



<b>Project #:</b>		<b>Project Name:</b>		
<p><b>Schedule Identifier NAME -</b> Match with Schedule Names in the LACCD BIM Review Form &amp; Schedule Names in the LACCD BIM ASSET Revit Template</p> <p><b>Omniclass Schedule Identifier NUMBER -</b> Match with Schedule Numbers in the LACCD BIM Review Form &amp; Schedule Numbers in the LACCD BIM ASSET Revit Template</p>		<p><b>Family Category / Schedule Category</b> Revit Families for the Elements should be defined within this Category. The Elements can then be scheduled in Revit using the same specific Category from the list of Schedule Categories provided.</p> <p><b>Keynote</b> Add to an Object's Family for Automatic Filing of Schedules in the LACCD BIM ASSET Revit Template</p>	<p align="center"><b>Description Metadata in Native Authored BIM Elements</b></p> <p>1.001 Name</p> <p>1.002 Description</p> <p>1.003 ID Tag</p> <p>1.004 Location (Describe Space Name &amp; Room No)</p> <p>1.005 Floor Number (Level)</p> <p>1.006 Mounting Height (Model in Correct Location)</p> <p>1.007 Size (Dimension / Thickness)</p> <p>1.008 Type Name</p> <p>1.009 Material (If Applicable)</p> <p>1.010 Quantity</p> <p>1.011 Omniclass 2010 Table 21 (Uniformity)</p> <p>1.012 Omniclass 2010 Table 23 Category</p> <p>1.013 System and Zone Information</p> <p>1.014 Clearance Requirements</p> <p>1.015 Design / Performance Metadata</p>	
	<p><b>Object Information Needed →</b></p>			<p><b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet TYPE Tab</b></p> <p>1.016 Type Name (Repeat)</p> <p>1.017 Omniclass 2010 Table 23 Category (Repeat)</p> <p>1.018 Type Description (COBie Type)</p> <p>1.019 Asset Type (Fixed / Moveable)</p> <p>1.020 Manufacturer</p> <p>1.021 Model Number</p> <p>1.022 Warranty Guarantor Parts</p> <p>1.023 Warranty Duration Parts (in months)</p> <p>1.024 Warranty Guarantor Labor</p> <p>1.025 Warranty Duration Labor (in months)</p> <p>1.026 Manufacturer's Warranty Duration</p> <p>1.027 Replacement Cost</p> <p>1.028 Expected Life (in months)</p>
	<p><b>Minimum Elements to be Modeled ↓</b></p>			

**Site Utilities**

<b>Util. 01</b>	22-26 12 00	Transformers	Electrical Equipment	EQTRM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No						Yes
<b>Util. 02</b>	22-33 49 00	Utilities Back-Flow Preventer Fire Valve	Multiple Categories	MCBFP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No						Yes
No Schedule		Fire Hydrants Utilities (Optional to model)		MCFHD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No						No
No Schedule		Utilities Catch Basin (Optional to model)		MCCBS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No						No
No Schedule		Utilities Manholes (Optional to model)		MCMNH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No						No
No Schedule		Utilities Valves (Optional to model)		MCVLV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No						No


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<b>Landscape</b>																			
Lsp. 01	22-32 80 00	Irrigation (System Controllers only)	Multiple Categories	MCIRG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No
	No Schedule	Site Features	-N/A-		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No

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					<b>Minimum Elements to be Modeled ↓</b>										<b>1.001 Name</b> <b>1.002 Description</b> <b>1.003 ID Tag</b> <b>1.004 Location</b> (Describe Space Name & Room No) <b>1.005 Floor Number</b> (Level) <b>1.006 Mounting Height</b> (Model in Correct Location) <b>1.007 Size</b> (Dimension / Thickness) <b>1.008 Type Name</b> <b>1.009 Material</b> (If Applicable) <b>1.010 Quantity</b> <b>1.011 Omniclass 2010 Table 21</b> (Uniformity) <b>1.012 Omniclass 2010 Table 23 Category</b> <b>1.013 System and Zone Information</b> <b>1.014 Clearance Requirements</b> <b>1.015 Design / Performance Metadata</b>										<b>1.016 Type Name</b> (Repeat) <b>1.017 Omniclass 2010 Table 23 Category</b> (Repeat) <b>1.018 Type Description</b> (COBie Type) <b>1.019 Asset Type</b> (Fixed / Moveable) <b>1.020 Manufacturer</b> <b>1.021 Model Number</b> <b>1.022 Warranty Guarantor Parts</b> <b>1.023 Warranty Duration Parts</b> (in months) <b>1.024 Warranty Guarantor Labor</b> <b>1.025 Warranty Duration Labor</b> (in months) <b>1.026 Manufacturer's Warranty Duration</b> <b>1.027 Replacement Cost</b> <b>1.028 Expected Life</b> (in months)								<b>1.029 Component Name</b> (COBie Component) <b>1.030 Floor Number</b> (Level) (Repeat) <b>1.031 Type Name</b> (Repeat) <b>1.032 Location</b> (Repeat) <b>1.033 Component Description</b> (COBie) <b>1.034 Serial Number</b> <b>1.035 Installation Date</b> <b>1.036 Warranty Start Date</b> <b>1.037 Tag Number</b> <b>1.038 Barcode / RFID Tag</b> <b>1.039 Asset Identifier</b> <b>Model Existing Objects (to Remain) in Renovation Project?</b> Existing Condition Elements to be modeled in Renovation BIM <b>Existing Objects</b> *Metadata to include Name; Description; ID Tag							

