

MRC GUIDELINES FOR "AS-CONSTRUCTED" AND ADAC V5.0.1 SURVEY PICK-UP



TABLE OF CONTENTS

1	ı	Purpose	7
2	(General Survey Requirements	7
:	2.1	1 Work must be carried out by a Registered Surveying Person	7
:	2.2	2 Survey Exceptions	7
:	2.3	3 Review and Approval	7
3	;	Survey Elements	8
4	;	Survey Data Standards	8
4	4.1	1 Survey Codes	8
	4.2	2 Required Datum / Projection	8
	4.3	3 Survey Quality1	C
5	;	Scope of survey1	0
6	4	"As-Constructed" Survey Requirements1	C
	-	Top Cut / Fill	2
	-	Toe Cut / Fill	2
	,	Spot Level1	2
	(Change of Grade1	12
	ı	Permanent Survey Mark1	13
	;	Survey Target1	13
	;	Station1	13
	(Original Pegs and References1	13
	I	Dumpy Peg1	4
	l	Nail1	4
	;	Spike1	4
	I	Drill Hole1	5
	-	Traverse Line1	5
	ı	Existing Property Boundary1	5
	ı	Existing Easement Boundary1	5
	;	Small Tree < 0.3 dia.	16
	I	Large Tree	16
	ı	Palm – all varieties	16
	;	Single Shrub < 5 m	17
	(Garden Edge1	17
		Edge of Vegetation1	
		Tree Drip Line1	
		Lip of Concrete Channel	
		Invert of Concrete Channel	
		Loose Rock e.g. Erosion Protection	
		Watercourse Centreline	

Pondage – dam/lake	19
Creek	19
Stormwater Pipe Invert Level	19
Box Culvert Invert Level	20
Pit without Grate	20
Pit with Grate	20
Stormwater Manhole	21
Stormwater Manhole Strung	21
Stormwater Underground	21
Culvert/Pipe Crown	22
Culvert/Pipe Obvert	22
Headwall &/or Wingwall	22
Property Drainage Connection	23
Maximum Height Gauge	23
Subsoil Flush Point	23
Stormwater Silt Trap	24
Stormwater Trash Rack	24
Gross Pollutant Trap – Manhole	24
Gross Pollutant Trap – Other	25
Stormwater Detention Basin	25
Centre of Bitumen	25
Change of Grade on Bitumen	25
Edge of Bitumen	26
Edge of Shoulder	26
Lip of K&C	26
Invert of K&C	27
Top of K&C	27
Back of K&C	27
Kerb Only	28
Footpath	28
Driveway	28
Driveway – Not on DTM	29
Tactile Ground Surface Indicators	29
Pram Ramp	29
Borehole – Geotechnical	29
Edge of Gravel Road	30
Centre of Gravel Road	30
Edge of Track	
Guardrail	31
Large Signs Strung	31
Signs	31

Letterbox/Postbox	32
Traffic Light	32
Traffic Controller Box	32
Traffic Pit	32
Traffic Unclassified	33
Road Furniture Uncl	33
Monument	33
Joint Use Pole	33
Traffic Controller Box Strung	34
Red Light Camera	34
Guide Post	34
Chevrons & Symbols	35
Unbroken Line – All types, excl. Edge Line	35
Lane Line	35
Rumble Bars	35
Dividing Line 3 m 9 m	36
Barrier Line One Direction	36
Barrier Line Both Directions	36
Edge Line	36
Continuity Line	37
Turn Line	37
Stop Line	37
Give Way Line	37
Crosswalk Line	38
Parking Line	38
Exit line at multilane roundabout	38
Wall	38
Awning/Eaves	39
Shed	39
Building	39
Verandah	39
Steps	40
Bridge	40
Concrete Slab	40
Structure – Unclassified	41
Swimming Pool	41
Bore/Well	41
Sports Arena/Field	42
Retaining Wall	42
Tank - General	42
Floor Level	42

Park – Bench Seat	43
Park – Playground Equipment	43
Park – Table/Chairs on Slab	43
Park - Barbeque	44
Park – Rubbish Bin	44
Park – Shelter	45
Irrigation Sprinkler Head	45
Irrigation Pit	45
Irrigation Underground	46
Bus Shelter	46
Electricity Marker	46
Electricity Substation on ground	47
Staywire	47
Staypole	47
Electricity Manhole/Box Strung	47
Light Pole + no.	48
Electricity Pole Only + no.	48
Electricity Pole with Light + no	48
Electricity Unclassified	49
Electricity Pit	49
Electricity Line Overhead	49
Electricity Line Underground	49
Electricity Pillar	50
Communications Manhole/Box Strung	50
Communications Pit	50
Communications Pillar	51
Communications Marker	51
Communications Pole + no.	51
Communications Cabinet	51
Communications Unclassified	52
Communications Lines Overhead	52
Communications Lines Underground	52
Optic Fibre Underground	53
Electricity Conduit Crown	53
Communications Conduit Crown	53
Optic Fibre Crown	53
Gas Manhole/Box Strung	54
Gas Valve	54
Gas Marker	54
Gas Unclassified	55
Gas Underground	55

Sewer Manhole/Box Strung	55
Sewer Manhole	56
Sewer Unclassified	56
Sewer Underground	56
Sewer – Rising Main Valve	57
Sewer Invert	57
Sewer Crown	57
Sewer Vent Pole	58
Water Manhole/Box Strung	58
Water Valve	58
Water Tap	59
Fire Hydrant	59
Water Meter	59
Water Unclassified	59
Water Underground	60
Water – Reservoir	60
Watermain Crown	60
Water Marker	61
Water Service	61
Unclassified Pit	61
Unclassified Pole	62
Unclassified Utility	62
Unclassified Manhole/Box Strung	62
Railway Line	63
Railways Boom Gate	63
Railways Signals Pole	63
Railways Signal Box	63
Railways Switch	64
Railways Unclassified	64
Cattle Grid	64
Fence	64
Fence Post – Isolated	65
Gate	65
Bollard	65
pendix A Example Sketches of Detail Codes	66

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1 PURPOSE

The purpose of this document is to act as a reference guide with respect to completing "As-Constructed" surveys of new donated civil infrastructure and associated assets handed over to the Mackay Regional Council (MRC).

The "As-Constructed" survey data shall accurately reflect the location of all infrastructure installed and earthworks completed and will form the basis of any "As-Constructed" drawings and plans and ADAC XML file(s).

Note: Specific details regarding the preparation and presentation of any required "As-Constructed" drawings, plans, and XML files should be produced as per Mackay Regional Council's Engineering Design Guidelines (D20), Drawings and Documentation Guidelines and the MRC Guidelines for the Creation and Lodgement of ADAC XML Files.

2 GENERAL SURVEY REQUIREMENTS

2.1 Work must be carried out by a Registered Surveying Person

All "As-Constructed" works (except for the cases listed below) must be surveyed by a Surveying Associate, Graduate or Surveyor registered with the Surveyors Board of Queensland.

The Registered Surveying Person shall certify the details upon completion of the project. Their certification must note that the "As-Constructed" survey data represents the true and accurate location of the relevant construction element presented in the data, relative to the appropriate survey data (i.e. the exact location in space of each construction element/entity).

The Registered Surveying Person certification must accompany the "As-Constructed" plans and electronic file to Council. Refer to per Mackay Regional Council's Engineering Design Guidelines (D20), Drawings and Documentation Guidelines for an example of an acceptable Registered Surveying Person's Certification.

2.2 Survey Exceptions

All "As-Constructed" plans submitted to Council must be based on a physical survey with the following exceptions:

- 1. Pre-fabricated assets with no underground services (e.g. bus shelters, waste collection points, bicycle fittings etc.). In this situation, a site map with GPS coordinates will suffice.
- 2. Other low risk asset types as determined by Technical Services (e.g. footpaths). If you are in doubt whether a survey is required, please contact Technical Services for advice.

2.3 Review and Approval

Council will conduct random site audits to confirm that submitted data conforms to requirements, including positional accuracies and tolerances, as well as the submission of all required objects and attributes.

Release / Sealing of subdivisional title plans and approval of construction project milestones will <u>not</u> occur until all required "As-Constructed" information is received in the manner prescribed in this manual.

3 SURVEY ELEMENTS

The "As-Constructed" survey will include the following details at the Chainages or Point Numbers as shown on the "For Construction" plans:

- 1. Road centreline
- 2. Change of grade of finished surface, earthworks batter interface points
- 3. Edge of bitumen
- 4. Lip, Invert and top of kerb and channel
- 5. Lip of kerb on median strips
- 6. Line marking including chevrons
- 7. Gully pits, headwalls, stormwater manholes/chambers, and field inlet pits
- 8. Subsoil drains and flush points
- 9. Invert levels of pipes and box culverts
- 10. Road shoulder
- 11. Top and invert of drains
- 12. New Signs placed
- 13. Concrete driveways, and invert crossings
- 14. Kerb ramps
- 15. Crash barriers
- 16. Fencina
- 17. Road and park furniture and concrete pathways
- 18. New sewer lines and manholes
- 19. New water lines, valves, hydrants, water meters, and water services
- 20. New Telecommunications services
- 21. New electrical services including street lighting
- 22. Corners of bridge deck and abutments
- 23. Retaining wall bases and any steps along the top and changes in direction
- 24. Trees

4 SURVEY DATA STANDARDS

Digital "As-Constructed" data recorded and supplied to Council by the Submitter shall be in accordance with Section 6 - "As-Constructed" Survey Requirements

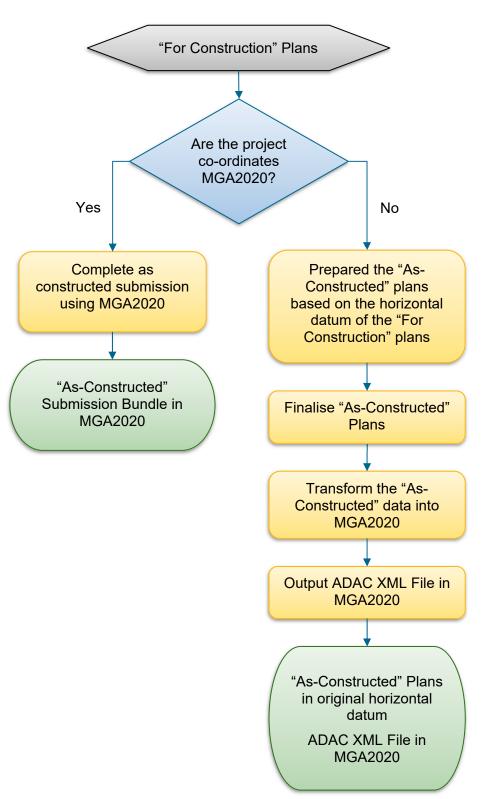
4.1 Survey Codes

When picking up detail, all points shall be coded in accordance with Council's Standard Survey Codes. Council's standard survey codes and layers are shown in MRC Survey Codes and Layers.pdf

4.2 Required Datum / Projection

The horizontal datum for "As-Constructed" surveys is dependent on the original project datum. The required vertical datum for "As-Constructed" surveys is AHD71. All ADAC XML files are to be submitted with MGA2020 co-ordinates.

Refer to flowchart below for guidance for correct horizontal datum selection for the "As-Constructed" submission.



4.3 Survey Quality

All engineering surveys undertaken which are used as the basis of "As-Constructed" plans to be submitted to Council shall comply with the following:

- Datum shall be established by connecting to existing permanent survey marks designated as
 "Datum" or existing permanent survey marks with "Derived" coordinates of 2nd order/class B or
 better in Queensland's survey control database. Where existing control does not exist, as a
 minimum, datum shall be established by using the GNSS equipment and observation techniques
 (excepting double occupations) for real-time surveys as per the Guideline for Control Surveys by
 GNSS*.
- 2. The azimuth shall be established from the end coordinates of the longest observable line in the control traverse. When using real-time GNSS, this distance should be greater than 200 m and never less than 100 m.
- 3. All survey stations shall be traversed using the equipment recommendations and observation techniques for SU < 10 mm and RU < 10 mm or 30 ppm as per the *Guideline for Conventional Traverse Surveys** A current (within 12 months) EDM Calibration Certificate for instrument used must be provided on request.
- 4. All survey stations and bench marks shall be levelled using the differential levelling equipment recommendations (excepting staff calibration) and observation techniques for 12 mm * √k (km) as per the *Guideline for Control Surveys by Differential Levelling**
- 5. The farthest distance measured from a setup station to a feature (sideshots) shall not exceed 100 m to achieve height accuracy. In general, the relative uncertainty of 95% of reduced levels on hard structures shall not exceed 10 mm and on natural surface shall not exceed 25 mm. Refer to Section 6 "As-Constructed" Survey Requirements for more specific details

5 SCOPE OF SURVEY

The survey must include all new; modified; removed; and abandoned infrastructure associated with the physical works that is, or will be, the responsibility of MRC. These assets can potentially be within easements, private property, Council's local government road reserves and Queensland State controlled road reserves.

The "As-Constructed" data must include all asset types, earthworks information, and property boundary information that is relevant to the submission even when no ADAC attribute information is required.

