## CCC As-built requirements for Land Improvements V3.0

## Survey As-built Guidelines (SAG) Appendix P

P01: Parks Tank	2
P02: Parks Pump	4
P03: Irrigation System	6
P04: Parks Backflow Preventer	8
P05: Parks Cable	10
P06: Parks Electrical System	12

Name		Parks Tank (Point)	•	An enclosed container for storing liquids. S
Point Typ	9	P01 "Point Asset Inputs"		tanks may incorporate treatment (e.g. se
			tanks). Ensu	tanks). Ensure only tanks owned and used for
				park are captured. Do not capture assets that
CAT	SAG Attribute Description		Valid Values	part of the council's waste water, or water su
Column				network. Ponds constructed to hold water
A	Type of Point Feature		P01	
В	Specific type of Tank (Use		Select from pick list: domParksTankUse	livestock or firefighting are also consid
С	Asset Record Capture Ty	pe	Select from pick list: domExistingOrNew	tanks.
D	Differs from design (yes/n	0)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	Centre of structure
F	Centre of Structure in Eas	0	data - Decimal Number (12 Chars, 2 Decimals)	ХҮ
G	Centre of Structure in Nor	thing coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	Date of commission		data - Date (dd/mm/yyyy)	and the second sec
	Location certainty - accur	·	Select from pick list: domLocationCertainty	
J	Name of main contractor	who installed asset	Select from pick list: domInstalledBy	
	Date of "survey-start"		data - Date (dd/mm/yyyy)	
		ation, further details, or location within park	data - Text (70 Characters)	
	File name of photo - Phot	os must be supplied	data - Text (50 Characters)	
	Construction Material Tank Contents		Select from pick list: domParksTankConstruction Select from pick list: domParksTankContent	T. C.
• P	Capacity in litres (Ltrs)		data - Decimal Number (7 Chars, 0 Decimals)	
	Re-locatable?		Select from pick list: domParksTankRelocatable	
	Construction Style		Select from pick list: domParksTankConstructionStyle	Plastic/Polyethylene water tank.
L S	Ground Feature Type		Select from pick list: domParksTankFoundation	
	I Information columns must be left " endix C.1.2 for a CAT e	blank" or hold the value "LEAVE E	BLANK" as default in CAT	-

	Parks Tank (Continued)	
CLASSIFICATION INFORMATION	CLASSIFICATION INFORMATION	-
<ol> <li>Artwork (Yes/No) Most tanks will not have an artwork component. Some tanks however may be painted or decorated and have an artwork component.</li> <li>Ground Feature Type - describe where the tank is in relation to the ground. Picklist includes values such as Above ground, Below ground, Combination, etc.</li> <li>Tank Use         <ul> <li>Domestic – Tank constructed to service the building (water supply, wastewater, etc).</li> <li>Fire Fighting –Contents are for fighting fires. May be a tank or a pond.</li> <li>Heating – Not applicable to water.</li> <li>Irrigation – Tank contains livestock drinking water. May be tank or pond.</li> <li>Vehicles – Not applicable to water.</li> </ul> </li> <li>Tank Contents What does the tank contain?         <ul> <li>Diesel</li> <li>Petrol</li> <li>Sewerage</li> <li>Water</li> <li>Gas</li> </ul> </li> </ol>	<ul> <li>CLASSIFICATION INFORMATION</li> <li>8. Construction Style</li> <li>a. Pre-Cast - Concrete tank cast into shape off-site and transported ready made to site for installation.</li> <li>b. Pre-Fabricated - Plastic or steel tank fabricated off-site and transported ready made to site for installation.</li> <li>c. Sectional - Pre-made sections of tank made off site and joined together during installation.</li> <li>a. Cast In-Situ - Tank cast as part of the installation.</li> <li>e. Masonry - Bricks or stones joined by mortar.</li> <li>f. Welded - Metallic plates fused together with bolts or rivets.</li> <li>ADDITIONAL COMMENTS</li> <li>Ponds constructed to hold water for livestock or firefighting are also considered tanks.</li> <li>Water tanks supplying water troughs on CCC parks land are generally Council owned. Exceptions are any makeshift tanks which are private.</li> <li>Wastewater tanks are installed underground. Visible parts of the fixeliac correctly.</li> <li>Reservoirs, pump stations, manholes and overflow chambers that are part of the Council water supply or wastewater systems are not to be captured as tanks. Examples of these assets are shown below.</li> </ul>	<image/>
should be in Litres. <b>7. Re-locatable</b> Can the tank be moved and used in another location?		Concrete and Fibreglass Water Tanks
	Wastewater Tank/Pump Chamber	

	Name		Parks Pump (Point)	•	A device designed to move fluids through
	Point Type	•	P02 "Point Asset Inputs"		mechanical action.