### Architectural Model

Arch. ID	Arch. Name	Revit Family	COBie Type	1.001	1.002	1.003	1.004	1.005	1.006	1.007	1.008	1.009	1.010	1.011	1.012	1.013	1.014	1.015	1.016	1.017	1.018	1.019	1.020	1.021	1.022	1.023	1.024	1.025	1.026	1.027	1.028	1.029	1.030	1.031	1.032	1.033	1.034	1.035	1.036	1.037	1.038	1.039	Model Existing Objects (to Remain) in Renovation Project?
Arch. 01	22-05 51 00	Ramps	ARRMP																																								Yes
Arch. 02	22-05 51 00	Stairs (Architectural Information)	ARSTR																																								Yes
Arch. 03	22-05 52 00	Railings	ARRLG																																							Yes	
Arch. 04	22-07 00 00	Roofing Systems	ARRFG																																							Yes	
Arch. 05	22-08 10 00	Doors	ARDOR																																							Yes	
Arch. 06	22-08 50 00	Windows	ARWDW																																							Yes	
Arch. 07	22-09 50 00	Ceilings	ARCLG																																							Yes	
Arch. 08	22-09 70 00	Room Finishes (Floor and Ceiling)	-N/A-																																							No	
Arch. 09	22-11 13 00	Loading Dock Equipment	Specialty Equipment																																						Yes		
Arch. 10	22-12 30 00	Furniture Systems (Casework, Cabinets)	Casework																																							No	
Arch. 11	22-12 36 00	Countertops	Casework																																							No	
Arch. 12	22-14 00 00	Conveying Equipment (Elevators Escalators)	Specialty Equipment																																						Yes		
Arch. 13	See Specialty Equipment on Page 2 of this Matrix																																								No		
No Schedule		Fenestration (curtain wall, storefront)	ARFEN																																							Yes	
No Schedule		Walls	ARWAL																																							Yes	
No Schedule		Movable Furniture (incl. Work Stations)	ARMFW																																							No	


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		<b>Existing Objects' Metadata to Include Name; Description; ID Tag</b>									
<b>Structural Model</b>											
<b>Struc. 01</b>	Beam Systems	Structural Beam Systems	STBSM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
<b>Struc. 02</b>	Column Systems	Structural Columns	STCSM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
<b>Struc. 03</b>	Foundations (incl. Footings and Grade Beams)	Structural Foundations	STFDN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No
<b>Struc. 04</b>	Trusses	Structural Trusses	STTRS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
<b>Struc. 05</b>	Framing (incl. Brace Frames & Shear Walls)	Structural Framing	STFRM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
<b>Struc. 06</b>	22-05 51 00 Stairs (Structural Information)	Stairs	STSTR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No
<b>No Schedule</b>	Floor Slabs / Decks		STFLS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No

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Electrical and Lighting Systems Model													
Elec. 01	22-26 11 00	Generators & Substations	Electrical Equipment	EQSUB									Yes
Elec. 02	22-26 13 00	Switchgear	Electrical Equipment	EQSGR									No
Elec. 03	22-26 24 13	Switchboards	Electrical Equipment	EQSBR									Yes
Elec. 04	22-26 24 16	Panel boards (Distribution Panels)	Electrical Equipment	EQPBD									Yes
Elec. 05	22-26 24 19	Motor Controllers	Electrical Equipment	EQMOT									No
Elec. 06	22-26 25 00	Enclosed Bus Assemblies	Electrical Equipment	EQBUS									No
Elec. 07	22-26 26 00	Power Distribution Units	Electrical Equipment	EQPSP									No
Elec. 08	22-26 27 13	Electricity Metering	Electrical Equipment	EQMTR									Yes
Elec. 09	22-26 27 19	Outlets & Multi-Outlet Assemblies	Electrical Fixture	EFOLT									No
Elec. 10	22-26 28 16	Enclosed Sensors	Electrical Fixture	EFSSR									No
Elec. 11	22-26 28 16	Enclosed Switches and Circuit Breakers	Electrical Fixtures	EFSWT									Yes
Elec. 12	22-26 29 23	Variable-Frequency Motor Controllers	Electrical Fixture	EFVFD									No
Elec. 13	22-26 31 00	Photovoltaic (Collector) Panels	Electrical Equipment	EQPVC									Yes
Elec. 14	22-26 50 00	Light Fixtures (Interior and Exterior)	Lighting Fixtures	LFLGT									Yes
No Schedule		Conduit & Cable Trays (Optional to model)		-N/A-									No

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(for this project).