If an asset type is not listed in Section 6 - "As-Constructed" Survey Requirements, contact Council's Survey Coordinator for more information

6 "AS-CONSTRUCTED" SURVEY REQUIREMENTS

The table below contains Council's survey requirements for "As-Constructed" plan assets / objects.

The required horizontal survey accuracies (XY) and vertical survey accuracies (Z) listed below are for "As-Constructed" surveys of projects built to a design and refers to the relative uncertainty of measurements at the 95% confidence level.

^{*} As defined by Intergovernmental Committee on Surveying and Mapping (ICSM) Standard for the Australian Control Network Special Publication 1 (SP1) Version 2.1 October 2014 – www.icsm.gov.au

However, it is recognised some small projects built in isolation based on a standard drawing (e.g., bus stops) do not need to be located to this high level of accuracy for asset management purposes. In such instances, a second set of accuracies has been listed.

Refer also to the example sketch plans for Road, Open Space, and Services for guidance regarding Council's survey methodology.

Notes:

- 1. Since Council has adopted the Asset Design As Constructed (ADAC) data specification published by the Institute of Public Works Engineering (IPWEA), there may be two sets of survey location data required (i.e., Council's standard asset pick-up points and additional ADAC data points).
- 2. Not all surveyed objects have corresponding asset data attributes in Council's "As-Constructed" Data Specification (Refer to MRC Guidelines for the Creation and Lodgement of ADAC XML Files). Where an object requires additional attribute data, the Asset Class and Asset Type are shown.
- 3. The structure of the table is as follows:

Description	The survey code description		
Survey Code	The three digit survey code		
Layer Name	The drafting package layer name		
Surveyed Location	MRC	The survey pick up method as required by MRC	
	ADAC	The survey pick up method as required by ADAC	
Required Survey Accuracy	Horizontal (XY)	The required MRC "As-Constructed" horizontal survey accuracy relative to the survey control	
	Vertical (Z)	The required MRC "As-Constructed" vertical survey accuracy relative to the survey control	
Required Accuracy for Asset Management Purposes	Horizontal (XY)	The maximum horizontal survey accuracy of assets located purely for asset management purposes	
	Vertical (Z)	The maximum vertical survey accuracy of assets located purely for asset management purposes	
Object Type	The geometry type (point, line or polygon)		
Asset Class/ADAC Element	The corresponding ADAC Class and Element		
Extra Comments: Any additional comments e.g., regarding the survey pick up n		ments e.g., regarding the survey pick up method	

Description	Top Cut / Fill	
Survey Code	102	
Layer Name	BATTER TOP	
Surveyed Location	MRC	String most abrupt change of aspect
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 25 mm
Object Type	Polyline	,
Asset Class/ADAC Element	Supplementary Polyl	ineFeature
Extra Comments:		
Description		Toe Cut / Fill
Survey Code	103	
Layer Name	BATTER TOE	
Surveyed Location	MRC	String most abrupt change of aspect
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 25 mm
Object Type	Polyline	,
Asset Class/ADAC Element	Supplementary Polyl	ineFeature
Extra Comments:	To define the toe of bank in detention basins use code 326 (SW BASIN instead	
	instead	
Description	instead	Spot Level
Description Survey Code	instead	Spot Level
•		Spot Level
Survey Code	104	Spot Level Single surface shot
Survey Code Layer Name	104 SPOT LEVEL	
Survey Code Layer Name	104 SPOT LEVEL MRC	Single surface shot
Survey Code Layer Name Surveyed Location	104 SPOT LEVEL MRC ADAC 5.0.1	Single surface shot Same as MRC
Survey Code Layer Name Surveyed Location	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY)	Single surface shot Same as MRC ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Single surface shot Same as MRC ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Single surface shot Same as MRC ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Single surface shot Same as MRC ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Single surface shot Same as MRC ± 100 mm ± 25 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight	Single surface shot Same as MRC ± 100 mm ± 25 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight	Single surface shot Same as MRC ± 100 mm ± 25 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight 105 CH GRADE	Single surface shot Same as MRC ± 100 mm ± 25 mm Change of Grade
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight 105 CH GRADE MRC	Single surface shot Same as MRC ± 100 mm ± 25 mm Change of Grade String change of aspect
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	104 SPOT LEVEL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight 105 CH GRADE MRC ADAC 5.0.1	Single surface shot Same as MRC ± 100 mm ± 25 mm Change of Grade String change of aspect N/A – not a mandatory inclusion

Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Permanent Survey Mark		
Survey Code	111		
Layer Name	SURV PSM		
Surveyed Location	MRC	Locate centre of mark, record PSM number	
	ADAC 5.0.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 5 mm	
	Vertical (Z)	± 2 mm	
Object Type	Point		
Asset Class/ADAC Element	Cadastre SurveyMa	ırk	
Extra Comments:		ccupied as a survey station use code 114. Pole check orizontal accuracy (XY) of ± 10 mm and a vertical mm	
Description		Survey Target	
Survey Code	112		
Layer Name	SURV TRGT		
Surveyed Location	MRC	Locate centre of mark	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 5 mm	
	Vertical (Z)	± 2 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:	When the TRGT is occupied as a survey station use code 114. Pole check shots may have a horizontal accuracy (XY) of ± 10 mm and a vertical accuracy (Z) of ± 7 mm		
Description		Station	
Survey Code	114		
Layer Name	SURV STN		
Surveyed Location	MRC	Locate centre of mark	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 5 mm	
	Vertical (Z)	± 2 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Poil	Supplementary PointFeature	
Extra Comments:			
Description	Original Pegs and References		
Survey Code	115		
Layer Name	SURV CADST		

MRC	Locate centre of mark, record station number and survey plan number	
ADAC 5.0.1	N/A – not a mandatory inclusion	
Horizontal (XY)	± 10 mm	
Vertical (Z)	± 7 mm	
Point		
Supplementary PointFeature		
Mainly used to record the position of original boundary pegs		
	Dumpy Peg	
116		
SURV DUMPY		
MRC	Locate centre of peg	
ADAC 5.0.1	N/A – not a mandatory inclusion	
Horizontal (XY)	± 10 mm	
Vertical (Z)	± 7 mm	
Point	,	
Supplementary PointFeature		
Dumpy pegs are not acceptable for use as survey stations except in isolated cases to acquire small amounts of detail		
isolated cases to acq	juire smail amounts of detail	
isolated cases to acq	Nail	
isolated cases to acq		
117		
117 SURV NAIL	Nail	
117 SURV NAIL MRC	Nail Locate centre of mark	
SURV NAIL MRC ADAC 5.0.1	Nail Locate centre of mark N/A – not a mandatory inclusion	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY)	Nail Locate centre of mark N/A – not a mandatory inclusion ± 5 mm	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Nail Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements	Nail Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm EFeature Invey station use code 114. Mainly used to record so. Pole check shots may have a horizontal accuracy	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm Feature Invey station use code 114. Mainly used to record as Pole check shots may have a horizontal accuracy a vertical accuracy (Z) of ± 7 mm	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements (XY) of ± 10 mm and	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm Feature Invey station use code 114. Mainly used to record as Pole check shots may have a horizontal accuracy a vertical accuracy (Z) of ± 7 mm	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements (XY) of ± 10 mm and	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm Feature Invey station use code 114. Mainly used to record as Pole check shots may have a horizontal accuracy a vertical accuracy (Z) of ± 7 mm	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements (XY) of ± 10 mm and	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm EFeature Invey station use code 114. Mainly used to record is. Pole check shots may have a horizontal accuracy a vertical accuracy (Z) of ± 7 mm Spike	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements (XY) of ± 10 mm and 118 SURV SPIKE MRC	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm Feature Invey station use code 114. Mainly used to record a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements (XY) of ± 10 mm and 118 SURV SPIKE MRC ADAC 5.0.1	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm Feature Invey station use code 114. Mainly used to record a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark N/A – not a mandatory inclusion	
SURV NAIL MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a su check measurements (XY) of ± 10 mm and 118 SURV SPIKE MRC ADAC 5.0.1 Horizontal (XY)	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm Feature Invey station use code 114. Mainly used to record as. Pole check shots may have a horizontal accuracy a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark N/A – not a mandatory inclusion ± 5 mm	
	ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point Mainly used to record 116 SURV DUMPY MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	

Extra Comments:	When the spike is a survey station use code 114. Mainly used to record check measurements. Pole check shots may have a horizontal accuracy (XY) of \pm 10 mm and a vertical accuracy (Z) of \pm 7 mm			
Description		Drill Hole		
Survey Code	119			
Layer Name	SURV DRILL			
Surveyed Location	MRC	Locate centre of mark		
	ADAC 5.0.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	± 10 mm		
	Vertical (Z)	± 7 mm		
Object Type	Point			
Asset Class/ADAC Element	Supplementary Poi	ntFeature		
Extra Comments:	check measuremer	When the drill hole is a survey station use code 114. Mainly used to record check measurements. Pole check shots may have a horizontal accuracy (XY) of ± 10 mm and a vertical accuracy (Z) of ± 7 mm		
Description		Traverse Line		
Survey Code	150			
Layer Name	SURV TRAV			
Surveyed Location	MRC	Line from boundary corner to boundary corner or survey mark to survey mark		
	ADAC 5.0.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	N/A – Dependant on accuracy of end points		
	Vertical (Z)	N/A – Dependant on accuracy of end points		
Object Type	Polyline	Polyline		
Asset Class/ADAC Element	Supplementary Poly	Supplementary PolylineFeature		
Extra Comments:				
Description		Existing Property Boundary		
Survey Code	151 or 151 gis			
Layer Name	RP BDY E or RP B	DY E gis		
Surveyed Location	MRC	The property boundary		
	ADAC 5.0.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	151: ± 10 mm (assuming lots close within acceptable limits) 151 gis: ± 100 mm (urban areas) 151 gis: ± 500 mm (rural areas)		
	Vertical (Z)	N/A – Null all heights		
Object Type	Polyline			
Asset Class/ADAC Element	N/A			
Extra Comments:	Use 151 (RP BDY E) when boundaries are plotted from cadastral connections.			
	Use 151 gis (RP BDY E gis) when boundaries are imported from the DCDB.			
Description	Existing Easement Boundary			

Survey Code	154 or 154 gis			
Layer Name	EASE BDY E or EASE BDY E gis			
Surveyed Location	MRC	The easement boundary		
	ADAC 5.0.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	154: ± 10 mm (assuming lots close within acceptable limits)		
		154 gis: ± 100 mm (urban areas) 154 gis: ± 500 mm (rural areas)		
	Vertical (Z)	N/A – Null all heights		
Object Type	Polyline	5		
Asset Class/ADAC Element	N/A			
Extra Comments:	connections.	(E) when boundaries are plotted from cadastral BDY E gis) when boundaries are imported from the		
Description		Small Tree < 0.3 dia.		
Survey Code	201			
Layer Name	TREE SMALL			
Surveyed Location	MRC	Centre of trunk		
	ADAC 5.0.1	Same as MRC		
Required Survey Accuracy	Horizontal (XY)	± 20 mm		
	Vertical (Z)	± 50 mm (see extra comments)		
Object Type	Point			
Asset Class/ADAC Element	OpenSpace Tree			
Extra Comments:	• •	The tree height at ground level is preferred, but not necessary. If the recorded height is not indicative of the ground surface, null the height.		
Description		Large Tree		
Survey Code	202			
Layer Name	TREE LARGE			
Surveyed Location	MRC	Centre of Trunk		
	ADAC 5.0.1	Same as MRC		
Required Survey Accuracy	Horizontal (XY)	± 100 mm		
	Vertical (Z)	± 50 mm (see extra comments)		
Object Type	Point			
Asset Class/ADAC Element	OpenSpace Tree			
Extra Comments:	The tree height at ground level is preferred, but not necessary. If the recorded height is not indicative of the ground surface, null the height.			
Description	Palm – all varieties			
Survey Code	203			
Layer Name	TREE PALM			
Surveyed Location	MRC	Centre of Trunk		

