CCC As-built requirements for Land Improvements V3.0

Survey As-built Guidelines (SAG) Appendix L

L01: Car Park	2
L02: Judder Bar	4
L03: Ramp	6
L04: Track	8
L05: Terraces	10

Name Car Park (Outline) Polygon Type L01 "Polygon Asset Inputs "		Type		the driveway, if it terminates at the car pa
		-	Track.	
				Outline of structure
CAT Column	SAG Attribute Description		Valid Values	ХҮ
А	Type of Polygon Feature		L01	
В	Leave Blank		Leave Blank	
С	Asset Record Capture Ty	De	Select from pick list: domExistingOrNew	
D	Differs from design (yes/n	0)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier		data - Text (100 Characters)	
F	Polygon Vertex Easting c	oordinate	data - Decimal Number (12 Chars, 2 Decimals)	
G	Polygon Vertex Northing	coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
Н	Order of vertex / point alo	ng polygon	data - Number	A AND
1	Date of commission		data - Date (dd/mm/yyyy)	
J	Location certainty - accura	acy 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)	
М	Long Description - explana	ation, further details, or location within park	data - Text (70 Characters)	
Ν	File name of photo - Photos must be supplied		data - Text (50 Characters)	
0	Surface Material		Select from pick list: domSurfaceMaterial	
Р	Surface Function		Select from pick list: domCarParkSurfaceFunction	
Q	Top Coat Life Cycle		data - Number	
R	Date of first coat		data - Date (dd/mm/yyyy)	and the second second second
S	Date surface life expires		data - Date (dd/mm/yyyy)	
Т	Date last resurfaced		data - Date (dd/mm/yyyy)	
U	Base Course Material		Select from pick list: domBaseCourseMaterial	
V	Base Course Depth in millimeters (mm)		data - Decimal Number (5 Chars, 1 Decimals)	
W	Date Base Course Installe	ed	data - Date (dd/mm/yyyy)	All corner points along outline
Х	Base Life Cycle		data - Number	he currented
Y	Date Base Course Life Ex	pires	data - Date (dd/mm/yyyy)	be surveyed.
Z	Kerb Type		Select from pick list: domKerbType	Create one CAT row per
AA	Kerb Length in meters (m		data - Decimal Number (6 Chars, 1 Decimals)	surveyed point
AB	Road Markings		Select from pick list: domCarParkRoadMarkings	Sulveyed point.
AC	Usage Level		Select from pick list: domCarParkUsageLevel	
AD	Total Number Of Spaces		data - Number	
AE	Number of Disabled Space	es	data - Number	
AF	Wheel Stops		data - Number	
AG	Vehicle Counters		Select from pick list: domCarParkVehicleCounters	
AH	Number of Sumps		data - Number	
Addition	al Information			
*All othe	er columns must be left "	blank" or hold the value "I FAVF F	BLANK" as default in CAT	

CLASSIFICATION INFORMATION		ADDITIONAL PHOTOS
 I. Surface Material What is the car park surface made of? See the definitions section for a full list of materials and their descriptions. 2. Kerb Type Dish Channel – Channel cross section forms a segment of a circle. Kerb and Channel – Channel formed by a section of constant fall towards a vertical or near vertical face. Kerb Only Vertical or near vertical face forming a step or kerb with no channel at its base. Mountable Kerb Only – Kerb either with a curved face or a face at 45° or less to the horizontal. This kerb type is able to be driven over. No Kerbing – No kerbing or channels surround the car park area. Covered Kerb and Dish – Deep kerb and dish channel with a cover over the top. Kerb and Dished Channel – Kerb with dish channel at ts base. Mountable Kerb and Channel – Kerb with dish channel at ts base. 	 5. Total Number of Spaces If the car park has marked spaces, how many spaces are there? This includes reserved and disabled spaces. 6. Number of Disabled Spaces If the car park has marked spaces, how many disabled spaces are there? 7. Number of Wheel Stops Wheel stops are kerbs / raised edgings at the front of car park spaces to help prevent cars going forward too far. Are wheel stops fitted in the car park, if so how many? 8. Vehicle Counters Are vehicle counters fitted at the car park? 9. Number of Sumps How many storm water sumps (drains) are there in the car park surface??	Abbrinder Theorets and the second se
 8. Kerb Length What length of car park perimeter has the kerb and channel? All lengths should be in metres. 4. Road Markings Does the car park surface have markings? Markings may be painted or formed by paving features. 	ADDITIONAL COMMENTS Driveways in parks are included in the car parks grouping.	