Spreadsheet for additional clarifications.

### Mechanical Systems Model

Item ID	Date	Description	Equipment Type	Model	1.001	1.002	1.003	1.004	1.005	1.006	1.007	1.008	1.009	1.010	1.011	1.012	1.013	1.014	1.015	1.016	1.017	1.018	1.019	1.020	1.021	1.022	1.023	1.024	1.025	1.026	1.027	1.028	1.029	1.030	1.031	1.032	1.033	1.034	1.035	1.036	1.037	1.038	1.039	Model Existing Objects	Existing Objects						
Mech. 01	22-23 09 13	Instrumentation/Control Thermostats	Mechanical Equipment	MQTSAT																																										No	Yes				
Mech. 02	22-23 21 23	Hydronic Pumps	Mechanical Equipment	MQPMP																																												Yes	Yes		
Mech. 03	22-23 25 00	Cooling Tower Water Treatment Assemblies	Mechanical Equipment	MQPWT																																												Yes	Yes		
No Schedule		Ductwork (Air Ducts, etc.)		-N/A-																																													No	Yes	
Mech. 04	22-23 33 13	Motors (incl. Motorized Dampers)	Mechanical Equipment	MQDMP																																												Yes	No		
Mech. 05	22-23 34 00	HVAC Fans	Mechanical Equipment	MQFAN																																												Yes	Yes		
Mech. 06	22-23 34 13	Duct Silencers	Mechanical Equipment	MQDSL																																												No	No		
Mech. 07	22-23 34 33	Air Curtain Fans	Mechanical Equipment	MQACT																																													Yes	Yes	
Mech. 08	22-23 35 13	Sawdust Collection Systems (Industrial)	Mechanical Equipment	MQSDC																																													No	No	
Mech. 09	22-23 36 13	Constant Air Volume Boxes (CAV)	Mechanical Equipment	MQCAV																																													No	Yes	
Mech. 10	22-23 36 16	Variable Air Volume Boxes (VAV)	Mechanical Equipment	MQVAV																																													No	Yes	
Mech. 11	22-23 37 13	Air Terminals (Diffusers, Grilles, etc.)	Air terminals	ATGRL																																													Yes	Yes	
Mech. 12	22-23 40 00	HVAC Air Cleaning Devices	Mechanical Equipment	MQACD																																													No	No	
Mech. 13	22-23 52 00	Heating Boilers	Mechanical Equipment	MQBLR																																													Yes	Yes	
Mech. 14	22-23 62 00	Compressors and Condenser Units	Mechanical Equipment	MQCMP																																													Yes	Yes	
Mech. 15	22-23 64 00	Chillers	Mechanical Equipment	MQCHL																																													Yes	Yes	
Mech. 16	22-23 74 13	Air Handling Units	Mechanical Equipment	MQAHU																																													Yes	Yes	
Mech. 17	22-23 81 23	Computer Room AC	Mechanical Equipment	MQCRAC																																													No	No	
Mech. 18	22-23 84 13	Humidifiers	Mechanical Equipment	MQHMD																																													No	No	
Mech. 19	22-23 84 16	Dehumidifiers	Mechanical Equipment	MQDMD																																														No	No

A black box indicates metadata NOT required in model elements

A blank box indicates metadata required in model elements. Each box can be checked out during the process. Refer to the Parameter ID Definitions

<b>Project #:</b>		<b>Project Name:</b>	
<b>Schedule Identifier NAME -</b> Match with Schedule Names in the LACCD BIM Review Form & Schedule Names in the LACCD BIM ASSET Revit Template		<b>Object Information Needed →</b>	
		<b>Minimum Elements to be Modeled ↓</b>	
<b>Omniclass Schedule Identifier NUMBER -</b> Match with Schedule Numbers in the LACCD BIM Review Form & Schedule Numbers in the LACCD BIM ASSET Revit Template		<b>Family Category / Schedule Category</b> Revit Families for the Elements should be defined within this Category. The Elements can then be scheduled in Revit using the same specific Category from the list of Schedule Categories provided.	
<b>Keynote</b> Add to an Object's Family for Automatic Filing of Schedules in the LACCD BIM ASSET Revit Template		<b>Description Metadata in Native Authored BIM Elements</b>	
		<b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet TYPE Tab</b>	
		<b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet COMPONENT Tab</b>	
		<b>Model Existing Objects (to Remain) in Renovation Project?</b> Existing Condition Elements to be modeled in Renovation BIM?	
		<b>Existing Objects*</b> Metadata to include Name; Description; ID Tag	

(for this project).