	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 100 mm
, , , , , , , , , , , , , , , , , , ,	Vertical (Z)	± 50 mm (see extra comments)
Object Type	Point	,
Asset Class/ADAC Element	OpenSpace Tree	
Extra Comments:	The tree height at gi	round level is preferred, but not necessary. If the
	recorded height is not indicative of the ground surface, null the height.	
Description		Single Shrub < 5 m
Survey Code	204	
Layer Name	SHRUB	
Surveyed Location	MRC	Centre of Shrub
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 50 mm (see extra comments)
Object Type	Point	
Asset Class/ADAC Element	OpenSpace Tree	
Extra Comments:	The tree height at ground level is preferred, but not necessary. If the recorded height is not indicative of the ground surface, null the height.	
Description		Garden Edge
Survey Code	205	
Layer Name	GARDEN EDG	
Surveyed Location	MRC	String along outermost edge of the garden at ground level
	ADAC 5.0.1	For new landscaped areas within open space areas, string around the outermost edge of landscaped areas using code A205 instead
Required Survey Accuracy	Horizontal (XY)	
	` ′	± 10 mm
	Vertical (Z)	± 10 mm ± 20 mm
Object Type	` ,	
Object Type Asset Class/ADAC Element	Vertical (Z) Polyline/Polygon	± 20 mm PolylineFeature, Supplementary PolygonFeature
	Vertical (Z) Polyline/Polygon 205 Supplementary	± 20 mm PolylineFeature, Supplementary PolygonFeature
Asset Class/ADAC Element	Vertical (Z) Polyline/Polygon 205 Supplementary	± 20 mm PolylineFeature, Supplementary PolygonFeature
Asset Class/ADAC Element Extra Comments:	Vertical (Z) Polyline/Polygon 205 Supplementary	± 20 mm PolylineFeature, <i>Supplementary</i> PolygonFeature andscapeArea
Asset Class/ADAC Element Extra Comments: Description	Vertical (Z) Polyline/Polygon 205 Supplementary A205 OpenSpace L	± 20 mm PolylineFeature, <i>Supplementary</i> PolygonFeature andscapeArea
Asset Class/ADAC Element Extra Comments: Description Survey Code	Vertical (Z) Polyline/Polygon 205 Supplementary A205 OpenSpace L	± 20 mm PolylineFeature, <i>Supplementary</i> PolygonFeature andscapeArea
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Vertical (Z) Polyline/Polygon 205 Supplementary A205 OpenSpace L 206 VEGETATION	± 20 mm PolylineFeature, Supplementary PolygonFeature andscapeArea Edge of Vegetation String along the outermost edge of the cultivated
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Vertical (Z) Polyline/Polygon 205 Supplementary A205 OpenSpace L 206 VEGETATION MRC	± 20 mm PolylineFeature, Supplementary PolygonFeature andscapeArea Edge of Vegetation String along the outermost edge of the cultivated area
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Vertical (Z) Polyline/Polygon 205 Supplementary A205 OpenSpace L 206 VEGETATION MRC ADAC 5.0.1	± 20 mm PolylineFeature, Supplementary PolygonFeature andscapeArea Edge of Vegetation String along the outermost edge of the cultivated area N/A – not a mandatory inclusion

Asset Class/ADAC Element	Supplementary Poly	lineFeature, Supplementary PolygonFeature
Extra Comments:		
Description		Tree Drip Line
Survey Code	207	
Layer Name	TREE DRIP LINE	
Surveyed Location	MRC	String along the outermost edge of the cultivated area
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 300 mm
	Vertical (Z)	N/A
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Poly	lineFeature, Supplementary PolygonFeature
Extra Comments:		
Description		Lip of Concrete Channel
Survey Code	280	
Layer Name	CONCHN LIP	
Surveyed Location	MRC	String along top edge of concrete channel
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:		
Description		Invert of Concrete Channel
Survey Code	281	
Layer Name	CONCHN INV	
Surveyed Location	MRC	String along bottom of concrete channel
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	StormWater Surface	eDrain eDrain
Extra Comments:		
		oose Rock e.g. Erosion Protection
Description		
Description Survey Code	282	
Survey Code	282	Locate perimeter of rock area
Survey Code Layer Name	282 ROCK AREA	Locate perimeter of rock area N/A – not a mandatory inclusion

	Vertical (Z)	± 50 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Polyl	ineFeature, Supplementary PolygonFeature
Extra Comments:	Mainly used to locate outlets	e the extent of areas of loose rock placed at stormwater
Description		Watercourse Centreline
Survey Code	290	
Layer Name	WCOURSE CL	
Surveyed Location	MRC	String along lowest point of channel
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 50 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	StormWater Surfacel	Drain
Extra Comments:	Mainly used to show and bottom banks	flow paths that are not clearly defined drains with top
Description		Pondage – dam/lake
Survey Code	291	
Layer Name	POND	
Surveyed Location	MRC	String around contour of water level
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Polyl	ineFeature, Supplementary PolygonFeature
Extra Comments:		
Description		Creek
Survey Code	292	
Layer Name	CREEK	
Surveyed Location	MRC	String along contour of water level
	ADAC 5.0.1	String along lowest point of channel
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class	StormWater Surfacel	Drain
Extra Comments:	Usually only used wh	nen the water level is specifically requested as part of a
Description		Stormwater Pipe Invert Level
Survey Code	304	

Surveyed Location	MRC	Locate invert of pipe, record material and diameter as vertex text e.g., "375RCP"
	ADAC 5.0.1	For a single pipe, join the inverts using a polyline coded 312. For multiple pipes, join the inverts of the middle pipe using a polyline coded 312 and record the number of pipes.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	304 Supplementar 312 StormWater P	
Extra Comments:		
Description		Box Culvert Invert Level
Survey Code	305	
Layer Name	SW RCBC INV	
Surveyed Location	MRC	Locate invert of box culvert at centre of cell, record material and dimensions as vertex text e.g., "1200w × 900h RCBC"
	ADAC 5.0.1	For a single cell, join the invert of box culvert at the centre of cell using a polyline coded 312. For multiple cells, join the invert of box culvert at the centre of the middle cell using a polyline coded 312 and record the number of pipes.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	305 Supplementar 312 StormWater P	
Extra Comments:		
Description		Pit without Grate
Survey Code	308	
Layer Name	PIT OTHER	
Surveyed Location	MRC	Closed figure around extents of pit. For gully pits, also string single line across top of kerb and across invert of kerb
	ADAC 5.0.1	Using code A310, locate a single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	308 Supplementar	y PolylineFeature, <i>Supplementary</i> PolygonFeature Pit
Extra Comments:		
Description		Pit with Grate

Survey Code	309	
Layer Name	PIT GRATED	
Surveyed Location	MRC	Closed figure around extents of pit. For gully pits, also string single line across top of kerb and across invert of kerb
	ADAC 5.0.1	Using code A310, locate a single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	309 Supplementary F	PolylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:		
Description		Stormwater Manhole
Survey Code	310	
Layer Name	SW MH	
Surveyed Location	MRC	Single point in centre of round lid
	ADAC 5.0.1	Using code A310, locate a single point representing the centre of chamber
Required Survey Accuracy	Horizontal (XY)	± 30 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	310 Supplementary F	
Extra Comments:		
Description		Stormwater Manhole Strung
Survey Code	311	
Layer Name	SW MH STR	
Surveyed Location	MRC	String around edge of lid
	ADAC 5.0.1	Using code A310, locate a single point representing
		the centre of chamber
Required Survey Accuracy	Horizontal (XY)	the centre of chamber ± 10 mm
Required Survey Accuracy	Horizontal (XY) Vertical (Z)	
Required Survey Accuracy Object Type	, ,	± 10 mm
	Vertical (Z)	± 10 mm ± 7 mm PolygonFeature
Object Type	Vertical (Z) Polygon 311 Supplementary F	± 10 mm ± 7 mm PolygonFeature
Object Type Asset Class/ADAC Element	Vertical (Z) Polygon 311 Supplementary F	± 10 mm ± 7 mm PolygonFeature
Object Type Asset Class/ADAC Element Extra Comments:	Vertical (Z) Polygon 311 Supplementary F	± 10 mm ± 7 mm PolygonFeature

location as a note e.g., paint mark on surface			
Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information Vertical (Z) Quality Level A = ± 50 mm Quality Level C = ± 300 mm Quality Level C = ± 500 mm Quality Level C = × 500 mm Quality Level C = N/A Quality Level D = Existing Record Vertical (Z) Quality Level D = Existing Record Vertical (Z) Quality Level D = Existing Record Object Type Asset Class/ADAC Element Asset Class/ADAC Element Asset Class/ADAC Element Asset Class/ADAC Element Apac 5.0.1 Apac 5.0.	Surveyed Location	MRC	String centreline of pipe/cell, record vertical surveyed location as a note e.g., paint mark on surface
Refer to AS 5488.1:2019 Classification of Subsurface Utility Information		ADAC 5.0.1	String centreline of pipe from invert of pipe to invert of pipe. Locate any fittings using code A312.
Classification of Subsurface Utility Information Vertical (Z) Quality Level D = Existing Record Vertical (Z) Quality Level A = ± 50 mm Quality Level C = N/A Quality Level D = Existing Record Vertical (Z) Quality Level C = N/A Quality Level D = Existing Record Object Type Asset Class/ADAC Element Asset Class/ADAC Element Description Culvert/Pipe Crown Survey Code Layer Name SW CULV CROWN Surveyed Location MRC Locate crown of pipe or crown of culvert at central cell ADAC 5.0.1 ADAC 5.0.1 ADAC 5.0.1 ADAC 5.0.1 ADAC 5.0.1 ASSET Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT MRC Locate obvert of pipe or obvert of culvert at central cell Culvert/Pipe Obvert Locate obvert of pipe or obvert of culvert at central cell Culvert/Pipe Obvert ASSET Class/ADAC Element ADAC 5.0.1 A	Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm
Utility Information Quality Level D - Existing Record Vertical (Z) Quality Level B - ± 500 mm Quality Level B - ± 500 mm Quality Level D - Existing Record Object Type Asset Class/ADAC Element Asset Class/ADAC Element Bescription Culvert/Pipe Crown Survey Code Layer Name Sw CULV CROWN Surveyed Location MRC Locate crown of pipe or crown of culvert at centracell ADAC 5.0.1 N/A - not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) ### Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert MRC Culvert/Pipe Obvert Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Layer Name Sw CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centracell ADAC 5.0.1 N/A - not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) # 10 mm Vertical (Z) # 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature			Quality Level B – ± 300 mm
Vertical (Z) Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record Object Type Polyline Asset Class/ADAC Element Survey Code A16 ADAC 5.0.1 Asset Class/ADAC Element ADAC 5.0.1 ADAC 5.0.1 ADAC 5.0.1 ASSET Class/ADAC Element Asset Class/ADAC Element Asset Class/ADAC Element Asset Class/ADAC Element ADAC 5.0.1 ADAC 5.0.1 ASSET Class/ADAC Element ASSET Class/ADAC Element ADAC 5.0.1 ADAC 5.0.1 ADAC 5.0.1 ASSET Class/ADAC Element ASSET Class/ADAC Element ASSET Class/ADAC Element ADAC 5.0.1 ADAC 5.0.1 ADAC 5.0.1 ASSET Class/ADAC Element ASSET Class/ADAC Element ASSET Class/ADAC Element ADAC 5.0.1 ADAC			Quality Level C – ± 300 mm
Quality Level B = ± 500 mm Quality Level C - N/A Quality Level D - Existing Record	Ounty Information		Quality Level D – Existing Record
Quality Level C - N/A Quality Level D - Existing Record		Vertical (Z)	Quality Level A – ± 50 mm
Object Type Polyline Asset Class/ADAC Element 312 StormWater Pipe A312 StormWater Fitting Extra Comments: Description Culvert/Pipe Crown Survey Code 316 Layer Name SW CULV CROWN Surveyed Location MRC Locate crown of pipe or crown of culvert at centracell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Extra Comments: Mainly used to record the location of underground services that have be accurated accurated. Description Culvert/Pipe Obvert Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centracell Coulvert Adams of the central Cell Coulvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centracell Cell Cell Cell Cell Cell Cell Cell			Quality Level B – ± 500 mm
Object Type Polyline Asset Class/ADAC Element 312 StormWater Pipe A312 StormWater Fitting Extra Comments: Description Culvert/Pipe Crown Survey Code 316 Layer Name SW CULV CROWN Surveyed Location MRC Locate crown of pipe or crown of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) <t< td=""><td></td><td></td><td></td></t<>			
Asset Class/ADAC Element 312 StormWater Pipe A312 StormWater Fitting Extra Comments: Description Culvert/Pipe Crown Survey Code Layer Name SW CULV CROWN Surveyed Location MRC Locate crown of pipe or crown of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cell cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature			Quality Level D – Existing Record
Extra Comments: Description Survey Code Layer Name SW CULV CROWN Surveyed Location MRC ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) Description Surpplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavaled. Description Surveyed Location MRC Locate cobvert of pipe or crown of culvert at central cells and the comment of the code 312 (SW UNDERG) Extra Comments: Mainly used to record the location of underground services that have be vacuum excavaled. Culvert/Pipe Obvert Survey Code 317 Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cells and the cells of the code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Object Type	Polyline	
Extra Comments: Description Survey Code S16	Asset Class/ADAC Element	312 StormWater Pi	ре
Description Culvert/Pipe Crown Survey Code 316 Layer Name SW CULV CROWN Surveyed Location MRC Locate crown of pipe or crown of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature		A312 StormWater	Fitting
Survey Code SW CULV CROWN	Extra Comments:		
Layer Name Surveyed Location MRC Locate crown of pipe or crown of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) Description Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Description		Culvert/Pipe Crown
Surveyed Location MRC Locate crown of pipe or crown of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY)	Survey Code	316	
Cell	Layer Name	SW CULV CROWN	N .
Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code Survey Code Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centracell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Surveyed Location	MRC	Locate crown of pipe or crown of culvert at centre of cell
Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centricell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature		ADAC 5.0.1	N/A – not a mandatory inclusion
Vertical (Z)			Refer to code 312 (SW UNDERG)
Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Description Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Required Survey Accuracy	Horizontal (XY)	± 50 mm
Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centricell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) Asset Class/ADAC Element Supplementary PointFeature		Vertical (Z)	± 7 mm
Extra Comments: Mainly used to record the location of underground services that have be vacuum excavated. Culvert/Pipe Obvert Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centracell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) # 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Object Type	Point	
Vacuum excavated. Description	Asset Class/ADAC Element	Supplementary Poi	ntFeature
Survey Code 317 Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centrated cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Extra Comments:	-	_
Layer Name SW CULV OBVT Surveyed Location MRC Locate obvert of pipe or obvert of culvert at centracell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Asset Class/ADAC Element Supplementary PointFeature	Description		Culvert/Pipe Obvert
Surveyed Location MRC Locate obvert of pipe or obvert of culvert at central cell ADAC 5.0.1 N/A – not a mandatory inclusion Refer to code 312 (SW UNDERG) Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Asset Class/ADAC Element Supplementary PointFeature	Survey Code	317	
Cell	Layer Name	SW CULV OBVT	
Refer to code 312 (SW UNDERG) Required Survey Accuracy	Surveyed Location	MRC	Locate obvert of pipe or obvert of culvert at centre of cell
Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature		ADAC 5.0.1	N/A – not a mandatory inclusion
Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature			Refer to code 312 (SW UNDERG)
Object Type Point Asset Class/ADAC Element Supplementary PointFeature	Required Survey Accuracy	Horizontal (XY)	± 10 mm
Asset Class/ADAC Element Supplementary PointFeature		Vertical (Z)	± 7 mm
	Object Type	Point	
Extra Comments: 304 (SW PIPE INV) or 305 (SW RCBC INV) are preferred	Asset Class/ADAC Element	Supplementary Poi	ntFeature
	Extra Comments:	304 (SW PIPE INV) or 305 (SW RCBC INV) are preferred
Description Headwall &/or Wingwall	Description		Headwall &/or Wingwall