Name	int Type L02 "Point Asset Inputs"		Constructed at the road surface to encoded
Point Type			vehicle drivers to slow down.
			Centre of structure
CAT	SAG Attribute Description	Valid Values	Х Ү
Column			
A	Type of Point Feature	L02	
В	Specific type of Judder Bar	Select from pick list: domJudderBarType	
С	Asset Record Capture Type	Select from pick list: domExistingOrNew	and the second
D	Differs from design (yes/no)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identifier	data - Text (100 Characters)	A STATE OF THE OWNER
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 list: domInstalledBy	and the second s
K	Date of "survey-start"	data - Date (dd/mm/yyyy)	A CANADA MANAGEMENT
5 L	Long Description - explanation, further details, or location within pa	ark data - Text (70 Characters)	and the second
М	File name of photo - Photos must be supplied	data - Text (50 Characters)	
			Single judder bar with painted markings. judder bars will be marked or as large as th
Additiona *All other See Appe	l Information columns must be left "blank" or hold the value "LEAV endix C.1.2 for a CAT example.	E BLANK" as default in CAT	

CLASSIFICATION INFORMATION	ADDITIONAL PHOTOS
 1. Judder Bar Type a. Single b. Double 	Duble judder bar. These judder bars are a normal size and have painted markings.

Polygon 1	Γvpe	L03 "Polyaon Asset Inputs "		different beights (see N02 for boat ramp)
				Outline of structure
CAT	SAG Attribute Desc	ription	Valid Values	
A	Type of Polygon Fe	ature	L03	
В	Leave Blank		Leave Blank	
С	Asset Record Captu	іге Туре	Select from pick list: domExistingOrNew	
D	Differs from design	(yes/no)	Select from pick list: domDiffersFromDesign	
E	Asset Unique Identi	fier	data - Text (100 Characters)	
F	Polygon Vertex Eas	ting coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
G	Polygon Vertex Nor	thing coordinate	data - Decimal Number (12 Chars, 2 Decimals)	
	Order of vertex / poi	nt along polygon	data - Number	
1	Date of commission		data - Date (dd/mm/yyyy)	
L I	Location certainty -	accuracy of data	Select from pick list: domLocationCertainty	
к	Name of main contr	actor who installed asset	Select from pick list: domInstalledBy	
L	Date of "survey-star	t"	data - Date (dd/mm/yyyy)	
S M	Long Description - e	xplanation, further details, or location within pa	ark data - Text (70 Characters)	
	File name of photo	Photos must be supplied	data - Text (50 Characters)	
0	Construction Materi	al	Select from pick list: domRampConstruction	
Р	Non Slip Surface Ty	rpe	Select from pick list: domNonSlipSurfaceType	
Q	Handrail		Select from pick list: domHandrail	
R	Length in meters (m	l)	data - Decimal Number (4 Chars, 2 Decimals)	
S	Width in meters (m)		data - Decimal Number (4 Chars, 2 Decimals)	
				34 - 14 2808
Additiona	al Information			
*All other	columns must be	left "blank" or hold the value "LEAV	E BLANK [®] as default in CA1	
See App	endix C.1.2 for a C	AT example.		1
Col G: er	nter number of vert	ex along outline All c	orner points along outline to be surveyed.	
			reate one CAT row per surveyed point	

CCC As-built requirements for Land Improvements V3.0						
	Ramp (Continued)					
CLASSIFICATION INFORMATION	ADDITIONAL COMMENTS	ADDITIONAL PHOTOS				
 1. Construction Material See picklist options for a list of construction materials. Most ramps will be either concrete or wood. 2. Non Slip Surface Type 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 Is a handrail fitted alongside the ramp? 4. Length What is the end to end distance along the inclined surface? All Lengths should be in metres. 5. Width What is the side to side distance across the inclined surface? All widths should be in metres. 	Ramps are built assets. A section of track on an incline with retaining walls on each side should not be considered a ramp and should be captured as track and retaining walls. Likewise, an incline leading onto a bridge formed with fill between two walls extending from the corners of the bridge should be considered a bridge abutment and not a ramp. Some stockyards have a fenced ramp to allow livestock to be loaded into trucks. These ramps are part of the stockyard and should not be captured as ramps. Ramps leading into the water should be recorded as boat ramps. Ramps for access into buildings and constructed integral with the building foundations are to be considered part of the building and not a separate asset.	<image/>				

