

## LOS ANGELES COMMUNITY COLLEGE DISTRICT

DEPARTMENT OF FACILITIES PLANNING AND DEVELOPMENT SUSTAINABLE BUILDING PROGRAM

Form DES-0002-D: BIM Asset Data for Design and As-Built Documentation for New Construction and Renovation

	Project #:	Form DES-0002-D: BIM Asset Data for Design and As-Built Documentation for New Construction and Renovation  Project #:  Project Name:  Project Name:  Design / Performance Metadata  M&O Attributes Metadata in the COBie  M&O Attributes Metadata in the COBie																										
	<b>,</b>	ە خ		Descrip	tion Met	adata									Metada	ata in th	he CC	DBie		M&O	Attri				he COBie	9	a.	
ಳ -		ategor		in Nativ	e Autho	red BIN	/ Elemei	nts			Native Authored BIM Elements		set Data												/IPONEN		ject?	Notes
Schedule Identifier NAME - Match with Schedule Names in the LACCD BIM Review Form & Schedule Names in the LACCD BIM ASSET Revit Template OmniClass Schedule Identifier NUMBER - Match with Schedule Numbers in the LACCD BIM Review Fom Schedule Numbers in the LACCD BIM Review Fom	Object Information Needed →  Minimum Elements to be Modeled ↓	Family Category / Schedule Category Revit Families for the Elements should be defined within this Ca The Elements can then be scheduled in Revit using the same s Category from the list of Schedule Categories provided.	Keynote Add to an Object's Family for Automatic Fillering of Schedules in the LACCD BIM ASSET Revit Template	Name Description	ID Tag  Location (Describe Space Name & Room No)	Floor Number (Level)  Mounting Height (Model in Correct Location)	Size (Dimension / Thickness) Type Name	Material (ir Applicable) Quantity	Omniclass 2010 Table 21 (Uniformat) Omniclass 2010 Table 23 Category System and Zone Information	Clearance Requirements Design / Performance Metadata	Attributes listed here are for example only. Record data for all attributes shall be as required per Basis of Design and/or DSA Approval.	Type Name (Repeat)	Omniclass 2010 Table 23 Category (Repeat) Type Description (COBie Type)	Asset Type (Fixed / Moveable)	Manufacturer Model Number	Warranty Guarantor Parts	Warranty Duration Parts (in months)		Replacement Cost Expected Life (in months)	Component Name (COBie Component)	Floor Number (Level) (Repeat)  Type Name (Repeat)	Location (Repeat)	Component Description (COBie Component) Serial Number	Jerial Namber	Warranty Start Date Tag Number	Barcode / RFID Tag Asset Identifier	Model Existing Objects (to Remain) in Renovation Proj Existing Condition Elements to be modeled in Renovation BIM Existing Objects' Waladata to Include Name; Description	See notes below regarding New Construction BIM versus Renovation BIM elements, etc.  Additional notes, instructions and definitions of Object Information Metadata needed can be found in Form DES-0002-E: Parameter ID Definitions for the BIM Asset Data Matrix DES-0002-D Spreadsheet
