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Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
A	**SUBSTRUCTURE**				SF	M2	Footprint area at grade
				This system includes all work below the lowest floor construction (usually slab-on-grade) and the enclosing horizontal and vertical elements required to form a basement, together with the necessary mass excavation and backfill.			
	A10	**FOUNDATIONS**			SF	M2	Footprint area at grade
				Foundations includes the following Standard Foundations: wall and column foundations; foundation walls up to level of top of slab on grade; pile caps; foundation excavation, backfill, and compaction; footings and bases; perimeter insulation; perimeter drainage; anchor plates; and dewatering. Special Foundations include pile foundations, caissons, underpinning, dewatering, raft foundations, and pressure injected grouting. Slab on grade includes standard slab on grade, structural slab on grade, inclined slab on grade, trenches, pits and bases, and foundation drainage.			
		A1010	**STANDARD FOUNDATIONS**		SF	M2	Footprint area at grade
				Continuous footings, spread footings, grade beams, foundation walls, pile caps, and column piers.			
			A101001	**WALL FOUNDATIONS**	LF	M	Length of footings and/or wall foundations
				Continuous Footings - Assemblies include excavation, hand-shaped bottom, compacted backfill, formwork and keyway, reinforcing steel, concrete and screed finish.			
				Foundation Walls - Include work items associated with CIP foundation walls, grade beams, or CMU walls. Assemblies include excavation, compacted backfill, perimeter insulation, perimeter drainage, formwork, reinforcing steel, concrete or CMU, and wall finish.			
			A101002	**COLUMN FOUNDATIONS & PILE CAPS**	EA	EA	Number of footings, pile caps and/or piers
				Spread Footings: Individual or part of continuous pier footings. Assemblies include excavation, backfill and compaction, formwork, reinforcing steel, and concrete and screed finish. If structural steel columns set directly on spread footings, anchor bolts are included in this assembly.			
				Pile Caps - Assemblies include excavation if required (normally due to installation of piles, the subgrade is at desired level for pile cap), hand-shaped bottom, compacted backfill, formwork, reinforcing steel, and concrete and screed finish. If structural steel columns set directly on spread footings, anchor bolts are included in this assembly.			
				Column Piers - Assemblies include formwork, reinforcing steel, concrete or CMU, finish, break ties and patch, and set anchor bolts.			
			A101003	**DEWATERING**	SF	M2	Dewatered area
				Dewatering is the removal of water from excavations. The two principle methods of dewatering are by pump or by a system involving the sinking of a series of well-points around the area and extracting the water by suction pump. Assemblies would include pumps or well points and all associated dewatering materials and equipment.			
			A101090	**OTHER STANDARD FOUNDATIONS**	XX	XX	
				Standard foundations not described by the assembly categories listed above.			
		A1020	**SPECIAL FOUNDATIONS**		SF	M2	Footprint area at grade
				All work associated with special foundations including piles, caissons, and any other special foundation situation.			
			A102001	**PILE FOUNDATIONS**	SF	M2	Footprint area at grade
				CIP concrete piles, precast concrete piles, steel pipe piles, steel H-piles, step-tapered steel piles, and treated wood piles. Applicable assemblies would include the material for piles, pile driving, and pile cut-offs if required.			
			A102002	**CAISSONS**	SF	M2	Footprint area at grade
				Drilled Caissons - Assemblies include drilled caissons, steel casings if required, reinforcing steel, bell bottom excavation, concrete, and loading and hauling of excavated material.			
			A102003	**UNDERPINNING**	LF	M	Length of underpinning
				Underpinning is the provision of permanent support for existing buildings by extending their foundations to a new, lower level containing the desired bearing stratum. Assemblies include excavation, backfill, and underpinning materials.			
			A102004	**DEWATERING**	SF	M2	Dewatered area
				Dewatering is the removal of water from excavations. The two principle methods of dewatering are by pump or by a system involving the sinking of a series of well-points around the area and extracting the water by suction pump. Assemblies would include pumps or well points and all associated dewatering materials and equipment.			
			A102005	**RAFT FOUNDATIONS**	SF	M2	Area of raft foundation
				Raft foundations or spread foundations consist of a solid slab of heavily reinforced concrete covering the entire building footprint area.			
			A102006	**PRESSURE INJECTED GROUTING**	SF	M2	Footprint area at grade
				Assemblies provide for injecting cement grout for foundation stabilization.			
			A102090	**OTHER SPECIAL FOUNDATIONS**	XX	XX	
				These could include cofferdams, soil compaction foundations, and other special foundations. Assemblies would include all material and labor necessary to perform the work for the special foundation condition.			
		A1030	**SLAB ON GRADE**		SF	M2	Footprint area at grade
				A slab poured on earth, whether on undisturbed or fill soil.			
			A103001	**STANDARD SLAB ON GRADE**	SF	M2	Area of slab
				Standard slab-on-grade is supported by compacted earth or gravel fill. The soil bearing capacity is sufficient to support the slab. Assemblies include fine grade, gravel fill, underslab insulation, edge forms, termite treatment (interior slabs only), vapor barrier, reinforcing, expansion joints, control joints, and finish and curing. Assemblies are based on thickness of slab.			
			A103002	**STRUCTURAL SLAB ON GRADE**	SF	M2	Area of slab
				A structural slab-on-grade is not supported by compacted earth or gravel fill. The soil bearing capacity is insufficient to support the slab. A structural slab is generally a minimum of eight inches thick and will be reinforced with reinforcing bars rather than welded wire fabric. Assemblies include fine grade, gravel fill, underslab insulation, edge forms, termite treatment, (interior slabs only), vapor barrier, reinforcing, expansion joints, control joints, and finish and curing. Assemblies are based on thickness of slab.			
			A103003	**TRENCHES**	LF	M	Length of trench
				Cast-in-place trenches. Assemblies include excavation, hand-shaped bottoms, compacted backfill, formwork, reinforcing steel, concrete, and concrete finish. Examples include trench drains and dust trenches.			
			A103004	**PITS AND BASES**	EA	EA	Number of pits and bases

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				Cast-in-place pits and bases. Assemblies include excavation, hand-shaped bottoms, compacted backfill, formwork, reinforcing steel, concrete, and concrete finish. Examples include elevator pits, dock leveler pits, oil change pits, and bases for equipment.			
			A103005	**FOUNDATION DRAINAGE**	LF	M	Length of foundation
				Foundation drainage directly associated with draining the foundation. This category does not include storm drainage piping for site. It would include drain pipe or drain tile at foundation or basement for specific purposes of draining foundation or basement. Assemblies would include excavation, hand-shaped bottoms, gravel, compacted backfill, and drain pipe, including accessories.			
			A103090	**OTHER LOWEST FLOOR CONSTRUCTION**	XX	XX	
				Lowest floor construction not described by the assembly categories listed above.			
	A20	**BASEMENT CONSTRUCTION**			CY	M3	Volume of excavation
				Work Includes basement excavation, and basement walls.			
		A2010	**BASEMENT EXCAVATION**		CY	M3	Volume of excavation
				Excavation work associated with constructing a basement.			
			A201001	**EXCAVATION FOR BASEMENTS**	CY	M3	Volume of excavation
				All excavation, stockpiling, and hauling associated with basement excavations are included in this assembly.			
			A201002	**STRUCTURE BACKFILL & COMPACTION**	CY	M3	Volume of backfill
				All backfill including hauling in of suitable soils and all necessary compaction is included in this assembly.			
			A201003	**SHORING**	SF	M2	Shoring contact area
				This type of shoring is to resist horizontal pressure and not intended to carry vertical loads. Assemblies would include sheet piling or other material and labor used to hold back earth around the perimeter of an excavation.			
			A201090	**OTHER BASEMENT EXCAVATION**	XX	XX	
				Basement excavation not described by the assembly categories listed above.			
		A2020	**BASEMENT WALLS**		SF	M2	Area of wall
				Assembly includes basement perimeter walls that are below grade and below the ground floor level of the building; this also includes elevator pits and other pits.			
			A202001	**BASEMENT WALL CONSTRUCTION**	SF	M2	Area of wall
				This includes work items associated with CIP foundation walls or CMU walls and penetrations. Assemblies include formwork, reinforcing steel, concrete or CMU, and wall finish and curing.			
			A202002	**MOISTURE PROTECTION**	SF	M2	Area of wall moisture protection
				This assembly would be based on the type and square footage of waterproofing used on the foundation wall.			
			A202003	**BASEMENT WALL INSULATION**	SF	M2	Area of wall insulation
				This assembly would be based on the type and square footage of insulation used on the foundation wall.			
			A202090	**OTHER BASEMENT WALLS**	XX	XX	
				Basement walls not described by the assembly categories listed above.			
B	**SHELL**				SF	M2	Area of supported floors
				This system includes all structural slabs, and decks and supports within basements and above grade. Note that the structural work will include both horizontal items (slabs, decks, etc.) and vertical structural components (columns and interior structural walls). Exterior load bearing walls are not included in this system but in System B2010, Exterior Walls.			
	B10	**SUPERSTRUCTURE**			SF	M2	Area of supported floors
				Work includes floor construction and roof construction.			
		B1010	**FLOOR CONSTRUCTION**		SF	M2	Area of supported floors
				This construction can be wood, concrete, CMU, steel frame, etc.			
			B101001	**STRUCTURAL FRAME**	SF	M2	Area of supported floors
				The structural frame could consist of structural steel including columns, beams, joists, and all associated items. It could be a concrete frame utilizing concrete or masonry columns and concrete girders and beams. The structural frame could be wood columns with wood beams or wood trusses. The structural frame could be a combination of the above. For example, concrete or masonry columns with structural steel beams and joists. All associated work items should be included in each assembly. Separate assemblies would be used for different types of construction. The unit of measure at the assembly level is the square footage of the supported area. Decks and slabs are not included in this assembly.			
			B101002	**STRUCTURAL INTERIOR WALLS**	SF	M2	Area of wall
				Assemblies would be CIP or CMU walls or other structural interior walls. The assemblies would include the labor and material required to perform the construction tasks associated with this type of wall.			
			B101003	**FLOOR DECKS AND SLABS**	SF	M2	Area of supported floors
				Slabs above grade should be broken into assemblies according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly, such as expansion and contraction joints.			
			B101004	**INCLINED AND STEPPED FLOORS**	SF	M2	Area of inclined & stepped floors
				This assembly should be broken down according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly, such as expansion and contraction joints.			
			B101005	**BALCONY CONSTRUCTION**	SF	M2	Area of supported balconies
				Balconies above grade should be broken into assemblies according to their particular type of construction. All associated items including handrails should be included in the assembly.			
			B101006	**RAMPS**	SF	M2	Area of supported ramps
				Ramps above grade should be broken into assemblies according to their type of construction. All associated items including handrails should be included in the assembly.			

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			B101007	**FLOOR RACEWAY SYSTEMS**	SF	M2	Gross floor area
				Under floor or in-slab conduit including conduit and all associated devices.			
			B101090	**OTHER FLOOR CONSTRUCTION**	XX	XX	
				Any type of special floor construction not included above would fall in this category, such as catwalks, space frames, etc. All associated work items would be included in the assembly.			
		B1020	**ROOF CONSTRUCTION**		SF	M2	Area of supported roof
				This construction is similar to floor construction except that is applies to the framework supporting the roof and roof decks. (See also System B30 Roofing.)			
			B102001	**STRUCTURAL FRAME**	SF	M2	Area of supported roof
				The structural frame could consist of structural steel including columns, beams, joists, and all associated items. It could be a concrete frame utilizing concrete or masonry columns and concrete girders and beams. The structural frame could be wood columns with wood beams or wood trusses. The structural frame could be a combination of the above. For example, concrete or masonry columns with structural steel beams and joists. All associated work items should be included in each assembly. Separate assemblies would be used for different types of construction. The unit of measure at the assembly level is the square footage of the supported area. Decks and slabs are not included in this assembly.			
			B102002	**STRUCTURAL INTERIOR WALLS**	SF	M2	Area of walls
				Assemblies would be CIP or CMU walls or other structural interior walls. The assemblies would include the labor and material required to perform the construction tasks associated with this type of wall.			
			B102003	**ROOF DECKS AND SLABS**	SF	M2	Area of supported roof
				Roof decks and slabs should be broken into assemblies according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly.			
			B102004	**CANOPIES**	SF	M2	Area of supported canopies
				Canopies should be broken into assemblies according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly.			
			B102090	**OTHER ROOF CONSTRUCTION**	SF	M2	Area of supported roof
				Any type of special roof construction not included above would fall into this category. All associated work items would be included in this assembly.			
	B20	**EXTERIOR ENCLOSURE**			SF	M2	Area of exterior walls
				This system consists of the exterior facing of the facility, which includes all vertical and horizontal exterior closure such as exterior walls, exterior windows, and exterior doors. This system excludes roofing (See System B30, Roof). Load bearing exterior walls will be included here, and not in System B10, Superstructure. Structural frame elements at exterior such as columns, beams, spandrels, etc., would be included in Superstructure with only the applied exterior finishes (i.e., paint, stucco, etc.) being included here. Finishes to the inside face of walls which are not an integral part of the wall construction will be included in System C30, Interior Finishes.			
		B2010	**EXTERIOR WALLS**		SF	M2	Area of exterior walls
				All materials associated with the following construction: exterior load-bearing walls, insulation and vapor barrier, parapets, exterior louvers and screens, sun control devices (exterior), balcony walls and handrails, exterior soffits, screen walls, and exterior coatings.			
			B201001	**EXTERIOR CLOSURE**	SF	M2	Area of exterior walls
				Assemblies would include material contained in exterior closure wall, such as masonry with brick veneer. Materials used for interior finishes on exterior walls are not included in this assembly. For example, if the interior side of this masonry wall is sheetrock applied on metal furring strips, the masonry wall is included in this assembly, but the furring strips and sheetrock are categorized as C3010 WALL FINISHES.			
			B201002	**EXTERIOR WALL BACKUP CONSTRUCTION**	SF	M2	Area of backup walls
				Assemblies used to support structure for the exterior skin and/or provide load-bearing walls for the facility. Materials used for interior finishes on exterior walls are not included in this assembly. For example, if the interior side of this masonry wall is sheetrock applied on metal furring strips, the masonry wall is included in this assembly, but the furring strips and sheetrock are categorized as C3010 WALL FINISHES.			
			B201003	**INSULATION & VAPOR RETARDER**	SF	M2	Area of insulation
				Assemblies would include all types of insulation associated with the exterior wall. Rigid, batt and poured insulation should be separated into different assemblies.			
			B201004	**PARAPETS**	LF	M	Length of parapets
				Assemblies include materials used in association with parapets. Parapets are long walls or railings usually along the edge of a roof or balcony.			
			B201005	**EXTERIOR LOUVERS & SCREENS**	SF	M2	Area of louvers and screens
				Assemblies include louvers and screens which are located in exterior walls. The unit of measure at the assembly level is each.			
			B201006	**BALCONY WALLS & HANDRAILS**	LF	M	Length of walls and handrails
				Assemblies would include materials associated with balcony walls and handrails. These rails are usually guardrails and not associated with stairs.			
			B201007	**EXTERIOR SOFFITS**	SF	M2	Area of soffits
				Assemblies would include all associated materials which make up the soffit and supports for the soffit. Typical materials would include wood, aluminum, exterior grade gypboard, stucco, etc.			
			B201008	**FLASHING**	SF	M2	Area of flashings
				Assemblies include all flashings associated with the exterior walls except for thru-wall flashing.			
			B201009	**EXTERIOR PAINTING AND SPECIAL COATINGS**	SF	M2	Area of exterior coatings
				Assemblies include paint, stucco, etc. The unit of measure at the assembly level is area of exterior coatings.			
			B201010	**EXTERIOR JOINT SEALANT**	LF	M	Length of sealants
				Exterior application of joint sealants to seal joints and prepare for finish material installation.			
			B201011	**SUN CONTROL DEVICES**	SF	M2	Area of sun control devices
				Assemblies include awnings, shades, and solar panels attached to the exterior of the building. A separate assembly should be used for each type of sun control device.			
			B201012	**SCREEN WALLS**	LF	M	Length of screen wall
				Exterior screen walls used for security purposes immediately adjacent to the building such as screen walls at a loading dock. Assemblies would include materials associated with all types of walls. This can also include visual barriers on the roof to screen equipment. Note that perimeter fencing that is typically more than five feet from the building's exterior is included in sitework rather than in this system.			
			B201090	**OTHER EXTERIOR WALLS**	XX	XX	
				Exterior walls not described by the assembly categories listed above.			