					Centre of structure
	CAT Column	SAG Attribute Description		Valid Values	ХҮ
	A	Type of Point Feature		P02	
	В	Specific type of Pump		Select from pick list: domParksPumpType	There -
	С	Asset Record Capture Type		Select from pick list: domExistingOrNew	
	D	Differs from design (yes/no)		Select from pick list: domDiffersFromDesign	
	E	Asset Unique Identifier		data - Text (100 Characters)	A CALLER AND A CAL
	F	Centre of Structure in Eastin	g coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	G	Centre of Structure in Northin	ng coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	Н	Date of commission		data - Date (dd/mm/yyyy)	
2	I	Location certainty - accuracy	of data	Select from pick list: domLocationCertainty	
Ξ	J	Name of main contractor who	o installed asset	Select from pick list: domInstalledBy	
Parks Pump	К	Date of "survey-start"		lata - Date (dd/mm/yyyy)	
	L	Long Description - explanation, further details, or location within park		data - Text (70 Characters)	
	М	File name of photo - Photos	nust be supplied	data - Text (50 Characters)	
	Ν	Service		Select from pick list: domParksPumpService	
	0	Pump Function		Select from pick list: domParksPumpFunction	Hand pump installed in a park. This pump has a
	Р	Pump Purpose		Select from pick list: domParksPumpPurpose	artwork component.
	Q	Usage Class		Select from pick list: domParksPumpUsageClass	
N	R	Pump Source		Select from pick list: domParksPumpSource	
P02:	S	Vertical Multistage		Select from pick list: domParksPumpVerticalMultistage	
Δ	Т	Submersible		Select from pick list: domParksPumpSubmersible	And a second sec
	U	Impeller Diameter in millimet	ers (mm)	data - Decimal Number (4 Chars, 0 Decimals)	
	V	Impeller Model Number		data - Text (30 Characters)	
	W	Pulley Diameter in millimeter		data - Decimal Number (6 Chars, 0 Decimals)	and the second s
	Х	Discharge Diameter in millim	eters (mm)	data - Decimal Number (4 Chars, 0 Decimals)	
	Y	kVA Rating		data - Decimal Number (6 Chars, 2 Decimals)	A REAL PROPERTY AND A REAL
	Z	Maximum Lift in meters (m)		data - Decimal Number (5 Chars, 2 Decimals)	
	AA	Manufacturer		Select from pick list: domParksPumpManufacturer	
	AB	Model Name		data - Text (50 Characters)	
,	AC	Part Number		data - Text (50 Characters)	
	AD	Serial Number		data - Text (50 Characters)	
		Information			Dump and materian infinitian
		columns must be left "bla ndix C.1.2 for a CAT exa	ank" or hold the value "LEAVE B mple.	LANK" as default in CAT	Pump and motor on irrigation system. Ensure only pumps owned and used for the parl are captured. Do not capture assets that are par of the council's waste water, or water supply network.