Util. 01 22-26 12 00	Site Utilities Transformers	Electrical Equipment	EQTRM	хх	x x	X	хх	XX		XX		X	X		Х	X	X >	C X		X	X	<b>4</b>	X	Y	X		Yes X	
Util. 02 22-33 49 00	Utilities Back-Flow Preventor Fire Valve	Multiple Categories	MCBFP	XX	XX	X	XX	XX	X	X	pipe size, depth	X	X		XX	X	X >	X		X	X		X	X	X		Yes	
No Schedule No Schedule	Fire Hydrants Utilities (Optional to model) Utilities Catch Basin (Optional to model)		MCFHD MCCBS	XX	XX	X	XX	XX			static pressure, residual pressure, flow rate	X	X							X	X		X				No No	
	Utilities Manholes (Optional to model)		MCMNH	X X	XX	X	XXX	XXX			Top elevation, invert elevation  Top elevation, invert elevation	X	X							X	X		Ŷ				No	
No Schedule	Utilities Valves (Optional to model)		MCVLV	ΧX	ХХ	Х	ХХ	ХХ	X	Х	depth, per basis of design	Х	Х		ХХ	X	X >	( X		Х	Х		Х	Х	Х		No	
Lsp. 01 22-32 80 00	Landscape Irrigation (System Controllers only)	Multiple Categories	MCIRG	X Y	У	Y	хх	x	v	y v	flow rate, gpm, controller type	У	V			Y	χ	( Y	V	У	V		χП	V	X		No	Model Existing Site features
	Site Features		MCIRG -N/A-	X X X X	ХХ	X	x x	XX		X	now rate, gpin, condoner type	X	X		хх	X	X >	άx		X	X	X	X	X	X		No	whenever possible.
Arch 04   22 05 54 00	Architectural Model	B	ADDAAD	V	V		V	V V			Usadesil ADA Compliants and the second		V		V						V.		V II				Ve-	11
Arch. 01 22-05 51 00 Arch. 02 22-05 51 00	Stairs (Architectural Information)		ARRMP ARSTR	X X	X		X X X	X X		X	Handrail ADA Compliance requirements shall be modeled Handrail ADA Compliance requirements shall be modeled	X	X		XX	X				X	X		X				Yes	
Arch. 03 22-05 52 00		Railings	ARRLG	XX	X		XX	X X		X	Handrail ADA Compliance requirements shall be modeled	X	X		XX	X				X	X		X				Yes	
	Roofing Systems	Roofs	ARRFG	XX	XX		X X	XX	X	X	fire rating, R-value	X	XX		X X		X		X	X	X		X				Yes	
Arch. 05 22-08 10 00 Arch. 06 22-08 50 00		Doors Windows	ARDOR ARWDW	X X	XX			X X X X	X	X	hardware group, glazing type, fire rating, frame type  fire rating, frame type, glazing type, u-value		X X X X		XX		X X			X	XX	X X X					Yes X Yes X	
Arch. 07 22-09 50 00		Ceilings	ARCLG	XX	XX			XX	X		recycled content, fire rating, resilience	X	XX		XX	X	,		X	X	XX	X	X	Х	Х		Yes	
	Room Finishes (Floor and Ceiling)	Rooms	-N/A-	XX	XX	XX	X	XX		X	Finishes, Offset, Recycled content, slip resistance, resilience	Х	X		X	X	X	X		X	X	X	X	X	X		No	
	Loading Dock Equipment Furniture Systems (Casework, Cabinets)	Specialty Equipment  Casework	SQLDE ARCWK	XX		x X	X X	XX	XX	X	fire rating, R-value	X	XX		XX	X	X	( X	X	X	X		X	X	X		Yes X No	New Construction BIMs shall contain model elements