Spreadsheet for additional clarifications.

### Plumbing Systems Model

Parameter ID	Value	Category	Family	1.001 Name	1.002 Description	1.003 ID Tag	1.004 Location	1.005 Floor Number	1.006 Mounting Height	1.007 Size	1.008 Type Name	1.009 Material	1.010 Quantity	1.011 Omniclass 2010 Table 21	1.012 Omniclass 2010 Table 23	1.013 System and Zone Information	1.014 Clearance Requirements	1.015 Design / Performance Metadata	1.016 Type Name	1.017 Omniclass 2010 Table 23 Category	1.018 Type Description	1.019 Asset Type	1.020 Manufacturer	1.021 Model Number	1.022 Warranty Guarantor Parts	1.023 Warranty Duration Parts	1.024 Warranty Guarantor Labor	1.025 Warranty Duration Labor	1.026 Manufacturer's Warranty Duration	1.027 Replacement Cost	1.028 Expected Life	1.029 Component Name	1.030 Floor Number	1.031 Type Name	1.032 Location	1.033 Component Description	1.034 Serial Number	1.035 Installation Date	1.036 Warranty Start Date	1.037 Tag Number	1.038 Barcode / RFID Tag	1.039 Asset Identifier	Model Existing Objects	Existing Objects			
Plmb. 01	22-22 14 29	Pumps (incl Sump Pumps)	Plumbing Fixtures	PFPMP															Yes																											Yes	
Plmb. 02	22-22 30 00	Plumbing Drain	Plumbing Fixtures	PFDRN															No																											No	
Plmb. 03	22-22 30 00	Plumbing Valves	Pipe Accessories	PAVLV															No																											No	
Plmb. 04	22-22 30 00	Plumbing Vents	Plumbing Fixtures	PFVNT															No																										No		
Plmb. 05	22-22 40 00	Plumbing Fixtures	Plumbing Fixtures	PFFIX															Yes																										Yes		
Plmb. 06	22-22 40 00	Water Heaters & Tanks	Mechanical Equipment	MQWHR															Yes																									Yes			
Plmb. 07	22-22 61 00	Plumbing Misc. Equipment	Plumbing Fixtures	PFEQP															Yes																									Yes			





<b>Project #:</b>  <b>Schedule Identifier NAME -</b> Match with Schedule Names in the LACCD BIM Review Form & Schedule Names in the LACCD BIM ASSET Revit Template  <b>Omniclass Schedule Identifier NUMBER -</b> Match with Schedule Numbers in the LACCD BIM Review Form & Schedule Numbers in the LACCD BIM ASSET Revit Template	  <b>Object Information Needed →</b>  <b>Minimum Elements to be Modeled ↓</b>	<b>Project Name:</b>  <b>Family Category / Schedule Category</b> Revit Families for the Elements should be defined within this Category. The Elements can then be scheduled in Revit using the same specific Category from the list of Schedule Categories provided.	<b>Description Metadata in Native Authored BIM Elements</b>  1.001 Name 1.002 Description 1.003 ID Tag 1.004 Location (Describe Space Name & Room No) 1.005 Floor Number (Level) 1.006 Mounting Height (Model in Correct Location) 1.007 Size (Dimension / Thickness) 1.008 Type Name 1.009 Material (if Applicable) 1.010 Quantity 1.011 Omniclass 2010 Table 21 (Uniformity) 1.012 Omniclass 2010 Table 23 Category 1.013 System and Zone Information 1.014 Clearance Requirements 1.015 Design / Performance Metadata	<b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet TYPE Tab</b>  1.016 Type Name (Repeat) 1.017 Omniclass 2010 Table 23 Category (Repeat) 1.018 Type Description (COBie Type) 1.019 Asset Type (Fixed / Moveable) 1.020 Manufacturer 1.021 Model Number 1.022 Warranty Guarantor Parts 1.023 Warranty Duration Parts (in months) 1.024 Warranty Guarantor Labor 1.025 Warranty Duration Labor (in months) 1.026 Manufacturer's Warranty Duration 1.027 Replacement Cost 1.028 Expected Life (in months)	<b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet COMPONENT Tab</b>  1.029 Component Name (COBie Component) 1.030 Floor Number (Level) (Repeat) 1.031 Type Name (Repeat) 1.032 Location (Repeat) 1.033 Component Description (COBie) 1.034 Serial Number 1.035 Installation Date 1.036 Warranty Start Date 1.037 Tag Number 1.038 Barcode / RFID Tag 1.039 Asset Identifier <b>Model Existing Objects (to Remain) in Renovation Project?</b> Existing Condition Elements to be modeled in Renovation BIM? <b>Existing Objects*</b> Metadata to include Name; Description; ID Tag
		<b>Keynote</b> Add to an Object's Family for Automatic Filling of Schedules in the LACCD BIM ASSET Revit Template			
		(for this project). Spreadsheet for additional clarifications.			