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		B2020	**EXTERIOR WINDOWS**		SF	M2	Area of windows
				All windows located in exterior walls or exterior skin.			
			B202001	**WINDOWS**	SF	M2	Area of windows
				Fixed or operable windows located in exterior walls or exterior skin. Assemblies would include frames, glazing, caulking, finishes and other associated work.			

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			B202002	**STOREFRONTS**	SF	M2	Area of storefronts
				Fixed storefronts including associated doors in exterior walls or exterior skin. Assemblies would include integral storefront doors, frames, glazing, caulking, finishes, and other associated work.			
			B202003	**CURTAIN WALLS**	SF	M2	Area of curtain walls
				This applies to glass curtain walls and spandrel glass in exterior walls or exterior skin. Assemblies would include integral curtainwall doors, frames, glazing, caulking, finishes, and other associated work.			
			B202004	**EXTERIOR GLAZING**	SF	M2	Area of Glazing
			B202090	**OTHER EXTERIOR WINDOWS**	XX	XX	
				Exterior windows not described by the assembly categories listed above.			
		B2030	**EXTERIOR DOORS**		EA	EA	Number of doors
				All doors located in exterior walls or exterior skin.			
			B203001	**SOLID DOORS**	EA	EA	Number of doors
				Assemblies include all exterior solid doors, hollow metal or wood with frames. Solid doors may include glazing lites in doors. Door hardware is located in B203008 EXTERIOR DOOR HARDWARE.			
			B203002	**GLAZED DOORS**	EA	EA	Number of doors
				and curtainwalls. These doors can be made of storefront materials but are not part of a curtainwall or storefront. Door hardware is located in B203008 EXTERIOR DOOR HARDWARE.			
			B203003	**REVOLVING DOORS**	EA	EA	Number of doors
				Assemblies include all revolving doors at exterior of the facility.			
			B203004	**OVERHEAD AND ROLL-UP DOORS**	SF	M2	Area of doors
				Overhead and roll-up doors installed in exterior walls or exterior skin. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each door.			
			B203005	**HANGAR DOORS**	SF	M2	Area of doors
				Large aircraft doors used on medium and high bay hangars. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work.			
			B203006	**BLAST RESISTANT DOORS**	SF	M2	Area of doors
				Special exterior doors used for blast resistance. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work.			
			B203007	**GATES**	SF	M2	Area of doors
				Any special gate type used in the exterior wall or exterior skin of the building. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each gate.			
			B203008	**EXTERIOR DOOR HARDWARE**	EA	EA	Number of doors
				Exterior door hardware includes items such as closers, hinges, locksets, panic hardware, etc.			
			B203090	**OTHER EXTERIOR SPECIALTY DOORS**	XX	XX	
				Any special type door used in the exterior wall or exterior skin of the building. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each door, or area of special doors, i.e., hangar doors.			
			B203091	**OTHER EXTERIOR PERSONNEL DOORS**	XX	XX	
				Exterior personnel doors not described by the assembly categories listed above.			
	B30	**ROOFING**			SF	M2	Gross area of roof
				This System includes all waterproof roof coverings and insulation, expansion joints, together with skylights, hatches, ventilators, and all required trim. In addition to roof coverings, the system includes all waterproof membranes and traffic toppings over below grade enclosed areas, balconies, and the like.			
		B3010	**ROOF COVERINGS**		SF	M2	Gross area of roof
				This System includes all waterproof roof coverings and insulation, expansion joints, together with skylights, hatches, ventilators, and all required trim. In addition to roof coverings, the system includes all waterproof membranes and traffic toppings over below grade enclosed areas, balconies, and the like.			
			B301001	**STEEP SLOPE ROOF SYSTEMS**	SF	M2	Area of roof covering
				Assemblies include roof coverings such as shingle, wood shake, structural standing seam, metal roofing, etc.			
			B301002	**LOW SLOPE ROOF SYSTEMS**	SF	M2	Area of topping or membrane
				Assemblies include roof coverings such as built-up, elastomeric, modified bitumen, etc.. Also, walkways and work areas (used to gain access to rooftop equipment) will be included here.			
			B301003	**ROOF INSULATION & FILL**	SF	M2	Area of insulation
				Assemblies include all types of insulation associated with the roof area.			
			B301004	**FLASHINGS & TRIM**	SF	M2	Area of flashings
				Assemblies include all flashings associated with the roof, i.e., eave flashing, gable flashing, etc.			
			B301005	**GUTTERS & DOWNSPOUTS**	LF	M	Length of gutters and downspouts
				Assemblies include all gutters, downspouts, and associated work including splash blocks.			
			B301006	**ROOF OPENINGS AND SUPPORTS**	SF	M2	Area of openings
				All roof penetrations including roof hatches, sky lights, area glazing, gravity roof ventilators, smoke vents, etc.			

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			B301090	**OTHER ROOFING**	XX	XX	
				Roofing not described by the assembly categories listed above.			
C	**INTERIORS**				SF	M2	Gross floor area
				Construction which takes place inside the exterior wall or exterior closure. The system does not include interior structural walls, which are included in B1010 FLOOR CONSTRUCTION and B1020 ROOF CONSTRUCTION.			
	C10	**INTERIOR CONSTRUCTION**			SF	M2	Gross floor area
				This assembly includes partitions, interior doors, and specialties.			
		C1010	**PARTITIONS**		SF	M2	Area of partitions
				Includes all interior partitions.			
			C101001	**FIXED PARTITIONS**	SF	M2	Area of fixed partition walls
				Interior fixed partitions include metal or wood studs, sheetrock, masonry, and concrete walls.			
			C101002	**DEMOUNTABLE PARTITIONS**	SF	M2	Area of demountable partition walls
				Assemblies would include all demountable partitions and associated work including tracks and anchoring systems.			
			C101003	**RETRACTABLE PARTITIONS**	SF	M2	Area of retractable partition walls
				Assemblies would include all retractable or folding partitions and associated work including tracks and anchoring systems.			
			C101004	**INTERIOR GUARDRAILS & SCREENS**	LF	M	Length of balustrades and screens
				Assemblies include balustrades (balcony handrails and the row screen of posts that support them) and screens and associated work including tracks and anchoring systems. These balustrades/guardrails are related to interior balconies and are not associated with stairs.			
			C101005	**INTERIOR WINDOWS**	SF	M2	Area of windows
				Fixed or operable windows. Assemblies would include frames, glazing, caulking and other associated work.			
			C101006	**GLAZED PARTITIONS & STOREFRONTS**	SF	M2	Area of partitions and storefronts
				Fixed interior glazed partitions including interior storefronts with doors. Assemblies include frames, glazing, caulking, and other associated work.			
			C101007	**INTERIOR GLAZING**	SF	M2	Area of interior glazing
			C101008	**INTERIOR JOINT SEALANT**	LF	M	Length of sealants
				Interior application of sealants to seal joints and prepare for finish material installation. The application shall include partitions, doors and fitting.			
			C101090	**OTHER PARTITIONS**	XX	XX	
				Interior partitions not described by the assembly categories listed above.			
		C1020	**INTERIOR DOORS**		LEF	LEF	Number of leaves
				All interior doors.			
			C102001	**STANDARD INTERIOR DOORS**	LEF	LEF	Number of leaves
				Assemblies include all standard interior wood or hollow metal doors with frames, finish, etc.. Standard interior door may include vision lites. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.			
			C102002	**GLAZED INTERIOR DOORS**	LEF	LEF	Number of leaves
				Assemblies include all glazed interior doors with glass, frames, finish, including storefront, etc.. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.			
			C102003	**FIRE DOORS**	LEF	LEF	Number of leaves
				Assemblies include all interior fire doors, including all necessary frames, and sensing devices integral with the door. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.			
			C102004	**SLIDING & FOLDING DOORS**	SF	M2	Area of sliding or folding door
				Assemblies include all sliding and folding doors with frames, hardware, locking devices, tracks, and supporting systems. The unit of measure at the assembly level is each.			
			C102005	**INTERIOR OVERHEAD DOORS**	SF	M2	Area of doors
				Overhead doors installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each door.			
			C102006	**INTERIOR GATES**	SF	M2	Area of gates
				Any special type gate installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each gate.			
			C102007	**INTERIOR DOOR HARDWARE**	EA	EA	Number of doors
				Interior door hardware includes items such as closers, hinges, locksets, panic hardware, etc.			
			C102090	**OTHER INTERIOR SPECIALTY DOORS**	XX	XX	
				Any special type door installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each gate.			
			C102091	**OTHER INTERIOR PERSONNEL DOORS**	XX	XX	
				Interior personnel doors not described by the assembly categories listed above.			
		C1030	**SPECIALTIES**		SF	M2	Gross floor area
				Most commonly used specialty items.			
			C103001	**COMPARTMENTS, CUBICLES & TOILET PARTITIONS**	EA	EA	Number of compartments, cubicles, or toilet partitions

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Unf L1	**Unf L2**	**Unf L3**	**WBS L4**	**Definition**	**E UOM**	**M UOM**	**Quantity Definition**
				Assemblies include individual compartments, cubicles, toilet partitions, and urinal screens.			
			C103002	**TOILET & BATH ACCESSORIES**	EA	EA	Number of accessories
				Toilet and bath accessories. For example, soap dispensers, toilet paper holder, towel dispensers, grab bars, bathroom mirrors, etc.			
			C103003	**MARKER BOARDS & TACK BOARDS**	EA	EA	Each Board
				Assemblies include all marker boards, tackboards, and fastening devices. The unit of measure at the assembly level is each.			
			C103004	**IDENTIFYING DEVICES**	EA	EA	Number of identifying devices
				Assemblies include all signs, plaques, traffic markers, etc.			
			C103005	**LOCKERS**	EA	EA	Number of lockers
				Assemblies include all types of lockers, either wood or metal, single or double tier. Special bases used for lockers would be included in this assembly.			
			C103006	**SHELVING**	LF	M	Length of shelving
				Assemblies include all types of shelving with brackets and all supporting materials and finish, if required.			
			C103007	**FIRE EXTINGUISHER CABINETS**	EA	EA	Number of fire extinguisher cabinets
				This assembly would include all types and sizes of fire extinguisher cabinets. Fire extinguishers are not included in this assembly; they are included in D40.			
			C103008	**COUNTERS**	LF	M	Length of counters
				Assemblies include all counters and countertops with all necessary brackets and supporting materials and finish, if required.			
			C103009	**CABINETS**	LF	M	Length of cabinets
				This assembly includes all cabinetry and millwork items with associated accessories and anchoring devices. Cabinet finishes are included in this assembly. Metal cabinets and special use cabinetry (medical, dental, libraries, etc.) are included in C103010 CASEWORK.			
			C103010	**CASEWORK**			
				Assemblies would include built-in premanufactured cabinetry for specialized functions such as labs, libraries, medical and dental facilities.			
			C103011	**CLOSETS**	LF	M	Length of closets
				This assembly includes all built-in closets with all associated work and finishes. These closets are millwork items or prefabricated coat closets for schools and dormitories.			
			C103012	**FIRESTOPPING PENETRATIONS**	EA	EA	Each Penetration
				Assembly includes sleeve, caulking, and flashing.			
			C103013	**SPRAYED FIRE-RESISTIVE MATERIALS**	SF	M2	Area of coverage
				Sprayed Fire-Resistive Materials includes materials that are applied primarily to a building's framework (columns, beams, bracing, metal decking) to prevent structural failure.			
			C103014	**ENTRANCE FLOOR GRILLES AND MATS**	SF	M2	Area of grilles/mats
				Assemblies include floor grilles and mats installed in a fixed arrangement at a building entrance.			
			C103015	**ORNAMENTAL METALWORK**	EA	EA	Number of metalwork items
				Building components made from ornamental metals. Ornamental stair handrails are included in B1010 EXTERIOR STAIRS and C20 STAIRS.			
			C103090	**OTHER INTERIOR SPECIALTIES**	EA	EA	Number of specialty items
				Interior specialties not described by the assembly categories listed above.			
	C20	**STAIRS**			FLT	FLT	Number of flights
				Work includes all stair construction.			
		C2010	**STAIR CONSTRUCTION**		FLT	FLT	Number of flights
				All work items located within the building footprint. A flight of stairs is considered to be all the treads and risers with landings required to travel from one floor to the next.			
			C201001	**INTERIOR AND EXTERIOR STAIRS**	FLT	FLT	Number of flights
				All stair work items associated with non-fire escape stairs. The stairs can be either interior stairs or stairs exposed to the weather. Exterior stairs are exposed to the outside and do not typically require HVAC. A flight of stairs is considered to be all the treads and risers with landings required to travel from one floor to the next.			
			C201002	**FIRE ESCAPE STAIRS**	FLT	FLT	Number of flights
				Assemblies include exterior stairs which are used for emergency egress. These stairs are exposed to the weather. Handrails, finishes and associated work items are included in this assembly.			
			C201090	**STAIR HANDRAILS, GUARDRAILS AND ACCESSORIES**	XX	XX	
				Stair handrails, guardrails, and cast-in-place nosings for interior and exterior stairs.			
	C30	**INTERIOR FINISHES**			SF	M2	Area of finishing
				Includes wall finishes, floor finishes, and ceiling finishes.			
		C3010	**WALL FINISHES**		SF	M2	Area of finished walls
				Finishes which are applied to interior wall surfaces. For coatings, refer to C3040.			
			C301001	**CONCRETE WALL FINISHES**	SF	M2	Area of finished walls
				This assembly would include a concrete finish applied directly to an interior wall surface. This assembly does not include items that directly apply to wall finishes covered elsewhere in this subsystem.			
			C301002	**PLASTER WALL FINISHES**	SF	M2	Area of finished walls
				This assembly includes plaster or stucco applied directly to an interior wall surface. Lath and associated work would be included in this assembly. This assembly does not include items that directly apply to wall finishes covered elsewhere in this subsystem.			
			C301003	**GYPSUM WALLBOARD FINISHES**	SF	M2	Area of finished walls
				This assembly includes gypsum wallboard applied directly to an interior wall surface. Furring strips or channels are included in this assembly. This assembly also includes taping, sanding, finishing, and sheetrock accessories. This assembly does not include items that directly apply to wall finishes covered elsewhere in this subsystem.			