	Parks Pump (Continued)						
CLASSIFICATION INFORMATION		ADDITIONAL COMMENTS					
<ol> <li>Artwork (Yes/No) Motor driven pumps will not have an artwork component. Hand pumps have an artwork component.</li> <li>Service What fluid does the pump transfer?</li> <li>Drainage – Stormwater</li> <li>Sewerage – Wastewater</li> <li>Water – Potable water</li> <li>Water – Potable water</li> <li>Booster – A booster pump is mounted in-line to increase pressure.</li> <li>Primary – Primary pumps feed the network from a raw water source.</li> <li>Secondary – Secondary pumps feed the network from a traw water source.</li> <li>Secondary – Secondary pumps feed the network from a tank on another network.</li> <li>Standby – Pump that runs only when other pumps have failed/broken down.</li> <li>Not-Applicable – Use this for parks.</li> <li>Pump Purpose</li> <li>What has the pump been installed for?</li> <li>Booster – Pump increases pressure.</li> <li>Main – Pump supplies reticulation.</li> <li>Sump – Pump drains a sump or tank.</li> <li>Well – Pump installed to supply from within a well.</li> <li>Cooling – Cooling water pump.</li> <li>Flushing – Flushing pump.</li> <li>Flushing – Flushing pump.</li> <li>Secondary – Secondary pump.</li> <li>Irrigation – Mainly used for parks</li> <li>Usage Class</li> <li>Standby – Pump that functions when another pump has broken down.</li> <li>Non Standby – Primary Pump.</li> </ol>	<ul> <li>6. Pump Source</li> <li>Where does the pump suck from?</li> <li>a. Well 1 – Well number 1.</li> <li>b. Well 2 – Well number 2.</li> <li>c. Well 3 – Well number 3.</li> <li>d. Well 4 – Well number 4.</li> <li>e. Well 5 – Well number 5.</li> <li>f. Well 6 – Well number 7.</li> <li>h. Well 9 – Well number 7.</li> <li>h. Well 9 – Well number 7.</li> <li>j. Tank – Water tank.</li> <li>k. Wetwell – A chamber designed to fill with liquids.</li> <li>l. Drywell – A chamber designed to remain dry.</li> <li>m. Multiple Wells – More than 1 well.</li> <li>7. Vertical Multistage</li> <li>Is the asset a vertical multistage pump?</li> <li>8. Submersible</li> <li>Is the asset a submersible pump?</li> <li>9. Impeller Diameter</li> <li>What is the impeller diameter in mm?</li> <li>10. Impeller Model Number</li> <li>What is the pulley diameter in mm?</li> <li>12. Discharge Diameter</li> <li>What is the pump discharge diameter in mm?</li> <li>13. KVA Rating – Specify pump motor's kVA Rating</li> <li>14. Maximum Lift in Meters (M)</li> <li>15. Manufacturer, Model Name, Part Number, Serial Number – Provide information on pump's name plate. This helps with warranty tracking, replacements, etc.</li> </ul>	<ul> <li>Pumps and pumpsets have the same function but differ in the design of the asset. Pumps are able to be separated from the associated motor and can be maintained or replaced independently. Pumpsets have the pump and motor as a single unit and cannot be easily separated.</li> <li>A plate fixed to the body of the pump should state the manufacturer, model number, discharge diameter and other information.</li> <li>Impeller diameter and model numbers may only be on literature provided with the pump. This literature may not be present on site making it difficult to complete these fields. Fields that cannot be completed due to lack of information should be left blank.</li> <li>Make sure only pumps owned and used for the Park are captured. Do not capture assets that are part of the council's waste water, or water supply network. Park owned pumps would usually be used for park irrigation systems.</li> </ul>					

CAT ColumnSAG Attribute DescriptionValid ValuesAType of Point FeatureP03BSpecific type of Irrigation SystemSelect from pick list: dom/irrigationSystemTypeCAsset Record Capture TypeSelect from pick list: dom/irrigationSystemTypeDDiffers from design (ves/no)Select from pick list: dom/irrigationSystemTypeEAsset Unique Identifierdata - Text (100 Characters)FCentre of Structure in Easting coordinatedata - Text (100 Characters)FCentre of Structure in Northing coordinatedata - Decimal Number (12 Chars, 2 Decimals)ILocation certainty - accuracy of dataSelect from pick list: dom/instaledByILocation certainty - accuracy of dataSelect from pick list: dom/instaledByILocation certainty - accuracy of dataSelect from pick list: dom/staledByKDate of "survey-start"data - Text (50 Characters)MFile name of photo - Photos must be supplieddata - Text (50 Characters)NSupply TypeSelect from pick list: dom/stale/disco/SystemControllerQDrip SystemSelect from pick list: dom/irrigationSystemControllerPControl SubtypeSelect from pick list: dom/irrigationSystemDripSystemQDrip SystemSelect from pick list: dom/irrigationSystemDripSystemRPopup SystemSelect from pick list: dom/irrigationSystemPopupSystemSNumber of Sprinklersdata - Number		Name Point Type	-	on System (Point Asset Inputs"	) 🔴	A device used to control the watering of a gree asset.
