

CCC As-built requirements for Land Improvements V3.0

Survey As-built Guidelines (SAG) Appendix N

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Name **Boardwalk (Outline)**
Polygon Type N01 "Polygon Asset Inputs "

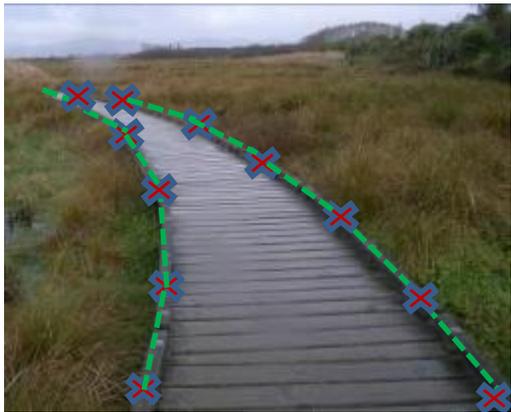


A walkway that is elevated above the surrounding ground level.

Outline of structure
X Y

N01: Boardwalk

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N01
B	Boardwalk Type	Select from pick list: domBoardwalkType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Construction Material	Select from pick list: domBoardwalkConstruction
P	Non Slip Surface Type	Select from pick list: domNonSlipSurfaceType
Q	Handrail	Select from pick list: domHandrail
R	Handrail Material	Select from pick list: domBoardwalkHandrailConstruction
S	Length in meters (m)	data - Decimal Number (6 Chars, 2 Decimals)
T	Width in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
U	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)



Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Col H: enter number of vertex along outline

All corner points along outline to be surveyed.
 Create one CAT row per surveyed point.

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Boardwalk (Continued)**CLASSIFICATION INFORMATION****1. Construction Material**

See the definitions section for descriptions of the different construction materials. The majority of boardwalks will be wooden.

2. Non Slip Surface Type

Material applied to the surface to increase friction

- a. Chicken Wire** – Wire mesh covers the surface of the boardwalk to provide grip.
- b. Plastic Geotech Products** – As per chicken wire but with a plastic mesh.
- c. Sand Epoxy Blend** – The boardwalk surface has been painted with a mixture of sand and epoxy resin.
- d. Sprayed Tar** – Bituminous coating on the boardwalk surface.
- e. Textured Concrete** – Concrete with a pattern impressed into the surface for grip.
- f. None** – No non slip surface exists.

3. Handrail

Does the boardwalk have a bar alongside that can be used by a person for support?

Is a handrail fitted? Handrails on boardwalks are not common, but when fitted will be approximately 1m high. Handrails do not include kick rails.

4. Handrail Material

If a handrail is fitted what is it made from? See the definitions section for a full list of construction materials.

5. Length

End to end distance along the surface of the boardwalk. All lengths should be in metres.

6. Width

Distance across the deck accessible for passage. Width is measured as the width available to be walked on i.e. inside any rails, edges, etc. Widths should all be in metres.

ADDITIONAL PHOTOS

Boardwalk constructed of wood. This boardwalk has no handrail but does have a plastic geotech product non-slip surface.

7. Boardwalk Type

- a. Elevated** – Elevated walking structure
- b. Sand Ladder** – Wooden structure enabling beach access and minimizing erosion

ADDITIONAL COMMENTS

Boardwalks and bridges can be extremely similar. The key differences are:

- a.** Bridges cross discrete obstacles such as a gap or stream. The primary function of a bridge is to allow passage.
- b.** Boardwalks cross areas of ground that could be crossed by foot but multiple crossings would result in damage. The primary function of a boardwalk is to protect the ground.

In essence a boardwalk is an artificial track surface.

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N02: Boat Ramp

Name **Boat Ramp (Outline)** 

Polygon Type N02 "Polygon Asset Inputs "

Exists for the purpose of allowing boats and other watercraft to enter the water.

Outline of structure
X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N02
B	Specific type of Boat Ramp	Select from pick list: domBoatRampType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Construction Material	Select from pick list: domBoatRampConstruction
P	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)
Q	Environmental Exposure	Select from pick list: domEnvironmentalExposure
R	Length in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
S	Width in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
T	Safety Barrier	Select from pick list: domSafetyBarrier



Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Col H: enter number of vertex along outline

All corner points along outline to be surveyed.
Create one CAT row per surveyed point.

ADDITIONAL COMMENTS

The canoe ramp subtype is no longer used. Canoe ramps will now be classified as jetties.

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Boat Ramp (Continued)**CLASSIFICATION INFORMATION****1. Boat Ramp Type**

- a. Boat** – The ramp is designed for launching a boat with a vehicle.
b. Dinghy - Dinghy ramps are designed for manual launching of small craft.

2. Construction Material

The most common construction material is concrete. See the definitions section for a full list of construction materials.

3. Fall Height

Measurement of the height it is possible for a person to fall from the structure. For a boat ramp this includes falls onto or off the sides of the ramp. See definitions section for more details.