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			C301004	**TILE & TERRAZZO WALL FINISHES**	SF	M2	Area of finished walls
				This assembly includes tile and terrazzo applied directly to an interior wall surface. Each type of tile would be a separate assembly.			
			C301005	**WALL COVERINGS**	SF	M2	Area of wall coverings
				This assembly includes wall coverings and protective strips applied directly to an interior wall surface.			
			C301006	**ACOUSTICAL PANELS ADHERED TO WALLS**	SF	M2	Area of acoustical tiles and panels
				This assembly includes acoustical tiles and panels with associated work applied directly to an interior wall surface.			
			C301090	**OTHER WALL FINISHES**	XX	XX	
				Assemblies include finishes to wall types not included above. These include, but are not limited to, different types of shielding and the work and materials associated with each.			
		C3020	**FLOOR FINISHES**		SF	M2	Area of finished floors
				All flooring and floor finishes applied to interior floors. For coatings refer to C3040.			
			C302001	**TILE FLOOR FINISHES**	SF	M2	Area of tile floors
				Assemblies include ceramic, quarry, and other non-resilient tile floors.			
			C302002	**TERRAZZO FLOOR FINISHES**	SF	M2	Area of terrazzo floors
				Assemblies include terrazzo floors.			
			C302003	**WOOD FLOORING**	SF	M2	Area of wood floors
				Assemblies include wood floors.			
			C302004	**RESILIENT FLOOR FINISHES**	SF	M2	Area of resilient floors
				Assemblies include resilient floors.			
			C302005	**CARPETING**	SF	M2	Area of carpeting
			C302006	**MASONRY & STONE FLOORING**	SF	M2	Area of masonry or stone flooring
				Assemblies include masonry, concrete pavers, and stone flooring.			
			C302007	**WALL BASE FINISHES**	LF	M	Length of wall base
				Assemblies include wall base, consisting of various materials such as vinyl, ceramic tile, etc.			
			C302008	**STAIR FINISHES**	SF	M2	Area of coverage
				Includes field-applied finish materials (other than paint) to surfaces of stairs including treads, risers and landings.			
			C302009	**FLOOR TOPPINGS AND TRAFFIC MEMBRANES**	SF	M2	Area of coverage
				Assemblies include floor toppings and membrane systems.			
			C302010	**HARDENERS AND SEALERS**	SF	M2	Area of coverage
				Assemblies include floor hardeners and sealers, typically applied on concrete floors.			
			C302011	**RAISED ACCESS FLOORING**	SF	M2	Area of special flooring
				Assemblies include all types of raised flooring, pedestal access floors and other types of access flooring.			
			C302090	**OTHER FLOORING & FLOOR FINISHES**	XX	XX	
				Assemblies include floor finishes not described by the assembly categories listed above, such as conductive, armored, etc..			
		C3030	**CEILING FINISHES**		SF	M2	Area of ceilings
				All ceilings and ceiling finishes applied to interiors. For coatings, refer to C3040.			
			C303001	**ACOUSTICAL CEILING TILES & PANELS**	SF	M2	Area of acoustical ceilings
				Assemblies include acoustical ceiling tiles and panels. The suspension system, if required, is in Assembly Category C303005. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.			
			C303002	**GYPSUM WALLBOARD CEILING FINISHES**	SF	M2	Area of gypsum ceilings
				Assemblies include gypsum wallboard applied to interior ceilings. Furring strips or channels are included in this assembly if they are applied directly to the ceiling surface. If the gypsum board is applied to a suspended ceiling system, the suspended system would be in Assembly Category C303005. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.			
			C303003	**PLASTER CEILING FINISHES**	SF	M2	Area of plaster ceiling finish
				Assemblies include plaster or stucco finishes applied to interior ceilings. Lath and associated work would apply to this assembly. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.			

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			C303004	**WOOD CEILINGS**	SF	M2	Area of wood ceilings
				Assemblies include wood ceilings. Different types of wood ceilings should be separated into different assemblies. If the wood ceiling is applied to a suspended ceiling system, the suspended system would be in Assembly Category C303005. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.			
			C303005	**SUSPENSIONS SYSTEMS**	SF	M2	Area of suspension system
				This assembly includes any suspension system which is suspended or hung from the structure for the purpose of fastening a ceiling.			
			C303006	**METAL STRIP CEILINGS**	SF	M2	Area of metal ceiling
				Assemblies include all metal strip materials applied to ceilings.			
			C303090	**OTHER CEILING & CEILING FINISHES**	XX	XX	
				Special ceilings and ceiling finishes not described by the assembly categories listed above.			
		C3040	**INTERIOR COATINGS AND SPECIAL FINISHES**		SF	M2	Area of interior coatings
				This assembly includes surface preparation and application of coatings to interior surfaces.			
			C304001	**GENERAL REQUIREMENTS**	SF	M2	Area of coatings and finishes
			C304002	**CONCRETE FINISHES**	SF	M2	Area of concrete finishes
			C304003	**CONCRETE MASONRY FINISHES**	SF	M2	Area of concrete masonry finishes
			C304004	**METAL FINISHES**	SF	M2	Area of metal finishes
			C304005	**INTERIOR WOOD FINISHES**	SF	M2	Area of wood finishes
			C304006	**GYPSUM WALLBOARD FINISHES**	SF	M2	Area of gypsum wallboard coatings
			C304007	**SPECIAL COATINGS ON WALLS**	SF	M2	Area of special wall coatings
D	**SERVICES**				EA	EA	
				Includes all methods of conveying, plumbing, HVAC, fire protection, and electrical.			
	D10	**CONVEYING**			STY	STY	Number of stories
				This system includes elevators, escalators, pneumatic tube systems, conveyors, chutes, etc. Foundations for these systems are included in System A, Substructure.			
		D1010	**ELEVATORS AND LIFTS**		STP	STP	Number of stops
				Includes passenger elevators and freight elevators.			
			D101001	**GENERAL CONSTRUCTION ITEMS**	EA	EA	Number of items
				Includes construction work, other than conveying system work, which must be performed in conjunction with this type of work to complete the system.			
			D101002	**PASSENGER ELEVATORS**	STP	STP	Number of stops
				The unit measure at the assembly level is each stop.			
			D101003	**FREIGHT ELEVATORS**	STP	STP	Number of stops
				The unit measure at the assembly level is each stop.			
			D101004	**WHEELCHAIR LIFT**	EA	EA	Number of lifts
				Premanufactured lift to gain wheelchair access.			
			D101005	**DUMBWAITERS**	STP	STP	Number of stops
				The unit measure of the assembly is each stop.			
			D101090	**OTHER VERTICAL TRANSPORTATION EQUIPMENT**	XX	XX	
				This includes elevators not described by the assembly categories listed above, such as people lifts.			
		D1020	**WEIGHT HANDLING EQUIPMENT**		EA	EA	Number of items
			D102001	**BASIC REQUIREMENTS OF CRANES AND MONORAILS**	EA	EA	Number of items
			D102002	**OVERHEAD CRANES**	EA	EA	Number of items
			D102003	**MONORAILS**	EA	EA	Number of items
		D1030	**ESCALATORS AND MOVING WALKS**		LF	M	Length of stairs or walks
			D103001	**ESCALATORS**	LF	M	Length of stairs
			D103002	**MOVING WALKS**	LF	M	Length of walks
			D103090	**OTHER MOVING STAIRS & WALKS**	XX	XX	
				Moving stairs or walks not described by the assembly categories listed above.			
		D1090	**OTHER CONVEYING SYSTEMS**		EA	EA	Number of systems
				Other conveying systems includes pneumatic tube systems, conveyor belts, chutes, and transportation systems.			
			D109001	**PNEUMATIC TUBE SYSTEMS**	EA	EA	Number of systems
			D109002	**CONVEYORS**	EA	EA	Number of material handling systems
			D109003	**LINEN, TRASH, AND MAIL CHUTES**	LF	M	Length of chute
			D109004	**TURNTABLES**	EA	EA	Number of turntables
			D109005	**OPERABLE SCAFFOLDING**	SF	M2	Area of scaffolding

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			D109006	**TRANSPORTATION SYSTEMS**	EA	EA	Number of systems
				This assembly includes baggage handling and aircraft loading systems.	SF	M2	Area of scaffolding
			D109090	**OTHER MATERIAL HANDLING SYSTEMS**	XX	XX	
				Material or handling systems not described by the assembly categories listed above.			
	D20	**PLUMBING**			EA	EA	Number of fixtures
				The plumbing system's primary function is the transfer of liquids and gases. This system includes all water supply and waste items within the building.			
		D2010	**PLUMBING FIXTURES**		EA	EA	Number of fixtures
				All terminal devices on the domestic plumbing system which have water supplied to the fixture. Hot water heaters, hose bibbs, and special equipment are not counted as a fixture.			
			D201001	**WATERCLOSETS**	EA	EA	Number of fixtures
			D201002	**URINALS**	EA	EA	Number of fixtures
			D201003	**LAVATORIES**	EA	EA	Number of fixtures
			D201004	**SINKS**	EA	EA	Number of fixtures
			D201005	**SHOWERS/TUBS**	EA	EA	Number of fixtures
			D201006	**DRINKING FOUNTAINS & COOLERS**	EA	EA	Number of fixtures
			D201007	**BIDETS**	EA	EA	Number of fixtures
			D201090	**EMERGENCY FIXTURES**	XX	XX	
				Emergency fixtures not described by the assembly categories listed above.			
		D2020	**DOMESTIC WATER DISTRIBUTION**		EA	EA	Number of fixtures
				This system provides for human health and comfort. The water supply needed is determined by the number of fixtures attached. Hot water heaters, hose bibbs, and special equipment are not counted as a fixture.			
			D202001	**PIPES & FITTINGS**	EA	EA	Number of fixtures
				Assemblies include all pipe, fittings, and associated work with regard to domestic water supply. The unit of measure at the assembly level is number of fixtures.			
			D202002	**VALVES & HYDRANTS**	EA	EA	Number of valves and hydrants
				Assemblies include all valves and hydrants. Hose bibbs are included in this assembly. The unit of measure at the assembly level is number of valves and hydrants.			
			D202003	**DOMESTIC WATER EQUIPMENT**	EA	EA	Number of fixtures
				This assembly includes equipment associated with the domestic water supply, including fittings, and specialties required for hook-up. Assemblies include hot water heaters, water treatment plant, i.e., water softeners, filters, distillers, etc.; pumps directly associated with domestic water supply; and tanks for the potable hot or cold water system. The unit of measure at the assembly level is pieces of equipment.			
			D202004	**INSULATION & IDENTIFICATION**	EA	EA	Number of fixtures
				Assemblies include insulation used in association with domestic water supply. The unit of measure at the assembly level is number of fixtures.			
			D202005	**SPECIALTIES**	EA	EA	Pieces of equipment
				Any other special items associated with domestic water supply. All associated work items, including pipes, fittings, valves, insulation, and hook-up should be included in this assembly. The unit of measure at the assembly level is pieces of special equipment.			
			D202090	**OTHER DOMESTIC WATER SUPPLY**	XX	XX	
				Domestic water supply not described by the assembly categories listed above.			
		D2030	**SANITARY WASTE**		EA	EA	Number of fixtures
				This system provides for human health and comfort. Fixtures include all terminal devices which have a water supply (except water supply equipment and specialties), and also devices that transfer fluids into the sanitary waste system that do not have a water supply. Floor drains (not drain hubs) are included as a sanitary waste fixture.			
			D203001	**WASTE PIPE & FITTINGS**	EA	EA	Number of fixtures
				Assemblies include all pipe, fittings, and associated work with regard to sanitary waste pipe and fittings. The unit of measure at the assembly level is number of fixtures.			
			D203002	**VENT PIPE & FITTINGS**	EA	EA	Number of fixtures
				Assemblies include all pipe, fittings, and associated work with regard to sanitary vent pipe and fittings. The unit of measure at the assembly level is number of fixtures.			
			D203003	**FLOOR DRAINS**	EA	EA	Number of floor drains