CAT       SAG Attribute Description       Valid Values         A       Type of Point Feature       P03         B       Specific type of Irrigation System       Select from pick list: domExistingOrNew       Differs from design (yes/no)       Select from pick list: domDiffers FromDesign       Control       Contro       Contro       Contro       Contro		T onit Type		Asset inputs		
Column       Set Statistication of the section       Values         A       Type of Point Feature       P03         B       Specific type of Irrigation System       Select from pick list: domExistingOrNew         D       Differs from design (yes/no)       Select from pick list: domExistingOrNew         E       Asset Unique Identifier       data - Text (100 Characters)         F       Centre of Structure in Northing coordinate       data - Decimal Number (12 Chars, 2 Decimals)         G       Centre of Structure in Northing coordinate       data - Decimal Number (12 Chars, 2 Decimals)         H       Date of commission       data - Date (ddmm/yyyy)         1       Location certainty - accuracy of data       Select from pick list: domInistalledBy         K       Date of commission       data - Text (30 Characters)         N       Supply Type       Select from pick list: domSystemController         O       Controller       Select from pick list: domInigationSystemController         P       Controller       Select from pick list: domInigationSystemController         P       Controller       Select from pick list: domInigationSystemPopupSystem         S       Number of Sprinklers       Select from pick list: domInigationSystemPopupSystem         S       Number of Sprinklers       Select from pick list: domInigationSystem	Ī					
B       Specific type of Irrigation System         B       Specific type of Irrigation System         C       Asset Record Capture Type         D       Differs from design (yes/no)         E       Asset Unique Identifier         data - Text (Too Characters)       Select from pick list: domLiftersFromDesign         F       Centre of Structure in Rasting coordinate       data - Decimal Number (12 Chars, 2 Decimals)         G       Centre of Structure in Northing coordinate       data - Decimal Number (12 Chars, 2 Decimals)         H       Date of commission       data - Date (dd/mm/yyyy)         I       Location certainty - accuracy of data       Select from pick list: domLicationCertainty         J       Name of nain contractor who installed asset       Select from pick list: domSupplyType       Select from pick list: domSupplyType         Q       Drip System       Select from pick list: domLicationSystemController       Select from pick list: domLirigationSystemController         N       Supply Type       Select from pick list: domLirigationSystemPopupSystem       Select from pick list: domLirigationSystemPopupSystem         Q       Drip System       Select from pick list: domLirigationSystemPopupSystem         S       Number of Sprinklers       data - Number		-	SAG Attribute Description		Valid Values	ХҮ
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D       Differs from design (yes/no)       Select from pick list: domDiffersFromDesign         E       Asset Unique Identifier       data - Text (100 Characters)         F       Centre of Structure in Easting coordinate       data - Decimal Number (12 Chars, 2 Decimals)         G       Centre of Structure in Northing coordinate       data - Decimal Number (12 Chars, 2 Decimals)         H       Date of commission       data - Decimal Number (12 Chars, 2 Decimals)         I       Location certainty - accuracy of data       Select from pick list: domLocationCertainty         J       Name of main contractor who installed asset       Select from pick list: domInstalledBy         L       Long Description - explanation, further details, or location within park       data - Text (50 Characters)         N       Supply Type       Select from pick list: domInrigationSystemController         O       Controller       Select from pick list: domInrigationSystemController         P       Controller       Select from pick list: domInrigationSystem         Number of Sprinklers       data - Number         Additional Information       *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT		С	Asset Record Capture Type		Select from pick list: domExistingOrNew	Kitter and a state of the state
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J       Name of main contractor who installed asset       Select from pick list: domInstalledBy         K       Date of "survey-start"       data - Date (dd/mm/yyyy)         L       Long Description - explanation, further details, or location within park       data - Text (70 Characters)         M       File name of photo - Photos must be supplied       data - Text (70 Characters)         N       Supply Type       Select from pick list: domInrigationSystemController         P       Control Subtype       Select from pick list: domInrigationSystemControllerSubtype         Q       Drip System       Select from pick list: domInrigationSystemControllerSubtype         S       Number of Sprinklers       Select from pick list: domInrigationSystemPopupSystem         Additional Information       *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT		Н	Date of commission		data - Date (dd/mm/yyyy)	
