 F1020.40-LOD 400 Metal Building Systems - Secondary Framing From lkerd.com
Element modeling to include: 1. Secondary roof and wall framing members, specific size and location (spacing and elevations). 2. Overall depth and end seat depth for open web members.	Element modeling to include: 1. Nested members 2. Connections for member bracing 3. Clips joining secondary framing members 4. Large elements of typical connections applied to all secondary steel connections such as girt to column, purlin to rafter, jamb to girt, header to jamb, etc. 5. Secondary angles, including sheeting angles and rake angles 6. Base attachment members 7. Any miscellaneous secondary steel members with correct orientation, i.e. canopies, parapets, door framing, etc. 8. For open web members, see B1010.10.60	Element modeling to include: 1. Welds 2. Bolts, nuts, washers, screws, and fasteners 3. Coping of members 4. Holes cut for bracing 5. Nested member attachments 6. All assembly elements 7. For open web members, see B1010.10.60

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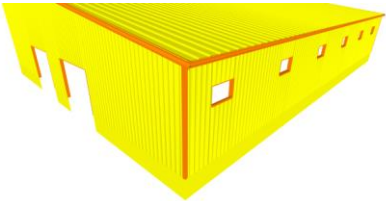
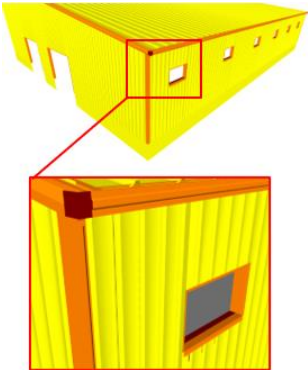
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 202 F1020.40-LOD 200 Metal Building Systems –Cladding and Exterior Trim From lkerd.com
Description	See F1020.40	See F1020.40	Element modeling to include: 1. Secondary roof and wall framing members, approximate size and location.
Associated Masterformat Sections:			
13 34 00 / 01 88 13 / 13 34 13 / 13 34 16 / 13 34 19 / 13 34 56			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 202 F1020.40-LOD 300 Metal Building Systems –Cladding and Exterior Trim From lkerd.com	 202 F1020.40-LOD 350 Metal Building Systems –Cladding and Exterior Trim From lkerd.com	Element modeling to include fabrication level information: 1. Panel: Individual panel objects, with actual profile shown, positioned accurately within the building plane boundary and shown at installed length. 2. Fasteners at critical locations 3. Closures 4. Trim: Minor trims (end caps, transition pieces, etc.) are shown accurately. 5. Attachment or accessories (fasteners, etc.) shown at critical locations. Note: Other non-graphic information may be included such as: Additional material and its installation instructions required for proper installation. Mark identification that correlates with bill of material (i.e., piece mark). Fastener material.
Element modeling to include: 1. Panel: Panel with actual profile or graphical texture shown, filling the boundary set by the plane object. 2. Significant accessories provided by metal building manufacturer (i.e., light transmitting panels, ridge vents, curbs). 3. Shop-located openings/Voids are represented in true dimensions/locations. 4. Trim: Major trims (primary exterior pieces) are shown, represented by the assumed trim profile and thickness. - Gutters - Corner boxes - Corner trim - Open wall trim - Framed opening trim	Element modeling to include: 1. Panel: Actual profile modeled filling the boundary set by the plane object. 2. Closures 3. Downspouts 4. Trim: Minor trims (end caps, transition pieces, etc.) are shown, represented by the assumed trim profile and thickness. Note: Other non-graphic information may be included such as: Textual information on installation details	

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CIVIL & SITE

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 From lkerd.com
Description Associated Masterformat Sections: 31 20 00 / 01 89 13	Proposed Surfaces shown as a plane.		Proposed Surface: Generic Surface Interpolation between the following elements: Building Envelope at Finish Floor, Finish Grade at Retaining Walls, Grading Limits. Curbs, hardscape, finish surface at building envelopes.
LoD 500			

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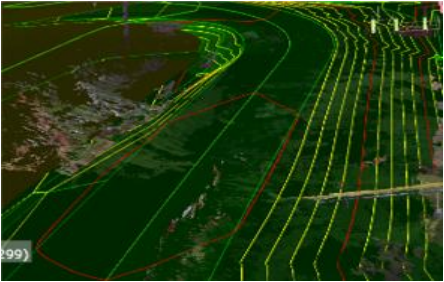
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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		 From lkerd.com
Proposed Surface: Complete and accurate surface definition based on defined fine grading, grade breaks, curbs, hardscape, buildings, swales, etc. Local Coordinate Control. Shared Coordinate from Building Grid base point to real-world project control	Include existing Surface: 3D surface generated from site topography, with grade breaks and lines as needed to define accurate surface. 3D site features included if provided by surveyor (i.e. walls, signage, stairs, etc., as defined in Survey LOC-Grade). Added definition from supplemental survey, revised limits of work	Surface modeled to facilitate robotic controlled grading and GPS grade-control systems.

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LoD 500



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G20		See G20
Associated Masterformat Sections:			
32 10 00 / 32 12 00 / 32 13 00 / 32 14 00 / 32 15 00			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Specific thickness of pavement and substrate modeled. All drainage slopes modeled.	Openings for drains and other services modeled.	

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G20		See G20
Associated Masterformat Sections:			
32 16 13			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Full extents of curbs and gutters (above and below grade) are modeled.	Element modeling to include: 1. Reinforcing 2. Pour stops 3. Expansion joints	



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G30		See G30
Associated Masterformat Sections:			
33 10 00			
LoD 500			

LoA

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description			See G30
Associated Masterformat Sections:			
: 01 89 19 / 33 21 00 / 33 11 19 / 33 12 00 / 33 12 13 / 33 12 16 / 33 12 19 / 33 12 23 / 33 12 33 / 33 16 00 / 33 47 19.33 / 33 47 13.13 / 33 47 16.13			
LoD 500			

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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G30		See G30
Associated Masterformat Sections:			
33 31 00 / 33 33 00 / 33 34 00			
LoD 500			



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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Specific elevations, sizes, materials		

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	See G30		Approximate structure types, sizes and materials
Associated Masterformat Sections:			
33 39 00 / 33 39 13 / 33 39 23			
LoD 500			



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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Specific structure elements at all locations, specific sizes and materials		

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G30		See G30
Associated Masterformat Sections:			
LoD 500			

LoA



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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