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				Assemblies include all floor drains. Hub drains are considered to be pipe and are not included in this category. The unit of measure at the assembly level is number of drains.			
			D203004	**SANITARY AND VENT EQUIPMENT**	EA	EA	Number of fixtures
				This is equipment associated with the sanitary waste system, including fittings and specialties required for hook-up. Assemblies include waste treatment equipment, i.e., sluice gates, incinerators, etc.; pumps for sewage injection; and holding tanks for the domestic water system. The unit of measure at the assembly level is pieces of equipment.			
			D203005	**INSULATION & IDENTIFICATION**	EA	EA	Number of fixtures
				Assemblies include insulation used in association with sanitary waste and vent system. The unit of measure at the assembly level is number of fixtures.			
			D203090	**OTHER SANITARY WASTE**	XX	XX	
				Sanitary waste and vent not described by the assembly categories listed above.			
		D2040	**RAIN WATER DRAINAGE**		SF	M2	Area of roof
				Roof drainage system. Gutter and downspouts are not included in this subsystem.			
			D204001	**PIPE & FITTINGS**	LF	M	Length of pipe
				Assemblies include pipe and fittings from the roof drains to the discharge points, including supports and other associated work.			
			D204002	**ROOF DRAINS**	EA	EA	Number of roof drains
				Assemblies include roof drains. The unit of measure at the assembly level is number of drains.			
			D204003	**RAINWATER DRAINAGE EQUIPMENT**	EA	EA	Pieces of equipment
				This is equipment associated with the rain water drainage, including fittings and specialties required for hook-up. Assemblies include pumps and other associated items for drainage of rain water.			
			D204004	**INSULATION & IDENTIFICATION**	LF	M	Length of pipe insulation
				Assemblies include insulation used in association with rain water drainage system.			
			D204090	**OTHER RAIN WATER DRAINAGE SYSTEM**	XX	XX	
				Rain water drainage system not described by the assembly categories listed above.			
		D2090	**OTHER PLUMBING SYSTEMS**		EA	EA	Number of special fixtures, etc.
				This subsystem includes all special plumbing systems which are not included in D2010 through D2040.			
			D209001	**SPECIAL PIPING SYSTEMS**	EA	EA	Number of special fixtures, interceptors, etc.
				Assemblies include all special pipe and fittings, excluding acid waste pipe and work with regard to special pipe. Medical gas and vacuum fittings, and associated systems piping are included in this category. The unit of measure at the assembly level is the number of special fixtures, interceptors, outlets, or systems.			
			D209002	**ACID WASTE SYSTEMS**	EA	EA	Number of special fixtures, interceptors, etc.
				Assemblies include all pipe, fittings, special acid waste equipment, and other associated work items with regard to acid waste systems. The unit of measure at the assembly level is the number of special fixtures, interceptors, outlets, or systems.			
			D209003	**INTERCEPTORS**	EA	EA	Number of interceptors
				Assemblies include all interceptors. The unit of measure at the assembly level is number of interceptors.			
			D209004	**POOL PIPING AND EQUIPMENT**	GPM	M3/S	Gallons per minute
				Assemblies include pumps and associated equipment with pools, including specialties required for hook-up. The unit of measure at the assembly level is each.			
			D209005	**COMPRESSED AIR SYSTEM (NON-BREATHING)**	PSI	KGM2	Pounds per square inch
			D209090	**OTHER SPECIAL PLUMBING SYSTEMS**	XX	XX	
				This system includes special plumbing systems not described by the assembly categories listed above, such as fountain piping systems and devices.			
	D30	**HVAC**			MBH	KW	Total MBH capacity
				This system includes all equipment, distribution systems, controls, and energy supply systems required by the heating, ventilating, and air conditioning system.			
		D3010	**ENERGY SUPPLY**		MBH	KW	Total power of heating system
				The energy input to the facility (other than electrical) in the form of fuels or hot and cold water distributed from a central base facility. Energy received from wind or solar power is included in this subsystem.			
			D301001	**OIL SUPPLY SYSTEM**	MBH	KW	Calories per gallon
				Assemblies include storage equipment, transfer equipment, and distribution piping. The unit of measure at the assembly level is each system.			
			D301002	**GAS SUPPLY SYSTEM**	MBH	KW	MBH
				This category includes both natural gas and LPG. Assemblies include metering and regulation equipment, storage equipment, transfer equipment, and distribution piping. The unit of measure at the assembly level is each system.			
			D301003	**STEAM SUPPLY SYSTEM (FROM CENTRAL PLANT)**	MBH	KW	Power
				Assemblies include meters, valves, heat exchangers, fittings, and specialties required for hook-up and distribution piping, including supports, sleeves, and insulation. The unit of measure at the assembly level is each system.			

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			D301004	**HOT WATER SUPPLY SYSTEM (FROM CENTRAL PLANT)**	MBH	KW	Power
				Assemblies include meters, valves, heat exchangers, fittings, and specialties required for hook-up and distribution piping, including supports, sleeves, and insulation. The unit of measure at the assembly level is each system.			
			D301005	**SOLAR ENERGY SUPPLY SYSTEMS**	MBH	KW	Power
				Assemblies include collector panels, heat exchangers, storage tanks, pumps, etc., including pipe and fittings required for hook-up. The unit of measure at the assembly level is each system.			
			D301006	**WIND ENERGY SUPPLY SYSTEM**	MBH	KW	Power
				Wind is used to turn a generator which generates electricity. This energy is either stored in a battery or used to generate hot water in an electric boiler. Assemblies would include the required devices to make this a total electromechanical system. The unit of measure at the assembly level is each system.			
			D301007	**COAL SUPPLY SYSTEM**	MBH	KW	Power
				This category includes storage equipment, transfer equipment, processing equipment, and distribution piping. The unit of measure at the assembly level is each system.			
			D301090	**OTHER ENERGY SUPPLY**	XX	XX	
				Energy supply not described by the assembly categories listed above.			
		D3020	**HEAT GENERATING SYSTEMS**		MBH	KW	Total power of heating system
				This subsystem includes steam, hot water, furnace, and unit heater systems. Fuels include coal, oil, gas and electric unless otherwise noted.			
			D302001	**BOILERS**	MBH	KW	Power
				Assemblies include steam or hot water boilers, expansion tanks, chemical feeders, air separators, pumps, heat exchangers, boiler feed units, etc. This assembly would also include fittings and specialties and the flue stack. The unit of measure at the assembly level is each system.			
			D302002	**FURNACES**	MBH	KW	Power
				This is a system that heats air. Assemblies would include furnace and necessary fittings and specialties required for hook-up, including flue and stack. The unit of measure at the assembly level is each.			
			D302003	**FUEL-FIRED UNIT HEATERS**	MBH	KW	Power
				Assemblies would include unit heaters and the energy supply system hook-up (other than electrical), including all necessary pipe, fittings, and specialties required for hook-up. Flue and stack, if required, are included in this assembly. The unit of measure at the assembly level is each.			
			D302004	**AUXILIARY EQUIPMENT**	MBH	KW	Power
				Assemblies would include any other equipment associated with heat generating systems. The unit of measure at the assembly level is each.			
			D302005	**EQUIPMENT THERMAL INSULATION**	SF	M2	Area of insulation
				Assemblies would include insulation of any component in this subsystem. The unit of measure at the assembly level is each.			
			D302090	**OTHER HEAT GENERATING SYSTEMS**	XX	XX	
				Heat generating systems not described in the assembly categories listed above.			
		D3030	**COOLING GENERATING SYSTEMS**		TON	KW	Total power of cooling capacity
				Cooling generating equipment of the absorption, centrifugal, reciprocating, and direct expansion types.			
			D303001	**CHILLED WATER SYSTEMS**	TON	KW	Power
				Assemblies include condensers, compressors, chillers, pumps, cooling towers, etc., including fittings and specialties required for hook-up. The unit of measure at the assembly level is each.			
			D303002	**DIRECT EXPANSION SYSTEMS**	TON	KW	Power
				Assemblies include condensers, compressors, heat pumps, and refrigerant piping. The unit of measure at the assembly level is each.			
			D303090	**OTHER COOLING GENERATING SYSTEMS**	XX	XX	
				Cooling generating systems not described by the assembly categories listed above.			
		D3040	**DISTRIBUTION SYSTEMS**		MBH	KW	Power
				This includes systems that distribute heated and cooled air, ventilating and exhaust air, hot and chilled water, steam, and glycol heating.			
			D304001	**AIR DISTRIBUTION, HEATING & COOLING**	MCFM	L/S	Volume of air flow
				Assemblies include heating coils, cooling coils, and fittings and specialties required for water hook-up. This assembly also includes duct heaters, filters, humidifiers, supply and return ductwork, dampers, fire dampers, supply and return grilles, registers and diffusers, turning vanes, sound traps, and all associated insulation. The unit of measure at the assembly level is MCFM.			
			D304002	**STEAM DISTRIBUTION SYSTEMS**	MBH	KW	Power
				Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is MBH.			
			D304003	**HOT WATER DISTRIBUTION SYSTEMS**	MBH	KW	Power
				Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is MBH.			
			D304004	**CHANGE OVER DISTRIBUTION SYSTEMS**	MBH	KW	Power
			D304005	**GLYCOL DISTRIBUTION SYSTEMS**	MBH	KW	Power
				Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is MBH.			

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			D304006	**CHILLED WATER DISTRIBUTION SYSTEMS**	TON	KW	Power
				Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is tons.			
			D304007	**EXHAUST SYSTEMS**	MCF	L/S	Volume of air flow
				Assemblies include ductwork grilles, registers, diffusers, fans, and all associated work. The unit of measure at the assembly level is each system.			
			D304008	**AIR HANDLING UNITS**	MCFM	L/S	Volume of air flow
			D304090	**OTHER DISTRIBUTION SYSTEMS**	XX	XX	
				Distribution systems not described by the assembly categories listed above.			
		D3050	**TERMINAL & PACKAGE UNITS**		MBH	KW	Power
				This category includes self-contained heating and cooling units.			
			D305001	**UNIT VENTILATORS**	EA	EA	Number of units
				Assemblies include the complete terminal unit and wall sleeve with all controls.			
			D305002	**UNIT HEATERS**	EA	EA	Number of units
				Assemblies include the complete terminal unit and wall sleeve with all controls.			
			D305003	**FAN COIL UNITS**	EA	EA	Number of units
				Assemblies include the complete terminal unit and wall sleeve with all controls.			
			D305004	**FIN TUBE RADIATION**	EA	EA	Number of units
				Assemblies include the complete terminal unit and wall sleeve with all controls.			
			D305005	**ELECTRIC HEATING**	EA	EA	Number of units
				Assemblies include the complete terminal unit and wall sleeve with all controls.			
			D305006	**PACKAGE UNITS**	EA	EA	Number of units
				Assemblies include complete package units, with integral roof top curbs and all associated devices. A heating system can be selected from hot water, steam coil, or gas furnace and can be a single or multi-zone system. The unit of measure at the assembly level is each.			
			D305090	**OTHER TERMINAL & PACKAGE UNITS**	XX	XX	
				Terminal and package units not described by the assembly categories listed above.			
		D3060	**CONTROLS & INSTRUMENTATION**		MBH	KW	Power
				Includes devices such as thermostats, timers, sensors, control valves, etc., necessary to operate the system as designed.			
			D306001	**HVAC CONTROLS**	EA	EA	Power
				Includes devices such as thermostats, timers, sensors, control valves, etc., necessary to operate the total system. The unit of measure at the assembly level is each system.			
			D306002	**ELECTRONIC CONTROLS**	EA	EA	Number of devices
			D306003	**PNEUMATIC CONTROLS**	EA	EA	Number of devices
				Assemblies includes ball and butterfly valves, actuators, high pressure chokes, valve positioners, sensors, regulators, etc.			
			D306004	**INSTRUMENT AIR COMPRESSORS**	EA	EA	Number of compressors
				Assemblies include air compressors, dryers, and distribution tubing, (only used with pneumatic control systems). The unit of measure at the assembly level is each.			
			D306005	**GAS PURGING SYSTEMS**	EA	EA	Number of systems
				Assemblies include the removal of contaminated or unwanted gases from a structure or pipe.			
			D306090	**OTHER CONTROLS INSTRUMENTATION**	XX	XX	
				Controls and instrumentation not described by the assembly categories listed above.			
		D3070	**SYSTEMS TESTING & BALANCING**		MBH	KW	Power
				This includes operation of all systems to determine capacity and adjustment of water flow in chilled water and hot water systems, air flow of air handling units, supply and exhaust fans, and supply and return, and exhaust registers.			
			D307001	**WATER SIDE TESTING & BALANCING - HEATING & COOLING**	EA	EA	Number of devices
				Includes operating and testing of pumps, setting of all control valves, and determining system capacity. The unit of measure at the assembly level is each device, i.e., boiler, chiller, fan coil, and unit heater.			
			D307002	**AIR SIDE TESTING & BALANCING - HEATING, COOLING & EXHAUST**	EA	EA	Number of devices
				Includes operating and testing of all air handling devices, adjusting of all fans to set rate of air flow, setting all fan motors at desired operation, setting of air flow at all registers, grilles, diffusers, and louvers to deliver design CFM, and testing and calibrating of thermostats to achieve desired space temperature. The unit of measure at the assembly level is each device.			
			D307003	**HVAC COMMISSIONING**	LS	LS	Lump sum
				Final testing of operational system.			
			D307090	**OTHER SYSTEMS TESTING & BALANCING**	XX	XX	
				Systems testing and balancing not described by the assembly categories listed above.			