O       Outcome       Defect from pick list:       Outcome       Instance		1			Select from pick list: domLocationCertainty	
O       Outcome       Defect from pick list:       Outcome       Instance		J	Name of main contractor who installed as	set	elect from pick list: domInstalledBy	
O       Outcome       Defect from pick list:       Outcome       Instance		К	Date of "survey-start"		data - Date (dd/mm/yyyy)	
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0       Control Subtype       Select from pick list: dom/rrigationSystemControllerSubtype         Q       Drip System       Select from pick list: dom/rrigationSystemControllerSubtype         R       Popup System       Select from pick list: dom/rrigationSystemPopupSystem         S       Number of Sprinklers       data - Number         Additional Information       *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT       Only the irrigation system controller boxes and sho not be captured separately		Ν				
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R       Popup System       Select from pick list: dom/rrigationSystemPopupSystem         S       Number of Sprinklers       data - Number         Additional Information       Additional Information       Calssification of the controller boxes and sho not be captured separately		-				
S       Number of Sprinklers       data - Number         Only the irrigation system controllers are to captured. Sprinkler heads are included in the classification of the controller boxes and sho not be captured separately         Additional Information         *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT					, I	Irrinet system in wall cabinet.
Additional Information       Only the irrigation system controllers are to captured. Sprinkler heads are included in the classification of the controller boxes and sho not be captured separately         *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT						_
Additional Information       classification of the controller boxes and sho         *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT       not be captured separately		5				Only the irrigation system controllers are to I
Additional Information       classification of the controller boxes and sho         *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT       not be captured separately						captured. Sprinkler heads are included in th
Additional Information not be captured separately *All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT						
*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT		A		classification of the controller boxes and shoul		
						not be captured separately
See Appendix C.1.2 for a CAT example.				d the value "LEAVE E	3LANK" as default in CAT	
		See Appe	ndix C.1.2 for a CAT example.			

Irrigation Sys	stem (Continued)
CLASSIFICATION INFORMATION	
<ol> <li>System Type</li> <li>What is the green asset the system is designed to water?</li> <li>a. Amenity Turf – The system irrigates amenity turf.</li> <li>b. Plantings – The system irrigates plants.</li> <li>Sports Turf – The system irrigates sports turf</li> <li>Supply Type</li> <li>Water source the system utilises</li> <li>a. City Mains – Irrigation water comes from the city mains with no assistance.</li> <li>b. City Mains Pump Assisted – Irrigation water comes from the city mains with a pump to increase pressure.</li> <li>c. Well Pumped – Irrigation water is supplied from a well in the park.</li> <li>Controller</li> <li>Type of mechanism used to manage when and how green assets are hydrated?</li> <li>a. Irrinet – An electrical, automated controller with radio communication allowing programming from CCC offices.</li> <li>b. Manual – Valves must be opened and closed by hand.</li> <li>c. Stand Alone – An electrical, automated controller that must be programmed on-site.</li> <li>4. Controller Sub Type</li> <li>For systems on the Irrinet network; what is fitted at the park?</li> <li>a. Impact</li> <li>b. Irrinet</li> <li>c. Scorpio</li> <li>d. Piccolo</li> <li>e. Ace</li> <li>5. Drip System</li> <li>Are drip lines used to irrigate?</li> </ol>	<ul> <li>6. Pop-Up System Does the irrigation system use pop-up sprinklers? </li> <li>7. Number of Sprinklers How many sprinkler heads are fitted to the irrigation system? ADDITIONAL COMMENTS Only the irrigation system controllers are to be captured. Sprinkler heads are included in the classification of the controller boxes and should not be captured separately.</li></ul>

	Name		flow Preventer (Point)	A device to stop the return flow of a liquid (usually
h	Point Type	P04 "Point Asset	t Inputs"	water) to the pipe network from which it came.