Arch. 11 22-12 36 00	Countertops	Casework	ARCWK	XX		X X	XX	XX		X		X	X		XX	X				X	XX		X				No	accurately described and
Arch. 12 22-14 00 00	Conveying Equipment (Elevators Escalators)	Specialty Equipment	SQELV	X X			x x	XX	XX	XX	current voltage, frequency, capacity, speed, amps, motor power	X	XX		XX	X				X	Х		X				Yes X	located - based upon requirements of Program +
No Schedule	quipment on Page 2 of this Matrix   Fenestration (curtain wall, storefront)		-N/A-	хх	x x	X	x x	x x	X		fire rating, frame type, glazing type, u-value	x	x x		<b>x</b> x	X	x >	( X		х	х	$\mathbf{x} \mid \mathbf{x} \mid \mathbf{x}$	x				Yes	Criteria and DSA Approved
	Walls			X X	X	X	x x	X	VV	X	fire rating, R-value, STC rating	X	X				Ų,			X	X		X		V		Yes X	Drawings. New Construction BIM elements should also
No Schedule	Movable Furniture (incl. Work Stations) Structural Model		-N/A-	XX	Λ	X	X X	A X	XX	XX		ΙΙΧ	X X		XXX	X	X )	X		X	X			X	Ā		NO	include detailed asset data as
_	Beam Systems	Structural Beam Systems	-N/A-	ХХ	ХХ	X	хх	XX	Х	ХХ	per Basis of Design, DSA Requirements	Х	Х							Х	Х		Х				Yes	noted in this matrix.
Struc. 02	Column Systems	Structural Columns	-N/A-	XX	XX	X	XX	XX	X		per Basis of Design, DSA Requirements	X	X							X	Х		X				Yes	Renovation BIMs shall, at a
Struc. 03 Struc. 04	Foundations (incl. Footings and Grade Beams) Trusses	Structural Foundations Structural Trusses		X X X	XX	X	X X X	X	X		per Basis of Design, DSA Requirements  per Basis of Design, DSA Requirements	X	X							X	X		X				No Yes	minimum, contain the model objects defined (in red) as
Struc. 05	Framing (incl. Brace Frames & Shear Walls)	Structural Framing		XX	XX	X	X X	x x	X		per Basis of Design, DSA Requirements	X	X							X	X		X				Yes	"Yes" in the "Model Existing
	Stairs (Structural Information)		STSTR	XX	X		XX	X X	26	Х		Х	X		XX	X				Х	Х		X				Yes	Objects (to Remain) in Renovation Projects?"
No Schedule	Floor Slabs / Decks Mechanical Systems Model		-N/A-	ХХ	XX	ХХ	ХХ	X	X	X	ver Basis of Design, USA Requirements	X	X							X	X X		A				res X	column in this matrix.
_	Instrumentation/Control Thermostats	Mechanical Equipment		ХХ			Х	Х	X			X								Х	Х		x				Yes X	Renovation BIM elements should also include asset data
	Hydronic Pumps	Mechanical Equipment	MQPMP MQPWT	XX	XX	XX	XX	X	XX		current, voltage, frequency, flow rate, pressure, controller type	X	$X \mid X$		X X X X	X	XX	X	XX	X	XX		X   X   X   >	/ V	x x	v	Yes X	as defined ( in red ) in the
Mech. 03   22-23 25 00 No Schedule	Cooling Tower Water Treatment Assemblies Ductwork (Air Ducts, etc)	Mechanical Equipment	MQPWT -N/A-	X X X	<b>A</b>	X	X X	<b>X</b>	X	XX		X			XXX	X	X	X	X X	X	XXX		^	X	X	X	Yes X Yes X	"Existing Objects' Metadata to Include:" columns in this