### Audio-Visual Model Objects


Object ID	Object Name	Object Category	Object Code	1.001	1.002	1.003	1.004	1.005	1.006	1.007	1.008	1.009	1.010	1.011	1.012	1.013	1.014	1.015	1.016	1.017	1.018	1.019	1.020	1.021	1.022	1.023	1.024	1.025	1.026	1.027	1.028	1.029	1.030	1.031	1.032	1.033	1.034	1.035	1.036	1.037	1.038	1.039	Model Existing Objects (to Remain) in Renovation Project?	
AV.01	22-11 52 13	Audio-Video Projector Screens/ Smart Screens	Electrical Equipment	EQSSC																																							No	
AV.02	22-11 52 16	Projectors	Electrical Equipment	EQPRJ																																								Yes
AV.03	22-27 11 19	Communications Termination Panels	Electrical Equipment	EQPNL																																								Yes
AV.04	22-27 11 19	Data Communications Panel Board	Communication Devices	CDPNL																																							Yes	
AV.05	22-27 41 16	Speakers	Communication Devices	CDSPK																																							No	
AV.06	22-27 53 13	Clock Systems (Master Clock Controller Only)	Communication Devices	CDCLK																																							Yes	
No Schedule		AV Outlets (Optional to model)		-N/A-																																						No		

**Project #:**

**Schedule Identifier NAME -**  
Match with Schedule Names in the LACCD BIM Review Form & Schedule Names in the LACCD BIM ASSET Revit Template

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**Omniclass Schedule Identifier NUMBER -**  
Match with Schedule Numbers in the LACCD BIM Review Form & Schedule Numbers in the LACCD BIM ASSET Revit Template



**Object Information Needed →**

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**Minimum Elements to be Modeled ↓**

**Project Name:**

**Family Category / Schedule Category**  
Revit Families for the Elements should be defined within this Category. The Elements can then be scheduled in Revit using the same specific Category from the list of Schedule Categories provided.

**Keynote**  
Add to an Object's Family for Automatic Filing of Schedules in the LACCD BIM ASSET Revit Template

**Description Metadata in Native Authored BIM Elements**

- 1.001 Name
- 1.002 Description
- 1.003 ID Tag
- 1.004 Location (Describe Space Name & Room No)
- 1.005 Floor Number (Level)
- 1.006 Mounting Height (Model in Correct Location)
- 1.007 Size (Dimension / Thickness)
- 1.008 Type Name
- 1.009 Material (If Applicable)
- 1.010 Quantity
- 1.011 Omniclass 2010 Table 21 (Uniformity)
- 1.012 Omniclass 2010 Table 23 Category
- 1.013 System and Zone Information
- 1.014 Clearance Requirements
- 1.015 Design / Performance Metadata

**M&O Attributes Metadata in the COBie Asset Data Spreadsheet TYPE Tab**

- 1.016 Type Name (Repeat)
- 1.017 Omniclass 2010 Table 23 Category (Repeat)
- 1.018 Type Description (COBie Type)
- 1.019 Asset Type (Fixed / Moveable)
- 1.020 Manufacturer
- 1.021 Model Number
- 1.022 Warranty Guarantor Parts
- 1.023 Warranty Duration Parts (in months)
- 1.024 Warranty Guarantor Labor
- 1.025 Warranty Duration Labor (in months)
- 1.026 Manufacturer's Warranty Duration
- 1.027 Replacement Cost
- 1.028 Expected Life (in months)

**M&O Attributes Metadata in the COBie Asset Data Spreadsheet COMPONENT Tab**

- 1.029 Component Name (COBie Component)
- 1.030 Floor Number (Level) (Repeat)
- 1.031 Type Name (Repeat)
- 1.032 Location (Repeat)
- 1.033 Component Description (COBie)
- 1.034 Serial Number
- 1.035 Installation Date
- 1.036 Warranty Start Date
- 1.037 Tag Number
- 1.038 Barcode / RFID Tag
- 1.039 Asset Identifier

**Model Existing Objects (to Remain) in Renovation Project?**  
Existing Condition Elements to be modeled in Renovation BIM?

**Existing Objects:** Metadata to include Name; Description; ID Tag


(for this project).

Spreadsheet for additional clarifications.