Survey Code	318	
Layer Name	HEADWALL	
Surveyed Location	MRC	String around: inside edge at base of structure; inside edge at top of structure; and, where accessible, back edge at top of structure
	ADAC 5.0.1	Using code A318, locate a single point at the top of the structure in the centre
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	318 Supplementary F	PolylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:	-	ture is higher than the surrounding natural surface, structure at ground level using 105 (CH GRADE)
Description		Property Drainage Connection
Survey Code	319	
Layer Name	PROP DRCON	
Surveyed Location	MRC	Locate the invert of the drainage connection pipe at outlet point
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:		
Description		Maximum Height Gauge
Survey Code	320	
Layer Name	MAX HT GUA	
Surveyed Location	MRC	Locate centre of gauge at ground level
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Point	Feature
Extra Comments:	Mainly used to locate	flood level indicators
Description		Subsoil Flush Point
Survey Code	321	
Layer Name	SUBSOIL PT	
Surveyed Location	MRC	Locate centre top of flush point box
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm

	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	321 Transport Flus	nPoint
	SubSoilDrain Tran	sport SubSoilDrain
Extra Comments:		
Description		Stormwater Silt Trap
Survey Code	322	
Layer Name	SW STRAP	
Surveyed Location	MRC	String the edge of the trap
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 100 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:		
Description		Stormwater Trash Rack
Survey Code	323	
Layer Name	SW TRACK	
Surveyed Location	MRC	Locate a single point in the centre of the visible rack
	ADAC 5.0.1	Locate single point representing the centre of the chamber
Required Survey Accuracy	ADAC 5.0.1 Horizontal (XY)	
Required Survey Accuracy		chamber
Required Accuracy for Asset	Horizontal (XY)	chamber ± 100 mm
	Horizontal (XY) Vertical (Z)	t 100 mm ± 20 mm
Required Accuracy for Asset	Horizontal (XY) Vertical (Z) Horizontal (XY)	thamber ± 100 mm ± 20 mm ± 100 mm
Required Accuracy for Asset Management Purposes	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z)	thamber ± 100 mm ± 20 mm ± 100 mm N/A
Required Accuracy for Asset Management Purposes Object Type	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point	thamber ± 100 mm ± 20 mm ± 100 mm N/A
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point	thamber ± 100 mm ± 20 mm ± 100 mm N/A
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point	chamber ± 100 mm ± 20 mm ± 100 mm N/A
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC	chamber ± 100 mm ± 20 mm ± 100 mm N/A
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC	chamber ± 100 mm ± 20 mm ± 100 mm N/A
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH	chamber ± 100 mm ± 20 mm ± 100 mm N/A Domplex Gross Pollutant Trap – Manhole
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC	chamber ± 100 mm ± 20 mm ± 100 mm N/A Manual
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC ADAC 5.0.1	chamber ± 100 mm ± 20 mm ± 100 mm N/A Manual
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC ADAC 5.0.1 Horizontal (XY)	chamber ± 100 mm ± 20 mm ± 100 mm N/A Manual
Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	chamber ± 100 mm ± 20 mm ± 100 mm N/A Cross Pollutant Trap – Manhole Locate a single point in the centre of the manhole lid Locate single point representing the centre of the chamber ± 100 mm ± 20 mm

Object Type	Point	
Asset Class/ADAC Element		imple
Extra Comments:	StormWater GPTS	imple
		Crease Ballistant Trans. Other
Description	325	Gross Pollutant Trap – Other
Survey Code		
Layer Name	GPT OTHER	1
Surveyed Location	MRC	Locate a single point in the centre of the visible trap
	ADAC 5.0.1	Locate single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 100 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Point	
Asset Class/ADAC Element	StormWater NonG	PTSimple
Extra Comments:		
Description		Stormwater Detention Basin
Survey Code	326	
Layer Name	SW DBASIN	
Surveyed Location	MRC	String around the toe of bank
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 50 mm
Object Type	Polygon	
Asset Class/ADAC Element	StormWater WSUE	DArea
Extra Comments:		
Description		Centre of Bitumen
Survey Code	401	
Layer Name	RD CN BITU	
Surveyed Location	MRC	String along crown of road
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	•
Asset Class/ADAC Element	Supplementary Pol	lylineFeature
Extra Comments:	Used to define cen	tre of bitumen when no line marking is present
Description		Change of Grade on Bitumen
Survey Code	402	
Layer Name	CH GRD BIT	
·	•	

Currented Location	MDC	String along shapes of sansat shapes in seal
Surveyed Location	MRC	String along change of aspect, change in seal
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature
Extra Comments:		
Description		Edge of Bitumen
Survey Code	403	
Layer Name	RD ED BITU	
Surveyed Location	MRC	String along edge of bitumen where no kerb is present
	ADAC 5.0.1	Same as MRC. Use where appropriate to generate a polygon in the office representing an area of pavement or parking with code "Pavement" or "Parking". The original edge of bitumen polyline is not a mandatory inclusion in the ADAC XML file.
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	403 Supplementary PolylineFeature	
	Pavement Transport Pavement	
	Parking Transport	Parking
Extra Comments:		
Description		Edge of Shoulder
Survey Code	405	
Layer Name	RD ED SHDR	
Surveyed Location	MRC	String along change of aspect closest to edge of bitumen
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature
Extra Comments:	May be used instea	ad of 102 (BATTER TOP) for the road side of table drains
Description		Lip of K&C
Survey Code	406	
Layer Name	KC LIP	
Surveyed Location	MRC	String part of kerb closest to carriageway
	ADAC 5.0.1	Same as MRC. Use where appropriate on <u>existing</u> kerb to generate a polygon in the office representing an area of pavement or parking with the code

		"Pavement" or "Parking". The original lip of K&C polyline is not a mandatory inclusion in the ADAC XML.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	406 Supplementary	PolylineFeature
	Pavement Transpo	
	Parking Transport	Parking
Extra Comments:		
Description		Invert of K&C
Survey Code	407	
Layer Name	KC INVERT	
Surveyed Location	MRC	String lowest point of kerb
	ADAC 5.0.1	Same as MRC. Use where appropriate on <u>new</u> kerb to generate a polygon in the office representing an area of pavement or parking with the code "Pavement" or "Parking". The original invert of K&C polyline is not a mandatory inclusion in the ADAC XML.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	407 Supplementary	PolylineFeature
	Pavement Transpo	
	Parking Transport	Parking
Extra Comments:		
Description		Top of K&C
Survey Code	408	
Layer Name	KC TOP	
Surveyed Location	MRC	String highest point of kerb
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Poly	ylineFeature
Extra Comments:		
Description		Back of K&C
Survey Code	409	
Layer Name	KC BACK	
Surveyed Location	MRC	String the part of kerb the farthest from the carriageway

	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
required ourvey Accuracy	Vertical (Z)	± 7 mm
Object Type	<u> </u>	17 11111
	Polyline	
Asset Class/ADAC Element	Transport RoadEdg	e
Extra Comments:		
Description	440	Kerb Only
Survey Code	410	
Layer Name	KERB ONLY	
Surveyed Location	MRC	String around the part of the kerb closest to the carriageway at the level of the bitumen
	ADAC 5.0.1	Using code A410, string around the back of kerb of traffic islands. Create a new polygon for changes in material type e.g., concrete to grass; stencilled to plain.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	410 Supplementary	PolylineFeature, Supplementary PolygonFeature
	A410 Transport Ro	adIsland
Extra Comments:	Mainly used to locate concrete traffic islands	
	,	
Description	,	Footpath
-	411	
Description		
Description Survey Code	411	
Description Survey Code Layer Name	411 FOOTPATH	Footpath
Description Survey Code Layer Name	411 FOOTPATH MRC	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the
Description Survey Code Layer Name Surveyed Location	FOOTPATH MRC ADAC 5.0.1	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY)	Footpath String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY)	Footpath String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY)	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport	Footpath String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport	Footpath String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport	Footpath String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport RoadPathway Trans	Footpath String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport RoadPathway Trans 414	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway nsport RoadPathway
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	411 FOOTPATH MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport RoadPathway Trans	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway sport RoadPathway

	ADAC 5.0.1	N/A not a mandatory inclusion	
		N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z) ± 7 mm		
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary PolylineFeature, Supplementary PolygonFeature		
Extra Comments:			
Description	Driveway – Not on DTM		
Survey Code	415		
Layer Name	DRIVEWAY N		
Surveyed Location	MRC	String around the top edge of the structure or along the centreline of wheel tracks	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary PolylineFeature, Supplementary PolygonFeature		
Extra Comments:	Mainly used to locate wheel tracks and concrete bridge crossovers		
Description	Tactile Ground Surface Indicators		
Survey Code	416		
Layer Name	TACTILE		
Surveyed Location	MRC	String around perimeter of TGSI area	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon	<u> </u>	
Asset Class/ADAC Element	Supplementary Poly	Supplementary PolygonFeature	
Extra Comments:			
Description	Pram Ramp		
Survey Code	417		
Layer Name	PRAM RAMP		
Surveyed Location	MRC	String around the edges of the structure	
	ADAC	Using code A417, locate point in centre of pram ramp at invert of kerb	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	417 Supplementary PolylineFeature, Supplementary PolygonFeature A417 Transport PramRamp		
Extra Comments:			
Description	Borehole – Geotechnical		

Survey Code	418		
Layer Name	BOREH GEOT		
Surveyed Location	MRC	Locate centre of borehole	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Edge of Gravel Road		
Survey Code	419		
Layer Name	RD ED GRAV		
Surveyed Location	MRC	String along edge of gravel	
	ADAC 5.0.1	Same as MRC. Use where appropriate to generate a polygon in the office representing an area of pavement or parking with code "Pavement" or "Parking". The original edge of gravel road polyline is not a mandatory inclusion in the ADAC XML file.	
Required Survey Accuracy	Horizontal (XY)	± 25 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	419 Supplementary	419 Supplementary PolylineFeature	
	Pavement Transport Pavement		
	Parking Transport F	Parking Transport Parking	
Extra Comments:			
Description	Centre of Gravel Road		
Survey Code	420		
Layer Name	RD CN GRAV		
Surveyed Location	MRC	String along crown of gravel road	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 25 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Edge of Track		
Survey Code	421		
Layer Name	RD ED TRAC		
Surveyed Location	MRC	String along edge of unformed trafficked area	