4. Environmental Exposure

Where does the lower end of the ramp rest?

- a. Land** – Both ends of the ramp will be out of the water irrespective of the tide.
b. Marine – The lower end of the ramp will be in salt water irrespective of the tide.
c. River – The lower end of the ramp will be in fresh water irrespective of the tide.
d. Tidal – The lower end of the ramp will be out of the water at low tide but in the water at high tide.

5. Length

Distance along the angled surface of the ramp. Lengths should all be in metres.

6. Width

Distance along the horizontal surface of the ramp. Widths should all be in metres.

7. Safety Barriers

Are there safety barriers installed beside the ramp?

ADDITIONAL PHOTOS

Boat Ramps



Lack of Vehicle Access makes this a Dinghy Ramp

CCC As-built requirements for Land Improvements V3.0

N03: Bridge

Name	Bridge (Outline)
Polygon Type	N03 "Polygon Asset Inputs "



A structure spanning and providing passage over a gap or barrier.

Outline of structure

X Y



Deck Support Beam Abutment

This is a footbridge with concrete abutments, wooden supports, wooden beams and a wooden deck. Abutments are difficult to see in this photo

ADDITIONAL COMMENTS

When taking asset photos of bridges we would like a photo of the underside showing abutment, support and beam construction as well as a photo of the deck/topsides..

Distinguishing between a bridge and a boardwalk can be difficult. Bridges generally are installed to allow crossing of obstacles or gaps while boardwalks are installed to protect natural surfaces.

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N03
B	Specific type of Bridge (Traffic type)	Select from pick list: domBridgeTrafficType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Beam Construction Material	Select from pick list: domBridgeBeamConstruction
P	Abutment Construction Material	Select from pick list: domBridgeAbutmentConstruction
Q	Support Construction Material	Select from pick list: domBridgeSupportConstruction
R	Deck Wearing Surface	Select from pick list: domBridgeDeckWearingSurface
S	Number of Spans - spans = abutments + supports - 1	data - Number
T	Design Loading	Select from pick list: domDesignLoading
U	Meets Accessibility Standard?	Select from pick list: domBridgeMeetsAccessibilityStandard
V	Length in meters (m)	data - Decimal Number (6 Chars, 2 Decimals)
W	Width in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
X	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)
Y	Safety Barrier	Select from pick list: domSafetyBarrier
Z	Artwork - has it an aspect of creative, aesthetic, or decorative beauty?	Select from pick list: domArtwork

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Col H: enter number of vertex along outline

All corner points along outline to be surveyed.
Create one CAT row per surveyed point.

Bridge (Continued)

CLASSIFICATION INFORMATION

1. Bridge Traffic Type

- a. **Foot** – Bridge suitable for pedestrians and pushbikes.
- b. **Vehicular** – Bridge able to carry vehicular traffic.

2. Beam Construction Material

Beams are the horizontal structural members supporting the deck. The most common beam construction materials are concrete, steel and wood. See the definitions section for a full list of construction materials.

3. Abutment Construction Material

Abutments are structures built into the banks at each end of a bridge and support the beams. The majority of abutments are concrete. See the definitions section for a full list of construction materials. Enter "NONE" if there are no abutments.

4. Support Construction Material

Supports are free-standing piers supporting the beams. The most common beam construction materials are concrete, steel and wood. See the definitions section for a full list of construction materials. Enter "NONE" if there are no supports.

5. Deck Wearing Surface

The deck material traffic crosses. Commonly the deck wearing surface will be wood or asphalt. See the definitions section for a full list of construction materials.

6. Number of Spans

Spans = Abutments + Supports – 1
 Supports may be in pairs, each pair is only counted as one. See the photos for examples.

7. Fall Height

Measurement of the height it is possible for a person to fall from the structure. See definitions section for more details.

8. Safety Barriers

Are there safety barriers installed on the bridge?

9. Length

Distance along the deck from one bank to the other. Lengths should all be in metres.

10. Width

Distance across the deck accessible for passage. Width is measured as the width available to be walked on i.e. inside any rails, edges, etc. Widths should all be in metres.

ADDITIONAL PHOTOS



Abutment Beam Deck

Bridge with parts labelled. This is a footbridge with concrete abutments, concrete beams, concrete deck and no supports.

CCC As-built requirements for Land Improvements V3.0

Name **Cattle Stop (Point)** 

Point Type **N04** "Point Asset Inputs"

A grid of bars over a hole or hollow. A cattle stop will impede livestock while allowing vehicles to pass unhindered.

Centre of structure
X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Point Feature	N04
B	Leave Blank	Leave Blank
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)
H	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 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 (50 Characters)
N	Construction Material	Select from pick list: domCattleStopConstruction
O	Length in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
P	Width in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)



Steel Cattle Stop.

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT
See Appendix C.1.2 for a CAT example.

N04: Cattle Stop

Cattle Stop (Continued)

CLASSIFICATION INFORMATION

1. Construction Material

The most common construction materials are concrete and steel. See the definitions section for a full list of construction materials.

