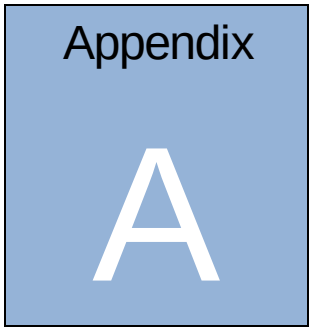

Appendix A: CAIS Data Element Dictionary

CAIS Data Element Dictionary

English Name	Element Name/ Window Name	Format	Definition
Access Optional	INSP_ACCESS_CODE *IU Detail*	Char(4)	Defines the access requirement of the inspection unit. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
Access Restrictions Field Office Required	*User Detail*	Char(2)	Specifies the Field Office that a user may access.
Access Restrictions Site Required	*User Detail*	Char(5)	Specifies the Site that a user may access.
Account Status Required	*User Detail*	Char(9)	Indicates whether a user's account is Suspended, meaning the user is unable to logon to CAIS, or is Active. This field is only visible on the User Detail window to Headquarters Field Office Administrators.
Actual Cost Optional	PROJ_ACTUAL_COST *Project Detail*	Num(12)	Represents the actual cost expenditures to complete the project.
Added by FIMS System Generated	ASTS_ADDED_BY_FIMS *Asset Detail*	Date	When a new real property asset is created in FIMS, FIMS will automatically add the asset to CAIS. This field represents the date (MM/DD/YYYY) the property was added to CAIS from FIMS.
Alternate Name	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information Management System (FIMS).

English Name	Element Name/ Window Name	Format	Definition
			The alternate name assigned to a specific property.
Approval Date Optional	PROJ_APPROVAL_DATE *Project Detail*	Date	Represents the date that project approval was received.
Archived by FIMS System Generated	ASTS_ARCH_BY_FIMS *Asset Detail*	Date	When a real property asset leaves the department's inventory, it is archived in FIMS. The field represents the date (MM/DD/YYYY) the property was archived in FIMS.
Area Cost Adders Selected Optional	*Area Cost Adders*		Checkbox that identifies when checked that the cost adder is applied to all the assets and IUs under the Area when the costs are calculated.
Area Cumulative Adders Selected Optional	*Area Cumulative Adders*		Checkbox that identifies when checked that the cost adder is applied to all the assets and IUs under the Area when the costs are calculated.
Area Name FIMS	AREA_NAME *Area List* *Asset Detail*	Char(35)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. A name that is assigned to identify an administrative subdivision of a Site.
Area Number FIMS	AREA_NUMBER *Area List*	Char(3)	This data field is imported from FIMS and is display only. A three-digit number that identifies an administrative subdivision of a Site.
Asset Cost Adders Selected Optional	*Asset Cost Adders*		Checkbox that identifies when checked that the cost adder is applied to the asset and all IUs associated with that Asset when the costs are calculated.
Asset Cumulative Adders Selected Optional	*Asset Cumulative Adders*		Checkbox that identifies when checked that the cost adder is applied to the asset and all IUs associated with that Asset when the costs are calculated.
Assigned Contractor	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information

English Name	Element Name/ Window Name	Format	Definition
			Management System (FIMS). The name of the company/contractor assigned responsibility for managing and maintaining the real property asset. This optional field is available for tracking asset responsibility at sites with multiple contractors.
Comments Optional	ASTS_COMMENT INSP_COMMENTS PROJ_DESC *Asset Detail* *IU Detail* *Project Detail*	Char(1000) Char(2000) Char(2000)	Text field that contains comments associated with the asset, IU or project record.
Completed Cost Optional	INSP_COMP_COST *IU Detail*	Num(14)	The actual cost to correct the deficiency.
Completion Year Optional	INSP_COMP_YR *IU Detail*	Num(4)	Completion Year (YYYY) represents the year in which the IU Status was changed to 'Complete' on the inspection unit record.
Component Required	COMP_DESC *IU Detail* *IU List*	Char(60)	Represents further detail of the WBS (Work Breakdown Structure). This also identifies the unit of measure associated with the Volume, WBS, and Component selected.
Condition Required	INSP_CONDITION_CODE *IU Detail*	Char(2)	Pick list that represents the condition associated with the inspection unit. Values are: • 10 - Excellent • 20 - Good • 30 - Adequate • 40 - Poor • 50 - Fail
Construction Complete Date	PROJ_CONSTRUCT_COMP_DATE	Date	Represents the date the construction phase of the project was completed.

English Name	Element Name/ Window Name	Format	Definition
Optional	*Project Detail*		
Construction Start Date Optional	PROJ_CONSTRUCT_START_DATE *Project Detail*	Date	Represents the date of initiation for the project construction.
Core Capability – Primary	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information Management System (FIMS) and is display only. The Core Capability from the FIMS pick list that would be most degraded should the asset fail to perform as intended.
Core Capability – Secondary	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information Management System (FIMS) and is display only. The Core Capability from the FIMS pick list that would be the second most degraded should the asset fail to perform as intended.
Core Capability - Tertiary	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information Management System (FIMS) and is display only. The Core Capability from the FIMS pick list that would be the third most degraded should the asset fail to perform as intended.
Core Capability - 4	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information Management System (FIMS) and is display only. The Core Capability from the FIMS pick list that would be the fourth most degraded should the asset fail to perform as intended.
Core Capability - 5	*Ad Hoc – Asset Level*		This data field is imported from the Facilities Information Management System (FIMS) and is display only.