	ADAC 5.0.1	Use where appropriate to generate a polyline in the office with code "PathStructure" representing the centreline of a beach access ramp.	
Required Survey Accuracy	Horizontal (XY)	± 50 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	421 Supplementary PolylineFeature		
	PathStructure Transport PathStructure		
Extra Comments:			
Description		Guardrail	
Survey Code	501		
Layer Name	GUARDRAIL		
Surveyed Location	MRC	String around edge of guardrail closest to carriageway	
	ADAC 5.0.1	Same as MRC; preferably record point at each upright	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline	Polyline	
Asset Class/ADAC Element	Transport RoadSafetyBarrier		
Extra Comments:			
Description		Large Signs Strung	
Description Survey Code	502	Large Signs Strung	
	502 SIGNS STR	Large Signs Strung	
Survey Code		Large Signs Strung Locate support posts of sign	
Survey Code Layer Name	SIGNS STR		
Survey Code Layer Name	SIGNS STR MRC	Locate support posts of sign Locate single point in centre of sign (refer to code	
Survey Code Layer Name Surveyed Location	SIGNS STR MRC ADAC 5.0.1	Locate support posts of sign Locate single point in centre of sign (refer to code 503)	
Survey Code Layer Name Surveyed Location	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY)	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm ylineFeature	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm ylineFeature	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol 503	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm ylineFeature	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol 503 SIGNS	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm Signs	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol 503 SIGNS MRC	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm Signs Locate support post of sign (single)	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol 503 SIGNS MRC ADAC 5.0.1	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm Signs Locate support post of sign (single) Same as MRC	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	SIGNS STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol 503 SIGNS MRC ADAC 5.0.1 Horizontal (XY)	Locate support posts of sign Locate single point in centre of sign (refer to code 503) ± 10 mm ± 20 mm Signs Locate support post of sign (single) Same as MRC ± 10 mm	

Extra Comments:			
Description	Letterbox/Postbox		
Survey Code	504		
Layer Name	LETTERBOX		
Surveyed Location	MRC	Locate centre of letterbox/postbox	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Traffic Light		
Survey Code	505		
Layer Name	TR SIGNAL		
Surveyed Location	MRC	Locate centre of traffic light post	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	Point	
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
		Traffic Controller Box	
Description		Traffic Controller Box	
Description Survey Code	506	Traffic Controller Box	
	506 TR CON BOX	Traffic Controller Box	
Survey Code		Traffic Controller Box Locate centre of box	
Survey Code Layer Name	TR CON BOX		
Survey Code Layer Name	TR CON BOX MRC	Locate centre of box	
Survey Code Layer Name Surveyed Location	TR CON BOX MRC ADAC 5.0.1	Locate centre of box N/A – not a mandatory inclusion	
Survey Code Layer Name Surveyed Location	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY)	Locate centre of box N/A – not a mandatory inclusion ± 10 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507 TR PIT	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Traffic Pit	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507 TR PIT MRC	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Traffic Pit Locate centre of pit lid	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	TR CON BOX MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507 TR PIT MRC ADAC 5.0.1	Locate centre of box N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Traffic Pit Locate centre of pit lid N/A – not a mandatory inclusion	

Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Traffic Unclassified		
Survey Code	508		
Layer Name	TR UNC		
Surveyed Location	MRC	Locate centre of feature	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	Point	
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description		Road Furniture Uncl	
Survey Code	509		
Layer Name	FURN RD UN		
Surveyed Location	MRC	Locate centre of feature	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
		Use code A509 to locate the centre of bicycle fittings	
Required Survey Accuracy	Horizontal (XY)	± 100 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	Point	
Asset Class/ADAC Element	509 Supplementary PointFeature		
	A509 OpenSpace	A509 OpenSpace BicycleFitting	
Extra Comments:			
Description		Monument	
Survey Code	510	510	
Layer Name	MONUMENT	MONUMENT	
Surveyed Location	MRC	String around outside edge of monument	
	ADAC	Using code A510, locate single point in centre of artwork	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon		
Asset Class/ADAC Element	510 Supplementary PolygonFeature A510 OpenSpace Artwork		
Extra Comments:			
Description		Joint Use Pole	
Survey Code	511		

Layer Name	TR JU POLE		
Surveyed Location	MRC	Locate centre of pole used for both traffic signals and street lighting	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Traffic Controller Box Strung		
Survey Code	512		
Layer Name	TR CON BOX STR	TR CON BOX STR	
Surveyed Location	MRC	String around outside of large box	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polygon	Polygon	
Asset Class/ADAC Element	Supplementary Pol	Supplementary PolygonFeature	
Extra Comments:			
Description		Red Light Camera	
Survey Code	515		
Layer Name	TR RED CAM	TR RED CAM	
Surveyed Location	MRC	Locate centre of support post	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
) / · · · · / · · ·		
	Vertical (Z)	± 20 mm	
Object Type	Point	± 20 mm	
Object Type Asset Class/ADAC Element	` ,		
	Point		
Asset Class/ADAC Element	Point		
Asset Class/ADAC Element Extra Comments:	Point	ntFeature	
Asset Class/ADAC Element Extra Comments: Description	Point Supplementary Poi	ntFeature	
Asset Class/ADAC Element Extra Comments: Description Survey Code	Point Supplementary Poi	ntFeature	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Point Supplementary Poi 519 GUIDE POST	ntFeature Guide Post	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Point Supplementary Poi 519 GUIDE POST MRC	ntFeature Guide Post Locate centre of post	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Point Supplementary Poi 519 GUIDE POST MRC ADAC 5.0.1	Guide Post Locate centre of post N/A – not a mandatory inclusion	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Point Supplementary Poi 519 GUIDE POST MRC ADAC 5.0.1 Horizontal (XY)	Cuide Post Locate centre of post N/A – not a mandatory inclusion ± 10 mm	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	Point Supplementary Point 519 GUIDE POST MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Guide Post Locate centre of post N/A – not a mandatory inclusion ± 10 mm ± 20 mm	

Description	Chevrons & Symbols		
Survey Code	530		
Layer Name	PMARK CHEV		
Surveyed Location	MRC	String centre of white line around outside of chevrons; String outside edge of large painted signs and symbols; String the centre of turning arrows	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary PolylineFeature, Supplementary PolygonFeature		
Extra Comments:			
Description	Unbroken Line – All types, excl. Edge Line		
Survey Code	531		
Layer Name	PMARK SLIN		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Lane Line		
Survey Code	532	532	
Layer Name	PMARK LANE		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Rumble Bars		
Survey Code	540		
Layer Name	PMARK RMBL		
Surveyed Location	MRC	Locate the end points of each string of rumble bars	
	1 4 5 4 6 5 6 4	N/A – not a mandatory inclusion	
	ADAC 5.0.1	1471 Hot a managery molacion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	

Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	Supplementary PolylineFeature	
Extra Comments:			
Description	Dividing Line 3 m 9 m		
Survey Code	541		
Layer Name	PMARK SEP39		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Barrier Line One Direction	
Survey Code	543		
Layer Name	PMARK BARR1		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
	Supplementary PolylineFeature		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Asset Class/ADAC Element Extra Comments:	Supplementary Pol	ylineFeature	
	Supplementary Pol	ylineFeature Barrier Line Both Directions	
Extra Comments:	Supplementary Pol		
Extra Comments: Description			
Extra Comments: Description Survey Code	544		
Extra Comments: Description Survey Code Layer Name	544 PMARK BARR2	Barrier Line Both Directions	
Extra Comments: Description Survey Code Layer Name	544 PMARK BARR2 MRC	Barrier Line Both Directions String centre of line	
Extra Comments: Description Survey Code Layer Name Surveyed Location	544 PMARK BARR2 MRC ADAC 5.0.1	String centre of line N/A – not a mandatory inclusion	
Extra Comments: Description Survey Code Layer Name Surveyed Location	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY)	String centre of line N/A – not a mandatory inclusion ± 10 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm ylineFeature	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm ylineFeature	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Pol	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm ylineFeature	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	544 PMARK BARR2 MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyline 545 PMARK EDGE	String centre of line N/A – not a mandatory inclusion ± 10 mm ± 7 mm String centre of line Line N/A – not a mandatory inclusion Edge Line	

	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:	Supplementary 1 of	Supplementary I Significated actuals	
	Continuity Line		
Description Survey Code	546		
-	PMARK CONT		
Layer Name		Obring a senter of live	
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Turn Line	
Survey Code	547		
Layer Name	PMARK TURN		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Stop Line	
Survey Code	548		
Layer Name	PMARK STOP		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Give Way Line	
Survey Code	550		
Layer Name	PMARK GIVE		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
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Required Survey Accuracy	Horizontal (XY)	± 10 mm	
Troquired Guivey Adduracy	Vertical (Z)	± 7 mm	
Object Type	Polyline	± / 111111	
Asset Class/ADAC Element	Supplementary PolylineFeature		
	Supplementary Folyimer eature		
Extra Comments:		Crosswalk Line	
Description	554	Crosswalk Line	
Survey Code	551		
Layer Name	PMARK CROSS	Tau au	
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description		Parking Line	
Survey Code	552		
Layer Name	PMARK PARK		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description		Exit line at multilane roundabout	
Survey Code	553		
Layer Name	PMARK EXIT		
Surveyed Location	MRC	String centre of line	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description		Wall	
Survey Code	600		
Layer Name	WALL		
Surveyed Location	MRC	String outside edge of wall at ground level	
1	1		

	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:	Supplementary 1 of	y.iiio. catalo
Description		Awning/Eaves
Survey Code	601	,
Layer Name	AWNING	
Surveyed Location	MRC	String bottom, outside edge of awning
,	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
required out vey Accuracy	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	± 20 IIIII
Asset Class/ADAC Element		lylineFeature, Supplementary PolygonFeature
Extra Comments:	Supplementary Fol	ryillier eature, <i>Supplementary</i> r olygoni eature
Description Description		Shed
Survey Code	602	Sileu
Layer Name	SHED	
Surveyed Location	MRC	String outside edge of structure at ground level
Surveyed Location	ADAC 5.0.1	
Di d O A		N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
Object Tons	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	15 5 1 0 0 1 0 0 1 0 B 1 5 1
Asset Class/ADAC Element	Supplementary Pol	lylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:		
Description	000	Building
Survey Code	603	
Layer Name	BUILDING	China a sahida adasa af ahasah usa ah usasa da sahi
Surveyed Location	MRC	String outside edge of structure at ground level
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polygon	
Asset Class/ADAC Element	OpenSpace Buildir	ng
Extra Comments:		
Description		Verandah
Survey Code	604	
Layer Name	VERANDAH	

Surveyed Location	MRC	String the outside edge of verandah at the deck level	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary Poly	Supplementary PolylineFeature, Supplementary PolygonFeature	
Extra Comments:			
Description		Steps	
Survey Code	605		
Layer Name	STEPS		
Surveyed Location	MRC	String each tread	
	ADAC 5.0.1	Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the steps when they form part of a pathway	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	605 Supplementary PathStructure Tran	PolylineFeature, Supplementary PolygonFeature sport PathStructure	
Extra Comments:			
Description		Bridge	
Survey Code	606		
Survey Code Layer Name	606 BRIDGE		
		String the top of the bridge structure recording changes of level i.e., string the bridge deck and the top of the bridge abutments	
Layer Name	BRIDGE	changes of level i.e., string the bridge deck and the	
Layer Name	BRIDGE MRC	changes of level i.e., string the bridge deck and the top of the bridge abutments	
Layer Name	BRIDGE MRC	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal	
Layer Name Surveyed Location	BRIDGE MRC ADAC 5.0.1	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge	
Layer Name Surveyed Location	BRIDGE MRC ADAC 5.0.1 Horizontal (XY)	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm	
Layer Name Surveyed Location Required Survey Accuracy	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature asport PathStructure	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary PathStructure Trans	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature asport PathStructure	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary PathStructure Trans	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature asport PathStructure	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	BRIDGE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary PathStructure Trans 607 SLAB CONC	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature isport PathStructure Concrete Slab	

Required Survey Accuracy	
Object Type Polyline/Polygon	
Agost Class/ADAC Floment 697 Cumulamentan, Dalulina Factura, Cumulamentan, Dalulina	
Asset Class/ADAC Element 607 Supplementary PolylineFeature, Supplementary Polygoni	Feature
BoatingFacility OpenSpace BoatingFacility	
Extra Comments: When the top of a concrete slab is higher than the surrounding use 105 (CH GRADE) to string around the base of the slab	g ground level,
Description Structure – Unclassified	
Survey Code 610	
Layer Name STRUCT UNC	_
Surveyed Location MRC String around the outside of the structu	re
ADAC 5.0.1 Pathway Structure – Using code "PathS create a polyline in the office represent longitudinal centreline of the structure it pathway	ing the
Required Survey Accuracy Horizontal (XY) ± 10 mm	
Vertical (Z) ± 20 mm	
Object Type Polyline/Polygon	
Asset Class/ADAC Element 610 Supplementary PolylineFeature, Supplementary Polygoni PathStructure Transport PathStructure	-eature
Extra Comments:	
Description Swimming Pool	
Description Swimming Pool Survey Code 611	
Survey Code 611	
Survey Code 611 Layer Name SWIM POOL	
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool	
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion	
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm	
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm	ıre
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon	ıre
Survey Code Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature	Jre
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature, Su	ure
Survey Code Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature Extra Comments: Bore/Well	ure
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature, Supplementary Po	Jre
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature Extra Comments: Bore/Well Survey Code 613 Layer Name WELL BORE	Jre
Survey Code 611 Layer Name SWIM POOL Surveyed Location MRC String around the edge of the pool ADAC 5.0.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 10 mm Vertical (Z) ± 7 mm Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature Extra Comments: Bore/Well Survey Code 613 Layer Name WELL BORE Surveyed Location MRC Locate the outside edge of the bore	ure

Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary Pol	Supplementary PolylineFeature, Supplementary PolygonFeature	
Extra Comments:			
Description	Sports Arena/Field		
Survey Code	616		
Layer Name	OVAL SPORT		
Surveyed Location	MRC	String around the perimeter of the open area	
	ADAC 5.0.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 100 mm	
	Vertical (Z)	± 25 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	OpenSpace Activity	/Area	
Extra Comments:			
Description		Retaining Wall	
Survey Code	620		
Layer Name	RET WALL		
Surveyed Location	MRC	String around the outside edge of the retaining wall at top and bottom	
	ADAC 5.0.1	String the outside edge of the retaining wall at ground level. If the retaining wall changes height over its length, the highest point of the wall is adopted as the height.	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	OpenSpace Retain	ingWall	
Extra Comments:			
Description		Tank - General	
Survey Code	625		
Layer Name	TANK ABOVE		
Surveyed Location	MRC	String around outside edge of tank	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy			
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
Required Survey Accuracy	Horizontal (XY) Vertical (Z)	± 10 mm ± 20 mm	
Required Survey Accuracy Object Type	, ,		
	Vertical (Z) Polyline/Polygon		
Object Type	Vertical (Z) Polyline/Polygon	± 20 mm	
Object Type Asset Class/ADAC Element	Vertical (Z) Polyline/Polygon	± 20 mm	
Object Type Asset Class/ADAC Element Extra Comments:	Vertical (Z) Polyline/Polygon	± 20 mm ylineFeature, Supplementary PolygonFeature	

Surveyed Location	MRC	Locate single point at floor level	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:	Also used to record the floor level of manhole chambers and stormwater pits when required in addition to pipe inverts		
Description		Park – Bench Seat	
Survey Code	629		
Layer Name	PARK SEAT		
Surveyed Location	MRC	String outside edge of seat - usually the top of the concrete slab upon which the seat sits	
	ADAC 5.0.1	Using code A629, locate a single point in the centre of the (isolated) seat	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon		
	629 Supplementary PolygonFeature A629 OpenSpace Seat		
Asset Class/ADAC Element		• •	
Asset Class/ADAC Element Extra Comments:		• •	
		• •	
Extra Comments:		Seat	
Extra Comments: Description	A629 OpenSpace S	Seat	
Extra Comments: Description Survey Code	A629 OpenSpace S	Seat	
Extra Comments: Description Survey Code Layer Name	630 PARK EQUIP	Park – Playground Equipment	
Extra Comments: Description Survey Code Layer Name	630 PARK EQUIP MRC	Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate	
Extra Comments: Description Survey Code Layer Name Surveyed Location	630 PARK EQUIP MRC ADAC 5.0.1	Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY)	Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm ± 20 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY)	String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm ± 20 mm ± 500 mm	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Vertical (Z)	Seat Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm ± 20 mm ± 500 mm N/A	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polygon 630 OpenSpace Act	Seat Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm ± 20 mm ± 500 mm N/A	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polygon 630 OpenSpace Act	Seat Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm ± 20 mm ± 500 mm N/A	
Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	630 PARK EQUIP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polygon 630 OpenSpace Act	Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate the centre of each piece of equipment ± 100 mm ± 20 mm ± 500 mm N/A StivityArea ActivityPoint	

Surveyed Location	MRC	String outside edge of the table and chairs – usually the top of the concrete slab when the table and chairs are sitting on an individual slab
	ADAC 5.0.1	Using code A631, locate a single point in the centre of the table
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Polygon	
Asset Class/ADAC Element	631 Supplementary PolygonFeature A631 OpenSpace Table	
Extra Comments:	When multiple tables and chairs are sitting on a concrete slab with other park equipment, string the outside edge of the table and chairs and use 607 (SLAB CONC) to record the location of the single slab	
Description		Park - Barbeque
Survey Code	632	
Layer Name	PARK BBQ	
Surveyed Location	MRC	String the outside edge of the BBQ – usually the top of the concrete slab when the BBQ is sitting on an individual slab
	ADAC 5.0.1	Using code A632, locate a single point in the centre of the BBQ
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Polygon	
Asset Class/ADAC Element	632 Supplementary A632 OpenSpace B	
Extra Comments:		ng on a concrete slab with other park equipment, string the BBQ and use 607 (SLAB CONC) to record the e slab
Description		Park – Rubbish Bin
Survey Code	633	
Layer Name	PARK RUBBI	
Surveyed Location	MRC	String the outside edge of the bin – usually the top of the concrete slab upon which the bin sits
	ADAC 5.0.1	Using code A633, locate a single point in the centre of the bin
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
	Horizontal (XY)	± 500 m
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Required Accuracy for Asset Management Purposes	Vertical (Z)	N/A
Object Type	Polygon	
Asset Class/ADAC Element	633 Supplementary PolygonFeature A633 OpenSpace WasteCollectionPoint	
Extra Comments:		
Description		Park – Shelter
Survey Code	636	
Layer Name	PARK SHELTER	
Surveyed Location	MRC	String the roofline of the shelter
	ADAC 5.0.1	Using code A636, locate a single point in the centre of any Open Space Shelters
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 m
Management Purposes	Vertical (Z)	N/A
Object Type	Polygon	'
Asset Class/ADAC Element	636 OpenSpace SI	
Extra Comments:		
Description		Irrigation Sprinkler Head
Survey Code	640	
Layer Name	IRR SPRINKLER	
Surveyed Location	MRC	Locate the centre of the sprinkler head
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	WaterSupply Irriga	tionFitting
Extra Comments:		
Description		Irrigation Pit
Survey Code	641	
Layer Name	IRR PIT	
Surveyed Location	MRC	Locate the centre of the pit lid
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	ADAC 5.0.1 Horizontal (XY)	Same as MRC ± 10 mm
Required Survey Accuracy		
Required Survey Accuracy Object Type	Horizontal (XY)	± 10 mm
	Horizontal (XY) Vertical (Z)	± 10 mm ± 7 mm
Object Type	Horizontal (XY) Vertical (Z) Point	± 10 mm ± 7 mm

Description	Irrigation Underground	
Survey Code	645	
Layer Name	IRR UNDERG	
Surveyed Location	MRC	Locate the centreline of the pipework
	ADAC 5.0.1	String the centreline of the pipe; Using code A755, locate the centre of any fittings e.g., Tees and Tapping Bands
Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information	Horizontal (XY)	Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record
	Vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record
Object Type	Polyline	
Asset Class/ADAC Element	645 WaterSupply P A755 WaterSupply	
Extra Comments:		
Description		Bus Shelter
Survey Code	650	
Layer Name	BUS SHELTR	
Surveyed Location	MRC	String the outside edge of the shelter – usually the top of the concrete slab upon which the shelter sits
	ADAC 5.0.1	Using code A636, locate single point in centre of bus/general shelter structure
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 mm
Required Accuracy for Asset Management Purposes	Horizontal (XY) Vertical (Z)	± 500 mm N/A
	, ,	
Management Purposes	Vertical (Z)	N/A PolygonFeature
Management Purposes Object Type	Vertical (Z) Polygon 650 Supplementary	N/A PolygonFeature
Management Purposes Object Type Asset Class/ADAC Element	Vertical (Z) Polygon 650 Supplementary	N/A PolygonFeature
Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	Vertical (Z) Polygon 650 Supplementary	N/A PolygonFeature Shelter
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	Vertical (Z) Polygon 650 Supplementary A636 OpenSpace S	N/A PolygonFeature Shelter
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Vertical (Z) Polygon 650 Supplementary A636 OpenSpace S	N/A PolygonFeature Shelter
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Vertical (Z) Polygon 650 Supplementary A636 OpenSpace S 706 EL MARK P	N/A PolygonFeature Shelter Electricity Marker
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Vertical (Z) Polygon 650 Supplementary A636 OpenSpace S 706 EL MARK P MRC	PolygonFeature Shelter Electricity Marker Locate the centre of the marker
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Vertical (Z) Polygon 650 Supplementary A636 OpenSpace S 706 EL MARK P MRC ADAC 5.0.1	PolygonFeature Shelter Electricity Marker Locate the centre of the marker N/A – not a mandatory inclusion

Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:		
Description	Electricity Substation on ground	
Survey Code	707	
Layer Name	EL SUBSTN	
Surveyed Location	MRC	Locate the outside edge of the substation – usually the top of the concrete slab upon which the substation sits
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polygon	
Asset Class/ADAC Element	Supplementary Pol	lygonFeature
Extra Comments:		
Description		Staywire
Survey Code	708	
Layer Name	STAY	
Surveyed Location	MRC	Locate the end of the staywire where it meets the ground and string to the pole
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	lylineFeature
Extra Comments:		
Description		Staypole
Survey Code	709	
Layer Name	EL STAYPOL	
Surveyed Location	MRC	Locate the centre of the pole and record the pole number as vertex text
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 30 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Po	intFeature
Extra Comments:		
Description		Electricity Manhole/Box Strung
Survey Code	710	
Layer Name	EL MH STR	
Surveyed Location	MRC	String around edge of lid
	•	•

ADAC 5.0.1	Using code 716, locate a single point in the centre of the manhole
Horizontal (XY)	± 10 mm
Vertical (Z)	± 7 mm
Polygon	
710 Supplementary	PolygonFeature
716 OpenSpace Ele	ectricalFitting
	Light Pole + no.
711	
EL PP	
MRC	Locate the centre of the pole and record the pole number as vertex text
ADAC 5.0.1	Locate the centre of the pole
Horizontal (XY)	± 30 mm
Vertical (Z)	± 20 mm
Point	
OpenSpace Electric	calFitting
	Electricity Pole Only + no.
712	
EL PP	
MRC	Locate the centre of the pole and record the pole number as vertex text
MRC ADAC 5.0.1	
	number as vertex text
ADAC 5.0.1	number as vertex text Locate the centre of the pole
ADAC 5.0.1 Horizontal (XY)	number as vertex text Locate the centre of the pole ± 30 mm
ADAC 5.0.1 Horizontal (XY) Vertical (Z)	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric 713 EL PLP	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting Electricity Pole with Light + no.
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric 713 EL PLP MRC	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting Electricity Pole with Light + no. Locate the centre of the pole and record the pole number as vertex text
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric 713 EL PLP MRC ADAC 5.0.1	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting Electricity Pole with Light + no. Locate the centre of the pole and record the pole number as vertex text Locate the centre of the pole
ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric 713 EL PLP MRC ADAC 5.0.1 Horizontal (XY)	number as vertex text Locate the centre of the pole ± 30 mm ± 20 mm calFitting Electricity Pole with Light + no. Locate the centre of the pole and record the pole number as vertex text Locate the centre of the pole ± 30 mm
	Vertical (Z) Polygon 710 Supplementary 716 OpenSpace Electric 711 EL PP MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point OpenSpace Electric

Extra Comments:		
Description		Electricity Unclassified
Survey Code	715	
Layer Name	EL UNC	
Surveyed Location	MRC	Locate the centre of the feature
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	OpenSpace ElectricalFitting	
Extra Comments:		
Description		Electricity Pit
Survey Code	716	
Layer Name	EL PIT	
Surveyed Location	MRC	Locate the centre of the pit lid
	ADAC 5.0.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	OpenSpace ElectricalFitting	
Extra Comments:		
Description		Electricity Line Overhead
Survey Code	717	, in the second
	717 EL OVERHEA	
Survey Code		String the overhead line between poles
Survey Code Layer Name	EL OVERHEA	
Survey Code Layer Name	EL OVERHEA MRC	String the overhead line between poles
Survey Code Layer Name Surveyed Location	EL OVERHEA MRC ADAC 5.0.1	String the overhead line between poles N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY)	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyl	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyl Mainly used to record	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm ineFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyl Mainly used to record	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm ineFeature d the sag of overhead lines where the line crosses a
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyl Mainly used to record	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm ineFeature d the sag of overhead lines where the line crosses a
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyl Mainly used to record road	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm ineFeature d the sag of overhead lines where the line crosses a
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	EL OVERHEA MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polyline Supplementary Polyl Mainly used to record road 718 EL UNDERG	String the overhead line between poles N/A – not a mandatory inclusion ± 10 mm ± 20 mm ineFeature d the sag of overhead lines where the line crosses a Electricity Line Underground String the centreline of the cable/conduit, record vertical surveyed location as a note e.g., paint mark