				Centre of structure
	CAT Column	SAG Attribute Description	Valid Values	ХҮ
Ľ	А	Type of Point Feature	P04	
nte	В	Specific type of Backflow Preventer - describ preventer used for this asset	be the break and Select from pick list: domParksBackflowPreven	erType
revente	С	Asset Record Capture Type	Select from pick list: domExistingOrNew	
	D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	
	E	Asset Unique Identifier	data - Text (100 Characters)	
<u></u> З	F	Centre of Structure in Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	G	Centre of Structure in Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	Н	Date of commission	data - Date (dd/mm/yyyy)	
	I	Location certainty - accuracy of data	Select from pick list: domLocationCertainty	
	J	Name of main contractor who installed asset	Select from pick domParksBackflowPreventerInstallationCompa	list:
g	К	Date of "survey-start"	data - Date (dd/mm/yyyy)	
Ω	L	Long Description - explanation, further details, or I	location within park data - Text (70 Characters)	Small diameter (15-50mm) RPZ (reduced pressure
S	М	File name of photo - Photos must be supplied	data - Text (50 Characters)	backflow preventer)
Ŷ	N	Backflow Internal Diameter in millimeters (mm)	data - Decimal Number (4 Chars, 0 Decimals)	
Parks	0	IQP (Independent Qualified Person) Number of perturbed the device/system	· · · · · · · · · · · · · · · · · · ·	
P04: P	Р	Tester - Who tested the device?	data - Text (30 Characters)	
	Q	Manufacturer	Select from pick domParksBackflowPreventerManufacturer	list:
0	R	Model Name	data - Text (50 Characters)	
ц,	S	Part Number	data - Text (50 Characters)	
	Т	Serial Number	data - Text (50 Characters)	
	Additional	Information		Small diameter (15-50mm) double check valve
		columns must be left "blank" or hold the ndix C.1.2 for a CAT example.	value "LEAVE BLANK" as default in CAT	

	Parks Backflow Preventer (Continued)	
CLASSIFICATION INFORMATION		ADDITIONAL PHOTOS
<ol> <li>Backflow Internal Diameter</li> <li>What is the inside diameter of the backflow preventer? Size information should be on a plate attached to the body.</li> <li>Backflow Type         <ul> <li>Air Gap Separator – Registered air gap. Unobstructed vertical space between the water outlet and the flood level.</li> <li>Atmospheric Vacuum Breaker – Opens to atmosphere when the inlet pressure drops below the outlet pressure. Not for use when the inlet will have continual pressure.</li> <li>Barometric Loop – Vertical structure over 10m tall either with two pipes joined at the top or one pipe inside another.</li> <li>Double Check Valve – Device consisting of two check valves in series. Ports and small valves are installed on the side to allow testing.</li> <li>Dual Check Device – Device consisting of two check valves in series. Not testable, no ports on sides.</li> <li>Hose Bibb – A small atmospheric vacuum breaker fitted to a hose tap. Usually for domestic use only.</li> <li>Pressure Vacuum Breaker – Similar to Atmospheric Vacuum Breaker but can be used in continuous pressure applications.</li> <li>Reduced Pressure Zone – Highest level of protection and most commonly used. A double check valve with a drain to the atmosphere. Always installed above ground.</li> <li>Swing Check Valve – Standard one way valve. Not commonly used for backflow prevention as they are easily jammed open.</li> </ul> </li> </ol>		<image/>

	Name Line Type		Parks Cable (Line)		Cables are formed by a conductor surrounded l a shield.