English Name	Element Name/ Window Name	Format	Definition
			The Core Capability from the FIMS pick list that would be the fifth most degraded should the asset fail to perform as intended.
Created By System Generated	CEST_CREATED_BY *Estimate List*	Char(8)	Name of the CAIS user that created the Estimate.
Creation Date Optional	INSP_CREATION_DATE *IU Detail*	Date	System generated date when the inspection unit was created.
Default Location Area Required	 *User Detail*	Char(10)	Specifies the Area to be active each time the user enters CAIS.
Default Location Field Office Required	 *User Detail*	Char(2)	Specifies the Field Office to be active each time the user enters CAIS.
Default Location Site Required	 *User Detail*	Char(5)	Specifies the Site to be active each time the user enters CAIS.
Deferred Maintenance System Generated	ASTS_DM *Asset Detail* *IU List*	Num(10)	Maintenance that was not performed when it should have been or was scheduled to be and which, therefore, is put off or delayed for a future period. Maintenance costs and work **do not** include the following: • Regularly scheduled janitorial work such as cleaning and preserving facilities and equipment. • Work performed in relocating or installing partitions, office furniture, and other associated activities. • Work usually associated with the removal, moving, and placement of equipment. • Work aimed at expanding the capacity of an asset or otherwise upgrading it to serve needs different from or significantly greater than those originally intended. • Improvement work performed directly by in-house workers or in support of construction contractors

English Name	Element Name/ Window Name	Format	Definition
			accomplishing an improvement. • Work performed on special projects not directly in support of maintenance or construction. • Non-maintenance roads and grounds work, such as grass cutting and street sweeping.
Deferred Maintenance Calculation Method Optional	SDEF_DM_CALCULATION_METHOD *System Level Deficiency Cost*	Char(10)	Pick list to identify the value to be used for Deferred Maintenance. Defaults to IU. Values are: • Engineered • IU • Sys Level • Sys Level + IU
Deferred Maintenance Engineered Optional	SDEF_ENGINEERED_COST *System Level Deficiency Cost*	Num(10)	Represents an Engineer Estimated Cost for Deferred Maintenance by Volume.
Deferred Maintenance Flag Required	INSP_DM_FLAG *IU Detail*	Char(1)	A Yes/No field that indicates if the Official Cost associated with the inspection unit should be identified as Deferred Maintenance. Defaults to 'Yes'. The Repair Needs Flag, must equal 'Yes', for the Deferred Maintenance Flag to be set to 'Yes'. A value of 'Yes' indicates that the Official Cost from the inspection unit will be included in the assets Deferred Maintenance cost. A value of 'No' indicates that the Official Cost from the inspection unit will not be included in the assets Deferred Maintenance cost.
Deferred Maintenance IU System Generated	SDEF_IU_CALCULATED_COST *System Level Deficiency Cost*	Num(10)	Sum of the IU Deferred Maintenance for an asset by Volume.

English Name	Element Name/ Window Name	Format	Definition
Deferred Maintenance Sys Level System Generated	SDEF_DEF_MAINT_SYSTEM_LVL *System Level Deficiency Cost*	Num(10)	If the System Level DM flag = 'Yes', this is a calculated Deferred Maintenance cost by Volume based on the Percent Failed and Factor. Deferred Maintenance System Level = System Level Cost × System Level Factor × System Level Percent Failed
Description Optional	INSP_DESC *IU Detail*	Char(200)	Detailed description of the inspection unit.
Discipline Required	INSP_DISCIPLINE_CODE *IU Detail*	Char(3)	Describes the area of expertise of the individual performing the Condition Assessment. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
Discipline Code	*Ad Hoc – IU Level*		Code associated with the Discipline that describes the area of expertise of the individual performing the Condition Assessment.
Email Required	 *User Detail*	Char(100)	E-mail address associated with the user.
Email Notification Required	 *User Detail*	Char(1)	A checkbox that indicates the user wishes to receive email notifications when new real property assets are added to CAIS.
Engineered Cost Optional	INSP_EST_COST *IU Detail*	Num(14)	Inspector estimated engineered cost associated with the inspection unit. All entries are subject to the inspector estimated limit established by the Site Administrator. All entries must be below the inspector estimated limit. Input into this field will override any CAIS calculated costs in the Official Cost field.
Equipment ID	INSP_EQUIP_ID	Char(50)	Identification number associated with the equipment.