**Security and Low Voltage Model Objects**

Secu.	22-28	10 00	Elect Access Control & Intrusion Detection	Security Devices	SDCRL
<b>Secu. 01</b>	22-28	10 00	Elect Access Control & Intrusion Detection	Security Devices	SDCRL
<b>Secu. 02</b>	22-28	13 33	Access Control Interface (Security Panels)	Security Devices	SDACC
<b>Secu. 03</b>	22-28	31 00	Fire Detection & Alarm (Smoke Detectors, etc.)	Fire Alarm Devices	FADET
<b>Secu. 04</b>	22-28	31 33	Fire Alarm Annunciator Panels & Stations	Electrical Equipment	EQFPNL
<b>Secu. 05</b>	22-28	32 33	Radiation and Alarm Detection Sensors	Lighting Devices	LDSNS
<i>No Schedule</i>			Data Outlets (Optional to model)	-N/A-	-N/A-




<b>Project #:</b>		<b>Project Name:</b>	
<b>Schedule Identifier NAME -</b> Match with Schedule Names in the LACCD BIM Review Form & Schedule Names in the LACCD BIM ASSET Revit Template		<b>Object Information Needed →</b>	
<b>Family Category / Schedule Category</b> Revit Families for the Elements should be defined within this Category. The Elements can then be scheduled in Revit using the same specific Category from the list of Schedule Categories provided.			
<b>Keynote</b> Add to an Object's Family for Automatic Filling of Schedules in the LACCD BIM ASSET Revit Template			
<b>Description Metadata in Native Authored BIM Elements</b>			
1.001 Name			
1.002 Description			
1.003 ID Tag			
1.004 Location (Describe Space Name & Room No)			
1.005 Floor Number (Level)			
1.006 Mounting Height (Model in Correct Location)			
1.007 Size (Dimension / Thickness)			
1.008 Type Name			
1.009 Material (If Applicable)			
1.010 Quantity			
1.011 Omniclass 2010 Table 21 (Uniformity)			
1.012 Omniclass 2010 Table 23 Category			
1.013 System and Zone Information			
1.014 Clearance Requirements			
1.015 Design / Performance Metadata			
<b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet TYPE Tab</b>			
1.016 Type Name (Repeat)			
1.017 Omniclass 2010 Table 23 Category (Repeat)			
1.018 Type Description (COBie Type)			
1.019 Asset Type (Fixed / Moveable)			
1.020 Manufacturer			
1.021 Model Number			
1.022 Warranty Guarantor Parts			
1.023 Warranty Duration Parts (in months)			
1.024 Warranty Guarantor Labor			
1.025 Warranty Duration Labor (in months)			
1.026 Manufacturer's Warranty Duration			
1.027 Replacement Cost			
1.028 Expected Life (in months)			
<b>M&amp;O Attributes Metadata in the COBie Asset Data Spreadsheet COMPONENT Tab</b>			
1.029 Component Name (COBie Component)			
1.030 Floor Number (Level) (Repeat)			
1.031 Type Name (Repeat)			
1.032 Location (Repeat)			
1.033 Component Description (COBie)			
1.034 Serial Number			
1.035 Installation Date			
1.036 Warranty Start Date			
1.037 Tag Number			
1.038 Barcode / RFID Tag			
1.039 Asset Identifier			
<b>Model Existing Objects (to Remain) in Renovation Project?</b> Existing Condition Elements to be modelled in Renovation BIM			
<b>Existing Objects' Metadata to Include Name; Description; ID Tag</b>			

(for this project).

Spreadsheet for additional clarifications.


**LOS ANGELES COMMUNITY COLLEGE DISTRICT**  
DEPARTMENT OF FACILITIES PLANNING AND DEVELOPMENT  
SUSTAINABLE BUILDING PROGRAM