Defends AC 5400 4:0040	<u> </u>	Overlift of averl D. J. 200 marre
Refer to AS 5488.1:2019 Classification of Subsurface		Quality Level B – ± 300 mm Quality Level C – ± 300 mm
Utility Information		Quality Level D – Existing Record
	Vertical (Z)	Quality Level A – ± 50 mm
	vertical (Z)	Quality Level B – ± 500 mm
		Quality Level C – N/A
		Quality Level D – Existing Record
Object Type	Polyline	
Asset Class/ADAC Element	OpenSpace ElectricalConduit	
Extra Comments:		
Description		Electricity Pillar
Survey Code	719	
Layer Name	EL PILLAR	
Surveyed Location	MRC	Locate the centre of the pillar
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	OpenSpace PointFe	eature
Extra Comments:		
Description	Co	ommunications Manhole/Box Strung
Description Survey Code	720	ommunications Manhole/Box Strung
	_	ommunications Manhole/Box Strung
Survey Code	720	String around edge of lid/s
Survey Code Layer Name	720 COMMS MH STR	
Survey Code Layer Name	720 COMMS MH STR MRC	String around edge of lid/s
Survey Code Layer Name Surveyed Location	COMMS MH STR MRC ADAC 5.0.1	String around edge of lid/s N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location	720 COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY)	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy	720 COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT)
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually of	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT)
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually of	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT)
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually of	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT) Communications Pit
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually of the complete state of the	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT) Communications Pit Locate the centre of the pit
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually of the complete state) 721 COMMS PIT MRC ADAC 5.0.1	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT) Communications Pit Locate the centre of the pit N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually companies) 721 COMMS PIT MRC ADAC 5.0.1 Horizontal (XY)	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT) Communications Pit Locate the centre of the pit N/A – not a mandatory inclusion ± 10 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	COMMS MH STR MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Poly For single (usually of the company of the	String around edge of lid/s N/A – not a mandatory inclusion ± 10 mm ± 7 mm /gonFeature concrete) lids, see 721 (COMMS PIT) Communications Pit Locate the centre of the pit N/A – not a mandatory inclusion ± 10 mm ± 7 mm

Description		Communications Pillar
Survey Code	722	
Layer Name	COMMS PILLAR	
Surveyed Location	MRC	Locate the centre of the pillar
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poir	tFeature
Extra Comments:		
Description		Communications Marker
Survey Code	723	
Layer Name	COMMS MARK P	
Surveyed Location	MRC	Locate the centre of the marker
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poir	tFeature
Extra Comments:	-	
Extra Committents.		
Description Description		Communications Pole + no.
	724	Communications Pole + no.
Description	724 COMMS POLE	Communications Pole + no.
Description Survey Code		Communications Pole + no. Locate the centre of the pole and record the pole number as vertex text
Description Survey Code Layer Name	COMMS POLE	Locate the centre of the pole and record the pole
Description Survey Code Layer Name	COMMS POLE MRC	Locate the centre of the pole and record the pole number as vertex text
Description Survey Code Layer Name Surveyed Location	COMMS POLE MRC ADAC 5.0.1	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion
Description Survey Code Layer Name Surveyed Location	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY)	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 725	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 725 COMMS PHONEB	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm tFeature Communications Cabinet Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	COMMS POLE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 725 COMMS PHONEB MRC	Locate the centre of the pole and record the pole number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm tFeature Communications Cabinet Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone box sits

Object Type	Polygon	
Asset Class/ADAC Element	Supplementary Pol	ygonFeature
Extra Comments:		
Description		Communications Unclassified
Survey Code	726	
Layer Name	COMMS UNC	
Surveyed Location	MRC	Locate the centre of the feature
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poi	ntFeature
Extra Comments:		
Description		Communications Lines Overhead
Survey Code	727	
Layer Name	COMMS OVERHE	
Surveyed Location	MRC	String the overhead line between poles
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature
Extra Comments:	Mainly used to reco	ord the sag of overhead lines where the line crosses a
		Communications Lines Underground
Description	,	communications Lines onderground
Description Survey Code	728	communications Lines officerground
Survey Code	728	
Survey Code Layer Name	728 COMMS UNDERG	
Survey Code Layer Name	728 COMMS UNDERG	String the centreline of the cable/conduit
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019	728 COMMS UNDERG MRC ADAC 5.0.1	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	728 COMMS UNDERG MRC ADAC 5.0.1	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019	728 COMMS UNDERG MRC ADAC 5.0.1	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	728 COMMS UNDERG MRC ADAC 5.0.1	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	728 COMMS UNDERG MRC ADAC 5.0.1 Horizontal (XY)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	728 COMMS UNDERG MRC ADAC 5.0.1 Horizontal (XY)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information	COMMS UNDERGOMRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	728 COMMS UNDERG MRC ADAC 5.0.1 Horizontal (XY)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information	COMMS UNDERGOMRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record

Description		Optic Fibre Underground
Survey Code	729	
Layer Name	OPT UNDERG	
Surveyed Location	MRC	String the centreline of the cable/conduit
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm
Refer to AS 5488.1:2019		Quality Level B – ± 300 mm
Classification of Subsurface Utility Information		Quality Level C – ± 300 mm
		Quality Level D – Existing Record
	Vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 500 mm
		Quality Level C – N/A
		Quality Level D – Existing Record
Object Type	Polyline	, , , , , , , , , , , , , , , , , , ,
Asset Class/ADAC Element	Supplementary Polyli	ineFeature
Extra Comments:		
Description		Electricity Conduit Crown
Survey Code	730	
Layer Name	EL CROWN	
Surveyed Location	MRC	Locate the crown of the conduit
	ADAC 5.0.1	N/A – not a mandatory inclusion
		Refer to code 718 (EL UNDERG)
Required Survey Accuracy	Horizontal (XY)	± 50 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Point	Feature
Extra Comments:	Mainly used to record vacuum excavated.	d the location of underground services that have been
Description	(Communications Conduit Crown
Survey Code	731	
Layer Name	COMMS CROWN	
Surveyed Location	MRC	Locate the crown of the conduit
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 50 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Point	Feature
Extra Comments:	Mainly used to record vacuum excavated.	the location of underground services that have been
Description		Optic Fibre Crown
Survey Code	732	

Layer Name	OPT CROWN	
Surveyed Location	MRC	Locate the crown of the conduit
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 50 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:	Mainly used to record vacuum excavated.	d the location of underground services that have been
Description		Gas Manhole/Box Strung
Survey Code	734	
Layer Name	GAS MH STR	
Surveyed Location	MRC	String around edge of lid
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polygon	
Asset Class/ADAC Element	Supplementary Polyg	gonFeature
Extra Comments:		
Description		Gas Valve
Description Survey Code	735	Gas Valve
	735 GAS VALVE	Gas Valve
Survey Code		Cas Valve Locate the centre of the valve
Survey Code Layer Name	GAS VALVE	
Survey Code Layer Name	GAS VALVE MRC	Locate the centre of the valve
Survey Code Layer Name Surveyed Location	GAS VALVE MRC ADAC 5.0.1	Locate the centre of the valve N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY)	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY)	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z)	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point Supplementary Point	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point Supplementary Point	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point Supplementary Point 736 GAS MARK P	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm Feature Gas Marker
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point Supplementary Point 736 GAS MARK P MRC	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm Feature Gas Marker Locate the centre of the marker
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	GAS VALVE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Point Supplementary Point 736 GAS MARK P MRC ADAC 5.0.1	Locate the centre of the valve N/A – not a mandatory inclusion ± 10 mm ± 20 mm ± 50 mm ± 100 mm Feature Gas Marker Locate the centre of the marker N/A – not a mandatory inclusion

Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Gas Unclassified		
Survey Code	737		
Layer Name	GAS UNC		
Surveyed Location	MRC	Locate the centre of the feature	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY) ± 10 mm		
	Vertical (Z)	± 20 mm	
Object Type	Point	` ' '	
Asset Class/ADAC Element	Supplementary Poi	ntFeature	
Extra Comments:			
Description		Gas Underground	
Survey Code	738		
Layer Name	GAS UNDERG		
Surveyed Location	MRC	String the centreline of the pipe	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm	
Refer to AS 5488.1:2019		Quality Level B – ± 300 mm	
Classification of Subsurface Utility Information		Quality Level C – ± 300 mm	
•		Quality Level D – Existing Record	
	Vertical (Z)	Quality Level A – ± 50 mm	
		Quality Level B – ± 500 mm Quality Level C – N/A	
		Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	vlineFeature	
Extra Comments:		,	
Description		Sewer Manhole/Box Strung	
Survey Code	740		
Layer Name	SEW MH STR		
Surveyed Location	MRC	String around edge of lid	
	ADAC 5.0.1	Using code A741, locate a single point representing the centre of chamber	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon		
Asset Class/ADAC Element	740 Supplementary	PolygonFeature	
	A741 Sewerage Ma	A741 Sewerage MaintenanceHole	
Extra Comments:			

Description		Sewer Manhole
Survey Code	741	
Layer Name	SEW MH	
Surveyed Location	MRC	Single point in centre of round manhole lid
	ADAC 5.0.1	Using code A741, locate a single point representing the centre of chamber
Required Survey Accuracy	Horizontal (XY) ± 30 mm	
	Vertical (Z) ± 7 mm	
Required Accuracy for Asset	Horizontal (XY) ± 50 mm	
Management Purposes	Vertical (Z) ± 100 mm	
Object Type	Point	
Asset Class/ADAC Element	741 Supplementary F	
Extra Comments:	If part of the chamber is above the surrounding ground level, string around the top edge of the chamber using 607 (SLAB CONC) and string around the chamber at ground level using 105 (CH GRADE)	
Description		Sewer Unclassified
Survey Code	742	
Layer Name	SEW UNC	
Surveyed Location	MRC	Locate the centre of the feature
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Point	Feature
Extra Comments:		
Description		Sewer Underground
Survey Code	743	
Layer Name	SEW UNDERG	
Surveyed Location	MRC	String the centreline of the pipe, record vertical surveyed location as a note e.g., paint mark on surface
	ADAC 5.0.1	String the centreline of the pipe using code 743 for pipes and code A743 for connections breaking the polyline where there are changes in pipe size, material, class embedment, direction etc.,; Using code A742, locate the centre of any fittings
Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information	Horizontal (XY)	Quality Level A $-\pm$ 50 mm Quality Level B $-\pm$ 300 mm Quality Level C $-\pm$ 300 mm Quality Level D $-$ Existing Record
	Vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 500 mm

		Quality Level C – N/A	
		Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	743 Sewerage PipeNonPressure, Sewerage PipePressure A743 Sewerage Connection A742 Sewerage Fitting		
Extra Comments:			
Description		Sewer – Rising Main Valve	
Survey Code	744		
Layer Name	SEW VALVE		
Surveyed Location	MRC	Locate the centre of the valve lid	
	ADAC 5.0.1	Using code A744, locate the centre of the valve body	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point		
Asset Class/ADAC Element		744 Supplementary PointFeature A744 Sewerage Valve	
Extra Comments:			
Description		Sewer Invert	
Survey Code	745		
Layer Name	SEW INV		
Surveyed Location	MRC	Locate invert of pipe, record diameter as vertex text	
	ADAC 5.0.1	NA – not a mandatory inclusion	
	ADAC 5.0.1	NA – not a mandatory inclusion Refer to code 743 (SEW UNDERG)	
Required Survey Accuracy	ADAC 5.0.1 Horizontal (XY)	_	
Required Survey Accuracy		Refer to code 743 (SEW UNDERG)	
Required Survey Accuracy Object Type	Horizontal (XY)	Refer to code 743 (SEW UNDERG) ± 10 mm	
	Horizontal (XY) Vertical (Z)	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm	
Object Type	Horizontal (XY) Vertical (Z) Point	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm	
Object Type Asset Class/ADAC Element	Horizontal (XY) Vertical (Z) Point	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm	
Object Type Asset Class/ADAC Element Extra Comments:	Horizontal (XY) Vertical (Z) Point	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm ntFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description	Horizontal (XY) Vertical (Z) Point Supplementary Point	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm ntFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Horizontal (XY) Vertical (Z) Point Supplementary Point 746	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm ntFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Point Supplementary Point 746 SEW CROWN	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm ntFeature Sewer Crown	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Point Supplementary Point 746 SEW CROWN MRC	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm The second seco	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Point Supplementary Point 746 SEW CROWN MRC ADAC 5.0.1	Refer to code 743 (SEW UNDERG) ± 10 mm ± 7 mm The second seco	

Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:	Mainly used to record the location of underground services that have been vacuum excavated.		
Description	Sewer Vent Pole		
Survey Code	747		
Layer Name	SEW VENT		
Surveyed Location	MRC Locate the centre of vent pole		
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description		Water Manhole/Box Strung	
Survey Code	750		
Layer Name	WAT MH STR		
Surveyed Location	MRC	Locate edge of the lid	
	ADAC 5.0.1	Using code A750, locate a single point representing the centre of chamber	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Polygon		
Asset Class/ADAC Element	''	750 Supplementary PolygonFeature A750 WaterSupply MaintenanceHole	
Extra Comments:			
Description		Water Valve	
Survey Code	751		
Layer Name	WAT VALVE		
Surveyed Location	MRC	Locate the centre of the valve lid	
	ADAC 5.0.1	Using code A751, locate the top of spindle	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point		
Asset Class/ADAC Element	751 Supplementary PointFeature A751 WaterSupply Valve		
Extra Comments:			