English Name	Element Name/ Window Name	Format	Definition
Optional	*IU Detail*		
Estimate Description Optional	CEST_DESC *Estimate Detail*	Char(100)	A narrative description of the Estimate.
Estimate ID System Generated	CEST_EST_SEQ_NO *Estimate Detail*	Num(12)	A system generated number that uniquely identifies the Estimate.
Estimate Name Required	CEST_NAME *Estimate Detail*	Char(50)	The descriptive name of the Estimate.
Estimated Disposition Year FIMS	ASTS_EST_DISP_YR *Asset Detail*	Char(4)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. The estimated fiscal year that disposition of a real property asset will be completed (e.g. For Demolition it would be the estimated contract completion year. For Transfers outside the Department, the estimated year the property transfer will be completed). In cases where it is impossible to estimate a disposition year, sites may enter '9999'.
Estimated Value System Generated	CESD_EST_VALUE Estimate Detail	Num(10)	Calculated cost for the Estimate line item. Includes Estimate Cost Adders if applied.
Field Office FIMS	SITE_FIELD_OFFICE FLDO_FIELD_OFFICE *Asset Detail* *Site List* *User List*	Char(2)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Code used to identify the DOE Field Office or Operations Office.
Field Office Number	*Ad Hoc – Asset Level* *Ad Hoc – IU Level*		This data field is imported from the Facilities Information Management System (FIMS). Code used to identify the DOE Operations/Field Office. The first two digits of the Site Number identify the Field Office.

English Name	Element Name/ Window Name	Format	Definition
First Name Required	 *User Detail*	Char(35)	Represents the first name of the CAIS user.
Funding Request Date Optional	PROJ_FUNDING_REQ_DATE *Project Detail*	Date	Represents the date a formal funding request was initiated for a project.
Funding Source Optional	PROJ_FUNDING_SOURCE *Project Detail*	Char(2)	Represents the source of financial resources to be used to complete the project. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
Funding Type Optional	PROJ_FUNDING_TYPE *Project Detail*	Char(2)	Represents the method that was used to fund the project. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
FY Baseline Cost Optional	INSP_FY_BASELINE_COST *IU Detail*	Num(14)	The Official Cost from the time the baseline was executed.
FY Baseline Date Optional	INSP_FY_BASELINE_DATE *IU Detail*	Date	The date (MM/DD/YYYY) the FY Baseline was first generated for the inspection unit.
Geographic Adjusters Required	AREA_GADJ_KEY_SEQ CEST_GEO_ADJUSTER *Area Detail* *Estimate Detail*	Num(10)	Used by the CAIS costing algorithm to account for where your Site is located geographically in the country. This number is updated annually by RS Means.
Gross Sqft FIMS	ASTS_GROSS_SQFT *Asset Detail*	Num(10)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Preferred Method: The area of all floor areas on all levels of a building or trailer in square feet as determined by using an industry standard methodology such as ANSI/BOMA Z65.3-2009, *Gross Area of a Building: Standard Methods of Measurement*. Secondary Method: The total floor area of a building or

English Name	Element Name/ Window Name	Format	Definition
			trailer in square feet measured between exterior finished surfaces and multiplied by the number of floors.
Group Optional	ASTS_GROUP AGRP_CODE *Asset Detail*	Char(15)	Allows for the characterization of assets into categories that are independent of the area. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
HQ Program Office FIMS	ASTS_PROGRAM *Asset Detail* *Asset List*	Char(4)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. The DOE headquarters program office responsible for the building, trailer, or OSF and its operations (SC, EM, etc.).
Importance Optional	INSP_IMPORTANCE_CODE *IU Detail*	Char(4)	Defines the significance of the inspection unit. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
In House Labor Optional	PROJ_IN_HOUSE_LABOR *Project Detail*	Char(1)	A Yes/No field that indicates if in-house labor was used as part of the project.
Inspection Date Required	INSP_DATE *IU Detail*	Date	Date (MM/DD/YY) that represents when the IU inspection occurred.
Inspector ID	*Ad Hoc – IU Level*		Code associated with the name of the inspector who performed the Condition Assessment.
Inspector Name Required	INSP_ID *IU Detail* *IU List*	Char(30)	Identifies the name of the inspector who performed the Condition Assessment. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.

English Name	Element Name/ Window Name	Format	Definition
IU Cost Adders Selected Optional	 *IU Cost Adders*		Checkbox that identifies when checked that the cost adder is applied to the IU when the costs are calculated.
IU Cumulative Adders Selected Optional	 *IU Cumulative Adders*		Checkbox that identifies when checked that the cumulative adder is applied to the IU when the costs are calculated.
IU Deficiencies Code System Generated	IUDF_DEFI_CODE *IU Deficiencies*	Char(2)	RS Means predefined deficiency code based on the IU Component/Type.
IU Deficiencies Comment Optional	IUDF_COMMENT *IU Deficiencies*	Char(2000)	Text field that contains comments associated with the IU deficiencies.
IU Deficiencies Description System Generated	DEFI_DESC_1 DEFI_DESC_2 *IU Deficiencies*	Char(40) Char(40)	RS Means predefined deficiency description based on the IU Component/Type.
IU Deficiencies Group System Generated	IUDF_DEFI_DEFG_CODE *IU Deficiencies*	Char(7)	RS Means predefined deficiency group description based on the IU Component/Type.
IU Deficiencies Light **Moderate** **Severe** **Fail** Optional	IUDF_LIGHT_VALUE IUDF_MODERATE_VALUE IUDF_SEVERE_VALUE IUDF_FAIL_VALUE *IU Deficiencies*	Char(3) Char(3) Char(3) Char(3)	The coverage percentage the Component is impaired by the deficiency. Inspector determines if the deficiency is Light, Moderate, Severe or Fail.
IU Number System Generated	INSP_KEY_SEQ_NO *IU Detail* *IU List* *IU Search*	Num(10)	A unique identifier that is system generated and assigned to each inspection unit record that is input into CAIS.
IU Status Optional	INSP_IU_STATUS_CODE *IU Detail*	Char(4)	Identifies the current status of the inspection unit. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
IUs Locked	PROJ_IUS_LOCKED	Char(1)	Indicates if the Inspection Unit records associated with a