BIMForum.Global Version 2023 LOD Specification Page 242

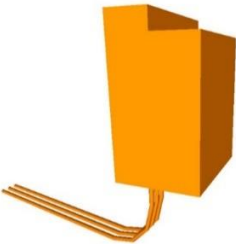
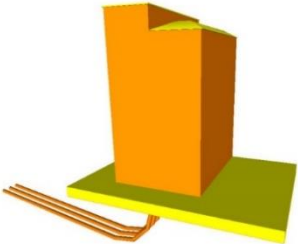
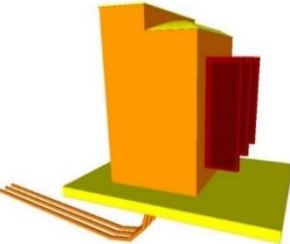
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G40		Generic model elements in schematic layout with: Approximate size, shape, and location of equipment; Approximate access/code clearance requirements modeled; Design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.
Associated Masterformat Sections:			
01 89 26			
LoD 500			

LoA

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 206 G4010-LOD-300 Site Electric Distribution Systems From lkerd.com	 207 G4010-LOD-350 Site Electric Distribution Systems From lkerd.com	 208 G4010-LOD-400 Site Electric Distribution Systems From lkerd.com
Modeled as design-specified size, shape, spacing, and location of raceways/ boxes/enclosures/duct banks in the power distribution system. Specified size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control . Access/code clearance requirements modeled	Modeled as actual size, shape, spacing, and location of raceways/ boxes/enclosures/duct banks in the power distribution system. Actual size, shape, spacing, and location for supports and seismic control; actual size, shape, and location/connections of equipment and support structure/pads. Actual access/code clearance requirements modeled	Supplementary components added to the model required for fabrication and field installation.



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G40		Generic elements in schematic layout with: Approximate size, shape, and location of equipment; Approximate access/code clearance requirements modeled; Design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.
Associated Masterformat Sections:			
26 56 29			
LoD 500			

LoA

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of lighting fixtures. Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control. Required pole bases and footing elements. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, and enclosures in the power distribution system. Size, shape, spacing, and location for supports and seismic control; Size, shape, location, and connections of equipment and support structure or pads. Floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	Diagrammatic or schematic model elements:		
Associated Masterformat Sections:	Conceptual and/or schematic layout; Design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.		
LoD 500			



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Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}

LoA



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	See G50		Generic elements in a schematic layout with: approximate size, shape, and location of equipment; approximate access/code clearance requirements modeled; design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.
Associated Masterformat Sections:			
33 80 00			
LoD 500			



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Notes:
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of raceways, boxes, and enclosures in the power distribution system. Size, shape, spacing, and location of equipment and associated components. Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of raceways, boxes, and enclosures in the power distribution system; size, shape, spacing, and location for supports and seismic control. Size, shape, location, and connections of equipment and support structure or pads. Floor and wall penetration elements are modeled. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for fabrication and field installation.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description Associated Masterformat Sections: 31 06 20.13 / 31 23 16.13 / 31 23 33 / 31 35 26.23 / 31 41 33 / 31 77 13 / 33 05 07.53	Assumptions for trenches are included in other modeled elements such as foundations, civil piping and duct banks, etc.		Assumptions for trenches are included in other modeled elements such as foundations, civil piping and duct banks, etc.
LoD 500			

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Notes:

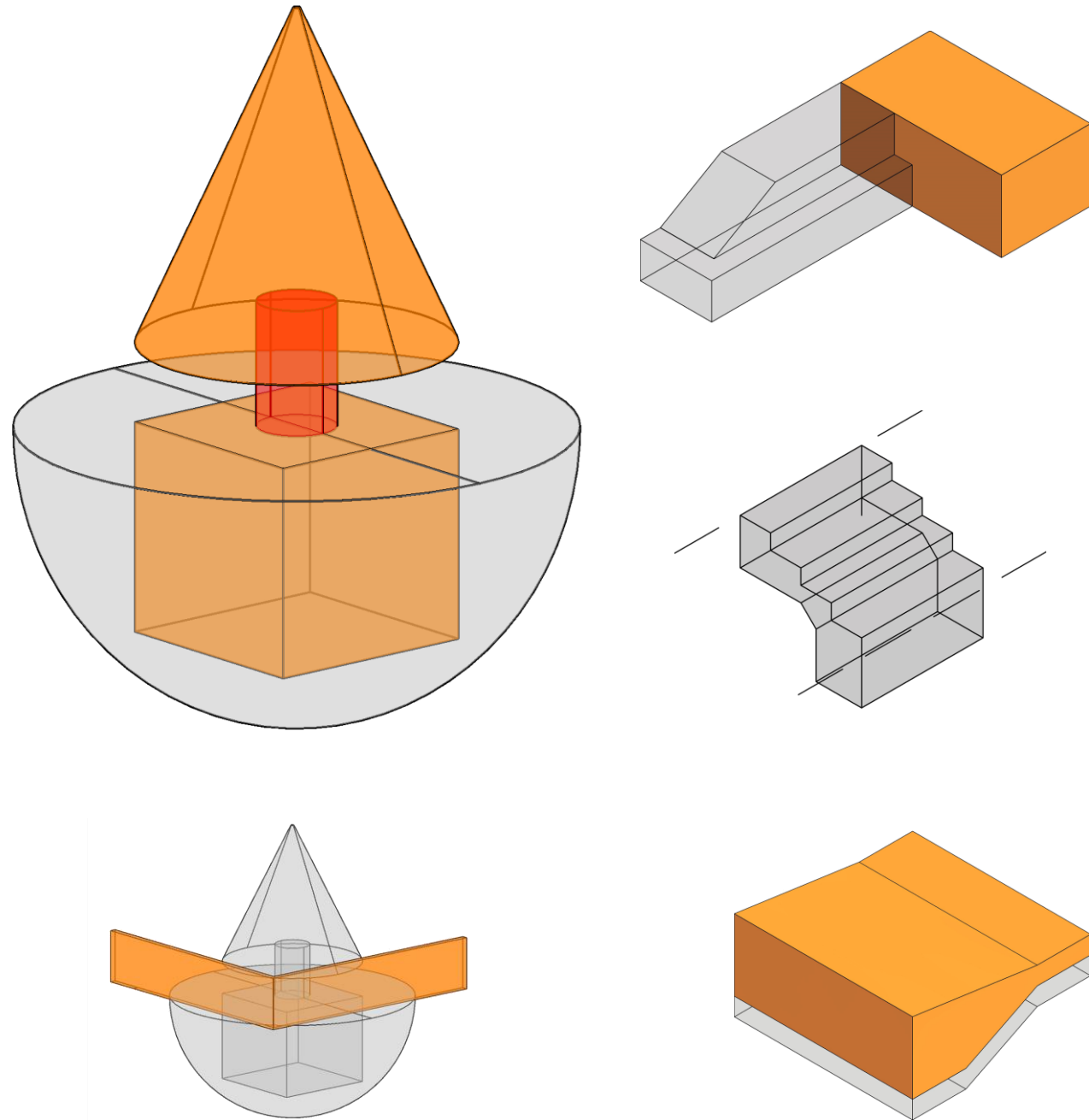
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Elements are modeled to represent the required size and shape for temporary trenching to accommodate the installation of model elements. Element modeling to include: 1. Overall size and geometry of the trench2. loping surfaces	Element modeling to include: 1. Thrust block or underground reinforcements.	