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		D3090	**OTHER HVAC SYSTEMS AND EQUIPMENT**		EA	EA	Number of special mechanical systems
				This subsystem includes special mechanical systems that are not normally included as part of standard HVAC systems.			
			D309001	**GENERAL CONSTRUCTION ITEMS**	SF	M2	Area of special system
				Includes construction work other than mechanical which must be performed in conjunction with the special mechanical system to make the system complete.			
			D309002	**REFRIGERATION SYSTEMS**	TON	KW	Power
				Includes equipment for refrigeration in a cold storage facility. Both low and medium temperature equipment are included. Assemblies include: condensing and compressor units, evaporator blowers, refrigerant piping, and specialties, heat recovery systems (liquid or gas), heat recovery distribution systems (liquid or gas), and system testing and balancing.			
			D309090	**OTHER SPECIAL MECHANICAL SYSTEMS**	XX	XX	
				Any other mechanical system not defined in other categories. Assemblies would include special systems and special devices. The unit of measure at the assembly level is each system or device.			
	D40	**FIRE PROTECTION**			SF	M2	Gross floor area
				This system includes standard and special fire protection systems. Fire alarm systems are included in D503001.			
		D4010	**FIRE ALARM AND DETECTION SYSTEMS**		SF	M2	Gross floor area
				Assemblies include wire, conduit, conduit support or fastening systems, fire alarm devices, fire detection devices, safety switches, mass notification, all electrical connections and other associated items.			
			D401001	**FIRE ALARM DISTRIBUTION**	SF	M2	Gross floor area
				Wire, conduit, conduit support or fastening systems, switches and connections.			
			D401002	**FIRE ALARM DEVICES**	EA	EA	Number of devices
				Fire alarm and fire detection devices			
		D4020	**FIRE SUPPRESSION WATER SUPPLY AND EQUIPMENT**		LF	M	Length of system
				Requirements for water supply design criteria and any items located upstream of the suppression systems such as PIV's, backflow preventers, strainers, etc.. The water supply distribution system begins 5'-0" outside the building.			
			D402001	**FIRE PROTECTION WATER PIPING AND EQUIPMENT**	LF	M	Length of system
				Piping			
			D402002	**FIRE PUMP**	EA	EA	Number of pumps
		D4030	**STANDPIPE SYSTEMS**		EA	EA	Number of sprinkler heads
				This subsystem includes the complete standpipe system.			
			D403001	**STANDPIPE EQUIPMENT & PIPING**	EA	EA	Number of sprinkler heads
				Assemblies include standpipe risers and all other piping, fittings, and supports associated with this category. Siamese connections, roof manifolds, cabinets, hoses, racks, and other fire department connections are included in this assembly. All equipment including pumps, tanks, etc., with all required fittings and specialties for hook-up are included in this assembly.			
		D4040	**SPRINKLERS**		EA	EA	Number of sprinkler heads
				This subsystem includes the water supply equipment and related piping from the equipment to the sprinkler head.			
			D404001	**SPRINKLERS AND RELEASING DEVICES**	EA	EA	Number of sprinkler heads
				The fixture, device, or sprinkler head that releases the water to suppress the fire. The unit of measure at the assembly level is each sprinkler head.			
			D404002	**SPRINKLER WATER SUPPLY EQUIPMENT AND PIPING**	EA	EA	Number of sprinkler heads
				Assemblies include alarm valves, flow control valves, pipe and fittings from equipment to sprinkler heads, including all supports and wall or floor sleeves. All equipment including tanks, pumps, and other associated equipment, fittings and specialties required for hook-up are in this assembly. The unit of measure at the assembly level is each sprinkler head.			
		D4050	**FIRE PROTECTION SPECIALTIES**		EA	EA	Number of extinguishers
				This subsystem includes fire extinguishing devices.			
			D405001	**PORTABLE EXTINGUISHERS**	EA	EA	Number of extinguishers
				Assemblies include all types of fire extinguishers, i.e., water, dry chemical, carbon dioxide, soda acid, etc. The brackets, sleeves, and supporting devices are included in this assembly.			
		D4090	**OTHER FIRE PROTECTION SYSTEMS**		EA	EA	Each system
				Requirements for all other suppression systems. Water based systems (e.g., foam systems) specified from water supply onwards, complete specification for gas systems, incidental systems such as kitchen hood systems.			
			D409001	**CARBON DIOXIDE SYSTEMS**	EA	EA	Number of systems
			D409002	**FOAM GENERATING EQUIPMENT**	EA	EA	Pieces of equipment
			D409003	**CLEAN AGENT SYSTEMS**	EA	EA	Number of systems
			D409004	**HOOD & DUCT FIRE PROTECTION**	EA	EA	Pieces of equipment
			D409090	**OTHER SPECIAL FIRE PROTECTION SYSTEMS**	EA	EA	Each system
				Assemblies includes other fire protection systems such as halon systems, exhaust hood systems, and special chemical suppression systems.			
	D50	**ELECTRICAL**			AMP	AMP	Gross floor area
				This system is defined by the electric current used or regarded as a source of power.			
		D5010	**ELECTRICAL SERVICE & DISTRIBUTION**		AMP	AMP	Gross floor area
				This subsystem provides for all electrical devices that are required to deliver the main source of power to the facility and to distribute this power to subpanels.			
			D501001	**MAIN TRANSFORMERS**	AMP	AMP	Number of transformers
				Transformers used for primary electrical service and located within the building footprint. Assemblies include transformers, raised pad, trenching, and backfill. This assembly will not likely be used when an exterior transformer is required in G4010 ELECTRICAL DISTRIBUTION.			
			D501002	**SERVICE ENTRANCE EQUIPMENT**	AMP	AMP	Gross floor area
				This includes the protection equipment and metering devices for main distribution. Assemblies include main distribution panel, breaker, fuses, and meters.			
			D501003	**INTERIOR DISTRIBUTION TRANSFORMERS**	AMP	AMP	Gross floor area
				Transformers fed downstream of the service entrance equipment. Assemblies include transformers, conduit, conduit support, and wire.			

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			D501004	**PANELBOARDS**	AMP	AMP	Gross floor area
				Branch circuit panelboards. Assemblies include panelboards, breakers ,conduit, and wire.			
			D501005	**ENCLOSED CIRCUIT BREAKERS**	AMP	AMP	Gross floor area
				Over-current protection device enclosed in its own housing. Assemblies include enclosed circuit breaker, conduit, and wire.			
			D501006	**MOTOR CONTROL CENTERS**	AMP	AMP	Gross floor area
				This is a cabinet in which motor starters and operation devices are contained. Assemblies include the motor control center cabinet, motor starters, contacts, switches, conduit, wire, and all associated items.			
			D501090	**OTHER SERVICE AND DISTRIBUTION**	XX	XX	
				Service and distribution not described by the assembly categories listed above.			
		D5020	**LIGHTING & BRANCH WIRING**		SF	M2	Floor area
				Lighting systems including light fixtures and devices, i.e., switches, receptacles, and equipment connections.			
			D502001	**BRANCH WIRING**	SF	M2	Floor area
				This assembly includes switches, receptacles, equipment connections, conduit, and wire.			
			D502002	**LIGHTING EQUIPMENT**	SF	M2	Floor area
				This assembly includes fixtures, conduit, wire, and switching devices.			
			D502090	**OTHER LIGHTING AND BRANCH WIRING**	XX	XX	
				Lighting and branch wiring not described by the assembly categories listed above.			
		D5030	**COMMUNICATIONS & SECURITY**		SF	M2	Floor area
				This subsystem includes provisions for communication devices and alarm protection systems.			
			D503001	**TELECOMMUNICATIONS SYSTEMS**	EA	EA	Number of outlets
				This system would include central switchboards, telephone sets, underground ducts, and manholes. Assemblies include wire, conduit, backboards, cabinets, outlets, and power supply connections.			
			D503002	**PUBLIC ADDRESS SYSTEMS**	SF	M2	Floor area
				Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.			
			D503003	**INTERCOMMUNICATIONS SYSTEMS**	EA	EA	Number of stations
				Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.			
			D503004	**TELEVISION SYSTEMS**	EA	EA	Number of outlets
				Assemblies include wire, conduit, grounding amplifiers, receivers, video equipment, and outlets grouped according to use.			
			D503005	**SECURITY SYSTEMS**	EA	EA	Number of system control panels
				Assemblies include wire, conduit, conduit support or fastening systems, security alarm devices, all electrical connections, and other associated items. Intrusion Detection Systems (IDS) are included in this category.			
			D503006	**NURSE CALL SYSTEMS**	EA	EA	Number of outlets
				Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.			
			D503007	**CLOCK & PROGRAM SYSTEMS**	EA	EA	Number of clocks
				Assemblies include wire, conduit, power systems tie-in, safety switches, control panels, battery back-up devices, clocks and outlets.			
			D503090	**OTHER COMMUNICATIONS & ALARM SYSTEMS**	XX	XX	
				Communication and alarm systems not described by the assembly categories listed above.			
		D5090	**OTHER ELECTRICAL SERVICES**		SF	M2	Gross Floor area
				Systems not described in System D5030.			
			D509001	**GENERAL CONSTRUCTION ITEMS (ELECTRICAL)**	SF	M2	Gross Floor area
				Includes construction other than electrical which must be performed in conjunction with the special electrical system to make the system complete.			
			D509002	**EMERGENCY LIGHTING & POWER**	SF	M2	Gross Floor area
				Assemblies include fixtures, motors used for power generation, connection and testing, transfer switches, conduit, wire, battery chargers, batteries, and solar panels.			
			D509003	**GROUNDING SYSTEMS**	SF	M2	Gross Floor area
				This assembly includes grounding protection systems.			

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			D509004	LIGHTNING PROTECTION	SF	M2	Gross Floor area
				Assemblies include lightning protection devices (air terminals, mounting devices), clamps, ground rods, cadwells, conductors, trenching, backfill, and any other items used to ground metal structural frames with conduit and wire.			
			D509005	ELECTRIC HEATING	SF	M2	Gross Floor area
				Items could include baseboard heaters and wall and ceiling heaters. Assemblies include safety switches, control devices, heaters, conduit, and wire.			
			D509006	ENERGY MANAGEMENT CONTROL SYSTEM	SF	M2	Gross Floor area
				Assemblies include wire, conduit, conduit support or fastening systems, sensor devices, and all electrical connections.			
			D509090	OTHER SPECIAL SYSTEMS AND DEVICES	XX	XX	
				Special systems and devices not described by the assembly categories listed above.			
E	**EQUIPMENT & FURNISHINGS**				SF	M2	Gross Floor area
				The types of equipment included in this assembly consist of the following: commercial, institutional, and vehicular. The types of furnishings found here include artwork, window treatments, seating, furniture, rugs etc.			
	E10	**EQUIPMENT**			SF	M2	Gross Floor area
				This system refers to equipment not found in System C1030 (Fittings).			
		E1010	**COMMERCIAL EQUIPMENT**		SF	M2	Floor area
				This equipment is not likely to be used in every building type. Subsystem C1030 includes those items likely to be found in every building type.			
			E101001	CHECKROOM EQUIPMENT	EA	EA	Number of coat hanging devices
				All associated work items including keys, tags, and storage cabinets would be included in this assembly.			
			E101002	REGISTRATION EQUIPMENT	EA	EA	Pieces of equipment
			E101003	VENDING EQUIPMENT	EA	EA	Pieces of equipment
			E101004	LAUNDRY EQUIPMENT	EA	EA	Pieces of equipment
			E101005	SECURITY & VAULT EQUIPMENT	EA	EA	Pieces of equipment
			E101006	TELLER AND SERVICE EQUIPMENT	EA	EA	Pieces of equipment
			E101007	MERCANTILE EQUIPMENT	EA	EA	Pieces of equipment
			E101008	OFFICE EQUIPMENT	EA	EA	Pieces of equipment
		E1020	**INSTITUTIONAL EQUIPMENT**		SF	M2	Floor area
				Institutional equipment includes items that are normally found in hospitals, laboratories, auditoriums, and libraries.			
			E102001	MISCELLANEOUS COMMON FIXED & MOVEABLE EQUIPMENT	EA	EA	Pieces of equipment
			E102002	MEDICAL EQUIPMENT	EA	EA	Pieces of equipment
			E102003	LABORATORY EQUIPMENT	EA	EA	Pieces of equipment
			E102004	MORTUARY EQUIPMENT	EA	EA	Pieces of equipment
			E102005	AUDITORIUM & STAGE EQUIPMENT	EA	EA	Pieces of equipment
			E102006	LIBRARY EQUIPMENT	EA	EA	Pieces of equipment
			E102007	ECCLESIASTICAL EQUIPMENT	EA	EA	Pieces of equipment
			E102008	INSTRUMENTAL EQUIPMENT	EA	EA	Pieces of equipment
			E102009	AUDIO-VISUAL EQUIPMENT	EA	EA	Pieces of equipment
			E102010	DETENTION EQUIPMENT	EA	EA	Pieces of equipment
		E1030	**VEHICULAR EQUIPMENT**		EA	EA	Pieces of equipment
				Vehicular equipment includes for parking, loading docks, and warehouses.			
			E103001	PARKING CONTROL EQUIPMENT	EA	EA	Pieces of equipment
			E103002	LOADING DOCK EQUIPMENT	EA	EA	Number of docks
			E103003	WAREHOUSE EQUIPMENT	EA	EA	Pieces of equipment
			E103004	AUTOMOTIVE SHOP EQUIPMENT	EA	EA	Pieces of equipment
		E1040	**GOVERNMENT FURNISHED EQUIPMENT**		EA	EA	Pieces of equipment
				New and existing equipment provided to the Contractor by the Government.			
		E1090	**OTHER EQUIPMENT**				
				The type of equipment found in his category include items for maintenance, food service, and waste handling.			
			E109001	BUILT-IN MAINTENANCE EQUIPMENT	SF	M2	Floor area
				The unit of measure at the assembly level is each.			
			E109002	FOOD SERVICE EQUIPMENT	EA	EA	Seating capacity
				The unit of measure at the assembly level is the total set of equipment needed in the particular functional space area.			
			E109003	WASTE HANDLING EQUIPMENT	EA	EA	Pieces of equipment
			E109004	RESIDENTIAL EQUIPMENT	EA	EA	Pieces of equipment
			E109005	UNIT KITCHENS	EA	EA	Pieces of equipment
			E109006	DARKROOM EQUIPMENT	EA	EA	Pieces of equipment
			E109007	ATHLETIC, RECREATIONAL, & THERAPEUTIC EQUIPMENT	EA	EA	Pieces of equipment
			E109008	PLANETARIUM EQUIPMENT	EA	EA	Pieces of equipment
			E109009	OBSERVATORY EQUIPMENT	EA	EA	Pieces of equipment
			E109010	AGRICULTURAL EQUIPMENT	EA	EA	Pieces of equipment
			E109090	OTHER SPECIALIZED FIXED AND MOVEABLE EQUIPMENT	XX	XX	
				Specialized fixed and moveable equipment not described by the assembly categories listed above.			
	E20	**FURNISHINGS**			SF	M2	Floor area
				The types of furnishings found here include artwork, window treatments, seating, furniture, rugs, etc.			
		E2010	**FIXED FURNISHINGS**		SF	M2	Floor area
				The types of furnishings found here include artwork, window treatments, and seating.			
			E201001	FIXED ARTWORK	EA	EA	Pieces of art work
			E201002	WINDOW TREATMENTS	SF	M2	Area of window treatment
			E201003	SEATING (FIXED)	EA	EA	Number of seats
			E201004	FIXED INTERIOR LANDSCAPING	EA	EA	Number of items
			E201090	OTHER FIXED INTERIOR FURNISHINGS	EA	EA	Number of furnishings
		E2020	**MOVEABLE FURNISHINGS**				
				The types of furnishings found here include moveable artwork, furniture, rugs, etc.			
			E202001	MOVEABLE ART WORK	EA	EA	Pieces of art work
			E202002	MODULAR PREFABRICATED FURNITURE	SF	M2	Pieces of prefabricated furniture
			E202003	FREESTANDING FURNITURE	EA	EA	Pieces of furniture
			E202004	RUGS & ACCESSORIES	EA	EA	Number of items
				Assemblies include rugs and accessories.			
			E202005	MOVEABLE MULTIPLE SEATING	EA	EA	Number of items
			E202006	MOVEABLE INTERIOR LANDSCAPING	EA	EA	Number of items