2. Length

Distance end to end perpendicular to the line of the fence. Lengths should all be in metres.

3. Width

Distance side to side parallel to the line of the fence. Widths should all be in metres.

ADDITIONAL PHOTOS



Concrete Cattle Stop. This cattle stop will be wider than it is long.

CCC As-built requirements for Land Improvements V3.0

Name
Polygon Type

Jetty (Outline)
N05 "Polygon Asset Inputs "



A structure extending over water used to secure and provide access to boats.

Outline of structure

X Y



Wooden Jetty on Riverbank

N05: Jetty

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N05
B	Specific type of Jetty	Select from pick list: domJettyType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Construction Material	Select from pick list: domJettyConstruction
P	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)
Q	Environmental Exposure	Select from pick list: domEnvironmentalExposure
R	Design Loading	Select from pick list: domDesignLoading
S	Length in meters (m)	data - Decimal Number (5 Chars, 2 Decimals)
T	Width in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
U	Safety Barrier	Select from pick list: domSafetyBarrier
V	Steps	Select from pick list: domJettySteps
W	Mooring/Launch Component	Select from pick list: domJettyMooringLaunch
X	Supported by Pontoon	Select from pick list: domJettyPontoon

Additional Information

Jetty - a structure that projects from the land and into water and used to secure and provide access to boats.
Pier - a long structure with a platform built out over water, and used for getting in or out of large boats or promenade where people can walk.
Wharf - a structure built on the shore of or projecting into a harbour, so that vessels may be moored alongside to load or unload.
Mooring - a permanent anchor mooring to which a vessel may be secured.
Recreational Raft - anchored out into the water and used for recreational use.
 Col H: enter number of vertex along outline.

All corner points along outline to be surveyed.
 Create one CAT row per surveyed

CCC As-built requirements for Land Improvements V3.0

Jetty (Continued)

CLASSIFICATION INFORMATION

1. Jetty Type

- a. Jetty – applies to Parks and Foreshore
- b. Mooring – applies to Parks and Foreshore
- c. Pier – applies to Foreshore only
- d. Wharf – applies to Foreshore only
- e. Recreational Raft - applies to Foreshore only.

2. Construction Material

The most common construction materials are concrete and wood. See the definitions section for a full list of construction materials.

3. Safety Barriers

Are safety barriers fitted to the jetty?
Handrails will be 0.9-1.1m high, kickrails approximately 150mm high are not classified as safety barriers.

4. Fall Height

Measurement of the height it is possible for a person to fall from the structure. See definitions section for more details.

5. Pontoon Y/N –

Is it supported by pontoons?

6. Environmental Exposure

Where does the lower end of the ramp rest?

- a. Land – The jetty will remain out of the water irrespective of the tide.
- b. Marine – Jetty remains in salt water irrespective of the tide.
- c. River – Jetty remains in fresh water irrespective of the tide.
- d. Tidal – The jetty is out of the water at low tide but in the water at high tide.

7. Length

Distance from shore to the other end of the structure. Lengths should all be in metres.

8. Width

Distance across the widest part of the jetty perpendicular to the length. Widths should all be in metres.

9. Steps

Are there steps leading down from the jetty to the water or lower level?

10. Mooring or Launch component

Is there a mooring or launch component to the jetty?

ADDITIONAL COMMENTS

Viewing platforms and jetties can be very similar.

- a. Structures on dry land are viewing platforms.
- b. Structures in the water but not allowing access to boats due to height, hand rails, etc. are viewing platforms.
- c. All other platforms built on piles in the water are jetties



Solid Concrete Jetty



Pontoon Recreational Raft used for recreational use.



Floating Pontoon Jetty

CCC As-built requirements for Land Improvements V3.0

Name
Line Type

Fence (Line)

N06 "Line Asset Inputs "



A structure constructed as an enclosure, barrier or boundary.

X Y

N06: Fence

CAT Column	SAG Attribute Description	Valid Values
A	Type of Line Feature	N06
B	Specific type of Fence	Select from pick list: domFenceType
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	Line Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Line Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along Line	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Fence Function	Select from pick list: domFenceFunction
P	Fence Construction Material	Select from pick list: domFenceConstruction
Q	Post Construction Material	Select from pick list: domFencePostConstruction
R	Surface Finish	Select from pick list: domFenceSurfaceFinish
S	Fence Location	Select from pick list: domFenceLocation
T	Electrified?	Select from pick list: domFenceElectrified
U	Height in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
V	Artwork - has it an aspect of creative, aesthetic, or decorative beauty?	Select from pick list: domArtwork



Paling fence.