English Name	Element Name/ Window Name	Format	Definition
Optional	*Project Detail*		project should be protected from being updated.
Last Inspection Date Required	ASTS_LAST_INSP_DTE *Asset Detail*	Date	The date (MM/DD/YYYY) when the last inspection of the asset occurred.
Last Name Required	*User Detail*	Char(35)	Represents the last name of the CAIS user.
Last Remodeled Optional	INSP_LAST_REMODEL_DATE *IU Detail*	Date	Represent the last date (MM/DD/YY) the inspection unit was remodeled.
Last Updated System Generated	INSP_LAST_UPDT_DATE *IU Detail*	Date	Represents the date (MM/DD/YY) of the last update to the inspection unit record.
Last Updated By System Generated	INSP_LAST_UPDT_BY *IU Detail*	Char(30)	Represents the name of the last person who updated the inspection unit record.
Location Required	INSP_LOCATION_CODE *IU Detail*	Char(40)	Identifies the physical location of the inspection unit within the real property asset. This pick list is created and maintained by the Site Administrator using the CAIS Site Data window.
Location Description Optional	INSP_LOCATION_DESC *IU Detail*	Char(150)	A description of the location of the inspection unit within the real property asset. Use this field instead of using the User Defined fields for location description.
Locked Flag Optional	INSP_LOCKED_FLAG *IU Detail*	Char(1)	Identifies an inspection unit record that is locked from changes due to it being included in a project that was created using the projects module.

English Name	Element Name/ Window Name	Format	Definition
Mission Dependency FIMS	ASTS_MISSION_DEPENDECY *Asset Detail*	Char(1)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. The value an asset brings to the performance of the mission as determined by DOE in one of the following categories. - Mission Critical - Mission Dependent, Not Critical - Not Mission Dependent
Modernization Cost System Generated	ASTS_RIC_COST *Asset Detail*	Num(15,3)	Cost representing improvements to the asset that result in better quality work, increased capacity, extended useful life as well as enhancing the value of the asset.
Modernization Flag Required	INSP_RIC_FLAG *IU Detail*	Char(1)	A Yes/No field that indicates if the Official Cost associated with the inspection unit should be identified as Modernization Cost. Defaults to 'No'. This field can only be set to 'Yes' when the Repair Needs Flag and the Deferred Maintenance Flag are set to 'No'. A value of 'Yes' indicates that the Official Cost from the inspection unit will be included in the assets Modernization Cost. A value of 'No' indicates that the Official Cost from the inspection unit will not be included in the assets Modernization Cost.
Modernization Type Required when Modernization Flag = 'Yes'	INSP_RIC_TYPE_CODE *IU Detail*	Char(2)	Pick list that represents improvements that result in better quality work, increased capacity, extended useful life as well as enhancing the value of the asset. This pick list is created and maintained by the Site using the CAIS Site Data window.
National Average Cost	INSP_NAT_AVG_COST	Num(14,3)	Represents a calculated repair or replacement cost prior

English Name	Element Name/ Window Name	Format	Definition
System Generated	*IU Detail*		to any Cost Adders, Cumulative Adders or Geographic Adjusters are applied.
Next Inspection Date Optional	ASTS_NEXT_INSP_DTE INSP_NEXT_INSP_DATE *Asset Detail* *IU Detail*	Date	Represent the date (MM/DD/YYYY) of the next scheduled inspection unit or asset level inspection.
Official Cost System Generated	INSP_OFFICIAL_COST *IU Detail*	Num(14)	At the inspection unit level, this represents the cost to repair or replace a building component. Official Cost calculations include Cost Adders, Cumulative Adders and Geographic Adjusters.
Official Cost Estimate System Generated	PROJ_EST_COST *Project Detail*	Num(12)	A system generated field that represents the sum of the Official Cost for all Inspection Unit records that are included in a Project.
Official Use Only Required	SITE_OUO *Site Detail*	Char(1)	Designates whether "Official Use Only" will appear in the footer of all CAIS standard reports. Selections for this field are 'Yes' or 'No'.
Optimum Year Optional	INSP_OPTIMUM_YR *IU Detail*	Char(4)	Represents the year in which the inspection unit will become deficient if it is not repaired or replaced.
Optional and User Defined Panels Expanded Optional	*User Detail*	Char(1)	A checkbox that indicates when checked that the user wishes to have the IU Detail window Optional and User Defined sections always expanded upon entering the window. The IU Detail window default is to have the Optional and User Defined sections collapsed.
Organization Required	*User Detail*	Char(50)	Organization to which the user belongs.
OSF Primary Quantity FIMS	ASTS_PRI_QUANTITY *Asset Detail*	Num(16,3)	This data field is imported from the Facilities Information Management System (FIMS) and is display only.