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			E202090	**OTHER MOVEABLE FURNISHINGS**	EA	EA	Number of furnishings
F				**SPECIAL CONSTRUCTION & DEMOLITION**	SF	M2	Floor area
				Special construction includes air-supported structures; pre-engineered structures; special purpose rooms; sound, vibration, and seismic construction; radiation protection; special security systems; aquatic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; liquid and gas storage tanks; recording instrumentation; and building automation systems. Selective building demolition includes demolition of existing buildings, and site demolition.			
	F10			**SPECIAL CONSTRUCTION**	SF	M2	Floor area
				Special construction includes air-supported structures; pre-engineered structures; special purpose rooms; sound, vibration, and seismic construction; radiation protection; special security systems; aquatic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; liquid and gas storage tanks; recording instrumentation; and building automation systems.			
		F1010		**SPECIAL STRUCTURES**	SF	M2	Floor area
				Special structures includes air-supported structures, and pre-engineered structures.			
			F101001	**METAL BUILDING SYSTEMS**	SF	M2	Floor area
			F101002	**EXTERIOR UTILITY BUILDINGS**	SF	M2	Floor area of exterior building
			F101003	**AIR-SUPPORTED STRUCTURES**	SF	M2	Floor area of exterior building
			F101090	**OTHER SPECIAL CONSTRUCTION**	XX	XX	
		F1020		**INTEGRATED CONSTRUCTION**	SF	M2	Floor area
				Integrated construction includes integrated assemblies and special purpose rooms.			
			F102001	**SPECIAL PURPOSE ROOMS**	SF	M2	Area of room
			F102002	**INTEGRATED ASSEMBLIES**	SF	M2	Area of room
			F102090	**OTHER INTEGRATED CONSTRUCTION**	SF	M2	Area of room
		F1030		**SPECIAL CONSTRUCTION SYSTEMS**	SF	M2	Area of room
				Special construction systems includes sound, vibration, and seismic construction; radiation protection; special security systems; and built-in place vaults.			
			F103001	**VAULTS**	SF	M2	Area of vault
				This is a built-in-place vault. Prefabricated safes are not included in this assembly. The unit of measure at the assembly level is each.			
			F103002	**SOUND, VIBRATION, AND SEISMIC CONSTRUCTION**	SF	M2	Area of room
			F103003	**RADIATION PROTECTION**	SF	M2	Area of room
			F103090	**OTHER SPECIAL CONSTRUCTION SYSTEMS**	SF	M2	Area of room
		F1040		**SPECIAL FACILITIES**	SF	M2	Area of room
				Special facilities includes aquatic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; and liquid and gas storage tanks.			
			F104001	**INTERIOR SWIMMING POOLS**	SF	M2	Area of pool
			F104002	**LIQUID AND GAS STORAGE TANKS**	EA	EA	Number of storage tanks
			F104003	**KENNELS AND ANIMAL SHELTERS**	SF	M2	Area of kennel or animal shelter
			F104004	**SITE CONSTRUCTED INCINERATORS**	EA	EA	Number of incinerators
			F104005	**ICE RINKS**	SF	M2	Area of ice rink
			F104090	**OTHER SPECIAL FACILITIES**	EA	EA	Number of special facilities
		F1050		**SPECIAL CONTROLS AND INSTRUMENTATION**	XX	XX	
				Special controls and instrumentation includes recording instrumentation and building automation systems.			
			F105001	**RECORDING INSTRUMENTATION**	EA	EA	Number of instruments
			F105002	**BUILDING AUTOMATION SYSTEMS**	EA	EA	Number of systems
			F105090	**OTHER SPECIAL CONTROLS AND INSTRUMENTATION**	EA	EA	Number of controls and instruments
	F20			**SELECTIVE BUILDING DEMOLITION**	LS	LS	
				Selective building demolition includes demolition of existing buildings, site demolition, and hazardous components abatement.			
		F2010		**BUILDING ELEMENTS DEMOLITION**	LS	LS	
				Selective building demolition includes demolition of existing buildings, and site demolition.			
			F201001	**SUBSTRUCTURE & SUPERSTRUCTURE**	LS	LS	
			F201002	**EXTERIOR CLOSURE**	LS	LS	
			F201003	**ROOFING**	LS	LS	
			F201004	**INTERIOR CONSTRUCTION & FINISHES**	LS	LS	
			F201005	**CONVEYING SYSTEMS**	LS	LS	
			F201006	**MECHANICAL SYSTEMS**	LS	LS	
			F201007	**ELECTRICAL SYSTEMS**	LS	LS	
			F201008	**EQUIPMENT & FURNISHINGS**	LS	LS	

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			F201090	**OTHER NON-HAZARDOUS SELECTIVE BUILDING DEMOLITION**	XX	XX	
				Non-hazardous selective building demolition not described by the assembly categories listed above.			
		F2020	**HAZARDOUS COMPONENTS ABATEMENT**		LS	LS	
				Hazardous components abatement includes the removal or encapsulation of hazardous building materials and components. Hazardous components include asbestos, lead based paint, paint containing cadmium, chromium and lead, mercury and low level radioactive components, PCBs, ozone depleting substances, animal droppings and molds and spores.			
			F202001	**SUBSTRUCTURE & SUPERSTRUCTURE**	LS	LS	
			F202002	**EXTERIOR CLOSURE**	LS	LS	
			F202003	**ROOFING**	LS	LS	
			F202004	**INTERIOR CONSTRUCTION & FINISHES**	LS	LS	
			F202005	**CONVEYING SYSTEMS**	LS	LS	
			F202006	**MECHANICAL SYSTEMS**	LS	LS	
			F202007	**ELECTRICAL SYSTEMS**	LS	LS	
			F202008	**EQUIPMENT & FURNISHINGS**	LS	LS	
			F202090	**OTHER HAZARDOUS SELECTIVE BUILDING DEMOLITION**	XX	XX	
				Hazardous selective building demolition not described by the assembly categories listed above.			
G	**BUILDING SITEWORK**				ACR	Hectare	Total area of site
				Building sitework includes site preparations, site improvements, site civil/mechanical utilities, site electrical utilities, service and pedestrian tunnels, and other site construction, such as bridges, and railroad spurs.			
	G10	**SITE PREPARATIONS**			ACR	Hectare	Total area of site
				This system includes assemblies for miscellaneous sitework such as clearing and grubbing, demolition and relocation, various earthwork tasks, and other site preparation and cleanup requirements. Hazardous cleanup is not included but is the subject of another WBS.			
		G1010	**SITE CLEARING**		ACR	Hectare	Area to be cleared
				This covers the different assemblies and options available for clearing of a site, tree and stump removal, burning, grubbing, chipping, and load and haul assemblies for removal of the cleared material.			
			G101001	**CLEARING**	ACR	Hectare	Area to be cleared
				This is the removal of above ground vegetation including stumps. For a wet site, Low Ground Pressure (LGP) equipment is used.			
			G101002	**TREE REMOVAL**	EA	EA	Number of trees to be removed
				This is the selective removal of trees on the site. Various options exist for different sizes of trees to be removed.			
			G101003	**STUMP REMOVAL**	EA	EA	Number of stumps to be removed
				This is the selective removal of stumps on the site. Various options exist for different sizes of stumps to be removed.			
			G101004	**GRUBBING**	ACR	Hectare	Area to be grubbed
				Grubbing is the removal of sod and other topsoil that contains unsuitable organic material. Various equipment types and size choices are available. Wet grubbing utilizes Low Ground Pressure (LGP) equipment. Haul-off of grubbed material is also included.			
			G101005	**SELECTIVE THINNING**	ACR	Hectare	Area to be thinned
				This is the selective removal of trees and underbrush without requiring extensive clearing and/or grubbing of the site.			
			G101006	**DEBRIS DISPOSAL**	CY	M3	Volume of material
				This is the disposal of the material that has been cleared and grubbed. Loading, hauling, and dump charges are included.			
			G101090	**OTHER SITE CLEARING**	XX	XX	
				Site clearing not described by the assembly categories listed above.			
		G1020	**SITE DEMOLITION & RELOCATIONS**		SY	M2	Area to be demolished
				This includes the demolition and/or relocation of structures, pavements, fencing, and underground utilities. Disposal of debris or demolished material, including loading and hauling, is also included.			
			G102001	**BUILDING MASS DEMOLITION**	CF	M3	Interior volume of building
				This is the complete demolition of buildings or structures. Options include steel, concrete, masonry, and wood structures.			
			G102002	**ABOVE GROUND SITE DEMOLITION**	SY	M2	Area to be demolished
				This is the demolition of pavements, fencing, and other non-building structures on a site. Pavement include roads, sidewalks, driveways, and curbs. Fencing types include chain link, barbed wire, and wood. This can also include removal and disposal of above ground storage tanks, including tank contents, associated piping, etc.			
			G102003	**UNDERGROUND SITE DEMOLITION**	SY	M2	Area to be demolished
				This is the demolition of underground utilities such as piping, manholes, and other non-building underground structures. The unit of measure at the assembly level for piping is LF and for manholes is CY. This can also include removal and disposal of under ground storage tanks, including tank contents, associated piping, etc.			
			G102004	**BUILDING RELOCATION**	SF	M2	Area of building to be relocated
				This is the process of dismantling a structure, and reassembling it on a different site.			
			G102005	**UTILITY RELOCATION**	LF	M	Length of pipe run
				To remove and reset. This is the removal and relocation of underground utilities such as steel and concrete pipe.			
			G102006	**FENCING RELOCATION**	LF	M	Length of fencing
			G102007	**SITE CLEANUP**	SY	M2	Area of site to clean
				Covered in this assembly category are items for site and area cleanup and pavement sweeping. Disposal of the debris is also included.			
			G102090	**OTHER SITE DEMOLITION & RELOCATIONS**	XX	XX	
				Site demolition and relocation not described by the assembly categories listed above.			
		G1030	**SITE EARTHWORK**		CY	M3	Volume of material
				Included are assemblies and options for site work such as grading, excavation, filling, compaction, stabilization, etc.			
			G103001	**GRADING**	SY	M2	Area to be graded
				Grading is leveling or flattening of the site in preparation for landscaping or other site construction. Includes unlined stormwater collection ponds.			
			G103002	**COMMON EXCAVATION**	CY	M3	Volume of material to be excavated
				This is excavation for roads, sidewalks, curbs, and trenching for underground utilities. Excavation may be carried out by a variety of equipment sizes and types. Disposal of the excavated material is also included.			
			G103003	**ROCK EXCAVATION**	CY	M3	Volume of rock to be excavated
				This is excavation of rock by explosives. Different equipment selections and load and haul are included.			

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			G103004	**FILL & BORROW**	CY	M3	Volume of material to place
				This is filling or replacing the material that was removed during excavation. Either the excavated material may be used or soil and sand may be hauled in from off-site. Filling to basements and foundations is not included in the subsystem.			
			G103005	**COMPACTION**	CY	M3	Volume of material to compact
				Compaction is the process of packing the fill material once it is in place. This may be done by machine or hand. Assemblies exist for both hand and machine compaction of soil, sand, and the excavated material.			
			G103006	**SOIL STABILIZATION**	CY	M3	Volume of soil to stabilize
				This is stabilization of the soil-in-place by the addition of lime or cement.			
			G103007	**SLOPE STABILIZATION**	SY	M2	Area of slope
				This is stabilization of the soil-in-place through the use of rip rap, gabions, slope paving, or other forms of soil armoring.			
			G103008	**SOIL TREATMENT**	SY	M2	Area of soil to treat
				Treatment of soil prior to final construction for insect protection or other purposes.			
			G103009	**SHORING**	SF	M2	Area requiring shoring
				Shoring is the temporary support for existing structures or excavation during construction.			
			G103010	**TEMPORARY DEWATERING**	SY	M2	Area to dewater
				This is the dewatering of the site by wellpoints to lower the groundwater table. This will facilitate excavation in areas with high water tables.			
			G103011	**TEMPORARY EROSION & SEDIMENT CONTROL**	SF	M2	Area to be protected
				Interim measures to minimize erosion during construction.			
			G103090	**OTHER SITE EARTHWORK**	XX	XX	
				Site earthwork not described by the assembly categories listed above.			
		G1040	**HAZARDOUS WASTE REMEDIATION**		LS	LS	
				Hazardous waste remediation, removal, disaposal and restoration of contaminated soil and/or groundwater.			
			G104001	**REMOVAL OF CONTAMINATED SOIL**	CY	M3	Volume of contaminated soil
			G104002	**SOIL RESTORATION AND TREATMENT**	CY	M3	Volume of soil
			G104090	**OTHER HAZARDOUS WASTE REMEDIATION**	XX	XX	
				Hazardous waste remediation not described by the assembly categories listed above.			
	G20	**SITE IMPROVEMENTS**			LS	LS	
				This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining walls, and landscaping.			
		G2010	**ROADWAYS**		SY	M2	Area of roadway
				This subsystem includes options for access, arterial, or interstate roadways. A variety of pavement types and thickness are available.			
			G201001	**BASES & SUBBASES**	SY	M2	Area of roadway
				These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied.			
			G201002	**CURBS & GUTTERS**	LF	M	Length of drainage pipe
				This is the drainage system for the selected roadway type. Options include curb and gutter drains or area drains with grates.			
			G201003	**PAVED SURFACES**	SY	M2	Area of roadway
				This is material that is placed atop the base layer to provide the driving surface.			
			G201004	**MARKING & SIGNAGE**	SY	M2	Area of roadway
				This includes roadway signage and pavement painting. Assemblies are included for traffic signs and posts and intersection, crosswalk, or other pavement painting or striping.			
			G201005	**GUARDRAILS & BARRIERS**	LF	M	Length of guardrail or barrier
				This is any associated guardrails or barriers that are required for the selected roadway type.			
			G201006	**RESURFACING**	SY	M2	Area of roadway
				This is the placement of an asphalt wearing course over the existing pavement surface. Assemblies exist for resurfacing of gravel, concrete, and asphalt roadways.			
			G201090	**OTHER ROADWAYS**	XX	XX	
				Roadways not described by the assembly categories listed above.			
		G2020	**PARKING LOTS**		EA	EA	Number of spaces
				These are the areas required of vehicles parking and include different surfaces and drainage options.			
			G202001	**BASES & SUBBASES**	SY	M2	Area of parking lot
				These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied.			
			G202002	**CURBS & GUTTERS**	LF	M	Length of curbs & gutters
				This is the curb and gutter drains or area drains with grates.			
			G202003	**PAVED SURFACES**	SY	M2	Area of parking lot
				This is material that is placed atop the base layer to provide the driving surface.			
			G202004	**MARKING & SIGNAGE**	EA	EA	Number of spaces
				This includes painting of the parking stalls, signage, etc.			
			G202005	**GUARDRAILS & BARRIERS**	LF	M	Length of guardrail or barrier
				Guardrails, barriers, parking stops and other similar devices.			
			G202006	**RESURFACING**	SY	M2	Area of parking lot
				This is the placement of an asphalt wearing course over the existing parking surface.			
			G202007	**MISCELLANEOUS STRUCTURES AND EQUIPMENT**	EA	EA	Number of structures or equipment
			G202090	**OTHER PARKING LOTS**	XX	XX	
				Parking areas not described by the assembly categories listed above.			
		G2030	**PEDESTRIAN PAVING**		SY	M2	Area of pavement
				This subsystem includes options for sidewalks and other small paved areas.			
			G203001	**BASES & SUBBASES**	SY	M2	Area of pavement
				These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied.			
			G203002	**CURBS & GUTTERS**	LF	M	Length of curbs & gutters
				This is the curb and gutter drains or area drains with grates.			
			G203003	**PAVED SURFACES**	SY	M2	Area of pavement
				This is material that is placed atop the base layer to provide the walking or driving surface.			
			G203004	**GUARDRAILS & BARRIERS**	LF	M	Length of guardrail or barrier
				This is any associated guardrails or barriers that are required.			
			G203005	**RESURFACING**	SY	M2	Area of pavement
				This is the placement of an asphalt wearing course over the existing pavement surface.			
			G203090	**OTHER WALKS, STEPS & TERRACES**	XX	XX	
				Walks, steps, ramps, terraces not described by the assembly categories listed above.			