Mech. 04 22-23 33 13	Motors (incl. Motorized Dampers)	Mechanical Equipment	MQDMP		x x	XX	x		X		current, voltage, frequency, power, phase, efficiency	X	X		x x			X	x x		$\hat{\mathbf{x}}$	x 2		X	XX	X	No	matrix
	HVAC Fans	Mechanical Equipment	MQFAN MQDSL	$X \mid X$	XX	XX	XX	X	XXX		air flow, fan speed, fan motor power, phase	X	XX		X X			( X	X X	X	$X \mid X$		X   >	( X		X	Yes X	
	Duct Silencers Air Curtain Fans	Mechanical Equipment  Mechanical Equipment	MQDSL MQACT		X X X X	х х	XXX	X	X X X		current, voltage, frequency, service, flow rate	X			x x	x	X	( X	XX	X	X X	( X )	X    X    >	C X	XX	X	No Yes X	
Mech. 08 22-23 35 13	Sawdust Collection Systems (Industrial)		MQSDC	XX		XX	$\hat{\mathbf{x}}$	X		^		x			$\hat{\mathbf{x}}$			k x	Х	X	XX	(   X   )	X    >		XX	X	No	
	Constant Air Volume Boxes (CAV)	Mechanical Equipment	MQCAV	X X	XX	$X \mid X$	X	Х	X X X		current, voltage, frequency, inlet size, air flow, pressure drop		X X		XX	X	X	( X	XX	Х	X X	( X )	X	X	X		Yes X	
	Variable Air Volume Boxes (VAV) Air Terminals (Diffusers, Grilles, etc)	Mechanical Equipment  Air terminals	MQVAV ATGRL	XXX	XX	XXX	X	X	XXX	X	current, voltage, frequency, inlet size, air flow, pressure drop	X	XX		XX	X	X	X	XX	X	XX	X   X   2	X	X	X		Yes X Yes X	
Mech. 12 22-23 40 00	HVAC Air Cleaning Devices		MQACD	XX	хх	XX	x x	X		X	air flow, pressure drop, efficiency rating, filter type	Х	X		хх				X X	Х	$\mathbf{x} \mid \mathbf{x}$	x x	x D	X		X	No	
Mech. 13 22-23 52 00	Heating Boilers	Mechanical Equipment	MQBLR	X X	XX	$\mathbf{X} \mid \mathbf{X}$	X X	X	X X X		power, voltage, current, vent diameter, water flow, frequency, er	X	XX			X			XX	X	X X	$\mathbf{X} \mid \mathbf{X} \mid \mathbf{X}$	X    X		хх	Х	Yes X	
Mech. 14 22-23 62 00 Mech. 15 22-23 64 00	Compressors and Condenser Units	Mechanical Equipment  Mechanical Equipment	MQCMP MQCHL		X X X X		XX	V			<ul> <li>current, voltage, frequency, refrigerant type, capacity, speed</li> <li>power, voltage, current, capacity, water flow, frequency, energy</li> </ul>	×	X X		X X	X	XX	X	XX	X	XX	( X ) ( X )	×Π,	/ X	X X	X		
_	Air Handling Units	Mechanical Equipment	MQAHU	X X	X X	x x		X			fan flow, fan motor power, coil flow, coil velocity, coil capacity, ai		XX		XX				XX	x	$\hat{\mathbf{x}}$	X X Z	î∥′		XX	X		
Mech. 17 22-23 81 23	Computer Room AC		MQCRAC	X X	X X	X X	XX	Х	X X X			X	XX		XX	X	$X \supset$	( X	Х	X	X X	( X )	X	( X	XX	X	No	
Mech. 18 22-23 84 13 Mech. 19 22-23 84 16	Humidifiers Dehumidifiers	Mechanical Equipment  Mechanical Equipment		XX		XX	XX	X				X X			X X	X	X	X	X	X	X		x    x	X	X		No No	
22-23 04 10	Detratuiguieta	moonanica Equipment	חואים אויי	XX	∧   <b>X</b>	$X \mid X$	XX	A	X	1		$\perp$	X		_ A   X	N A	A   /	<b>\</b>	Λ.	X	X		∧ II	A	<b>^</b>	1 1	INO	II