English Name	Element Name/ Window Name	Format	Definition
			A numeric value representing the measurement for an OSF based upon the unit of measure generated by FIMS from the OSF usage code.
OSF Primary Unit of Measure FIMS	ASTS_DIMEN_CODE_1 *Asset Detail*	Char(5)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Dimension code that designates the primary unit of measure which is based on the usage code for the OSF.
Ownership FIMS	ASTS_OWNERSHIP *Asset Detail*	Char(1)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Identifies the property as: DOE Owned (O), DOE Leased (D), Contractor Leased (C), GSA Owned (G), GSA Leased (L), Permit (P), or Contractor License (E),
Password (New Password, Confirm New Password) Required	 *User Detail* *Update Password* *Password Reset*	Char(20)	A sequence of characters used to logon to the CAIS. The password may consist of eight to twenty alphanumeric characters. It must start and end with a nonnumeric character. It must contain at least one (1) number and one of the following special characters within the first seven (7) positions. ! # $ % & ( ) *
PBPI FIMS	ASTS_PBPI *Asset Detail*	Char(1)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Physical Barriers Preventing Inspection (PBPI) Indicates (Y/N) if a condition assessment for an Other Structure and Facility (OSF) is not appropriate to determine Deferred Maintenance or Repair Needs due to the presence of physical barriers.
Phone Number Required	 *User Detail*	Char(14)	Telephone number and extension of the CAIS user.

English Name	Element Name/ Window Name	Format	Definition
Project Archive Optional	PROJ_ARCHIVED *Project Detail*	Char(1)	A Yes/No field that indicates if the project has been archived.
Project ID Required (Project Detail) Optional (IU Detail)	PROJ_ID INSP_PROJ_ID *Project Detail* *IU Detail*	Char(15)	A unique number that is generated by the user when a new project is created in the Projects module. The Project ID is a display only field on the IU Detail window.
Project Name Required	PROJ_NAME *Project Detail*	Char(30)	Represents the user assigned name of a project defined within the project module.
Project Status Optional	PROJ_STATUS_CODE *Project Detail*	Char(4)	A pick list identifying the status of the project. This pick list is created and maintained by the Site using the CAIS Administrator Site Data window.
Project Type Optional	PROJ_TYPE_CODE *Project Detail*	Char(4)	A pick list Identifying the type of project. This pick list is created and maintained by the Site using the CAIS Administrator Site Data window.
Property ID FIMS	ASTS_PROPERTY_ID *Asset Detail* *Asset List* *IU Search*	Char(20)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. A unique control number assigned to a property.
Property Name FIMS	ASTS_NAME *Asset Detail* *Asset List*	Char(40)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. The name assigned to a specific property.
Property Type FIMS	ASTS_PROPERTY_TYPE *Asset Detail*	Char(1)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Code that identifies an asset by B - Building, S - Other Structures and Facilities (OSF), and T - Trailer.

English Name	Element Name/ Window Name	Format	Definition
Quantity Required	INSP_QTY CESD_QTY *IU Detail* *Estimate Detail*	Num(8)	The inspected quantity associated with the IU. For the Estimate module, enter the quantity associated with the UOM (Unit of Measure) to calculate the Estimate line item cost. NOTE: The unit of measure is defined with the Component. Ensure the Quantity entered represents the stated Unit of Measure.
Real Property Unique ID FIMS	ASTS_PROP_SEQ_NO		This data field is imported from the FIMS and is display only. A FIMS system generated number used to uniquely identify a real property asset.
Repair Cause Optional	INSP_REPAIR_CAUSE_CODE *IU Detail*	Char(3)	Identifies the cause of the needed repair associated with the inspection unit. This pick list is created and maintained by the Site using the CAIS Administrator Site Data window.
Repair Cost System Generated	INSP_REPAIR_COST *IU Detail*	Num(14,3)	System generated cost to repair the IU based on the Volume, WBS, Component, Type, Deficiencies and Quantity.
Repair Needs System Generated	ASTS_REPAIR_NEEDS SDEF_REPAIR_NEEDS *Asset Detail* *System Level Deficiency Cost*	Num(10)	The estimated cost to restore a real property asset's component failures noted during a condition assessment survey to a state substantially equivalent to the most recently configured capacity, efficiency, or capability as required my mission. The "needs" originate from the real property asset, not necessarily management. Repair Needs will always be equal to or exceed Deferred Maintenance; the difference between the two depends on each noted deficiency's optimum period and acceptability to management.