-	Name Bolygon Tu			ne)		A footpath or road, either sealed or unseale through a natural area, park, or road corridor.
		pe	LU4 Polygon As			-
	CAT	SAG Attribute Description			Valid Values	Outline of structure
	A	Type of Polygon Feature			104	Х Ү
	B	Specific type of Track (intended t	traffic)		Select from pick list: domTrackIntendedTraffic	41
	C	Asset Record Capture Type Differs from design (ves/no)		Select from pick list: domExistingOrNew		
	D			Select from pick list: domDiffersFromDesign	125	
	E	Asset Unique Identifier			data - Text (100 Characters)	
	F	Polygon Vertex Easting coordinate			data - Decimal Number (12 Chars, 2 Decimals)	
	G	Polygon Vertex Lasting coordinate			data - Decimal Number (12 Chars. 2 Decimals)	
	H	Order of vertex / point along poly	gon		data - Number	
	1	Date of commission	<u> </u>		data - Date (dd/mm/yyyy)	
	J	Location certainty - accuracy of data			Select from pick list: domLocationCertainty	
	K	Name of main contractor who ins	stalled asset		Select from pick list: domInstalledBy	
×	L	Date of "survey-start"			data - Date (dd/mm/yyyy)	
acl	М	Long Description - explanation, further details, or location within park or road corridor		data - Text (70 Characters)		
	N	File name of photo - Photos must be supplied				data - Text (50 Characters)
'	0	Surface Material				Select from pick list: domSurfaceMaterial
4	Р	Kerb Type				Select from pick list: domKerbType
O,	Q	Width in meters (m)				data - Decimal Number (4 Chars, 2 Decimals)
	R	Length in meters (m)			data - Decimal Number (7 Chars, 1 Decimals)	
	S	Track Drainage			Select from pick list: domTrackDrainage	
	Т	Track Category Mountain Bike *Mandatory if Track type = Mountain Bike;			Select from pick list:	
		otherwise leave as is			domTrackCategoryMountainBike	- Alasta
	U	Track Specification Pedestrian *Mandatory if Track type = Pedestrian; otherwise leave as is			Select from pick list:	
	V				Select from nick list: domTrackEasement	
	Ŵ	Final surface depth in millimeters			data - Decimal Number (5 Chars 1 Decimals)	
	X	Base Course Material	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Select from nick list: domBaseCourseMaterial	
	Ŷ	Base course depth in millimeters (mm)			data - Decimal Number (5 Chars 1 Decimals)	11
	Z	Track accessibility class – How of	difficult is this track to	traverse?	Select from pick list: domTrackAccessibilityClass	11
	AA	Date accessibility standard met?			data - Date (dd/mm/vvvv)	11
	AB	Date of first coat			data - Date (dd/mm/vvvv)	11
	AC	Date last resurfaced		data - Date (dd/mm/yyyy)	11	
	Additional	Additional Information				1
	*All other of	columns must be left "blank"	or hold the value	"LEAVE BLANK"	as default in CAT	
	See Apper	ndix C.1.2 for a CAT example	e.			
	Col G: ent	er number of vertex along ou	utline	All corner poir	nts along outline to be surveyed	
		er number of vertex along of	aunio			
				Create one	CAT row per surveyed point.	