	Line Type		P05 "Line Asset Inputs "		ХҮ
			FUS Line Asset inputs		
	CAT	SAG Attribute Description		Valid Values	
	Column				
	A	Type of Line Feature		P05	
	В	Leave Blank		Leave Blank	
	C	Asset Record Capture Typ		Select from pick list: domExistingOrNew Select from pick list: domDiffersFromDesign	
	E	Differs from design (yes/no Asset Unique Identifier	)	data - Text (100 Characters)	
Φ	F	Line Vertex Easting coordin	nate	data - Decimal Number (12 Chars, 2 Decimals)	
	G	Line Vertex Easting coord		data - Decimal Number (12 Chars, 2 Decimals) data - Decimal Number (12 Chars, 2 Decimals)	
a	Н	Order of vertex / point alon		data - Number	Power Cables
Cable		Date of commission	y Ento	data - Date (dd/mm/yyyy)	
()	J	Location certainty - accurate	cy of data	Select from pick list: domLocationCertainty	
ž	ĸ	Name of main contractor w		Select from pick list: domInstalledBy	—
Parks	L	Date of "survey-start"		data - Date (dd/mm/yyyy)	
	М	Long Description - explanat	ion, further details, or location within park	data - Text (70 Characters)	
	Ν	File name of photo - Photo		data - Text (50 Characters)	
P05:	0	Cable Purpose		Select from pick list: domParksCablePurpose	
0	Р	Cable Length in metres (m	)	data - Decimal Number (6 Chars, 2 Decimals)	
Δ	Q	Spec Sheet		data - Text (30 Characters)	
		-		·	
					Signal Cable
	Additional	Information			
		columns must be left "b			
:		ndix C.1.2 for a CAT ex			
		er number of vertex alo			
	0010.01				



	Name Point Type	Parks Electrical System P06 "Point Asset Inputs"		An electric power system is a network of electrica components deployed to supply, transfer, store, an use electric power.
	САТ	SAG Attribute Description	Valid Values	Centre of structure
	Column		Valid Values	ХҮ
	А	Type of Point Feature	P06	
	В	Electric System Type	Select from pick list: domElectricalSystemType	
	C	Asset Record Capture Type	Select from pick list: domExistingOrNew	
	D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	
	E	Asset Unique Identifier	data - Text (100 Characters)	
	F	Centre of Structure in Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	G	Centre of Structure in Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
•	Н	Date of commission	data - Date (dd/mm/yyyy)	
	1	Location certainty - accuracy of data	Select from pick list: domLocationCertainty	leese
	J	Name of main contractor who installed asset	Select from pick list: domInstalledBy	
	К	Date of "survey-start"	data - Date (dd/mm/yyyy)	
	L	Long Description - explanation, further details, or location within pa		
	М	File name of photo - Photos must be supplied	data - Text (50 Characters)	
	Ν	Spec Sheet - File name of data sheet.	data - Text (30 Characters)	
	0	Inside Cabinet?	Select from pick list: domElectricalSystemInsideCabinet	
	Р	Construction Material	Select from pick list: domElectricalSystemConstruction	
	Q	Main Switch Amps in Ampere (A).	data - Decimal Number (6 Chars, 2 Decimals)	
	R	Incoming Rate Current in Ampere (A).	data - Decimal Number (6 Chars, 2 Decimals)	
	S	Installation date of the asset	data - Date (dd/mm/yyyy)	
	Т	Warranty Start Date	data - Date (dd/mm/yyyy)	
	U	Warranty end Date	data - Date (dd/mm/yyyy)	
	V	Height in millimetres (mm).	data - Decimal Number (5 Chars, 0 Decimals)	
	W	Length in millimetres (mm).	data - Decimal Number (5 Chars, 0 Decimals)	
	Х	Depth data in millimetres (mm).	data - Decimal Number (5 Chars, 0 Decimals)	
	Y	External Coating Type Finish	data - Text (30 Characters)	
	Z	Thickness in millimetres (mm).	data - Decimal Number (4 Chars, 1 Decimals)	
	AA	Ingress Protection	data - Text (3 Characters)	
	AB	Form of Separation	data - Text (2 Characters)	
	AC	Type Tested (Yes, No, Partial)	Select from pick list: domElectricalSystemTypeTested	
	AD	Fault Rating in kA	data - Decimal Number (4 Chars, 0 Decimals)	
		Information		
	*All other	columns must be left "blank" or hold the value "LEAV	E BLANK" as default in CAT	
	See Appe	ndix C.1.2 for a CAT example.		