English Name	Element Name/ Window Name	Format	Definition
Repair Needs Calculation Method Optional	SDEF_REPAIR_NEEDS_CALC_ METHOD *System Level Deficiency Cost*	Char(14)	Pick list to identify the value to be used for Repair Needs. Defaults to IU. Values are: • Engineered • IU • Sys Level • Sys Level + IU
Repair Needs Engineered Optional	SDEF_REPAIR_NEEDS_ENGIN EERED *System Level Deficiency Cost*	Num(10)	Represents an Engineer Estimated Cost for Repair Needs by Volume.
Repair Needs Flag Required	INSP_RN_FLAG *IU Detail*	Char(1)	A Yes/No field that indicates if the Official Cost associated with the inspection unit should be identified as Repair Needs. Defaults to 'Yes'. A value of 'Yes' indicates that the Official Cost from the inspection unit will be included in the assets Repair Needs cost. A value of 'No' indicates that the Official Cost from the inspection unit will not be included in the assets Repair Needs cost.
Repair Needs IU System Generated	SDEF_REPAIR_NEEDS_IU *System Level Deficiency Cost*	Num(10)	Sum of the IU Repair Needs for an asset by Volume.
Repair Needs System Level System Generated	SDEF_REPAIR_NEEDS_DEF_M AINT_ SYSTEM_LVL *System Level Deficiency Cost*	Num(10)	Calculated Repair Needs cost by Volume based on the Percent Failed and Factor. Repair Needs System Level = System Level Cost × System Level Factor × System Level Percent Failed

English Name	Element Name/ Window Name	Format	Definition
Repair Purpose Optional	INSP_REPAIR_PURPOSE_CODE *IU Detail*	Char(3)	Identifies the purpose for the repair associated with the inspection unit. This pick list is created and maintained by the Site using the CAIS Administrator Site Data window.
Repair Symptom Optional	INSP_REPAIR_SYMPTOM_CODE *IU Detail*	Char(3)	Pick list to define a physical feature that a repair is needed of the inspection unit, i.e. thumping, grinding, etc. This pick list is created and maintained by the Site using the CAIS Site Data window.
Repair Task Optional	INSP_REPAIR_TASK_CODE *IU Detail*	Char(3)	Pick list to define the job/assignment associated with the repair of the inspection unit. This pick list is created and maintained by the Site using the CAIS Site Data window.
Replacement Cost System Generated	INSP_REPL_COST *IU Detail*	Num(14,3)	System generated cost to replace the IU based on the Volume, WBS, Component, Type and Replacement Qty.
Replacement Qty Optional	INSP_REPL_QTY *IU Detail*	Num(8)	The quantity of the IU to be replaced. NOTE: The unit of measure is defined with the Component. Ensure the Replacement Qty entered represents the stated unit of measure.
RPV (Replacement Plant Value) FIMS	ASTS_RPV (CAIS_TBL_ASSET) *Asset Detail*	Num(14,2)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Current cost to replace an existing asset with a new asset based on comparable size and current usage using current technology, codes, standards and materials. This value does not include the cost of the underlying land, personal property (furnishings), sitework, D&D cost, demolition, contamination and any production equipment.
RPV Model	ASTS_RPV_MODEL	Char(3)	This data field is imported from the Facilities Information

English Name	Element Name/ Window Name	Format	Definition
FIMS	*Asset Detail* *System Level Deficiency Cost*		Management System (FIMS) and is display only. A typical building that would be built to replace an existing building. The model uses costs and engineering statistics compiled by RS Means. The data is gathered from various cities across the United States for typical types of buildings that would be built for a particular function or usage. The model uses today's construction techniques, materials and current building codes.
RS Means Line Number	*Ad Hoc – IU Level* *Estimate Detail*		The RS Means supplied number that represents the Volume, WBS, Component and Type combination. If the RS Means Line Number begins with an alphabetic character, it represents an assembly. If it begins with a number, it represents a component.
Security Level Required	*User Detail*	Char(25)	Determines the Add, Update, and Delete capability of the user. The levels of CAIS security are: HQ Admin HQ Read Only Field Office Admin Field Office User Field Office Read Only Site Admin Site User Site Read Only
Service Optional	INSP_SERVICE_CODE *IU Detail*	Char(4)	Pick list to define the service type provided by the IU. This pick list is created and maintained by the Site using the CAIS Site Data window.
Site Cost Adders Selected Optional	*Site Cost Adders*		Checkbox that identifies when checked that the cost adder is applied to all the assets and IU under the Site when the costs are calculated.
Site Cumulative Adders Selected			Checkbox that identifies when checked that the cumulative adder is applied to all the assets and IU under

<table>
<tr><th>English Name</th><th>Element Name/
Window Name</th><th>Format</th><th>Definition</th></tr>
<tr><td>Optional</td><td>Site Cumulative Adders</td><td></td><td>the Site when the costs are calculated.</td></tr>
<tr><td>Site Data Selected Table

Optional</td><td>Site Data</td><td></td><td>Pick list that allows the editing of the following user definable tables:

<table><tr><td>Access</td><td>Location</td></tr><tr><td>Cumulative Adder</td><td>Repair Cause</td></tr><tr><td>Cost Adder</td><td>Repair Purpose</td></tr><tr><td>Discipline</td><td>Repair Symptom</td></tr><tr><td>Funding Source</td><td>Repair Task</td></tr><tr><td>Funding Type</td><td>RIC</td></tr><tr><td>Group</td><td>Service</td></tr><tr><td>Importance</td><td>Site Defined</td></tr><tr><td>Inspector</td><td>Urgency</td></tr><tr><td>IU Status</td><td></td></tr></table></td></tr>
<tr><td>Site Defined 1

Optional</td><td>INSP_SITE_DEF_CODE

IU Detail</td><td>Char(10)</td><td>This is a Site created and maintained pick list. It is used and defined on an individual Site basis.