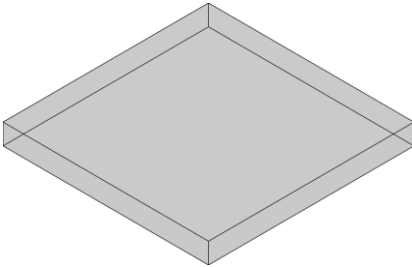
LoA



LoD 500

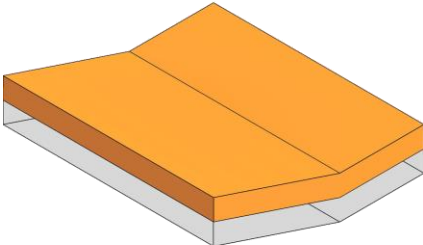
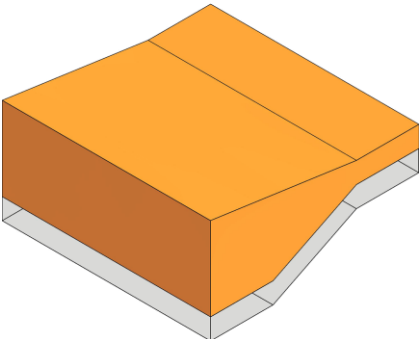
Site Landscape Elements



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description			Full plan extent. Nominal thickness of buildup
Associated Masterformat Sections:			
LoD 500			

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Notes:
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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

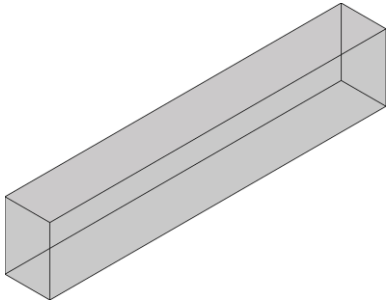
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Actual thickness of build up Grading information (points and edges) 2D pattern of joints	Slab or thickened edges Rough openings 3D expansion joints that interface with other elements	All joints

LoA



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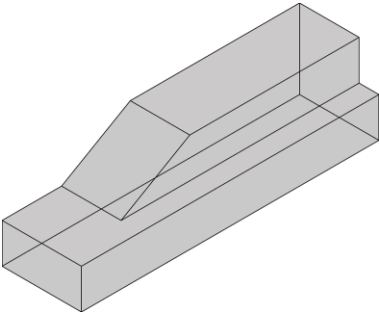
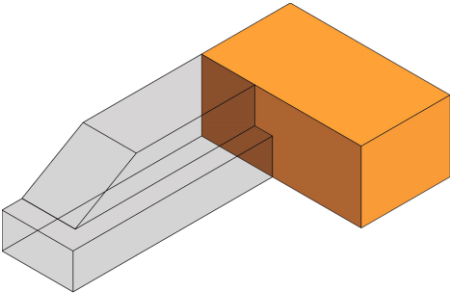
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 Full plan extents
Description			
Associated Masterformat Sections:			
LoD 500			

Notes:

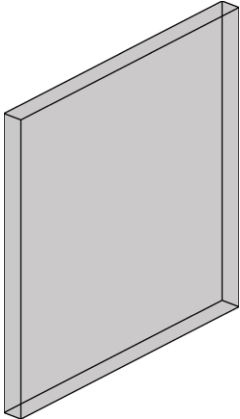
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Full profile of curb Finish grade (top) Full depth Curb cuts and tapers	Rough openings for storm drains or inlets	Profile includes any chamfer or nosing Joints



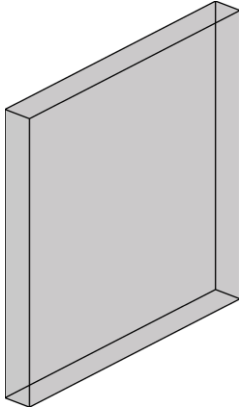
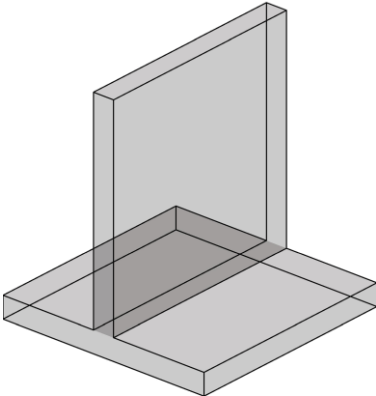
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description			Full plan extents
Associated Masterformat Sections:			
LoD 500			

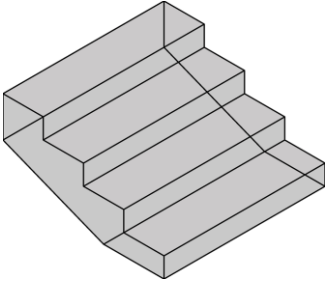
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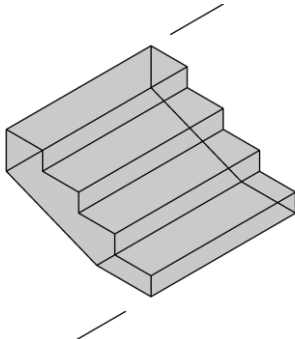
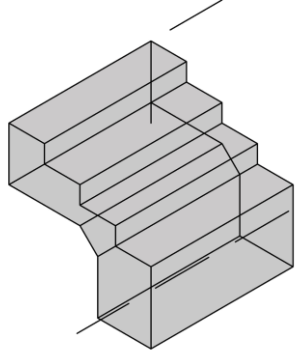
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Full profile/thickness of wall. Finish grade (top) Full depth	All material layers/buildup Footing	Joints Reinforcing
CIP = SEE CONCRETE WALLS PC = SEE PRECAST MASONRY = SEE UNIT MASONTRY .		