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		G2040	**SITE DEVELOPMENT**		EA	EA	Each Structure
				Included are assemblies for on-site construction of fences, retaining walls, playing fields, fountains, and other site improvements.			
			G204001	**FENCING & GATES**	LF	M	Length of fence
				This includes installation or construction of security, boundary, or barbed wire fencing and all required gates.			
			G204002	**RETAINING WALLS AND FREESTANDING WALLS**	SY	M2	Area of wall
				These are structures used to prevent the flow or lateral movement of soil. Assemblies exist for cast-in-place concrete retaining walls.			
			G204003	**EXTERIOR FURNISHINGS**	EA	EA	Number of furnishings
				This includes the addition of such exterior furnishings as benches, planters, etc.			
			G204004	**SECURITY STRUCTURES**	EA	EA	Number of security structures
				This includes the construction or addition of security structures such as guard houses.			
			G204005	**SIGNAGE**	EA	EA	Number of signs
				Signs displayed to convey direction or information such as building function or tenant except for signs included in G201004 and G202004.			
			G204006	**FOUNTAINS & POOLS**	EA	EA	Number of fountains or pools
				This includes assemblies for swimming pools and decorative fountains.			
			G204007	**PLAYING FIELDS**	EA	EA	Number of playing fields
				Playing fields such as baseball or tennis courts as well as back stops, bleachers, and other playing field requirements are included.			
			G204008	**TERRACE AND PERIMETER WALLS**	SY	M2	Area of wall
			G204009	**FLAGPOLES**	EA	EA	Number of flagpoles
			G204090	**OTHER SITE IMPROVEMENTS**	XX	XX	
				This includes any other miscellaneous structures, such as a car wash, banking system, and theatre equipment located on the site.			
		G2050	**LANDSCAPING**		SY	M2	Area to be landscaped
				Assemblies are included that improve the appearance of the site by planting, seeding, and sodding.			
			G205001	**FINE GRADING & SOIL PREPARATION**	SY	M2	Area of site
				Fine grading of the site by hand or machine is required to prepare the soil for planting, seeding, or sodding.			
			G205002	**EROSION CONTROL MEASURES**	SY	M2	Area of erosion
				Soil erosion or deterioration due to wind, rain or other factors can be controlled or remedied in different ways. This includes slope protection by planting or vegetation or grass and/or placement of manmade geotextiles.			
			G205003	**TOPSOIL & PLANTING BEDS**	SY	M2	Area of planting bed
				Topsoil is placed to provide the nutritious soil bed which is required for plants or grass to grow.			
			G205004	**SEEDING, SPRIGGING AND SODDING**	SY	M2	Area of site
				This includes the seeding, sodding, fertilizing, watering, and mowing for the grass required on site.			
			G205005	**PLANTINGS**	EA	EA	Number of plants
				This includes the planting of trees, shrubs, and other vegetation for site beautification or improvement.			
			G205006	**PLANTERS**	EA	EA	Number of planters
				Planters are exterior decorative containers that contain plants or trees.			
			G205007	**IRRIGATION SYSTEMS**	SY	M2	Area of site to be watered
				This includes the installation of underground irrigation systems required for watering of trees, shrubs, and grass or other vegetation.			
			G205090	**OTHER LANDSCAPING**	XX	XX	
				Landscaping not described by the assembly categories listed above.			
		G2060	**AIRFIELD PAVING**		SY	M2	Area of paving
				Aircraft parking apron and runway paving.			
			G206001	**AIRFIELD PAVING CONSTRUCTION**	SY	M2	Area of paving
			G206002	**OTHER PAVING**	SY	M2	Area of paving
			G206003	**JOINTS AND ANCHORAGE**	SY	M2	Area of paving
			G206004	**NAVIGATION AIDS**	LS	LS	
			G206005	**AIRFIELD MARKINGS**	LS	LS	

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	G30			**SITE CIVIL/MECHANICAL UTILITIES**	EA	EA	Each utility
				Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, cooling distribution, fuel distribution, and other site mechanical utilities, such as industrial waste systems.			
		G3010		**WATER SUPPLY**	LF	M	Length of system
				This includes installation or construction of water distribution systems and facilities.			
			G301001	**WELL SYSTEMS**	EA	EA	Each system
				This includes all the components necessary to install a well, including drilling, installing casings, pumps, valves, etc.			
			G301002	**POTABLE WATER DISTRIBUTION**	LF	M	Length of system
				This includes construction and installation of underground piping, valve boxes, and valves.			
			G301003	**POTABLE WATER STORAGE**	GAL	GAL	Amount stored
				This includes construction and installation of tanks, both at grade and elevated.			
			G301004	**FIRE PROTECTION WATER DISTRIBUTION**	LF	M	Length of system
				This includes construction and installation of dedicated water piping for fire protection system only. This does not include potable water distribution systems that are used as a water source for fire protection systems.			
			G301005	**FIRE PROTECTION WATER STORAGE**	GAL	GAL	Amount stored
				This includes tanks on grade and elevated for storage of water for fire protection only.			
			G301006	**NON-POTABLE WATER DISTRIBUTION**	LF	M	Length of system
				This includes construction and installation of water distribution system not for consumption, such as irrigation or hydro-electric power generation and from reservoirs to treatment facilities.			
			G301007	**PUMPING STATIONS**	GPM	L/S	Operating capacity
				This includes construction and installation of pumps, valves, and piping.			
			G301008	**PACKAGED WATER TREATMENT PLANTS**	GPD	GPD	Operating capacity
				This includes installation of completely assembled water treatment plants.			
			G301090	**OTHER WATER SUPPLY**	XX	XX	
				Water supply not described by the assembly categories listed above.			
		G3020		**SANITARY SEWER**	LF	M	Length of system
				This includes all assemblies necessary for sewage collection systems.			
			G302001	**SANITARY SEWER PIPING**	LF	M	Length of piping
				This includes installation of piping for collection of sewage.			
			G302002	**SANITARY SEWER MANHOLES & CLEANOUTS**	EA	EA	Each manhole or cleanout
				This includes construction and installation of manholes and cleanouts in sewage collection systems.			
			G302003	**LIFT STATIONS AND PUMPING STATIONS**	GPM	L/S	Operating capacity
				This includes construction and installation of piping and equipment in lift stations.			
			G302004	**PACKAGED SANITARY SEWER TREATMENT PLANTS**	GPD	L/S	Operating capacity
				This includes installation of pre-assembled sewage treatment plants.			
			G302005	**SEPTIC TANKS**	GAL	L	Volume of tank
				This includes installation of prefabricated septic tanks or the construction of septic tanks.			
			G302006	**DRAIN FIELDS**	LF	M	Length of field
				This includes installation of drain fields for disposal of effluent from septic tanks.			
			G302090	**OTHER SANITARY SEWER**	XX	XX	
				Sanitary sewers not described by the assembly categories listed above.			
		G3030		**STORM SEWER**	LF	M	Length of system
				This includes construction of storm water collection systems.			
			G303001	**STORM SEWER PIPING**	LF	M	Length of piping
				This includes installation of piping for collection of storm water.			
			G303002	**STORM SEWER STRUCTURES**	EA	EA	Each manhole or cleanout
				This includes construction and installation of manholes for storm water collection systems.			
			G303003	**LIFT STATIONS**	GPM	L/S	Operating capacity
				This includes construction of lift stations including piping, pumps, and controls.			
			G303004	**CULVERTS**	LF	M	Length of culvert
				This includes construction and installation of culverts for storm water systems.			
			G303005	**HEADWALLS**	EA	EA	Each structure
				This includes construction of headwalls and installation of catch basins for storm water systems.			
			G303006	**EROSION & SEDIMENT CONTROL MEASURES**	SY	M2	Area to control
				This includes construction to control erosion due to runoff.			
			G303007	**STORMWATER MANAGEMENT**	GAL	GAL	Volume of collection area
			G303090	**OTHER STORM SEWER**	XX	XX	
				Storm sewers not described by the assembly categories listed above.			
		G3040		**HEATING DISTRIBUTION**	LF	M	Length of system
				This includes overhead and underground hot water, steam, and condensate piping.			
			G304001	**OVERHEAD HOT WATER SYSTEMS**	LF	M	Length of system
				This includes installation of overhead hot water supply and return piping.			
			G304002	**OVERHEAD STEAM SYSTEMS**	LF	M	Length of system
				This includes installation of overhead steam supply and condensate return piping.			
			G304003	**UNDERGROUND HOT WATER SYSTEMS**	LF	M	Length of system
				This includes installation of underground hot water supply and return piping.			
			G304004	**UNDERGROUND STEAM DISTRIBUTION SYSTEMS**	LF	M	Length of system
				This includes installation of underground steam supply and condensate return piping.			
			G304005	**REINFORCED CONCRETE MANHOLES & VALVE BOXES**	EA	EA	Each structure
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
			G304006	**PUMPING STATIONS**	EA	EA	Each pumping station
			G304090	**OTHER HEATING DISTRIBUTION**	XX	XX	
				Heating distribution not described by the assembly categories listed above.			
		G3050		**COOLING DISTRIBUTION**	LF	M	Length of system
				This includes construction and installation of chilled water distribution systems.			
			G305001	**OVERHEAD COOLING SYSTEMS**	LF	M	Length of system
				This includes installation of overhead chilled water supply and return piping.			
			G305002	**UNDERGROUND COOLING SYSTEMS**	LF	M	Length of system
				This includes installation of underground chilled water supply and return piping.			
			G305003	**TRENCHBOXES**	LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
			G305004	**WELLS FOR COOLING**	EA	EA	Each well
			G305005	**PUMPING STATIONS**	EA	EA	Each pumping station
			G305006	**ON-SITE COOLING TOWERS**	EA	EA	Each cooling tower
			G305090	**OTHER COOLING DISTRIBUTION**	XX	XX	
				Cooling distribution not described by the assembly categories listed above.			

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		G3060	FUEL DISTRIBUTION		GAL	L	Volume of storage tank
				This includes installation of piping and storage tanks for building and aviation fuels.			
			G306001	LIQUID FUEL DISTRIBUTION PIPING SYSTEM	LF	M	Length of piping
				This includes installation of piping for fuel and oil distribution. This includes equipment related to piping, system leak detection and tightness testing.			
			G306002	AVIATION FUEL DISTRIBUTION PIPING SYSTEM	LF	M	Length of piping
				This includes installation of piping for aviation fuel distribution and equipment related to the piping. This also includes system leak detection and tightness testing.			
			G306003	LIQUID FUEL STORAGE TANKS	GAL	L	Volume of storage tank
				This includes installation of buried or above ground fuel tanks relating to liquid fuel or aviation systems.			
			G306004	LIQUID FUEL DISPENSING EQUIPMENT	EA	EA	Each piece of equipment
				This includes equipment relating to liquid fuel and aviation systems.			
			G306005	LIQUID FUEL SYSTEM TRENCHBOXES	LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
			G306006	GAS DISTRIBUTION PIPING (NATURAL AND PROPANE]	LF	M	Length of piping
				This includes piping for distribution of natural or propane gas.			
			G306007	GAS STORAGE TANKS	GAL	L	Volume of storage tank
				This includes installation of tanks for natural or propane gas.			
			G306008	GAS SYSTEM TRENCHBOXES	LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
			G306009	OTHER GAS DISTRIBUTION	XX	XX	
				Gas distribution not described by the assembly categories listed above.			
			G306090	OTHER FUEL DISTRIBUTION	XX	XX	
				Fuel not described by the assembly categories listed above.			
		G3090	OTHER SITE MECHANICAL UTILITIES		LF	M	Length of system
				This includes all systems for collection of contaminated waste requiring special treatment.			
			G309001	INDUSTRIAL WASTE PIPE	LF	M	Length of piping
				This includes construction and installation of all piping for collection of industrial waste.			
			G309002	INDUSTRIAL WASTE MANHOLES & CLEANOUTS	EA	EA	Each manhole or cleanout
				This includes construction of manholes and cleanouts for industrial waste.			
			G309003	INDUSTRIAL WASTE LIFT STATIONS	GPM	L/S	Operating capacity
				This includes construction and installation of industrial waste lift stations and equipment.			
			G309004	INDUSTRIAL WASTE HOLDING TANKS & SEPARATORS	EA	EA	Number of tanks
				This includes construction or installation of special tanks such as silver recovery tanks or separators such as oil water separators.			
			G309005	INDUSTRIAL WASTE TRENCHBOXES	LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
			G309090	OTHER INDUSTRIAL WASTE	XX	XX	
				Industrial waste not described by the assembly categories listed above, such as petroleum oil and lubricant distribution systems.			
	G40	SITE ELECTRICAL UTILITIES			EA	EA	Systems total
				This system includes exterior electrical systems and equipment including substations, overhead and underground distribution systems, metering systems and equipment, exterior lighting, lightning protection systems, communication and alarm systems, and cathodic protection.			
		G4010	ELECTRICAL DISTRIBUTION		KVA	KVA	Total rated capacity
				Electrical distribution includes the following: substations; transformers; switches, controls and devices; overhead electric conductors; towers, poles, crossarms and insulators; underground electric conductors; ductbanks, manholes, handholes and raceways; grounding systems; and metering.			
			G401001	SUBSTATIONS	KVA	KVA	Total rated capacity
				This system includes substation equipment and materials required from the primary power source.			
			G401002	TRANSFORMERS	KVA	KVA	Total rated capacity
				Electrical power transformers used in conjunction with electrical substations. May include pole/tower or pad-mounted transformers located outside the building.			
			G401003	SWITCHES, CONTROLS & DEVICES	EA	EA	Number of separate components
				Includes all components of switchgear, voltage regulators and busbars used with electrical substations.			
			G401004	OVERHEAD ELECTRIC CONDUCTORS	LF	M	Length of conductor
				Includes conductors used in conjunction with substations.			
			G401005	TOWERS, POLES, CROSSARMS & INSULATORS	EA	EA	Number of towers and poles
				Towers, poles, crossarms, and insulators used in conjunction with substations.			
			G401006	UNDERGROUND ELECTRIC CONDUCTORS	LF	M	Length of conductor
				Includes conductors used in conjunction with substations.			
			G401007	DUCTBANKS, MANHOLES, HANDHOLES & RACEWAYS	EA	EA	Number of ductbanks and access points
				Components used in conjunction with electrical substations.			
			G401008	GROUNDING SYSTEMS	EA	EA	Number of systems
				Grounding systems used in conjunction with substations. Grounding systems for buildings, power distribution, and other electrical systems and subsystems are included with those other systems.			
			G401009	METERING	EA	EA	Number of meters
				Includes components used in conjunction with exterior electrical distribution.			
			G401010	CATHODIC PROTECTION	EA	EA	Each system
				Includes a system used in conjunction with exterior electrical distribution for corrosion control.			
			G401011	EQUIPMENT REQUIREMENTS FOR COASTAL AND HIGH HUMIDITY AREAS	XX	XX	
			G401090	OTHER ELECTRIC TRANSMISSION & DISTRIBUTION	XX	XX	
				Substations not described by the assembly categories listed above.			
		G4020	SITE LIGHTING		LF	M	Length of distribution
				Exterior electrical lighting systems including conductors, switches, controls and other devices, supporting structures, grounding systems, and all other equipment required to support a lighting system.			
			G402001	EXTERIOR LIGHTING FIXTURES & CONTROLS	EA	EA	Number of fixtures
				Includes fixtures, controls, and all components used in conjunction with exterior lighting.			
			G402002	SPECIAL SECURITY LIGHTING SYSTEMS	EA	EA	Number of systems
				Includes all components used for special security lighting.			
			G402003	OTHER AREA LIGHTING	EA	EA	Number of fixtures
				Includes components and equipment used for area lighting.			