This pick list is created and maintained using the CAIS Site Data window.</td></tr>
<tr><td>Site Name

FIMS</td><td>SITE_NAME

Site List
Area List
Asset Detail
User List</td><td>Char(50)</td><td>This data field is imported from the Facilities Information Management System (FIMS) and is display only.

Name assigned to a DOE Site.</td></tr>
<tr><td>Site Number

FIMS</td><td>SITE_NUMBER

Site List</td><td>Char(5)</td><td>This data field is imported from the Facilities Information Management System (FIMS) and is display only.

Five-digit number that uniquely identifies the Site.</td></tr>
<tr><td>Source

Required</td><td>CESD_SOURCE

Estimate Detail</td><td>Char(19)</td><td>A pick list used by the Estimate Type Search window to filter the RS Means cost data being searched. Choices are:</td></tr>
</table>

English Name	Element Name/ Window Name	Format	Definition
			Assembly - Consists of a collection of components which make up the functional elements that are common to most buildings. Assembly data is arranged according to the UNIFORMAT II classification system. An example of an Assembly would be for a roof or footing. An assembly option would make it easy to find all of the components of a roof or footing in one single line item. Generally, this option is associated with new construction. Maintenance Assembly - Consists of a collection of components which make up the functional elements that are common to most buildings that are associated with maintenance and/or repair activities of existing construction. Assembly data is arranged according to the UNIFORMAT II classification system. Maintenance Master Format - Represents a master list of titles and numbers used to organize specifications and other project information for most commercial building design and construction projects. This option represents Master Format building components associated with maintenance and/or repair activities of existing construction. Master Format - Represents a master list of titles and numbers used to organize specifications and other project information for most commercial building design and construction projects. CAIS uses Master Format 2014 to cover many of the new modern technologies, materials and procedures used today. Master Format represents individual building components. Generally, this option is associated with new construction.
Status FIMS	ASTS_STATUS *Asset Detail*	Char(2)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Reflects programmatic intentions as well as the predominant physical/operational status of an asset based on size. The selections are as follows: Operating

English Name	Element Name/ Window Name	Format	Definition
			Standby Outgranted Shutdown Undergoing Stabilization/Deactivation Undergoing Decommissioning Undergoing Disposition In-Situ Closed In-Situ Closed - LTM
System Level Cost (by Volume) System Generated	SDEF_WBS_COST *System Level Deficiency Cost*	Num(14)	System generated cost based on the asset's RPV multiplied by the WBS RPV Ratio for each of the Volumes.
System Level DM Optional	SDEF_DEF_MAINT_FLAG *System Level Deficiency Cost*	Char(1)	Yes/No flag to indicate if the calculated Repair Needs System Level cost should also be used for the Deferred Maintenance System Level cost.
System Level Factor Optional	SDEF_PERCENT_FACTOR *System Level Deficiency Cost*	Num(6,3)	Factor used in the calculation of the System Level Repair Needs. Defaults to 1.000. Values can range from .001 to 10.000. Repair Needs System Level = System Level Cost × System Level Factor × System Level Percent Failed
System Level Percent Failed Optional	SDEF_PERCENT_VALUE *System Level Deficiency Cost*	Num(3)	Pick list of values from 0 to 100 incremented by 5. Represents the percentage of the Volume in failure. Used as part of the calculation for Repair Needs System Level cost. Repair Needs System Level = System Level Cost × System Level Factor × System Level Percent Failed
Total Deferred Maintenance System Generated	*System Level Deficiency Cost*		This system generated value for each Volume is based on the Deferred Maintenance (DM) Calculation Method. **If DM Calculation** | **Displayed Cost Value equals**

<table>
<tr><th>English Name</th><th>Element Name/
Window Name</th><th>Format</th><th>Definition</th></tr>
<tr><td></td><td></td><td></td><td>
<table>
<tr><th>Method is</th><th></th></tr>
<tr><td>Engineered</td><td>Deferred Maintenance Engineered</td></tr>
<tr><td>IU</td><td>Deferred Maintenance IU</td></tr>
<tr><td>Sys Level</td><td>Deferred Maintenance Sys Level</td></tr>
<tr><td>Sys Level + IU</td><td>Deferred Maintenance Sys Level + Deferred Maintenance IU</td></tr>
</table>
</td></tr>
<tr><td>Total DM this Project

System Generated</td><td>PROJ_TOT_DM

Project Detail</td><td>Num(12)</td><td>A system generated field that represents the sum of the Official Cost where the DM Flag = Y for all Inspection Unit records that are included in a Project.</td></tr>
<tr><td>Total Estimate Value

System Generated</td><td>CEST_TOT_EST_VAL

Estimate Detail
Estimate List</td><td>Num(10)</td><td>Calculated total cost for the Estimate. May include Cost Adders for the Estimate line items if applied and an Additional Cost if added.</td></tr>
<tr><td>Total Non-DM this Project

System Generated</td><td>PROJ_TOT_RIC

Project Detail</td><td>Num(12)</td><td>A system generated field that represents the sum of the Official Cost where the DM Flag = N for all Inspection Unit records that are included in a Project.</td></tr>
<tr><td>Total Repair Needs

System Generated</td><td>System Level Deficiency Cost</td><td></td><td>This system generated value for each Volume is based on the Repair Needs (RN) Calculation Method.