**Form DES-0002-E: Parameter ID Definitions for the BIM Asset Data Matrix DES-0002-D Spreadsheet**

 <p align="center"><b>Object Information Needed →</b></p>	<b>1.001</b>	<b>1.002</b>	<b>1.003</b>	<b>1.004</b>	<b>1.005</b>	<b>1.006</b>	<b>1.007</b>	<b>1.008</b>	<b>1.009</b>	<b>1.010</b>	<b>1.011</b>	
	<b>Name</b>	<b>Element Description</b>	<b>ID Tag</b>	<b>Location (Room Name; Room Number and other info)</b>	<b>Floor Number (Level)</b>	<b>Mounting Height (Placement)</b>	<b>Size (Dimension / Thickness)</b>	<b>Type Name</b>	<b>Material</b>	<b>Quantity</b>	<b>Omniclass 2010 Table 21 (Uniformity)</b>	
	<b>Responsible Discipline</b>	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	
	<b>Input Phase</b>	100% DD	100% DD	100% DD	Prior to DSA Submission	Prior to DSA Submission	Prior to DSA Submission	Prior to DSA Submission	100% DD	Prior to DSA Submission	100% DD	Prior to DSA Submission
	<b>Object Parameter Use</b>	Description	Description	Description	Description	Description	Description	Description	Description	Description	Description	
	<b>Object Parameter Name</b>	<b>Type</b> (Name identified in Type Properties, as in Family and Type)	<b>Description</b>	<b>Mark</b>	<b>COBie. Space. Name</b> (add in Revit <u>Space</u> properties, not in Room or Object properties)	<b>Level</b>	<b>Offset</b> (Not required to be scheduled. Offset of object in model to be correct)	<b>Dimensions</b> (as identified in Type Properties), or (optional) in COBie.Type.Size	<b>COBie. Type. Name</b>	<b>COBie. Type. Material</b>	<b>NA - Object correctly quantified in model</b>	<b>OmniClass_2 010_21</b>
	<b>Instance or Type Parameter</b>	Type	Type	Instance	Instance	Type	Instance	Type	Type	Type	NA	Type
	<b>Parameter Subcategory</b>	NA	Identity Data	Identity Data	Data	Constraints	Constraints	Dimensions	NA	Data	NA	Identity Data
	<b>Object Parameter Units</b>	(text)	(text)	(text)	(text)	(text)	NA	Inches	(text)	(text)	NA	(text)
	<b>Object Parameter Example(s)</b>	AHU	Air Handling Unit	AHU-3	Mechanical Rm 305	Level 2; Roof	NA	100"x87"x335"	AHU	Copper	NA	21.04.30.50.50
	<b>Revit Object Parameter Location</b>	Revit Default	Revit Default	Revit Default	COBie Toolkit	Revit Default	Revit Default	Revit Default	COBie Toolkit	COBie Toolkit	NA	User Added
	<b>Is Parameter used in Asset Data (COBie) Spreadsheet? Parameter Location in Asset Data (COBie) Spreadsheet?</b>	<b>NO</b> (COBie.Type.Name used instead)	<b>NO</b> (COBie.Type & COBie.Component Description used instead)	<b>NO</b> (COBie.Component Name used instead)	<b>YES</b> - Component tab: <b>Space</b> ; Space tab: <b>Name</b>	<b>YES</b> - Space tab: <b>Floor Name</b>	<b>NO</b> (Note: Offset data does not schedule)	<b>YES</b> - Type tab: <b>Size</b> (if COBie.Type.Size used)	<b>YES</b> - Type tab: <b>Name</b> ; Component tab: <b>Type Name</b>	<b>YES</b> - Type tab: <b>Material</b>	NA	<b>NO</b>


**LOS ANGELES COMMUNITY COLLEGE DISTRICT**  
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SUSTAINABLE BUILDING PROGRAM

**Form DES-0002-E: Parameter ID Definitions for the BIM Asset Data Matrix DES-0002-D Spreadsheet**

 <p align="center"><b>Object Information Needed →</b></p>	1.012	1.013	1.014	1.015	1.015	1.018	1.019	1.020	1.021	1.022	1.023	1.024	
	Omniclass 2010 Table 23 Category	System and Zone Information	Clearance Requirements	Design / Performance Metadata	(Created during design and verified/updated during Construction)	Type Description (define for COBie Type Schedule)	Asset Type (Fixed / Moveable)	Manufacturer	Model Number	Warranty Guarantor Parts	Warranty Duration Parts (in months)	Warranty Guarantor Labor	
	<b>Responsible Discipline</b>	Architect / Engineer	Architect / Engineer	Architect / Engineer	Architect / Engineer	Contractor / Installer	Architect / Engineer	Architect / Engineer	Contractor / Installer	Contractor / Installer	Contractor / Installer	Contractor / Installer	Contractor / Installer
	<b>Input Phase</b>	Prior to DSA Submission	Prior to DSA Submission	Prior to DSA Submission	100% DD and Installation or	Construction Substantial Completion	Prior to DSA Submission	Prior to DSA Submission	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion
	<b>Object Parameter Use</b>	Description	Description	Description	Performance		M&O	M&O	M&O	M&O	M&O	M&O	M&O
	<b>Object Parameter Name</b>	<b>COBie.Type. Category</b>	<b>Space Name and Space Number (Revit Analytical Space) Linked to a Zone</b>	<b>NA - Clearance Requirements should be modeled</b>	<b>Parameters vary, and are created for scheduling using Revit objects</b>		<b>COBie. Type. Description</b>	<b>COBie. Type. Asset Type</b>	<b>COBie. Type. Manufacturer</b>	<b>COBie. Type. Model Number</b>	<b>COBie. Type. Warranty Guarantor Parts</b>	<b>COBie. Type. Warranty Duration Parts</b>	<b>COBie. Type. Warranty Guarantor Labor</b>
	<b>Instance or Type Parameter</b>	Type	Instance	NA	varies		Type	Type	Type	Type	Type	Type	Type
	<b>Parameter Subcategory</b>	Data	Identity Data	NA	varies		Data	Identity Data	Data	Data	Data	Data	Data
	<b>Object Parameter Units</b>	(text)	(text)	NA	varies		(text)	Pick List	(text)	(text)	(text)	Months	(text)
	<b>Object Parameter Example(s)</b>	23.33.25.00	Mechanical Rm; 305	NA	varies		Haakon Outdoor AHU	Fixed or Moveable	Haakon	AH374959694	XYZ Mechanical	48 Months	XYZ Mechanical
	<b>Revit Object Parameter Location</b>	COBie Toolkit	Revit Default	NA	varies		COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit
	<b>Is Parameter used in Asset Data (COBie) Spreadsheet? Parameter Location in Asset Data (COBie) Spreadsheet?</b>	<b>YES - Type tab: Category</b>	<b>NO (COBie.Space.Name used instead)</b>	NA	<b>NO</b>		<b>YES - Type tab: Description</b>	<b>YES - Type tab: Asset Type</b>	<b>YES - Type tab: Manufacturer</b>	<b>YES - Type tab: Model Number</b>	<b>YES - Type tab: Warranty Guarantor Parts</b>	<b>YES - Type tab: Warranty Duration Parts</b>	<b>YES - Type tab: Warranty Guarantor Labor</b>