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Col H: enter number of vertex along line

CCC As-built requirements for Land Improvements V3.0

Fence (Continued)**CLASSIFICATION INFORMATION****1. Fence Type**

- a. Deer** – Tall (2.0m) fence constructed of posts and mesh.
- b. Mesh** – Standard height (1.0m) fence of posts and wire mesh.
- c. Open View** – Fence constructed to prevent physical access but allow unimpeded vision. Typically more ornate than mesh.
- d. Paling** – Vertical wooden slats with no gaps between them. Often rough sawn.
- e. Picket** – Finished vertical wooden slats with gaps between.
- f. Post & Battern** – As per post and wire except vertical batterns (50x50mm approx.) are installed on the wires between posts.
- g. Post & Cable** – Vehicle barrier. Posts separated by lengths of wire rope.
- h. Post & Chain** – Vehicle barrier. Posts separated by lengths of chain.
- i. Post & Rail** - Posts connected with a single solid pole. Rail height can vary.
- j. Posts** – Single posts arranged to allow access by some methods but not others.
- k. Post & Wire** – Standard height wooden posts separated by lengths of wire. Normally 5 separate strands of wire.
- l. Solid** – Any fence that cannot be seen through and fits no other group.
- m. Trellis** – Posts separated by sections of trellis. May include shadecloth.
- n. Wall** – Solidly constructed fence of brick, stone or concrete.
- o. Warratah** – As per post and wire except the posts are Y cross-section steel.

CLASSIFICATION INFORMATION (Continued)**2. Fence Function - purpose of fencing**

- a. boundary** – Separates two properties.
- b. rock protection** – Prevents rockfalls damaging properties downhill of the fence.
- c. security** – Fence designed to prevent human access.
- d. stock** – Fence constructed to retain livestock.

3. Fence Construction Material

See definitions section for a list of materials.

4. Post Construction Material - main substance from which the supports which keep the fence up are made of.

See definitions section for a list of materials.

5. Surface Finish

See the definitions section for a list of surface finishes.

6. Fence Location

- a. boundary** – fence separates two properties
- b. internal** – Fence is within a property.

7. Electrified

Does the fence carry an electric charge?

8. Height

Distance from top of fence to the ground. Height is measured in metres.

Fence (Continued)

ADDITIONAL COMMENTS

When a small wall surrounds a garden bed or playground under surface it is not a fence or nib wall. See the garden and playground under surface sections for more details on how to record these assets.

The road frontage of a park is also a boundary and therefore any fences on the road frontage should be considered boundary fences.

Boundary fences along the perimeter of a park need only be captured and classified as a single fence, it is not necessary to break up the fence into fences for individual properties. The fence type, height, fence construction material and post construction material fields should describe the majority of the fence. The owner field can be left blank.

ADDITIONAL PHOTOS



Post and Cable Fence



Posts Fence



Open View Fence



Picket Fence



Post and Battern Fence

CCC As-built requirements for Land Improvements V3.0

N07: Retaining Wall

Name
Line Type

Retaining Wall (Line)



N07 "Line Asset Inputs "

A structure built to support a bank.

X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Line Feature	N07
B	Design Purpose	Select from pick list: domRetainingWallDesignPurpose
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	Line Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Line Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along Line	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Construction Material	Select from pick list: domRetainingWallConstruction
P	Height in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
Q	Thickness in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)
R	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)
S	Safety Barrier	Select from pick list: domSafetyBarrier
T	Construction Type	Select from pick list: domRetainingWallConstructionType



Landscaping, Post & Panel



Terraced seawall, non-structural facing

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT
See Appendix C.1.2 for a CAT example.
Col G: enter number of vertex along line

Retaining Wall (Continued)

CLASSIFICATION INFORMATION

1. Design Purpose

Retaining wall's design was based on the wall's main purpose

- a. Breakwater
- b. Landscaping
- c. Seawall
- d. Terrace

2. Construction Material

See the definitions section for a full list of construction materials. Retaining walls typically are constructed from concrete, stone or wood.

2. Length

Largest distance end to end of the asset. Lengths should all be in metres.

3. Height

Largest distance top to bottom of the exposed face of the wall. Heights should all be in metres.

4. Thickness

Distance from the exposed face to the buried face of the wall. Thicknesses should all be in metres.

5. Fall Height

Measurement of the height it is possible for a person to fall from the structure. See definitions section for more details.

6. Safety Barriers

Is a safety barrier installed along the top of the wall?

7. Construction Style

See the definitions section for a full list of construction materials.

ADDITIONAL COMMENTS

When a small wall surrounds a garden bed or playground under surface it is not a retaining wall. See the garden and playground under surface sections for more details on how to record these assets.

Headwalls at culvert/pipe inlet and outlets are not retaining walls.

ADDITIONAL PHOTOS



Culvert Headwall. This is not a retaining wall.



Concrete Retaining wall. This is privately owned.



Council owned stone retaining wall.