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			G402004	**LIGHTING POLES**	EA	EA	Number of towers and poles
				Poles used to support lighting fixtures and support equipment.			
			G402005	**UNDERGROUND ELECTRIC CONDUCTORS**	LF	M	Length of conductor
				Includes conductors for underground electrical distribution to lighting systems.			
			G402006	**DUCTBANKS, MANHOLES & HANDHOLES**	EA	EA	points
				Includes all components used in conjunction with exterior lighting.			
			G402007	**GROUNDING SYSTEMS**	EA	EA	Number of systems
				Grounding systems used in conjunction with exterior lighting.			
		G4030	**SITE COMMUNICATION AND SECURITY**		LF	M	Length of distribution
				This system includes cables, ductbanks, manholes, and all other equipment required to support exterior communication and alarm systems.			
			G403001	**TELECOMMUNICATIONS SYSTEMS**	LF	M	Length of distribution
				Includes all components, cables, and equipment used in conjunction with exterior telephone systems.			
			G403002	**CABLE TV SYSTEMS (CATV)**	LF	M	Length of distribution
				Includes all components, cables, and equipment used in conjunction with exterior cable TV systems.			
			G403003	**CABLES & WIRING**	LF	M	Length of conductor
				Includes cables, wiring, and equipment used in conjunction with exterior security systems.			
			G403004	**DUCTBANKS, MANHOLES & HANDHOLES**	EA	EA	Number of ductbanks and access points
				Includes ductbank, manholes, and handholes used in conjunction with exterior security			
			G403005	**TOWERS, POLES & STANDS**	EA	EA	Number of towers, poles and stands
				Includes towers, poles, stands, and equipment used in conjunction with exterior security systems.			
			G403006	**TV CAMERAS & MONITORS**	EA	EA	Number of cameras and monitors
				Includes cameras, monitors, and components used in conjunction with exterior security systems.			
			G403007	**ELECTRONIC SECURITY SYSTEMS (ESS)**	EA	EA	Number of systems
				Includes components and systems used in conjunction with exterior security systems.			
			G403008	**OTHER COMMUNICATION & ALARM**	XX	XX	
				Includes all components, cables, and equipment used in conjunction with other special communication and alarm systems not defined above.			
			G403009	**GROUNDING SYSTEMS**	EA	EA	Number of systems
				Includes grounding systems used in conjunction with exterior security systems.			
			G403090	**OTHER SECURITY SYSTEMS**	XX	XX	
				Includes all components and equipment used in conjunction with special security systems not defined above.			
		G4090	**OTHER SITE ELECTRICAL UTILITIES**		LF	M	Length of conductor
				This system includes alternate energy sources. This system also includes sacrificial anodes, induced current conductors, and components used in conjunction with cathodic protection.			
			G409001	**SACRIFICIAL ANODE CATHODIC PROTECTION SYSTEM**	EA	EA	Number of anodes
				Includes all components required in conjunction with sacrificial anode system.			
			G409002	**INDUCED CURRENT CATHODIC PROTECTION SYSTEM**	LF	M	Length of conductor
				Includes conductors and termination required for cathodic protection.			
			G409003	**EMERGENCY POWER GENERATION**	KVA	KVA	Total rated capacity
			G409090	**OTHER CATHODIC PROTECTION**	XX	XX	
				Includes components and equipment used in conjunction with other cathodic protection systems not defined above.			
	G90	**OTHER SITE CONSTRUCTION**			LS	LS	
				Other site construction includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems.			
		G9010	**SERVICE AND PEDESTRIAN TUNNELS**		XX	XX	
				This assembly includes service and pedestrian tunnels.			
			G901001	**CONSTRUCTION OF SERVICE AND PEDESTRIAN TUNNELS**	LF	M	Length of tunnel
				This assembly includes construction of service and pedestrian tunnels.			
			G901002	**PREFABRICATED SERVICE AND PEDESTRIAN TUNNELS**	LF	M	Length of tunnel
				This assembly includes prefabricated service and pedestrian tunnels.			
		G9090	**OTHER SITE CONSTRUCTION**		XX	XX	
				Other site construction includes bridges, railroad spurs and snow melting systems.			
			G909001	**BRIDGES**	SY	M2	Area of structure
				Bridges included here are typically small spans or overpasses that are not meant to be used to estimate spans over large bodies of water. Options exist for cast-in-place concrete T-beam, precast I-beam, precast box, concrete and steel composite, laminated timber deck bridge structures.			
			G909002	**RAILROAD SPURS**	LF	M	Length of track
				Railroad assemblies exist for 110, 115, and 132 lb. tracks and ties. Turnouts, roadway crossings, derailleurs, stops, and bumpers are also included.			
			G909003	**SNOW MELTING SYSTEMS**	EA	EA	Number of systems
			G909090	**OTHER SPECIAL CONSTRUCTION**	XX	XX	
				Any special construction not covered in the above categories.			
	H10	**WATERFRONT STRUCTURES**			LS	LS	
				Waterfront Structures including wharves, piers, dolphins, trestles, and other structures and appurtenances necessary for the safe mooring of vessels and to support waterfront operations.			
		H1010	**SUBSTRUCTURE**		XX	XX	
				This assembly includes substructure components for waterfront structures, such as pile foundations, pile caps, quays, relieving platforms, revetments, seawalls, boat ramps, cut-off walls, firewalls, and hanging panels.			
			H101001	**PILE FOUNDATIONS**	VLF	VM	Length of piles
			H101002	**PILE CAPS**	XX	XX	
			H101003	**QUAYS**	XX	XX	
			H101004	**RELIEVING PLATFORMS**	XX	XX	
			H101005	**REVETMENTS**	XX	XX	
			H101006	**SEAWALLS**	XX	XX	
			H101007	**BOAT RAMPS**	XX	XX	
			H101008	**CUT-OFF WALLS**	XX	XX	
			H101009	**GUARD POSTS AND RAILING**	XX	XX	
			H101010	**OTHER SUBSTRUCTURE COMPONENTS**	XX	XX	
		H1020	**SUPERSTRUCTURE**		XX	XX	

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				This assembly includes superstructure components for waterfront structures, such as beams and girders, columns, utility enclosures, and other features that support the operation deck area.			
			H102001	BEAMS AND GIRDERS	XX	XX	
			H102002	COLUMNS	XX	XX	
			H102003	UTILITY ENCLOSURES	XX	XX	
			H102004	OTHER SUPERSTRUCTURE ELEMENTS	XX	XX	
		H1030	DECK		XX	XX	
				This assembly includes the components for the deck, including elevated deck, on-grade deck, deck overlays, curbs and bullrails, mooring hardware foundation, high mast lighting foundations, utility mounds, expansion joints, guard post and railings, paint striping and other related features.			
			H103001	DECK	XX	XX	
			H103002	ON-GRADE SLAB	XX	XX	
			H103003	DECK OVERLAY	XX	XX	
			H103004	CURBS AND BULLRAILS	XX	XX	
			H103005	MOORING FOUNDATIONS	XX	XX	
			H103006	HIGH MAST LIGHTING FOUNDATIONS	XX	XX	
			H103007	UTILITY MOUNDS	XX	XX	
			H103008	EXPANSION JOINTS	XX	XX	
			H103009	GUARD POSTS AND RAILING	XX	XX	
			H103010	PAINT STRIPING	XX	XX	
			H103011	OTHER DECK COMPONENTS	XX	XX	
		H1040	MOORING AND BERTHING SYSTEM		XX	XX	
				This assembly includes the components for the mooring hardware and fendering systems, including foundations, anchor bolts, and support systems.			
			H104001	PRIMARY FENDER SYSTEM	XX	XX	
			H104002	SECONDARY FENDER SYSTEM	XX	XX	
			H104003	CORNER FENDER SYSTEM	XX	XX	
			H104004	DOLPHINS	XX	XX	
			H104005	MOORING HARDWARE	XX	XX	
			H104006	OTHER MOORING AND BERTHING COMPONENTS	XX	XX	
		H1050	REPAIR AND REHABILITATION		XX	XX	
		H1060	APPURTENANCES		LS	LS	
				This assembly includes the appurtenances such as handrails, brows, cable booms, floats, safety ladders, life rings, oil containment booms, and other similar features.			
	H20	GRAVING DRYDOCKS			LS	LS	
	H30	COASTAL PROTECTION			LS	LS	
				Coastal Protection System consists of all waterfront breakwaters, wave protection armor, slope protection, revetments, and other features necessary and required for the protection of waterfront facilities from damage by wave, tide and current.			
		H3010	WAVE PROTECTION		XX	XX	
				This assembly includes required wave protection features, such as breakwaters, wave protection armor for slope protection, revetment and scour protection.			
			H301001	WAVE PROTECTION ARMORS	XX	XX	
			H301002	BREAKWATERS	XX	XX	
		H3020	SLOPE PROTECTION		XX	XX	
				This assembly includes required slope protection features, such as revetment or embankment dikes.			
			H302001	ROCK REVETMENTS	XX	XX	
			H302002	GRANULAR FILL REVETMENTS	XX	XX	
			H302003	COMBINED ROCK AND GRANULAR FILL REVETMENTS	XX	XX	
	H40	NAVIGATION DREDGING AND RECLAMATION			LS	LS	
				Navigation Dredging and Reclamation System consists of all dredging of navigation channels, approaches, turning basins, and berthing areas near piers, wharves, dolphins, and reclamation as necessary to navigate the vessels to the berths and produce reclaimed land to support construction of the waterfront facilities.			
		H4010	DREDGING		XX	XX	
		H4020	DREDGING DISPOSAL		XX	XX	
			H402001	OCEAN DISPOSAL	XX	XX	
			H402002	NEW CONFINED DISPOSAL FACILITIES	XX	XX	
			H402003	EXISTING CONFINED DISPOSAL FACILITIES	XX	XX	
		H4030	RECLAMATION		XX	XX	
	H50	WATERFRONT UTILITIES			LS	LS	
				The Waterfront Utility System consists of civil/mechanical utilities, electrical utilities, and fire protection to be installed on waterfront structures			
		H5010	CIVIL/MECHANICAL UTILITIES		XX	XX	
			H501001	POTABLE WATER	XX	XX	
			H501002	SALTWATER	XX	XX	
			H501003	SANITARY SEWER	XX	XX	
			H501004	BILGE AND OILY WASTE	XX	XX	
			H501005	COMPRESSED AIR	XX	XX	
			H501006	STEAM	XX	XX	
			H501007	OTHER CIVIL/MECHANICAL UTILITIES	XX	XX	
			H501008	PIPE GUARDRAILS	XX	XX	
		H5020	ELECTRICAL UTILITIES		XX	XX	
			H502001	POWER DISTRIBUTION SYSTEM	XX	XX	
			H502002	TELECOMMUNICATION SYSTEM	XX	XX	
			H502003	LIGHTING SYSTEMS	XX	XX	
			H502004	LIGHTNING PROTECTION SYSTEM	XX	XX	
			H502005	POWER BOOMS	XX	XX	
			H502006	OTHER ELECTRICAL UTILITIES	XX	XX	
		H5030	FIRE PROTECTION AND SUPPRESSION		XX	XX	
			H503001	FIRE PROTECTION WATER DISTRIBUTION SYSTEM	XX	XX	
			H503002	FIRE ALARM	XX	XX	
	H60	WATERFRONT DEMOLITION			LS	LS	
		H6010	IN OR OVER-WATER DEMOLITION		XX	XX	

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		H6020	**NON IN OR OVER-WATER DEMOLITION**		XX	XX	
		H6030	**HAZARDOUS COMPONENTS ABATEMENT**		XX	XX	
	H70	**WATERFRONT ATFP**			LS	LS	
		H7010	**WATERSIDE ATFP**		XX	XX	
		H7020	**LANDSIDE ATFP**		XX	XX	
	Z10	**GENERAL**			LS	LS	
				The common or general requirements from the Performance Technical Specification Sections.			