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 Full plan extents
Description			
Associated Masterformat Sections:			
LoD 500			

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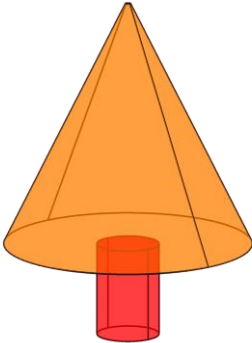
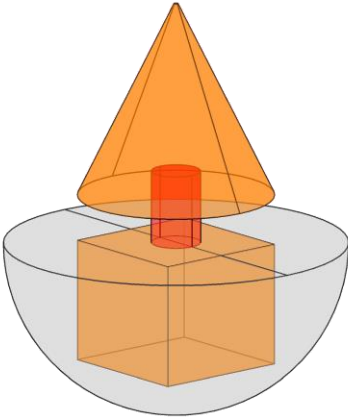
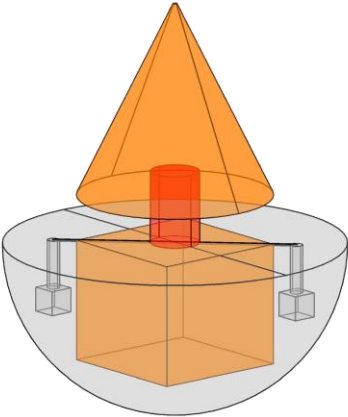
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 Stair is accurately graded at top and bottom Nosing (taper) is included	 Thickened edges and/or footings	Additional profile and nosing details Dowels and reinforcing
RERER TO STAIRS FOR ADDITIONAL INFORMATION 300 base line for accessibility review. .		

LoA



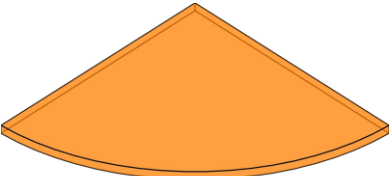
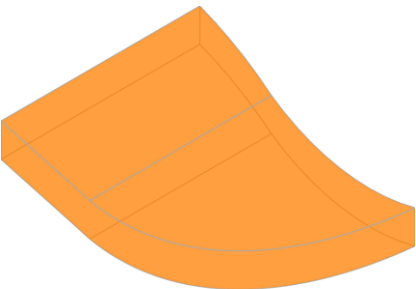
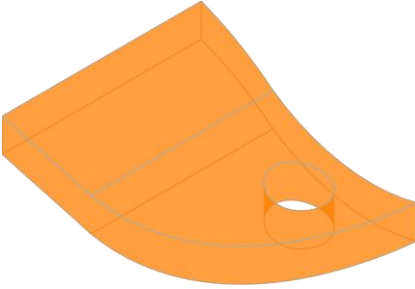
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}	VDCFORUM VDCForum.org	300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 Tree location is shown	Notes: <i>a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.</i> <i>b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM)</i>	 Location of tree is accurate 3D rootball and clear zone for hole (at installation) Canopy shape/ size at maturity (75-100% height) (for design and visualization BIM Use)	 Staking and/or guying Canopy clearances at maturity (for clash detection)	
Description							
Associated Masterformat Sections:							
Visualization:							
Growth Planning:					Installed size (boxed size) Mature size	Installed size (boxed size) Mature size	
LoD 500							

LoA



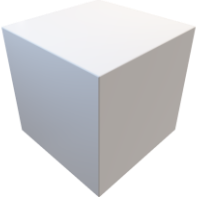
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}	VDCFORUM VDCForum.org	300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
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Description			Larger mass, zones, or areas. May be flat or not 3D form.		All areas are separated by distinct species or mix 3D form that follow grade (mass or individual plants)	Clear zones around trees Individual plants may be shown, though exact location is approx. Root or container element shown for smaller plants or included in thickness for massed areas	All individual plants are shown Location is exact for install
Associated Masterformat Sections:							
	Visualization:						
	Growth Planning:					Installed size (boxed size) Mature size	Installed size (boxed size) Mature size
LoD 500							

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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description			Turf and seeding areas are shown. Areas may be flat or not represented as 3D elements
Associated Masterformat Sections:			
LoD 500			

LoA

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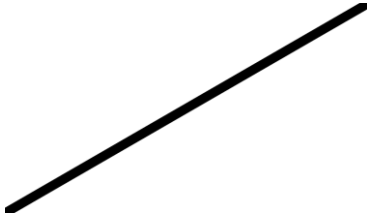
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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
All areas are separated by distinct species or mix Areas or masses follow the grading surface	Root system is accounted for within the depth of the massing element.	



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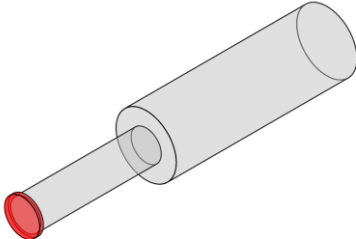
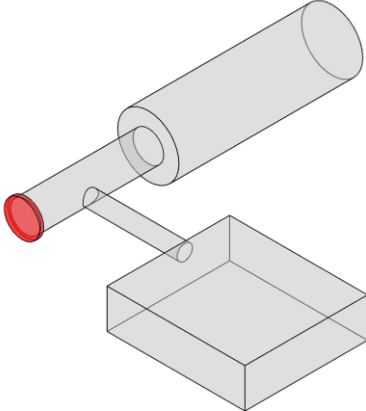


LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description			Schematic single line layout with approximate size, shape, and location of mainline.
Associated Masterformat Sections:			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Accurate mainline and point of connection (POC) All fittings (valves, sprinkler heads, etc) are shown, though may be schematic and not fully sized on laterals Drip areas designated in plan	Mainline sleeving Drip lines, may be delineated as massing/area element at specified elevation (in 3d model) Lateral lines and sleeving are modeled as design-specified size and location	Modeled as actual construction elements Actual size, shape, spacing, and location/connections of pipe, valves, fittings, and sleeves

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
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Description	See G20		See G20
Associated Masterformat Sections:			
01 89 16			
LoD 500			

LoA

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Element modeling to include: 1. Overall size and geometry of all elements 2. Crossfalls & drainage slopes	Element modeling to include: 1. Fences detailed geometry 2. Including footings 3. Fall zones 4. Materials	Element modeling to include: 1. Subsurface structure including thickness, material,... 2. Linemarking 3. Accurate materials and finishes (colored concrete,...)