N08: Safety Barrier	Name Line Type		Safety Barrier (Line) 	A structure built to support a bank. X Y																																																													
			N08 "Line Asset Inputs "																																																														
	<table border="1"> <thead> <tr> <th>CAT Column</th> <th>SAG Attribute Description</th> <th>Valid Values</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Type of Line Feature</td> <td>N08</td> </tr> <tr> <td>B</td> <td>Specific type of Barrier</td> <td>Select from pick list: domSafetyBarrierType</td> </tr> <tr> <td>C</td> <td>Asset Record Capture Type</td> <td>Select from pick list: domExistingOrNew</td> </tr> <tr> <td>D</td> <td>Differs from design (yes/no)</td> <td>Select from pick list: domDiffersFromDesign</td> </tr> <tr> <td>E</td> <td>Asset Unique Identifier</td> <td>data - Text (100 Characters)</td> </tr> <tr> <td>F</td> <td>Line Vertex Easting coordinate</td> <td>data - Decimal Number (12 Chars, 2 Decimals)</td> </tr> <tr> <td>G</td> <td>Line Vertex Northing coordinate</td> <td>data - Decimal Number (12 Chars, 2 Decimals)</td> </tr> <tr> <td>H</td> <td>Order of vertex / point along Line</td> <td>data - Number</td> </tr> <tr> <td>I</td> <td>Date of commission</td> <td>data - Date (dd/mm/yyyy)</td> </tr> <tr> <td>J</td> <td>Location certainty - accuracy of data</td> <td>Select from pick list: domLocationCertainty</td> </tr> <tr> <td>K</td> <td>Name of main contractor who installed asset</td> <td>Select from pick list: domInstalledBy</td> </tr> <tr> <td>L</td> <td>Date of "survey-start"</td> <td>data - Date (dd/mm/yyyy)</td> </tr> <tr> <td>M</td> <td>Long Description - explanation, further details, or location within park</td> <td>data - Text (70 Characters)</td> </tr> <tr> <td>N</td> <td>File name of photo - Photos must be supplied</td> <td>data - Text (50 Characters)</td> </tr> <tr> <td>O</td> <td>Construction Material</td> <td>Select from pick list: domSafetyBarrierConstruction</td> </tr> <tr> <td>P</td> <td>Height in meters (m)</td> <td>data - Decimal Number (4 Chars, 2 Decimals)</td> </tr> <tr> <td>Q</td> <td>Number of rails</td> <td>data - Number</td> </tr> <tr> <td>R</td> <td>Fall Height in meters (m)</td> <td>data - Decimal Number (4 Chars, 1 Decimals)</td> </tr> <tr> <td>S</td> <td>Artwork - has it an aspect of creative, aesthetic, or decorative beauty?</td> <td>Select from pick list: domArtwork</td> </tr> </tbody> </table>				CAT Column	SAG Attribute Description	Valid Values	A	Type of Line Feature	N08	B	Specific type of Barrier	Select from pick list: domSafetyBarrierType	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	Line Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)	G	Line Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)	H	Order of vertex / point along Line	data - Number	I	Date of commission	data - Date (dd/mm/yyyy)	J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty	K	Name of main contractor who installed asset	Select from pick list: domInstalledBy	L	Date of "survey-start"	data - Date (dd/mm/yyyy)	M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)	N	File name of photo - Photos must be supplied	data - Text (50 Characters)	O	Construction Material	Select from pick list: domSafetyBarrierConstruction	P	Height in meters (m)	data - Decimal Number (4 Chars, 2 Decimals)	Q	Number of rails	data - Number	R	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)	S	Artwork - has it an aspect of creative, aesthetic, or decorative beauty?	Select from pick list: domArtwork	W-Section Guard Rail 
	CAT Column	SAG Attribute Description	Valid Values																																																														
	A	Type of Line Feature	N08																																																														
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Additional Information				Guard Rail installed on a bridge 																																																													
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Safety Barrier (Continued)

CLASSIFICATION INFORMATION

1. Barrier Type

- a. **Barrier** – Any safety barrier that doesn't fit into types b to f below.
- b. **Breakaway Cable Terminal** – Typically installed on roads this barrier is a number of wire-rope cables supported by break-away posts.
- c. **Guard Rail** - A fence type barrier to stop falls from edges.
- d. **Handrail** – A single rail placed on stairs, ramps and other areas where people may need support while walking.
- e. **Steel Backed Timber Facing** – Steel posts and handrail with wooden sections filling the space between posts and below the handrail.
- f. **W-Section Guard Rail** – Also known as Armco this type of barrier is typically installed on roads and vehicle accesses.

2. Construction Material

See the definitions section for a full list of construction materials.

3. Number of Rails

The number of horizontal rails in the safety barrier structure.

4. Fall Height

Measurement of the height it is possible for a person to fall from the structure. See definitions section for more details.

5. Length

End to end distance along the structure. Lengths should all be in metres.

6. Height

Distance from the ground to the top rail of the safety barrier. Heights should all be in metres.

ADDITIONAL COMMENTS

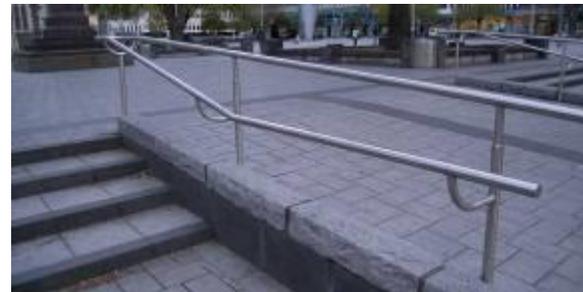
Safety barriers do not apply to playground modular structures. Components of playground modular structures shall be captured under play equipment.