Description		Water Tap	
Survey Code	752		
Layer Name	WAT TAP		
Surveyed Location	MRC	Locate the centre of the tap post	
	ADAC 5.0.1	Same as MRC, otherwise locate centre of feature	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	WaterSupply Servi	WaterSupply ServiceFitting	
Extra Comments:	Also used to record	Also used to record the location of beach showers	
Description		Fire Hydrant	
Survey Code	753		
Layer Name	WAT HYDRNT		
Surveyed Location	MRC	Locate the centre of the hydrant lid	
	ADAC 5.0.1	Using code A753, locate the centre of the vertical hydrant branch	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point	•	
Asset Class/ADAC Element	753 Supplementary A753 WaterSupply		
Extra Comments:			
Description		Water Meter	
Survey Code	754		
Layer Name	WAT METER		
Surveyed Location	MRC	Locate centre of meter	
	ADAC 5.0.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point		
Asset Class/ADAC Element	WaterSupply Meter	r	
Extra Comments:			
Description		Water Unclassified	
Survey Code	755		
Layer Name	WAT UNC		

Surveyed Location	MRC	Locate centre of feature
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poi	ntFeature
Extra Comments:	,	
Description		Water Underground
Survey Code	756	Tracer Struct growth
Layer Name	WAT UNDERG	
Surveyed Location	MRC	String the centreline of the pipe, record vertical
Surveyed Location	MRC	surveyed location as a note e.g., paint mark on surface
	ADAC 5.0.1	String the centreline of the pipe; Using code A755, locate the centre of any fittings e.g., Tees and Tapping Bands
Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm
Refer to AS 5488.1:2019		Quality Level B – ± 300 mm
Classification of Subsurface Utility Information		Quality Level C – ± 300 mm
Clinty Innormation		Quality Level D – Existing Record
	Vertical (Z)	Quality Level A – ± 50 mm
		Quality Level B – ± 500 mm
		Quality Level C – N/A
		Quality Level D – Existing Record
Object Type	Polyline	
Asset Class/ADAC Element	WaterSupply Pipe	
Extra Comments:		
Description		Water – Reservoir
Survey Code	757	
Layer Name	WAT RESERV	
Surveyed Location	MRC	String chords around the outside edge of the reservoir at ground level
	ADAC 5.0.1	Locate a single point in the centre of the tank
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	757 Supplementary	PolylineFeature, Supplementary PolygonFeature
	A757 WaterSupply	StorageTank
Extra Comments:		
Description	Watermain Crown	

Survey Code	758		
Layer Name	WAT CROWN		
Surveyed Location	MRC	Locate the crown of the pipe	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
		Refer to code 756 (WAT UNDERG)	
Required Survey Accuracy	Horizontal (XY)	± 50 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:	Mainly used to record the location of underground services that have been vacuum excavated.		
Description	Water Marker		
Survey Code	759		
Layer Name	WAT MARK P		
Surveyed Location	MRC	Locate the centre of the marker	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description		Water Service	
Survey Code	760		
Layer Name	WAT SERVICE		
Surveyed Location	MRC	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface	
	ADAC 5.0.1	String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps	
Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm	
Refer to AS 5488.1:2019 Classification of Subsurface		Quality Level B – ± 300 mm	
Utility Information		Quality Level C – ± 300 mm Quality Level D – Existing Record	
	Vertical (Z)	•	
	vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 500 mm	
		Quality Level C – N/A	
		Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	WaterSupply Service	WaterSupply Service	
Extra Comments:			
Description		Unclassified Pit	

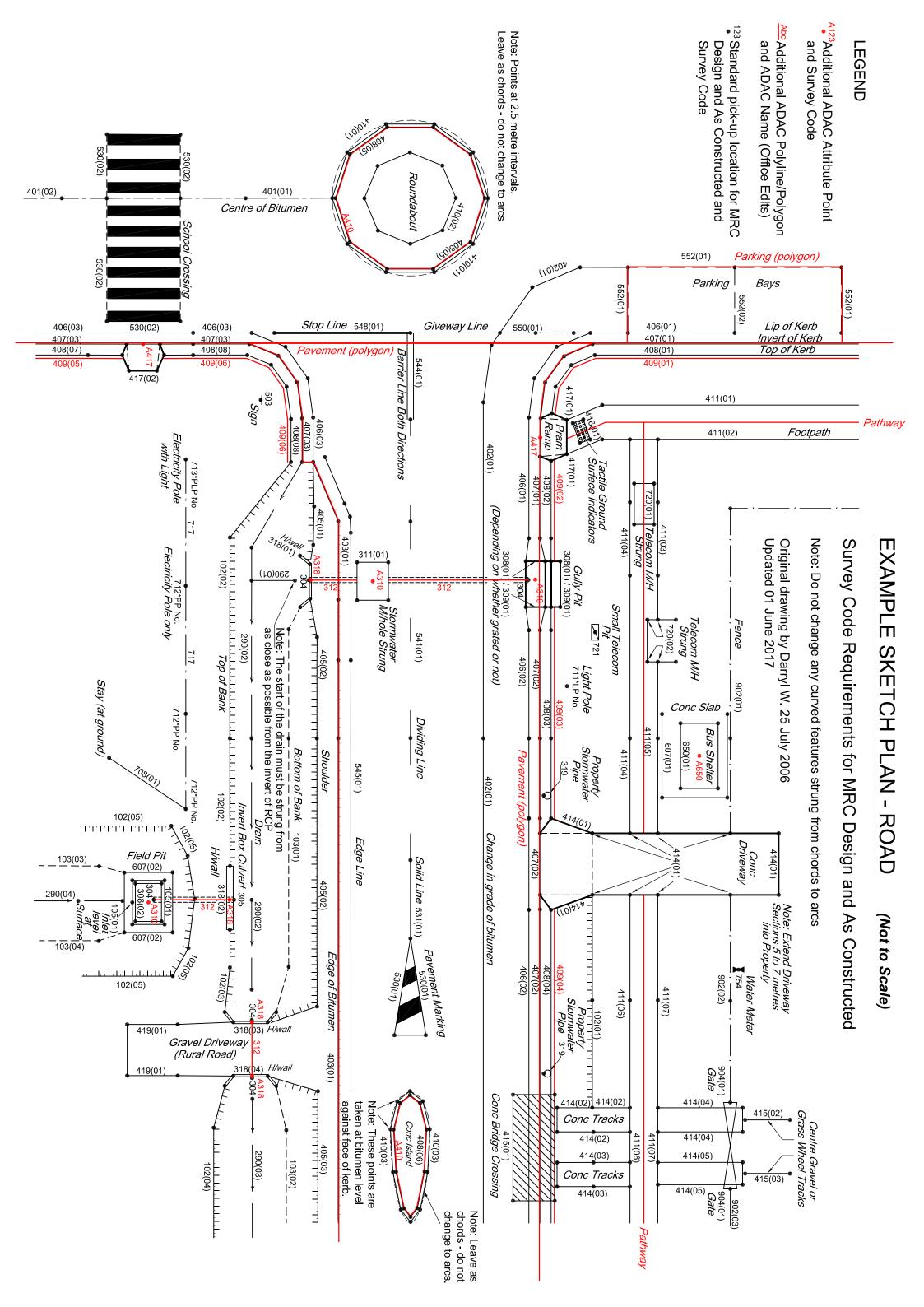
Survey Code	762	
Layer Name	UNCL PIT	
Surveyed Location	MRC	Locate the centre of the pit
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poir	tFeature
Extra Comments:		
Description	Unclassified Pole	
Survey Code	763	
Layer Name	UNCL POLE	
Surveyed Location	MRC	Locate the centre of the pole
	ADAC 5.0.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:		
	Unclassified Utility	
Description		Unclassified Utility
Description Survey Code	764	Unclassified Utility
	764 UNCL UTILI	Unclassified Utility
Survey Code		Unclassified Utility Locate the centre of the utility
Survey Code Layer Name	UNCL UTILI	
Survey Code Layer Name	UNCL UTILI MRC	Locate the centre of the utility
Survey Code Layer Name Surveyed Location	UNCL UTILI MRC ADAC 5.0.1	Locate the centre of the utility N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY)	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Poin	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 765	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 765 UNCL MHSTR	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Unclassified Manhole/Box Strung
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 765 UNCL MHSTR MRC	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Unclassified Manhole/Box Strung String around edge of lid
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 765 UNCL MHSTR MRC ADAC 5.0.1	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Unclassified Manhole/Box Strung String around edge of lid N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	UNCL UTILI MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 765 UNCL MHSTR MRC ADAC 5.0.1 Horizontal (XY)	Locate the centre of the utility N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Unclassified Manhole/Box Strung String around edge of lid N/A – not a mandatory inclusion ± 10 mm

Extra Comments:			
Description	Railway Line		
Survey Code	801		
Layer Name	RLY LINE		
Surveyed Location	MRC	String along top of each track	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Railways Boom Gate		
Survey Code	802		
Layer Name	RLY BOOMGA		
Surveyed Location	MRC	Locate the centre of the support post of the boom gate	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description		Railways Signals Pole	
Survey Code	803		
Layer Name	RLY SIGPOL		
Surveyed Location	MRC	Locate the centre of the pole	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Poi	ntFeature	
Extra Comments:		Railways Signal Box	
Description		Railways Signal Box	
	804	Railways Signal Box	
Description	804 RLY SIGBOX	Railways Signal Box	
Description Survey Code		Railways Signal Box Locate the centre of the box	
Description Survey Code Layer Name	RLY SIGBOX		
Description Survey Code Layer Name	RLY SIGBOX MRC	Locate the centre of the box	

Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Railways Switch		
Survey Code	805		
Layer Name	RLY SWITCH		
Surveyed Location	MRC	Locate the centre of the switch	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description		Railways Unclassified	
Survey Code	806		
Layer Name	RLY UNC		
Surveyed Location	MRC	Locate the centre of the feature	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Pol	intFeature	
Extra Comments:			
Description		Cattle Grid	
Survey Code	901	901	
Layer Name	GRID		
Surveyed Location	MRC	String edge of cattle grid at road level	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon	Polygon	
Asset Class/ADAC Element	Supplementary Pol	ygonFeature	
Extra Comments:			
Description		Fence	
Survey Code	902		
Layer Name	FENCE	-	
Surveyed Location	MRC	String along fence at ground level	
	ADAC 5.0.1	Same as MRC; preferably record point at each upright. Use where appropriate to generate a	

		polygon in the office representing an open space with the code "OpenSpaceArea"	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	902 OpenSpace Ba	rrierContinuous	
	OpenSpaceArea C	OpenSpaceArea OpenSpace OpenSpaceArea	
Extra Comments:			
Description		Fence Post – Isolated	
Survey Code	903		
Layer Name	FENCE POST		
Surveyed Location	MRC	Locate the centre of the post	
	ADAC 5.0.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace BarrierPoint		
Extra Comments:			
Description		Gate	
Survey Code	904		
Layer Name	GATE		
Surveyed Location	MRC	Locate both sides of gate opening	
	ADAC 5.0.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	ADAC 5.0.1 Horizontal (XY)	N/A – not a mandatory inclusion ± 10 mm	
Required Survey Accuracy		•	
Required Survey Accuracy Object Type	Horizontal (XY)	± 10 mm	
	Horizontal (XY) Vertical (Z)	± 10 mm ± 20 mm	
Object Type	Horizontal (XY) Vertical (Z) Polyline	± 10 mm ± 20 mm	
Object Type Asset Class/ADAC Element	Horizontal (XY) Vertical (Z) Polyline	± 10 mm ± 20 mm	
Object Type Asset Class/ADAC Element Extra Comments:	Horizontal (XY) Vertical (Z) Polyline	± 10 mm ± 20 mm ylineFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description	Horizontal (XY) Vertical (Z) Polyline Supplementary Pol	± 10 mm ± 20 mm ylineFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Horizontal (XY) Vertical (Z) Polyline Supplementary Polymentary	± 10 mm ± 20 mm ylineFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Polyline Supplementary Polymore 905 BOLLARD	± 10 mm ± 20 mm ylineFeature Bollard	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Polyline Supplementary Polymore 905 BOLLARD MRC	± 10 mm ± 20 mm ylineFeature Bollard Locate the centre of the bollard	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Polyline Supplementary Polymore 905 BOLLARD MRC ADAC 5.0.1	± 10 mm ± 20 mm ylineFeature Bollard Locate the centre of the bollard Same as MRC	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Polyline Supplementary Polymer 905 BOLLARD MRC ADAC 5.0.1 Horizontal (XY)	± 10 mm ± 20 mm ylineFeature Bollard Locate the centre of the bollard Same as MRC ± 10 mm	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	Horizontal (XY) Vertical (Z) Polyline Supplementary Polymer 905 BOLLARD MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	± 10 mm ± 20 mm ylineFeature Bollard Locate the centre of the bollard Same as MRC ± 10 mm ± 20 mm	

APPENDIX A EXAMPLE SKETCHES OF DETAIL CODES



LEGEND

A123 Additional ADAC Attribute Point and Survey Code

Abc Additional ADAC Polyline/Polygon and ADAC Name

Standard pick-up location for MRC Design and As Constructed and Survey Code

EXAMPLE SKETCH PLAN - SERVICES

(Not t

to Scale)

Note: Do not change any curved features strung from chords to arcs

Survey Code Requirements for MRC Design and As Constructed

01 June 2017