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DEPARTMENT OF FACILITIES PLANNING AND DEVELOPMENT
SUSTAINABLE BUILDING PROGRAM

Form DES-0002-D: BIM Asset Data for Design and As-Built Documentation for New Construction and Renovation

	Project #:	Design and As-Built Documentation for New One:	Review Date: Reviewed By:																								
		Design / Performance Metadata	M&O Attributes Metadata in the COBie									Attribu	tes Me	~	Тад												
Schedule Identifier NAME - Match with Schedule Names in the LACCD BIM Review Form & Schedule Names in the LACCD BIM ASSET Revit Template OmniClass Schedule Identifier NUMBER - Match with Schedule Numbers in the LACCD BIM Review Form & Schedule Numbers in the LACCD BIM ASSET Revit Template	Minimum Elements to be Modeled ↓	Family Category / Schedule Category Revit Families for the Elements should be defined within this Categor 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 Fillering of Schedules in the LACCD BIM ASSET Revit Template	Name Description	Location (Describe Space Name & Room No)	Mounting Height (Model in Correct Location)	Size (Uimension / Ihickness)  Type Name	Material (If Applicable) str	Omniclass 2010 Table 21 (Uniformat) Omniclass 2010 Table 23 Category System and Zone Information	Clearance Requirements	table Authored BIM Elements  By State Authored BIM Elements  By State Authored BIM Elements  Attributes listed here are for example only. Record data for all attributes shall be as required per Basis of Design and/or DSA Approval.	Asse	Omniclass 2010 Table 23 Category (Repeat)  Type Description (COBie Type)				Tapor da	Warranty Duration Labor (in months) Manufacturer's Warranty Duration	Replacement Cost Expected Life (in months)	Component Name (COBie Component)	Type Name (Repeat)	Location (Repeat) Component Description (COBie Component)	Serial Number apa	Warranty Start Date A	Barcode / RFID Tag LAsset Identifier	Model Existing Objects (to Remain) in Renovation Project? Existing Condition Elements to be modeled in Renovation BIM	Notes  See notes below regarding New Construction BIM versus Renovation BIM elements, etc.  Additional notes, instructions and definitions of Object Information Metadata needed can be found in Form DES-0002-E: Parameter ID Definitions for the BIM Asset Data Matrix DES-0002-D Spreadsheet
Elec 04 00 00 44 00	Electrical and Lighting Systems Model		EOGLID II	V V	V	VV	V V	v	V	V		II v	v v	v II	v	VV	V	V			/ V	V V		/ V \	<b>/</b>	/	
Elec. 01 22-26 11 00 22-26 13 00	Generators & Substations Switchgear	Electrical Equipment  Electrical Equipment	EQSUB EQSGR		X	X	X   X   X   X	X	XX		X maximum output, operating weight, fuel type X current, voltage, frequency, operating weight, bus currents	X   .	XXX		X X X X	X X X X	X			X     X   2	X	X X X	II X X		X	Yes Yes	X
	Switchboards	Electrical Equipment	EQSBR		XXX	X	X X	X		X	X current, voltage, frequency, operating weight, bus currents	x	X			XX				X   X	( X	X X	XX	( X X	( )	Yes	X
Elec. 04 22-26 24 16	Panelboards (Distribution Panels)	Electrical Equipment	EQPBD		X X X	XX	X X	Х	XX	X	X current, voltage, frequency, phase, AIC rating	X	XX		X X	X X	X	X		X   X	( X	ХХ	XX	( X X	( )	Yes	X
Elec. 05 22-26 24 19 22-26 25 00		Electrical Equipment  Electrical Equipment	EQMOT EQBUS	XX		X	XXX	X	X	X	x current, voltage, frequency	X	X			X X X X			V	X   X	(	XX	X   X	XX	X 3	( No	