Some asset types have a yes/no field for safety barriers. The yes/no field is solely to indicate the presence of a safety barrier asset. The safety barrier must still be captured as a separate asset.

ADDITIONAL PHOTOS



Breakaway Cable Terminal



Handrail

CCC As-built requirements for Land Improvements V3.0

Name Shelter (Outline) 
Polygon Type N09 "Polygon Asset Inputs"

A structure constructed to give shelter from the elements.

Outline of structure
X Y

N09: Shelter

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N09
B	Specific type of Shelter	Select from pick list: domShelterType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Construction Material	Select from pick list: domShelterConstruction
P	Surface Finish	Select from pick list: domShelterSurfaceFinish
Q	Artwork - has it an aspect of creative, aesthetic, or decorative beauty?	Select from pick list: domArtwork



Sunshade



Pergola

Additional Information

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 See Appendix C.1.2 for a CAT example.
 Col H: enter number of vertex along outline

All corner points along outline to be surveyed.
 Create one CAT row per surveyed point.

CCC As-built requirements for Land Improvements V3.0

Shelter (Continued)**CLASSIFICATION INFORMATION****1. Shelter Type**

- a. **Band Rotunda** – Circular or polyhedral raised platform constructed as a stage for bands. Roofing is optional.
- b. **Bird Hide** – An enclosed structure constructed to allow observation of wildlife.
- c. **Gazebo** – A roofed structure, open or partially open on the sides.
- d. **Pergola** – An open lattice supported above a path. Climbing plants are often grown up the supports and across the latticework.
- e. **Shelter** – Any other shelter not included in a, b, c, d f or g.
- f. **Sun Shade** – Textile fabric roof supported on poles. Sunshades provide protection from the sun but little else.
- g. **Information Shelter** – A roof installed above a sign. The roof may protect the sign from the environment or shelter the sign and people reading it.

2. Construction Material

See the definitions section for a full list of construction materials.

3. Surface Finish

Outermost coating applied, aesthetic or protective

See the definitions section for a full list of surface finishes.

ADDITIONAL COMMENTS

Signs with a small roof above them are to be recorded as both a sign and an information shelter.

ADDITIONAL PHOTOS

Birdhide in Travis Wetland



Sign Kiosk



Gazebo

CCC As-built requirements for Land Improvements V3.0

Name **Stairs (Outline)**
Polygon Type N10 "Polygon Asset Inputs"

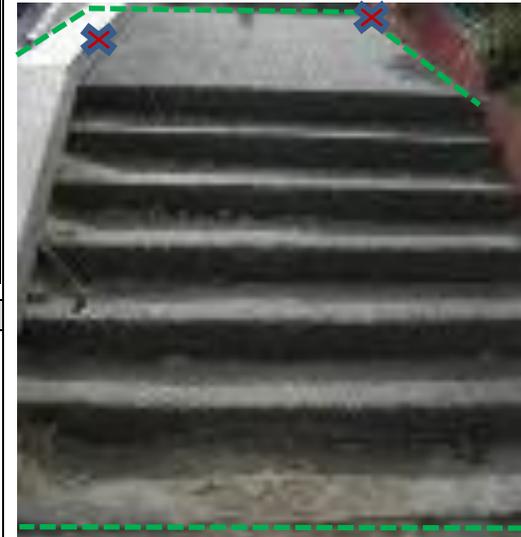


A series of steps

Outline of structure
X Y



In ground stairs with wooden stringers and gravel tread.



Concrete constructed stairs

N10: Stairs

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N10
B	Specific type of Stairs	Select from pick list: domStairsType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Stringer Construction Material	Select from pick list: domStairsStringerConstruction
P	Tread Construction Material	Select from pick list: domStairsTreadConstruction
Q	Number of Steps	data - Number
R	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)
S	Length in meters (m)	data - Decimal Number (6 Chars, 2 Decimals)
T	Riser Height in millimeters (mm)	data - Decimal Number (4 Chars, 0 Decimals)
U	Tread Length in millimeters (mm)	data - Decimal Number (4 Chars, 0 Decimals)
V	Safety Barrier	Select from pick list: domSafetyBarrier
W	Design Loading	Select from pick list: domDesignLoading

Additional Information

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Col H: enter number of vertex along outline

All corner points along outline to be surveyed.
 Create one CAT row per surveyed point.

CCC As-built requirements for Land Improvements V3.0

Stairs (Continued)**CLASSIFICATION INFORMATION****1. Stairs Type**

a. Constructed – Constructed stairs typically are above the ground with stringers and tread construction materials of a manufactured material.

b. Inground – Risers and stringers (optional) are installed into the ground to support earthen or gravel steps.