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SITE ELEMENTS

LoD 500



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description Associated Masterformat Sections:	Diagrammatic or schematic model elements: 1. Conceptual and/or schematic layout;		Generic elements in schematic layout with: 1. approximate size and location; 2. approximate access/code clearance requirements modeled.
LoD 500			



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Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of decking, stairs, ramps. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of decking, stairs, ramps. Actual size, shape, spacing, and location for supports and seismic control. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for field installation.

LoA



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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	Diagrammatic or schematic model elements:		Generic elements in schematic layout with:
Associated Masterformat Sections:	1. Conceptual and/or schematic layout;		1. Approximate size, shape, and location of equipment; 2. Approximate access/code clearance requirements modeled; 3. Design performance parameters as defined in the BXP to be associated with model elements as non-graphic information.
LoD 500			

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Notes:

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of temporary lighting fixtures.	Modeled as actual size, shape, spacing, and location of lighting fixtures.	
Allowances for spacing and clearances for service/maintenance and code clearance requirements modeled.	Actual access/code clearance requirements modeled.	

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}	VDCFORUM VDCForum.org Notes: a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling. b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project. c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,	300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.					
Description Associated Masterformat Sections:	Diagrammatic or schematic model elements: 1. Conceptual and/or schematic layout;		Generic elements in schematic layout with: approximate size and location of fencing; approximate access/code clearance requirements modeled;	Modeled as design-specified size, shape, spacing, and location of temporary fencing; allowances for spacing and clearances for service/maintenance and code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of temporary fencing; actual access/code clearance requirements modeled.		
LoD 500							

LoA

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	Diagrammatic or schematic model elements:		Generic elements in schematic layout with:
Associated Masterformat Sections:	1. Conceptual and/or schematic layout;		1. Approximate size and location; 2. Approximate access/code clearance requirements modeled;
LoD 500			

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
Modeled as design-specified size, shape, spacing, and location of equipment. Approximate allowances for spacing and clearances required for all specified supports and seismic control. Access/code clearance requirements modeled.	Modeled as actual size, shape, spacing, and location of equipment. Actual size, shape, spacing, and location for supports and seismic control. Actual access/code clearance requirements modeled.	Supplementary components added to the model required for field installation.

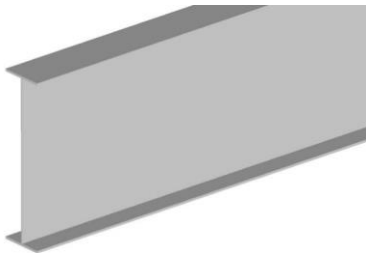
HIGHWAY BRIDGE

LoD 500



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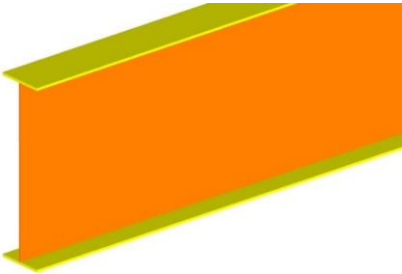
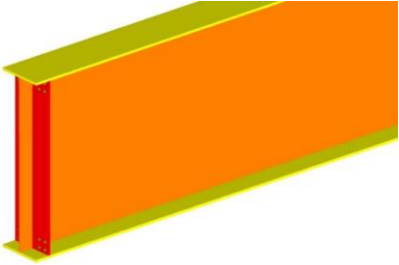
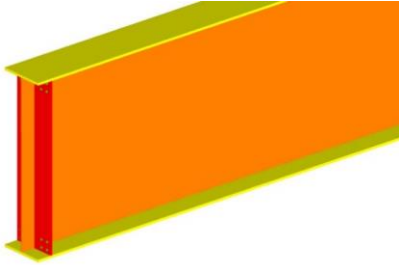
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 LOD 200 Railroad Bridge Girder Steel From AscendBKF.org
Description			Generic mass of Girder
Associated Masterformat Sections:			
LoD 500			

Notes:

a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.

b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

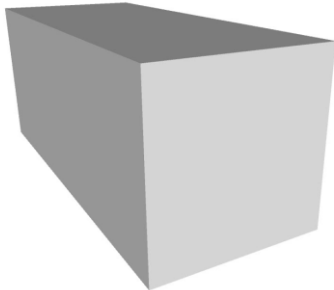
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 LOD 300 Railroad Bridge Girder Steel From AscendBKF.org	 LOD 350 Railroad Bridge Girder Steel From AscendBKF.org	 LOD 400 Railroad Bridge Girder Steel From AscendBKF.org
Element modeling to include: 1. Girder Depth 2. Web Plate Length 3. Flange Plate Width	Element modeling to include: 1. Stiffeners 2. Exact sloping of members 3. Splits between Plate Girders	Element modeling to include fabrication level information: 1. Welds 2. Coping of members 3. Washers, nuts, etc. 4. Grating, holes in grating 5. All assembly elements

Highway
Bridges Precast Structural I Girder (Concrete)

Unifomat

Omniclass

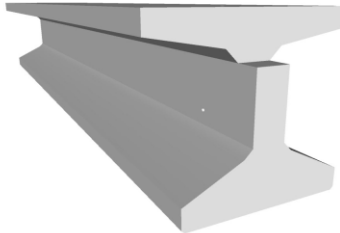
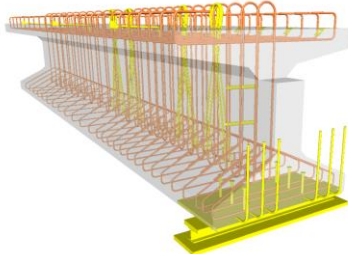
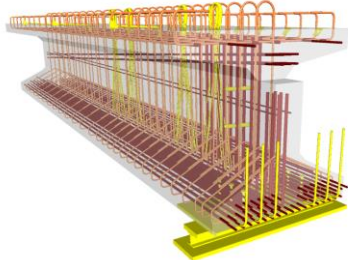
Uniclass

LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 <i>LOD 200 Railroad Bridges Precast Structural I Girder (Concrete)</i> From lkerd.com
Description			Element modeling to include: - Type of structural concrete system - Approximate geometry (e.g. depth) of structural elements
Associated Masterformat Sections:			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 <i>LOD 300 Railroad Bridges Precast Structural I Girder (Concrete)</i> From lkerd.com	 <i>LOD 350 Railroad Bridges Precast Structural I Girder (Concrete)</i> From lkerd.com	 <i>LOD 400 Railroad Bridges Precast Structural I Girder (Concrete)</i> From lkerd.com
Element modeling to include: - Type of structural concrete system - Approximate geometry (e.g. depth) of structural elements	Element modeling to include: - Reinforcing Post-tension profiles and strand locations - Reinforcement called out, modeled if required by the BXP, typically only in congested areas - Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. - Chamfer - Expansion Joints - Lifting devices - Embeds and anchor rods - Post-tension profile and strands modeled if required by the BXP - Penetrations for items such as MEP - Any permanent forming or shoring components	Element modeling to include: - All reinforcement including post tension elements detailed and modeled - Finishes

LoA



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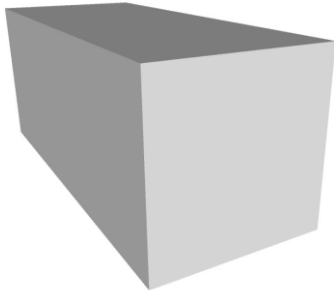
RAILROAD BRIDGE

LoD 500



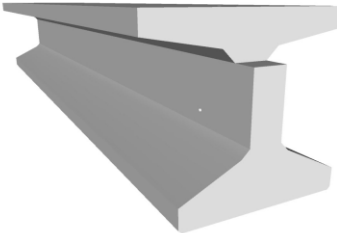
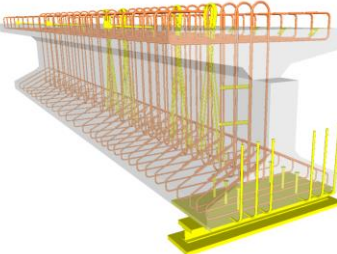
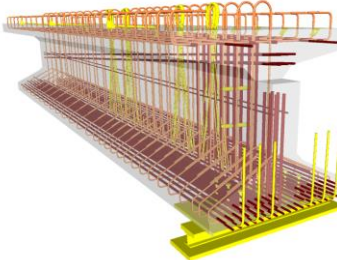
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 LOD 200 Railroad Bridges Precast Structural I Girder (Concrete) From lkerd.com
Description			Element modeling to include: Type of structural concrete system Approximate geometry (e.g. depth) of structural elements
Associated Masterformat Sections:			
LoD 500			

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Notes:
a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.
b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
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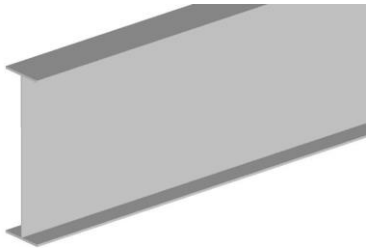
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 LOD 300 Railroad Bridges Precast Structural I Girder (Concrete) From lkerd.com	 LOD 350 Railroad Bridges Precast Structural I Girder (Concrete) From lkerd.com	 LOD 400 Railroad Bridges Precast Structural I Girder (Concrete) From lkerd.com
Element modeling to include: 1. Type of structural concrete system 2. Approximate geometry (e.g. depth) of structural elements	Element modeling to include: 1. Reinforcing Post-tension profiles and strand locations 2. Reinforcement called out, modeled if required by the BXP, typically only in congested areas 3. Pour joints and sequences to help identify reinforcing lap splice locations, scheduling, etc. 4. Chamfer 5. Expansion Joints 6. Lifting devices 7. Embeds and anchor rods 8. Post-tension profile and strands modeled if required by the BXP 9. Penetrations for items such as MEP 10. Any permanent forming or shoring components	Element modeling to include: 1. All reinforcement including post tension elements detailed and modeled 2. Finishes

LoA



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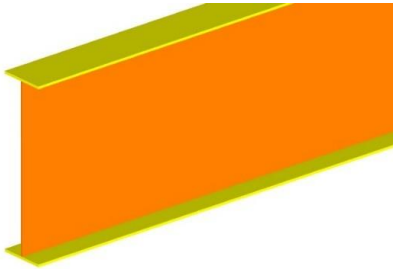
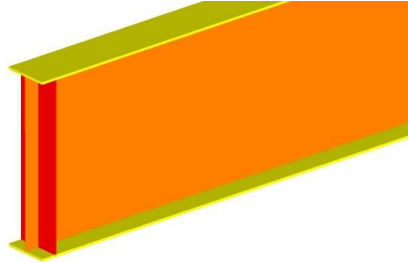
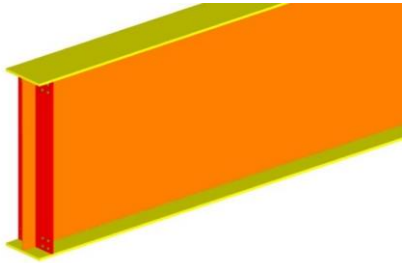
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 LOD 200 Railroad Bridge Girder Steel From lkerd.com
Description			Generic mass of Girder
Associated Masterformat Sections:			
LoD 500			

Notes:

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.

c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
 LOD 300 Railroad Bridge Girder Steel From lkerd.com	 LOD 350 Railroad Bridge Girder Steel From lkerd.com	 LOD 400 Railroad Bridge Girder Steel From lkerd.com
Element modeling to include: 1. Stiffeners 2. Exact sloping of members 3. Splits between Plate Girders	Element modeling to include: 1. Stiffeners 2. Exact sloping of members 3. Splits between Plate Girders	Element modeling to include fabrication level information: 1. Welds 2. Coping of members 3. Washers, nuts, etc. 4. Grating, holes in grating 5. All assembly elements