Elec. 07 22-26 26 00		Electrical Equipment	EQPSP			X X	X	X			X	X	X		XX	XX	X	x	X		XX	X		X		Yes	X
_	Electricity Metering	Electrical Equipment	EQMTR	X X	X X Z	x x	Х	Х			X	X	X			X X			Х		( X	X		Х	>	Yes	X
Elec. 09 22-26 27 19 Elec. 10 22-26 28 16		Electrical Fixture  Electrical Fixture	EFOLT EFSSR		X		X X	X	XX		current, voltage, frequency, panel name, panel circuit	X	X		X	хх		<b>,</b>		x	,   X	X X	$\parallel$ $\downarrow$ $\downarrow$	( x x	,     ,	No No	
Elec. 10 22-26 28 16 Elec. 11 22-26 28 16			EFSWT		X X X	<b>x</b>   $\hat{\mathbf{x}}$	XX	X	XX		x current, voltage, frequency x current, voltage, frequency, panel name, panel circuit	X	XX		XX	^ ^	1	^		î	( X	^ <b>^</b>	^   <b>^</b>	` ^ ^	`    1	No	
_	Variable-Frequency Motor Controllers		EFVFD		XXX	X X	X		Х		x current, voltage, frequency, power, phase, efficiency	X	X		X X	хх	X	x	хх	X X	( X	хх	X X	( x ⊃	( )	( No	New Construction BIMs shall contain model elements
Elec. 13 22-26 31 00			EQPVC		XX		XX	X	XX	X	X	X	XX			XX	X		v V	X   X	( X		XX	( X X	K >	Yes	accurately described and
Elec. 14   22-26 50 00   No Schedule	Light Fixtures (Interior and Exterior) Conduit & Cable Trays (Optional to model)	Lighting Fixtures	LFLGT -N/A-	X X X X	XXX	XX	X X X	X X	XXX	X	X current, voltage, frequency, lens type, lamp type, wattage	X	XX	^	XX	XX	. X	^	XX	X   X	X	XX	XX	X		Yes No	located - based upon requirements of Program +
	Plumbing Systems Model			X																							Criteria and DSA Approved
	Pumps (incl Sump Pumps)		PFPMP	XX	X X Z	XX	XX	X	X X X	X	X service, capacity, power requirements, operating weight	X	XX	X	X X	X X	X	X	X X	X	( X	XX	XX	( X )	( )	Yes	X Drawings. New Construction BIM elements should also
_	Plumbing Drain Plumbing Valves		PFDRN PAVLV	XX	X X	X X	X	X X X	X	X	demand, inlet/outlet size, pressure	x	X		A   A	хх	×	X		X	X	X	∥ ∣ <sub>x</sub>	( x		No No	include detailed asset data as
	Plumbing Vents		PFVNT	X X	A		<b>X X</b> :	x X	X		X slope, flow rate	X	X			XX	X	X		X	X	X	X	X		No	noted in this matrix.
	Plumbing Fixtures	-	PFFIX			XX	X X	X	X X X		X water supply fixture units, liters/flush, maximum flow rate		XX		XX	XX	X	X	Х		( X		X	( X X	( )	Yes	X Renovation BIMs shall, at a
	Water Heaters & Tanks Plumbing Misc. Equipment		MQWHR PFEQP	X X X		X X X	X X X	X	X		x pressure, operating weight, capacity x pressure, operating weight, capacity	X	X	X    :	XX	X X X X	X	X		X   X		X X	XX	(	X   3	Yes	minimum, contain the model
	Fire Suppression Systems Model	3		XX	X	X //	XX	X	^		A process of the state of the s		X		XX	X	, A			X /	· /	X X	^ ^	X /	, ,		objects defined (in red) as "Yes" in the "Model Existing
	Fire-Suppression System Sprinkler Heads		FAFSP	XX	X   2	XX	XX	X	X	X	X head type, thread size	X	X		X X	XX	X	X	, ,	X	( X	X X	X			Yes	Objects (to Remain) in Renovation Projects?"
	Fire-Extinguishing Systems Fire Pumps	Fire Alarm Devices Fire Alarm Devices	FAFEX FAFPM	X X X	X X X	X X X	X X X	X	x x x	X	X capacity, rating X frequency, rated flow, churn pressure, controller type	X	X X	X	X X X X	X X X X			X X X X		XX	X X	XXX	( X X X	( )	No Yes	column in this matrix.
	Audio-Visual Model Objects								X		- The state of the			A		, , ,				,, ,			^		-		Renovation BIM elements should also include asset data