3. Stringer Construction Material

What material are the beams supporting the steps made of? See the definitions section for a full list of construction materials.

4. Tread Construction Material

What is the material of the part of the step you stand on? See the definitions section for a full list of construction materials.

5. Number of Steps

How many steps are there in the staircase?

6. Fall Height

Measurement of the height it is possible for a person to fall from the structure. See definitions section for more details.

7. Length

Distance between the risers of the top and bottom steps. Lengths should all be in metres.

8. Riser Height

Average vertical distance between treads from a step to its neighbours. Riser heights should all be in millimetres.

9. Tread Length

Horizontal distance across each tread between risers. Tread lengths should all be in millimetres.

10. Safety Barriers

Are safety barriers fitted to the stairs?

ADDITIONAL COMMENTS

Stairs constructed as part of building foundations or decks are considered to be part of the building and should not be captured.

Single steps installed on earth tracks as erosion protection are still considered stairs and should be captured.

Stringers are the longitudinal structural members connecting and separating individual steps. In a flight of steps between two landings there would be two stringers, each going from one landing to the other. The steps are mounted on or between the stringers.

ADDITIONAL PHOTOS

Inground stairs with no stringers.

CCC As-built requirements for Land Improvements V3.0

N11: Stile

Name	Stile (Point)
Point Type	N11 "Point Asset Inputs"



An arrangement of steps that allows people, but not animals, to climb over a fence without having to make contact with the fence.

Centre of structure
X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Point Feature	N11
B	Specific type of Stile	Select from pick list: domStileType
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)
H	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 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 (50 Characters)
N	Construction Material	Select from pick list: domStileConstruction



Cross-over stile



Walk-over stile

Additional Information

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See Appendix C.1.2 for a CAT example.

Stile (Continued)**CLASSIFICATION INFORMATION****1. Stile Type**

a. Cross Over – Cross over stiles give a raised platform for a pedestrian to lift their leg over a fence.

b. Walk Over – Walk over stiles are an A-frame with stairs on both sides. In a walk over stile the pedestrian does not have to step over the fence.

2. Construction Material

The most common construction material is wood. See the definitions section for a full list of construction materials.

ADDITIONAL COMMENTS

Note that when a stile leads to private property there may be an arrangement with the property owner allowing a pedestrian track to cross their land. In these cases the stiles will be Council owned and the track will have Council signage. Stiles will only be privately owned if they lead from a park to private property and there is no signage for a walking track.

CCC As-built requirements for Land Improvements V3.0

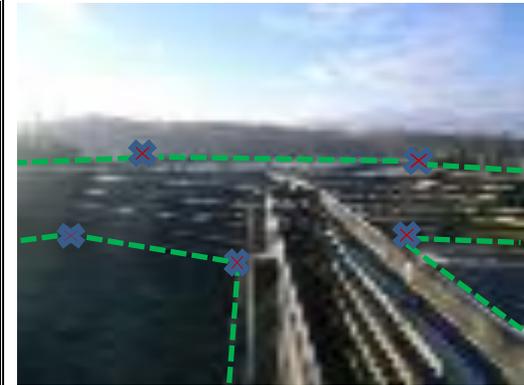
N12: Stockyard

Name **Stockyard (Outline)** 
Polygon Type **N12 "Polygon Asset Inputs"**

Facility for gathering and holding animals.

Outline of structure
X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Polygon Feature	N12
B	Specific type of Stock	Select from pick list: domStockyardStockType
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	Polygon Vertex Easting coordinate	data - Decimal Number (12 Chars, 2 Decimals)
G	Polygon Vertex Northing coordinate	data - Decimal Number (12 Chars, 2 Decimals)
H	Order of vertex / point along polygon	data - Number
I	Date of commission	data - Date (dd/mm/yyyy)
J	Location certainty - accuracy of data	Select from pick list: domLocationCertainty
K	Name of main contractor who installed asset	Select from pick list: domInstalledBy
L	Date of "survey-start"	data - Date (dd/mm/yyyy)
M	Long Description - explanation, further details, or location within park	data - Text (70 Characters)
N	File name of photo - Photos must be supplied	data - Text (50 Characters)
O	Construction Material	Select from pick list: domStockyardConstruction
P	Number of Holding Pens	data - Number
Q	Gate Type	Select from pick list: domStockyardGateType



Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT

Col H: enter number of vertex along outline

All corner points along outline to be surveyed.
 Create one CAT row per surveyed point.

Stockyard (Continued)**CLASSIFICATION INFORMATION****1. Stock Type**

- a. **Cattle** – The stockyard is constructed to confine cattle beasts.
- b. **Sheep** – The stockyard is constructed to confine sheep.
- c. **Pig** – The stockyard is constructed to confine pigs.

2. Construction Material

See the definitions section for a full list of construction materials. Stockyards often, but not always, have wooden fences.

3. Number of Holding Pens

How many internal pens is the stockyard split into? If the stockyard is not split internally then it is 1 pen.