APPENDIX

LoD 500



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CRAIN SYSTEMS

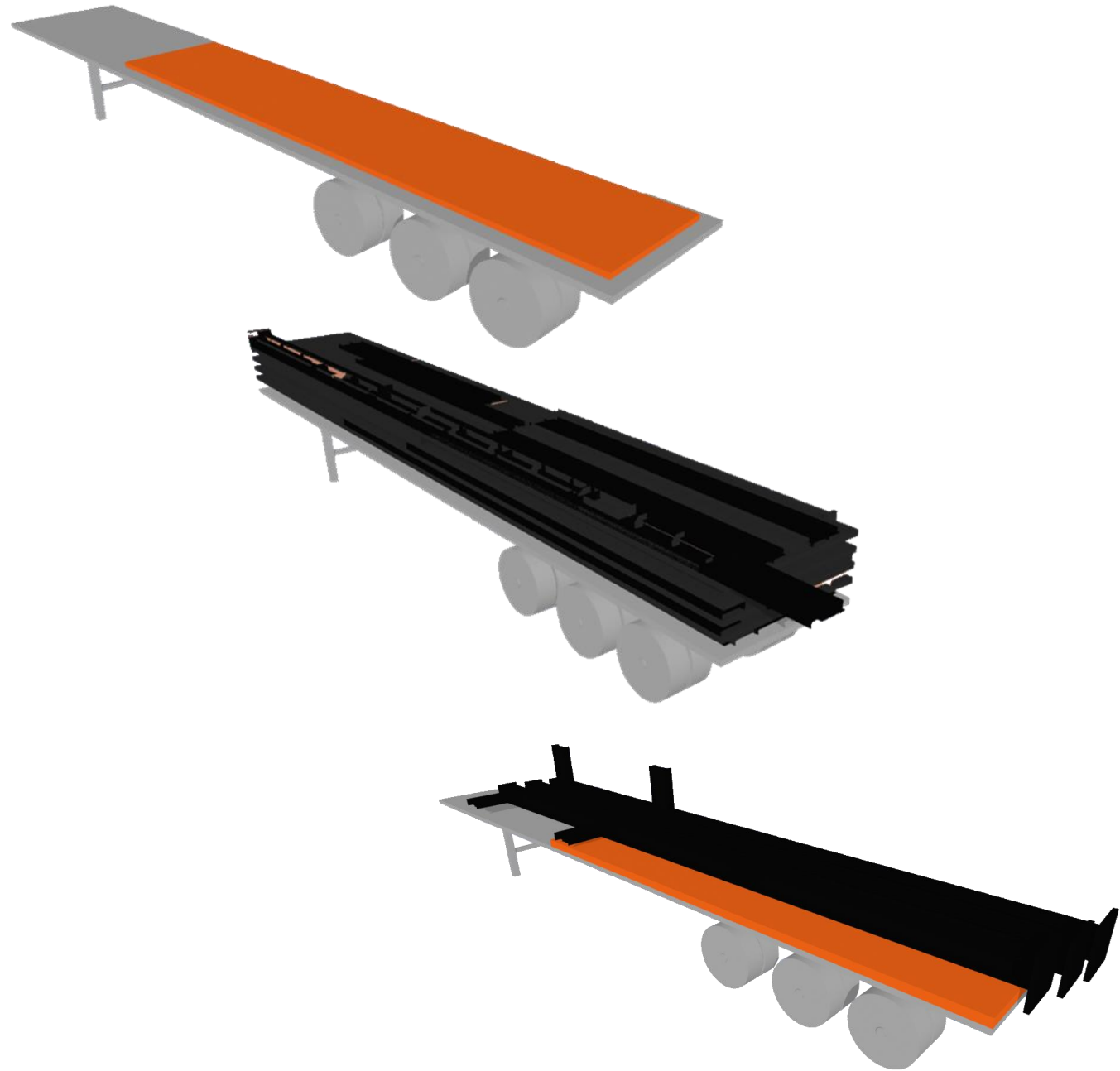
LoD 500



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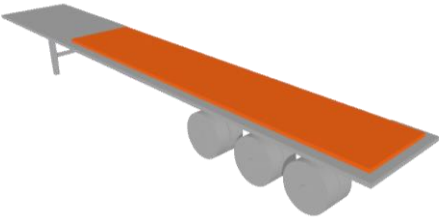
LOD	000 ^a	100 ^{b,c}	200 ^{b,c}	VDCFORUM VDCForum.org	300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.		Notes: <i>a. LOD 000 does not exist in many LOD definitions. It has been added in the BIMForum Global LOD Specification to address data structures when no model elements existing and to define contact scopes when element at omitted from modeling.</i> <i>b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.</i> <i>c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,</i>			
Description Associated Masterformat Sections:							
LoD 500							



LoD 500

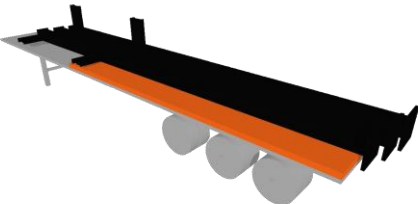
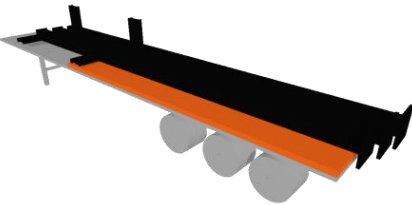
TRAILERS – LOAD MODELING



LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	
Description	Load list is generated without any modeling.	A block mass is generated the collectively defined a given load. Not trailer is modeled.	Approximate trailer is model. Load geometry is modeled with overall clearance envelope. Modeled load may reference a load list for the elements referenced in the load. The interface of the elements in the shipping load is not established.
Associated Masterformat Sections:			
LoD 500			

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c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