CCC As-built requirement Parks Electrical					
	- , -		,		
	Inc	gress Protec	tion Codes		
1. Electrical System Type		•			
Specify type of Electrical System.		INGF	RESS PROTECTION CODE	(for Electrical E	quipments)
a. Control Panel	-	e			
<ul> <li>Distribution Board</li> </ul>		rel Object size protect	evel of protection that the enclosure provide eted against Effectiv	s against access to nazardous p e against	arts (e.g., electrical conductors,
Electric Vehicle Charger	0		No protection against contact	· ·	
d. Main Cabinet	11.	>50 mm	Any large surface of the body, no protection against deliberat		
e. Motor Control Centre	2	>12.5 mm	Fingers or similar objects		
. Power Bollard	3	>2.5 mm	Tools, thick wires, etc.		
g. Power Supply Box	4		Most wires, screws, etc.	revented, but it must not enter	r
n. Switchboard			in sufficient quantity to interfe	re with the satisfactory	
Not Applicable			operation of the equipment; co contact (dust proof)	omplete protection against	
Not in List	6	Dust tight	No ingress of dust; complete p tight)	rotection against contact (dust	
. Unknown	The s	econd digit indicates the level	of protection that the enclosure provides against harmfu	ingress of water.[8]	
Chao Chaot		I Protected against	Testing for	Details	
2. Spec Sheet	1	Not protected Dripping water	<ul> <li>Dripping water (vertically falling drops) shall have no harmful effect.</li> </ul>	- Test duration: 10 minutes	
Provide data sheet / drawing name that provides more information about the cabling / electrical diagram.				Water equivalent to 1mm rainfall per minute	
	2	Dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15 from i		
3. External Coating Finish Type		Spraying water	normal position. Water falling as a spray at any angle up to 60° from the	Water equivalent to 3 mm rainfall per minute Test duration: 5 minutes	
Specify as per http://www.ralcolor.com/		Spraying water	vertical shall have no harmful effect.	Water volume: 0.7 litres per	
				minute Pressure: 80-100 kPa	
I. Ingress Protection	4	Splashing of water	Water splashing against the enclosure from any	Test duration: 5 minutes	
Form of Protection specified as per standard 2 digit IP Code. Ref.			direction shall have no harmful effect.	Water volume: 10 litres per minute	
ngress Protection tab.				Pressure: 80-100 kPa	
5. Form of Separation	5	Waterjets	Water projected by a nozzle (6.3 mm) against enclosu from any direction shall have no harmful effects.	e Test duration: at least 15 minutes	
Form of Separation. As per				Water volume: 12.5 litres per minute	
Annex D of Standard BS EN 60439				Pressure: 30 kPa at distance of 3 m	
	6	Powerful water jets	Water projected in powerful jets (12.5 mm nozzle) again the enclosure from any direction shall have no harmfu		
6. Type Tested?			the enclosure from any direction shall have no harmfu effects.	Water volume: 100 litres per minute	
imited list of values. Specify Yes / No or Partial				Pressure: 100 kPa at distance of 3 m	
Coult Dating	7	Immersion up to 1 m	Ingress of water in harmful quantity shall not be possib when the enclosure is immersed in water under define	t l	
7. Fault Rating			conditions of pressure and time (up to 1m of submersion).	Immersion at depth of at least 1 m measured at bottom of device, and at least 15 cm measured at	
Specify Fault Rating in kA	8	Immersion beyond 1 m	The equipment is suitable for continuous immersion in	top of device Test duration: continuous	
			water under conditions which shall be specified by the manufacturer. Normally, this will mean that the	immersion in water	
	11		equipment is hermetically sealed. However, with certa types of equipment, it can mean that water can enter b		