**LOS ANGELES COMMUNITY COLLEGE DISTRICT**  
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SUSTAINABLE BUILDING PROGRAM

**Form DES-0002-E: Parameter ID Definitions for the BIM Asset Data Matrix DES-0002-D Spreadsheet**

  <b>Object Information Needed →</b>	<b>1.025</b>	<b>1.026</b>	<b>1.027</b>	<b>1.028</b>	<b>1.029</b>	<b>1.033</b>	<b>1.034</b>	<b>1.035</b>	<b>1.036</b>	<b>1.037</b>	<b>1.038</b>	<b>1.039</b>
	Warranty Duration Labor (in months)	Manufacturer's Warranty Duration (if different from Contractor warranty)	Replacement Cost	Expected Life (in months)	Component Name (define for COBie Component Name in spreadsheet)	Component Description (define for COBie Component Schedule)	Serial Number	Installation Date	Warranty Start Date	Tag Number (Contractor or Installer's Tag, if applicable)	Barcode / RFID Tag	Asset Identifier
<b>Responsible Discipline</b>	Contractor / Installer	Contractor / Installer	Contractor / Installer	Contractor / Installer	Architect / Engineer	Architect / Engineer	Contractor / Installer	Contractor / Installer	Contractor / Installer	Contractor / Installer	Campus Facilities	Campus Facilities
<b>Input Phase</b>	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	100% DD	Prior to DSA Submission	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion	Installation or Const. Sub. Completion
<b>Object Parameter Use</b>	M&O	M&O	M&O	M&O	Description	Description	M&O	M&O	M&O	M&O	M&O	M&O
<b>Object Parameter Name</b>	<b>COBie.Type. Warranty Duration Labor</b>	<b>Manufacturer . Warranty Duration</b>	<b>COBie. Type. Replacement Cost</b>	<b>COBie. Type. Expected Life</b>	<b>COBie. Component. Name</b>	<b>COBie. Component. Description</b>	<b>COBie. Component. Serial Number</b>	<b>COBie. Component. Installation Date</b>	<b>COBie. Component. Warranty Start Date</b>	<b>COBie. Component. Tag Number</b>	<b>COBie. Component. BarCode</b>	<b>COBie. Component. Asset Identifier</b>
<b>Instance or Type Parameter</b>	Type	Type	Type	Type	Instance	Instance	Instance	Instance	Instance	Instance	Instance	Instance
<b>Parameter Subcategory</b>	Data	Identity Data	Data	Data	Data	Data	Data	Data	Data	Data	Identity Data	Data
<b>Object Parameter Units</b>	Months	Months	Dollars	Months	(text)	(text)	(text)	mm-dd-yyyy	mm-dd-yyyy	(text)	(text)	(text)
<b>Object Parameter Example(s)</b>	48 Months	NA	\$55,000.00	180 Months	AHU-3	Haakon Outdoor AHU	12-33999933-99	9/17/2014	10/25/2014	301.2	3000345153	855555
<b>Revit Object Parameter Location</b>	COBie Toolkit	User Added	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit	COBie Toolkit
<b>Is Parameter used in Asset Data (COBie) Spreadsheet? Parameter Location in Asset Data (COBie) Spreadsheet?</b>	<b>YES - Type tab: Warranty Duration Labor</b>	<b>YES - User Added to Spreadsheet in Type tab</b>	<b>YES - Type tab: Replacement Cost</b>	<b>YES - Type tab: Expected Life</b>	<b>YES - Component tab: Name</b>	<b>YES - Component tab: Description</b>	<b>YES - Component Tab: Serial Number</b>	<b>YES - Component Tab: Installation Date</b>	<b>YES - Component Tab: Warranty Start Date</b>	<b>YES - Component Tab: Tag Number</b>	<b>YES - Component Tab: BarCode</b>	<b>YES - Component Tab: Asset Identifier</b>