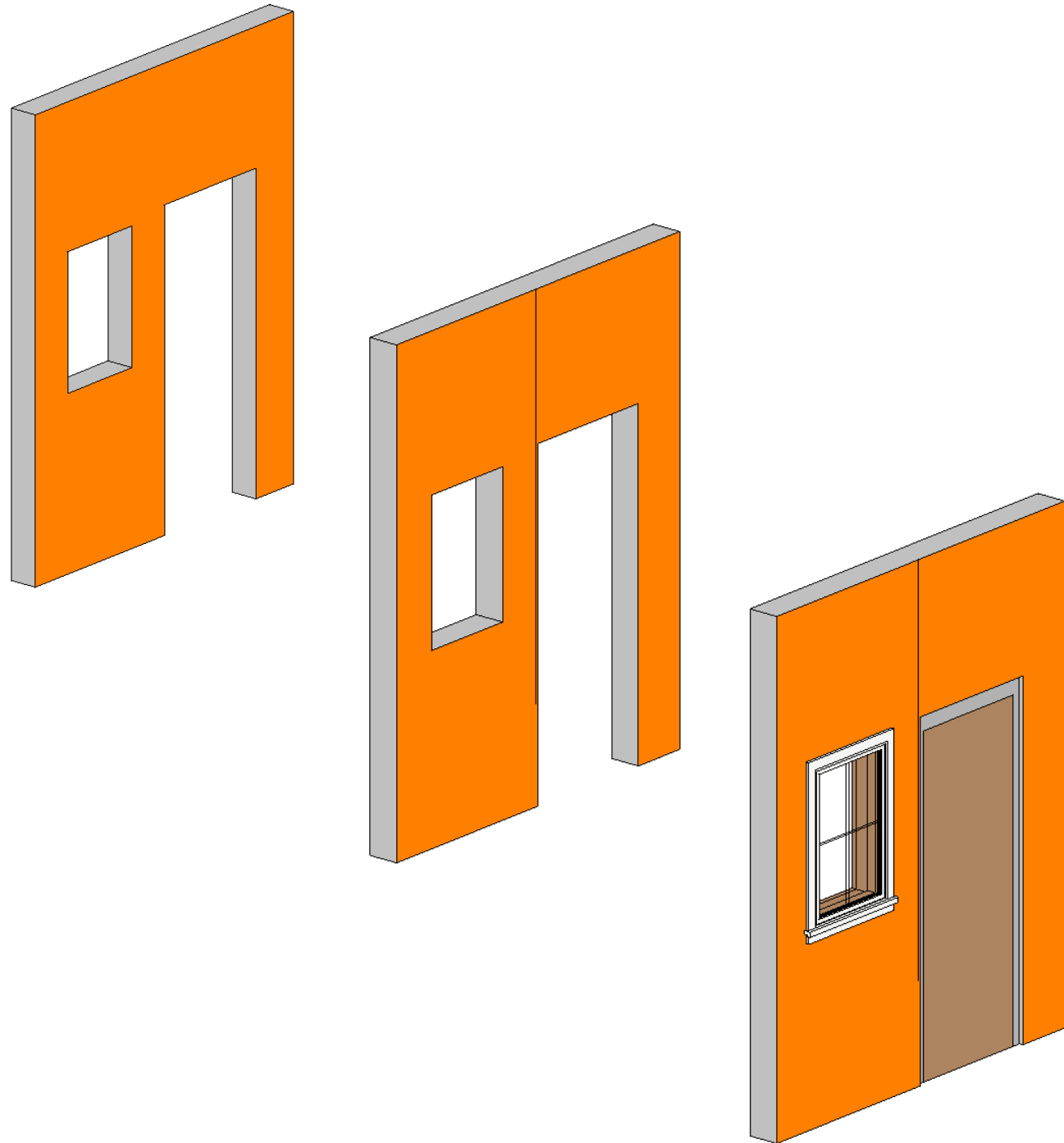
300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Specific trailer is modeled with specific geometry and clearances. Load is modeled with specific elements for quantities. These elements may be raw materials with out connections The interface of the elements in the shipping load is not established.	Load elements are modeled with connection geometry that corresponds to LOD 350 for the given elements. Load elements are arranged as they are shipped in the sequence the elements will be placed and removed from the load.	Fabrication level modeling is included with the elements arranged as shipped in the load.

LoA



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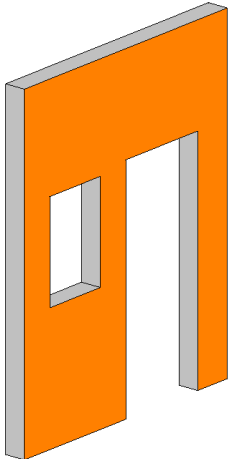
LoD 500

STRUCTURAL INSULATED PANELS



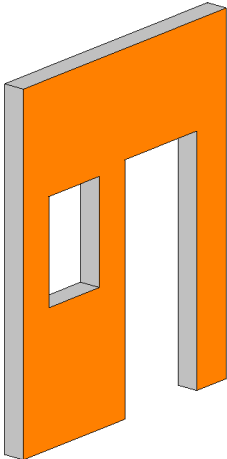
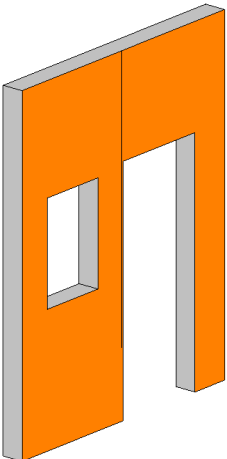
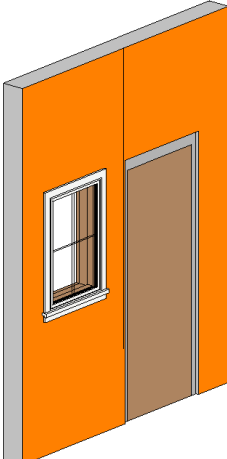
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LOD	000 ^a	100 ^{b,c}	200 ^{b,c}
	 NO DISTINCT MODEL ELEMENTS EXIST AND NO INFERENCE CAN BE MADE FROM AN OVERALL MASS FOR THESE ELEMENTS AT THIS LOD IN THIS SYSTEM.	 NO DISTINCT MODEL ELEMENTS EXIST BUT INFERENCE ABOUT ELEMENTS CAN BE MADE FROM AN OVERALL MASS AT THIS LOD IN THIS SYSTEM.	 Approximate SIP system thickness and geometry are modeled. Approximate opening are modeled.
Description			
Associated Masterformat Sections:			
LoD 500			

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b. LOD definitions should be defined in the Project Execution Plan's (PEP) Building Information Modeling (BIM) section. These may also be referred to as a BIM Execution Plan (BxP, BEP) on your project.
c. In the absence of a PEP, BEP, BxP, etc, the LOD definitions shall be per the BIMForum Global LOD Definitions,

300 ^{b,c}	350 ^{b,c}	400 ^{b,c}
		
Specific openings are modeled with specific SIP wall thickness.	SIP panel joints are defined for penalization. Rough opening geometry supports CNC cutting of panels. SIP screw locations regions and fasteners types into adjacent members are defined without each fasten being modeled. Regions of air sealing tape per manufactures speciation are defined in the model without modeling the tape layer with exact thicknesses. .	SIP fasteners are modeled at the specified spacing. Fabrication level modeling of sealants and connections are included with the element.