<table>
<tr><th>If RN Calculation Method is</th><th>Displayed Cost Value equals</th></tr>
<tr><td>Engineered</td><td>Repair Needs Engineered</td></tr>
<tr><td>IU</td><td>Repair Needs IU</td></tr>
<tr><td>Sys Level</td><td>Repair Needs Sys Level</td></tr>
<tr><td>Sys Level + IU</td><td>Repair Needs Sys Level + Repair Needs IU</td></tr>
</table>
</td></tr>
<tr><td>Type

Required</td><td>TYPE_NAME

Asset List</td><td></td><td>This pick list represents the specific materials or construction detail of the Component.</td></tr>
</table>

English Name	Element Name/ Window Name	Format	Definition
	IU Detail *IU List*		
Type Description System Generated	CESD_DESC *Estimate Detail*	Char(255)	The description of the Estimate line item.
Unit of Measure (UOM)	*Ad Hoc – IU Level* *Estimate Detail*		Identifies the measurement associated with the RS Means Component.
Update Last Inspection Date Required	SITE_UPDT_LAST_INSP_DTE *Site Detail*	Char(1)	Indicates whether the Last Inspection Date at the asset level is updated with the Last Inspection Date from the IU level. Selections for this field are 'Yes' or 'No'.
Updated by FIMS System Generated	ASTS_UPDT_BY_FIMS *Asset Detail*	Date	The field represents the date (MM/DD/YYYY) the property was last updated in FIMS.
Urgency Required	INSP_URGENCY_CODE *IU Detail*	Char(2)	This pick list identifies the timeframe/attention to be given to the repair or replacement. This pick list is created and maintained by the Site using the CAIS Site Data window.
Usage Code FIMS	ASTS_USAGE_CODE *Asset Detail* *System Level Deficiency Cost*	Char(4)	This data field is imported from the Facilities Information Management System (FIMS) and is display only. Code which designates the predominant current use based on size of a real property asset. For example, buildings used for office purposes are classified as office even though certain smaller portions of them may be used for storage or research.
User Defined 1 **User Defined 2** **User Defined 3** **User Defined 4** **User Defined 5** **User Defined 6** **User Defined 7** **User Defined 8**	INSP_USER_DEF_1 INSP_USER_DEF_2 INSP_USER_DEF_3 INSP_USER_DEF_4 INSP_USER_DEF_5 INSP_USER_DEF_6 INSP_USER_DEF_7 INSP_USER_DEF_8	Char(256) Char(256) Char(256) Char(256) Char(256) Char(30) Char(30) Char(30)	These nine (9) optional data fields are specific to each Site and are defined by the Site.

English Name	Element Name/ Window Name	Format	Definition
User Defined 9 Optional	INSP_USER_DEF_9 *IU Detail*	Char(30)	
User ID Required	 *User Detail*	Char(8)	Uniquely identifies the user to CAIS. The User ID may consist of a minimum of four up to eight alphanumeric characters. The User ID must begin with an alphabetic character.
Volume Required	INSP_VOLUME SDEF_VOLUME_CODE *IU Detail* *System Level Deficiency Cost*	Char(3)	Represents the Uniformat II which is a standard for classifying building elements and related site work. Elements are defined as major components common to most buildings. Uniformat II represents the following: A10 Foundations A20 Basement Construction B10 Superstructure B20 Exterior Closure B30 Roofing C10 Interior Construction C20 Interior Stairs C30 Interior Finishes D10 Conveying Systems D20 Mechanical - Plumbing D30 Mechanical - HVAC D40 Mechanical - Fire Protection D50 Electrical Systems E10 Equipment E20 Furnishings F10 Specialty Systems F20 Selective Building Demo G10 Sitework Preparation G20 Sitework Improvements G30 Sitework Mechanical Util. G40 Sitework Electrical Util. G90 Sitework Other
WBS (Work Breakdown Structure)	IWBS_DESC *IU Detail*	Char(50)	Represents the industry standard breakdown of the Volume into individual elements.

English Name	Element Name/ Window Name	Format	Definition
Required			
WBS Key	*Ad Hoc – IU Level*		RS Means code associated with the WBS (Work Breakdown Structure).
Work Order Optional	INSP_WORK_ORDER *IU Detail*	Char(25)	Used to identify a work order related to the IU.
Year Built FIMS	ASTS_YEAR_BUILT *Asset Detail*		This data field is imported from the FIMS and is display only. For DOE construction, the fiscal year (YYYY) that a building/trailer is accepted for beneficial occupancy. If acquiring an existing building/trailer, it is the fiscal year the building/trailer was constructed (best estimate if unknown). For OSFs with usage codes 1468 Public Assess Bridges (Trains), 1469 Controlled Access Bridges (Trains), 1768 Public Access Bridges (Vehicular), or 1769 Controlled Access Bridges (Vehicular), the calendar year (YYYY) construction of the structure was completed.
Year Installed Optional	INSP_YR_INSTALLED *IU Detail*	Num(4)	The year (YYYY) the inspection unit was installed.