	Track (Continued)	
CLASSIFICATION INFORMATION		ADDITIONAL PHOTOS
 Intended Traffic Intended method(s) of transportation that the track has been installed to support. a. 4WD Vehicle – The track is suitable for four-wheel drive vehicles to use. b. Any Vehicle – The track is suitable for any vehicle to use. c. Horse – Horses are intended to be ridden on the track. d. Mountain Bike – Mountain bikes are intended to be ridden on the track. e. Pedestrian – The track is intended for foot traffic or cycles. 2. Surface Material What is the track surface made of? See the definitions section for a list of materials and their descriptions. https://ccc.govt.nz/assets/Documents/Consents-and-Licences/construction-requirements/IDS/As-Built-Data-Requirements/Land-Improvements-Data-Dictionary-Definitions.pdf 3. Kerb Type a. Dish Channel – Channel cross section forms a segment of a circle. b. Kerb and Channel – Channel formed by a section of constant fall towards a vertical or near vertical face. c. Kerb Only Vertical or near vertical face forming a step or kerb with no channel at its base. d. Mountable Kerb Only – Kerb either with a curved face or a face at 45° or less to the horizontal. This kerb type is able to be driven over. e. No Kerbing – No kerbing or channels alongside the track. f. Covered Kerb and Dish – Deep kerb and dish channel with a cover over the top. g. Kerb and Dished Channel – Kerb with dish channel at its base. h. Mountable Kerb and Channel – Kerb with dish channel at its base. h. Mountable Kerb and Channel – Kerb with dish channel at its base. h. Mountable Kerb and Channel – Kerb with dish channel at its base. h. Mountable Kerb and Channel – Kerb with dish channel at its base. h. Mountable Kerb and Channel – Kerb with dish channel at its bas	 4. Width What is the width of the track? All widths should be in metres. 5. Track Drainage a. Swale – Open grassed ditch beside track. b. Hump – Raised track edge retains runoff. c. Culvert Pipe – Sumps/drains connected by pipes or a channel made from a pipe cut in half lengthwise alongside track. d. Open Box Drain – Square cross section drain alongside track. e. Closed Box Drain – Covered square cross section drain alongside track. Cover may be solid or perforated/slotted. ADDITIONAL COMMENTS Mountain bike tracks will be unpaved tracks that can be shared use with bikes and pedestrians or single use for mountain bikes only. Berms may be constructed on some mountain bike tracks but there is generally little in the way of engineering enhancements. In general mountain bike tracks are present only in Bottle Lake Forest Park and Port Hills Regional Parks. Tracks intended for any vehicle differ from driveways/car parks in that tracks will seldom be sealed and will be longer giving access through an area. Driveways may be sealed or unsealed but only give access into an area or to a car park. Diagrams of the different kerb types are in the Car Park section.	<image/> <image/> <image/> <image/>

	Name		Terraces (Outline)		A series of level hard surfaces on a slope
-	Polygon Typ	e	L05 "Polygon Asset Inputs"		resembling steps. Stairs, handrails, ramps are
	. c.jgen ijp				separate assets and are to be cantured
					separately
	CAT Column	SAG Attribute Description		Valid Values	Outline of structure
	Δ	Type of Polygon Feature		1.05	XY
	B	Leave Blank		Leave Blank	
	6	Asset Record Capture Type		Select from pick list: domExistingOrNew	
		Differs from design (yes/no)		Select from pick list: domDiffersFromDesign	
	5	Assot Unique Identifier		data Toxt (100 Characters)	
		Polygon Vortex Easting coordin	ato	data - Decimal Number (12 Chars - 2 Decimals)	
		Polygon Vertex Lasting coordin		data - Decimal Number (12 Chars, 2 Decimals)	
	U U	Order of vertex / point clong pol		data - Number	
		Date of commission	/gon	data Data (dd/mm/ssss)	
		Date of commission	1-4-	Galast form sick list dent section Containty	
	J	Location certainty - accuracy of		Select from pick list: domLocationCertainty	
S	ĸ	Name of main contractor who in	stalled asset	Select from pick list: doministalledBy	and the second
Ö		Date of "survey-start"		data - Date (dd/mm/yyyy)	
ပ္	M	Long Description - explanation,	urther details, or location within park	data - Text (70 Characters)	Carl Carl Carl Carl Carl Carl Carl Carl
ភ្	N	File name of photo - Photos mus	st be supplied	data - Text (50 Characters)	
	0	Construction Material		Select from pick list: domTerraceConstruction	Contract of South States of South States
o	Р	Width in meters (m)		data - Decimal Number (4 Chars, 2 Decimals)	
	Q	Length in meters (m)		data - Decimal Number (4 Chars, 2 Decimals)	and the state of the
iö	R	Number of Terrace Steps		data - Number	
ö	S	Inscribed?		Select from pick list: domTerraceInscribed	A DESCRIPTION OF THE OWNER OF THE
	Additional In *All other co See Append Col G: enter	formation lumns must be left "blank" (lix C.1.2 for a CAT example number of vertex along ou	or hold the value "LEAVE BLAN e. tline	K" as default in CAT	
			All corner points a Create one CA	T row per surveyed point.	

CCC As-built requirement	s for Land Improvements V3.0
Terraces	(Continued)
CLASSIFICATION INFORMATION	ADDITIONAL PHOTOS
 1. Construction Material See picklist options for a list of construction materials. 2. Width What is the total width of the terraced area, from the top to the bottom measured in metres? 3. Length What is the total length of the terraced area, running along the river bank, measured in metres? 4. Number of terrace steps What is the number of terrace steps that make up the terraced area? 5. Terraces have been inscribed? Has any of the terrace steps been inscribed, Yes or No? ADDITIONAL COMMENTS Stairs, handrails, ramps, seats, trees, etc, are separate assets and although they may be included in the total terraces area, are to be captured separately. 	Ferrace on Avon River