	Audio-Video Projector Screens/ Smart Screens	Electrical Equipment	EQSSC		XX		XX	X X	X	Х		X	XX	X		XX		Х		X	( X	XX	X	( X		Yes	x as defined (in red) in the
	Projectors Communications Termination Panels		EQPRJ EQPNL		XX		XX	X	XX		X power requirements, bulb type		X X X X	X    .	XX	X X X X	X	X	X X	X   X	X X	XX		( X ) ( X )		Yes Yes	X "Existing Objects' Metadata X to Include:" column in this
	Data Communications Panel Board			X X X X	X X X X	^ X Х X	X X X X	X	XX	X	X current, voltage, frequency, phase, AIC rating X current, voltage, frequency, phase, AIC rating	X	X X		л X Х X	X X	X	X		X	( X	X X	XX	( X )		Yes Yes	
AV.05 22-27 41 16	Speakers	Communication Devices	CDSPK	XX	$X \mid X \mid X$	X X	X X	Х	X			X	X	X	X X	XX	X	X		X   X	( X	X X	X	( X		Yes	X
AV.06 22-27 53 13  No Schedule	Clock Systems (Master Clock Controller Only)  AV Outlets (Optional to model)		CDCLK -N/A-	X X X	X X Z	XX	X X X	X	XX	X	X current, voltage, frequency, phase, AIC rating	X	XX		XX	X X	X	X		X	( X	XX	XX	( X )	<b>(</b>	Yes	X
No Schedule	Security and Low Voltage Model Objects		-1W/A-	^   ^	A   A   A	^ ^	^ <b>^</b>	Α.	X		^		ΛΑ		^					/	\	A A	ш				
	Elect Access Control & Intrusion Detection	Security Devices	SDCRL				ХХ	Х	XX	Х	X current, voltage, frequency, power requirements	Х	ХХ	Х	ХХ	ХХ	Х	Х		X	( X	ХХ		( X )	( )	Yes	X
	Access Control Interface (Security Panels)		SDACC FADET		XXX	XX	XX	X	XX	X	X current, voltage, frequency, phase, AIC rating	X	XX		XX	XX	X	X		X	X	XX	XX	( X )	<u> </u>	Yes	
	Fire Detection & Alarm (Smoke Detectors, Fire Alarm Annunciator Panels & Stations			X X X X	X X X	XXX	X X X X	X	XX	X	X	X	X X X		X X X X	X X X X	X	X		XX	( X	X X	XX	( X	X >	Yes Yes	X
	Radiation and Alarm Detection Sensors	Lighting Devices	LDSNS	X X		XX	XX	X	XX	X	X	x	XX		XX	XX	X	X		X	X	XX	XX	( X )	( )	No	
No Schedule	Data Outlets (Optional to model)		-N/A-	X X	Х	Х	XX	Х	XX		X	Х	ХХ		Х					(X)	( X	XX				No	
FS. 01 22-11 40 00	Specialty Equipment Model Objects  Equipment - Foodservice	Specialty Equipment	SQFSQ	X X	Y Y Y	x x	X Y	Y	XX	Х	X current, power requirements, water supply, gas supply	l x	X Y	X III	x x	хх	Y	X		X	( Y	X X	 	( X X		Yes	X
	Equipment - Library			XX				XX	X X X	X	Х	X	X X	X	хх	X X	X	X		X	( X	X X	X X	( X X	K	Yes	X
Lab. 01 22-11 53 00	Equipment - Lab		SQLAB	XX	X X X	X X	X X	Х	X X	X	X current, power requirements, water supply, gas supply	X	$X \mid X$	X	X X	X X	X	Х		X   X	( X	$X \mid X$	X X	( X X	( )	Yes	
Arch. 13 22-41 33 00	Machining Equipment (Non-Movable) Additional Specialty Systems/Equipment		SEMAQ -N/A-	X X X X	XXXX	X   X   X   X	XXX	X	X	X	X	X	X		XX	X X X X	X	X			( X X	XX	X	( X		Yes Yes	X
	Additional Openaity Dystems/Equipment	<u> </u>		<u> </u>		^ ] ^ ]	^   ^   ·	^	1 1^	^_	Λ			11	^ <u> </u>	<b>∧   ∧</b>	^_	^		ш^⊥/	<b>、</b>	^ <u> </u>	<u> </u>	`   ^		162	<u>^   </u>

Gray "X" or a blank box indicates metadata NOT required in model elements (for this project).

Black "X" indicates metadata required in model elements. Refer to the Parameter ID Definitions Spreadsheet for additional clarifications.

Blue background color - Indicates input from Designers, Engineers, and Contractors in the BIM

Yellow background color - Indicates Input from Fabricators/Subcontractors in the BIM, and/or in an (Excel) Asset Data Spreadsheet

Rev 03.25.2016

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