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1	2	3
COBie WORKSHEET	WORKSHEET COLUMN (ATTRIBUTE)	DESCRIPTION
<b>Contact</b>	<b>Email</b>	One row for each discipline or organization that provides COBie information, including manufacturers and guarantors
	<b>CreatedBy</b>	Entered as an email that is listed in the Email column on the Contact worksheet
	<b>CreatedOn</b>	Date/time entered in ISO 8601 format, YYYY-MM-DDTHH:mm:ss (e.g. 2018-03-18T17:02:59)
	<b>Category</b>	Use OmniClass Table 34 Organizational Roles
	<b>Company</b>	The name of the company for the Email
	<b>Phone</b>	The telephone number for the Email.
<b>Facility</b>	<b>Name</b>	The Owner's Building Number (See Sections 3.4 and 5.4)
	<b>CreatedBy</b>	Entered as an email which must occur on the Contact worksheet
	<b>CreatedOn</b>	Date/time entered in ISO 8601 format, YYYY-MM-DDTHH:mm:ss (e.g. 2018-03-18T17:02:59)
	<b>Category</b>	Use OmniClass Table 11 Construction Entities by Function
	<b>ProjectName</b>	The Project Title
	<b>SiteName</b>	The name of the Site
	<b>LinearUnits</b>	The associated linear unit of measurement applied to all COBie information other than that found in the Attribute worksheet
	<b>AreaUnits</b>	The associated area unit of measurement applied to all COBie information other than that found in the Attribute worksheet
	<b>VolumeUnits</b>	The associated volume unit of measurement applied to all COBie information other than that found in the Attribute worksheet
	<b>CurrencyUnit</b>	The associated currency applied to all COBie information other than that found in the Attribute worksheet
	<b>AreaMeasurement</b>	The measurement method used to calculate areas. (e.g. BOMA, Standard Revit Area, etc.)
	<b>Description</b>	A general description of the facility
<b>Floor</b>	<b>Name</b>	One row for each vertical level to include foundations, floors, roofs, and site per the owner's requirements as indicated in the designer's contract drawings.
	<b>CreatedBy</b>	Entered as an email which must occur on the Contact worksheet
	<b>CreatedOn</b>	Date/time entered in ISO 8601 format, YYYY-MM-DDTHH:mm:ss (e.g. 2018-03-18T17:02:59)
	<b>Category</b>	Typical terms are: Floor, Roof, or Site. Value must occur in the FloorType column on the PickLists worksheet.
	<b>Elevation</b>	Elevation at the top of the floor structure
	<b>Height</b>	Distance between top of floor structure to bottom of structure above
TABLE CONTINUED ON NEXT PAGE		

TABLE E2 - STATE OF TENNESSEE - REQUIRED COBie WORKSHEETS AND ATTRIBUTES		
1	2	3
COBie WORKSHEET	WORKSHEET COLUMN (ATTRIBUTE)	DESCRIPTION
Space	Name	One row per functional space, per room. Multiple spaces in a room are possible
	CreatedBy	Entered as an email which must occur on the Contact worksheet
	CreatedOn	Date/time entered in ISO 8601 format, YYYY-MM-DDTHH:mm:ss (e.g. 2018-03-18T17:02:59)
	Category	Use FICM or OmniClass Table 13 Spaces by Function.
	FloorName	Must be a name listed on the Floor worksheet
	Description	The description of the space
	GrossArea/Net Area*	The total space area, See Facility > AreaMeasurement for information regarding GrossArea and NetArea measurement standard
Zone (Optional)*	Name	The name of the zone, There should be one row for each COBie.Space and COBie.Zone pairing.
	CreatedBy	Entered as an email which must occur on the Contact worksheet
	CreatedOn	Date/time entered in ISO 8601 format, YYYY-MM-DDTHH:mm:ss (e.g. 2018-03-18T17:02:59)
	Category	A classification for the identified Zone. Typical values are: Circulation Zone, Lighting Zone, Fire Alarm Zone, Historical Preservation Zone, Occupancy Zone, or Ventilation Zone. Value must occur in the ZoneType column on the PickLists worksheet
	SpaceNames	Entered as a Name that must occur on the Space worksheet
Type	Name	One row for each owner required equipment Type.
	CreatedBy	Entered as an email which must occur on the Contact worksheet
	CreatedOn	Date/time entered in ISO 8601 format, YYYY-MM-DDTHH:mm:ss (e.g. 2018-03-18T17:02:59)
	Category	Use OmniClass Table 23 Products (See Table D2, Column 3).
	Description	A general description of the asset type
	AssetType	Indicate if Type is “moveable” or “fixed”.
	Manufacturer	Entered as an email which must occur on the Contact worksheet
	ModelNumber	The model number of the installed product
	WarrantyGuarantorParts	Entered as an email which must occur on the Contact worksheet
	WarrantyDurationParts	The length of the warranty period for replacement parts
	WarrantyDurationUnit	The unit of measure for the durations listed in WarrantyDurationParts and WarrantyDurationLabor (e.g. year, month, etc.)
<p>*The use of the zones on the project, and therefore the Zone worksheet, is at the discretion of the State of Tennessee Project Manager, in conjunction with the Project Team, and based on the project’s scope.                      **COBie requirements for Gross Area and Net Area should be determined at the beginning of the project and documented in the BEP.</p>		
TABLE CONTINUED ON NEXT PAGE		





















27. Appendix D: Table D2, Consolidated Equipment Naming Standards and Attribute Table including OmniClass 23 mapping and Attribute Groups, Table D1 reference
28. Appendix E: Added Table E1 to clarify BIM Attribute/Parameter Values by responsibility, BIM Type and Project Stage.
29. Appendix E: Moved COBie Field Requirements from Appendix F to Appendix E.
30. Appendix G: Added BIM Process Map to clarify how BIM will be applied on projects including associated activities and information exchanges.

31. BIMs Section 3.5. Geo-referencing – Updated the requirements for expressing units when using the Tennessee State Plane Coordinate System

SECTION 1. Tenn. Code Ann. § 66-6-102, is amended by deleting the section and substituting:

*The plane coordinate values for a point on the earth's surface, used to express the geographic position or location of such point, must consist of two (2) distances expressed in United States survey feet and decimals of a foot when using the Tennessee Coordinate System of 1927, expressed in either United States survey feet and decimals of a foot or meters and decimals of a meter when using the Tennessee Coordinate System of 1983, and **expressed in either International feet and decimals of a foot or meters and decimals of a meter when using the Tennessee State Plane Coordinate System.** One (1) of these distances, to be known as the "East X-coordinate," must give the distance east of the Y axis; the other, to be known as the "North Y-coordinate," must give the distance north of the X axis. The Y axis of any zone must be parallel with the central meridian of that zone. The X axis of any zone must be at right angles to the central meridian of that zone.*