4. Gate Type - style of movable barrier

- a. **Wooden** – Gates are constructed from wood.
- b. **Metal** – Gates are constructed from metal.
- c. **Headcrush** – Gates are metallic constructions designed to restrain an animal by closing around it's' neck.

ADDITIONAL PHOTOS

Stockyards

CCC As-built requirements for Land Improvements V3.0

N13: Viewing Platform

Name **Viewing Platform (Point)** 

Point Type **N13 "Point Asset Inputs"**

A platform, often elevated, constructed to allow observation of the surrounding area.

Centre of structure
X Y



CAT Column	SAG Attribute Description	Valid Values
A	Type of Point Feature	N13
B	Leave Blank	Leave Blank
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)
H	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 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 (50 Characters)
N	Construction Material	Select from pick list: domViewingPlatformConstruction
O	Support Construction Material	Select from pick list: domViewingPlatformSupportConstruction
P	Fall Height in meters (m)	data - Decimal Number (4 Chars, 1 Decimals)
Q	Safety Barrier	Select from pick list: domSafetyBarrier
R	Design Loading	Select from pick list: domViewingPlatformDesignLoading

Additional Information

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See Appendix C.1.2 for a CAT example.

CCC As-built requirements for Land Improvements V3.0

Viewing Platform (Continued)**CLASSIFICATION INFORMATION****1. Construction Material**

What is the deck/platform surface made of? See the definitions section for a full list of construction materials. The majority of viewing platforms will have a wood deck.

2. Support Construction Material

What are the supports holding up the platform made of? Supports will usually be concrete, steel or wood. See the definitions section for a full list of construction materials.

3. Fall Height

Measurement of the height it is possible for a person to fall from the structure. See definitions section for more details.

4. Safety Barriers

Are safety barriers fitted around the viewing platform?

ADDITIONAL COMMENTS

In some cases viewing platforms can be difficult to distinguish from jetties. Look at the purpose of a platform to determine if it is a viewing platform or jetty.

- Jetties will give access to the water or vessels upon it.
- Viewing platforms allow observation but not access.

ADDITIONAL PHOTOS

Viewing Platforms

CCC As-built requirements for Land Improvements V3.0

N14: Water Tower

Name **Water Tower (Point)** 
Point Type N14 "Point Asset Inputs"

A structure constructed to support a water tank at an elevated height.

Centre of structure
X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Point Feature	N14
B	Leave Blank	Leave Blank
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)
H	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 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 (50 Characters)
N	Construction Material	Select from pick list: domWaterTowerConstruction
O	Platform Height in meters (m)	data - Decimal Number (5 Chars, 2 Decimals)
P	Area in square meters (m2)	data - Decimal Number (5 Chars, 2 Decimals)



Steel water tower

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT
 See Appendix C.1.2 for a CAT example.

Water Tower (Continued)**CLASSIFICATION INFORMATION****1. Construction Material**

Small water towers are typically wood or metal. Large water towers can be metal or concrete. See the definitions section for more details on construction materials.

2. Platform Height

Measurement of the height measured vertically from the platform supporting the tank to the ground.

3. Area

What is the ground area the structure occupies? Areas should all be given in square metres.

ADDITIONAL PHOTOS

Concrete block water tower.



Wooden water tower.

CCC As-built requirements for Land Improvements V3.0

N15: Water Trough

Name **Water Trough (Point)** 

Point Type **N15 "Point Asset Inputs"**

A structure constructed to support a water tank at an elevated height.

Centre of structure
X Y

CAT Column	SAG Attribute Description	Valid Values
A	Type of Point Feature	N15
B	Leave Blank	Leave Blank
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)
H	Date of commission	data - Date (dd/mm/yyyy)
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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 (50 Characters)
N	Construction Material	Select from pick list: domWaterTroughConstruction
O	Water Trough shape	Select from pick list: domWaterTroughShape
P	Capacity in litres (Ltrs)	data - Decimal Number (6 Chars, 2 Decimals)
Q	Ballcock	Select from pick list: domWaterTroughBallcock



Rectangular concrete water trough, no ballcock.



Circular plastic water trough. The white ball operates as a ballcock.

Additional Information

*All other columns must be left "blank" or hold the value "LEAVE BLANK" as default in CAT
See Appendix C.1.2 for a CAT example.

Water Trough (Continued)**CLASSIFICATION INFORMATION****1. Water Trough Shape**

What is the shape of the trough when viewed from above?

- a. Circular
- b. Rectangular

2. Capacity

How much water does the trough hold? This measure is in litres. Calculate using the trough dimensions and water level.

3. Construction Material

Water troughs are generally either concrete or plastic. See the definitions section for more details on construction materials.

4. Ballcock

Does the trough have a ballcock (float operated valve) to maintain the water level?

ADDITIONAL PHOTOS

Circular concrete water trough. A ballcock is fitted under the cover on the left hand side.



Rectangular concrete water trough. The ballcock is the ball and valve on the right hand side.