

City of Kamloops Standard Survey Requirements

Legend: ✓ = Yes x = No ✓ = only if changed from design

Category	Feature	Design Survey Pickup of Existing Features	Record Survey Pickup of New Features	Comments
Land	City Property	✓	✓	
	Site Improvement Light Pole	✓	✓	3 Points around Pole
	Fence	✓	✓	
	Site Improvement Wall	✓	✓	Top & Bottom
	Columbarium	✓	x	
	Bollard	✓	✓	
	Gate	✓	✓	
	Hard Surface	✓	✓	
	Dispenser	✓	✓	
	Bike Jump	✓	✓	
	Flag Pole	✓	✓	
	Fountain	✓	✓	
	Site Improvement Bench	✓	✓	
	Garbage Can	✓	✓	
	Planter	✓	✓	
	Site Improvement No Post	✓	✓	
	Bleacher	✓	✓	
	Picnic Table	✓	✓	
	Playground	✓	✓	Outline only
	Site Improvement Curb	✓	✓	
	Site Improvement Sign	✓	✓	
	Site Improvement Sign Support	✓	✓	
	Site Improvement Sidewalk	✓	✓	
	Methane Vent	✓	✓	
	Bike Baffle	✓	✓	
	Turf	x	x	
	Landscape Bed	✓	✓	
	Scoreboard Sign	✓	✓	
Site Improvement Weather Station	✓	✓		
Weigh Scale	✓	✓		
Building	City Building	✓	✓	
	Building Roof	x	x	
	Building HVAC	x	x	
	Building Mechanical Equipment	x	x	
	Building Conveying Device	x	x	
	Building Life Safe System	x	x	
	Building Life Safe System Device	x	x	
	Building Plumbing Fixture	x	x	
	Building Electrical Service	x	x	
	Building Electrical Equipment	x	x	
	Building Lighting	x	x	
	Transformer	x	x	
	Switch Gear	x	x	
	Building Door	✓	✓	
	Building Flooring	x	x	
Building Siding	x	x		
Equipment	Furniture	x	x	
	Equipment Powered	x	x	
	Equipment Operational	x	x	
	Appliance	x	x	
	Pooled Asset	x	x	
	Vehicle	x	x	
	KFR Vehicle	x	x	

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Roadworks	Street (Subsurface)	x	x		
	Asphalt Street and driveway extents	√	☑		
	Gravel Street	√	☑		
	Stairs	√	√		
	Bus Shelter	√	☑		
	Traffic Light Sensor	x	☑		
	Traffic Light Coordinator	x	☑		
	Conduit	√	x		
	Junction Box	√	√		
	Sign or Sign Support	√	√		
	Sidewalk and letdowns	√	☑		
	Curb and letdowns	√	☑		
	Light Pole	√	√	3 Points around pole	
	No Post	√	√	All changes in alignment	
	Parking Meter	√	√		
	Parking Ticket	√	√		
	Electrical Line	√	x		
	Guardrail	√	☑		
	Wall	√	☑	All changes in alignment, top and bottom	
	Bench	√	☑		
	Weather Station	√	☑		
	Water	Bridge	√	√	
Paint lines		√	☑		
Concrete pads and aprons		√	☑		
Well		√	√		
Settling Tank		√	√		
Treatment Plant		√	√		
Pressurized Main		x	√	All changes in hz align. All changes in grade (max 20m spacing unless installation is constant grade using a line laser)	
Service Line		x	x		
Hydrant and Hydrant Valve		√	√	Top of nut	
System Valve		√	√	Top of nut and cover	
Control Valve		√	√	Top of nut and cover	
Stand Pipe		√	√	Top of nut and cover	
Meter Pit		√	√	Cover	
Water Cathodic Protection		√	√	Cover	
Buried Water Fitting (not attached to valve)		x	√		
Main Stop (if not perpendicular to curb stop)		x	√		
Network Structure (booster station)		√	☑		
Service Point (curb stop)		√	√	Cover	
Water Reservoir		√	√		
Telemetry		√	☑		
Irrigation Line		x	x		
Irrigation Valve		√	√	Cover	
Irrigation Head		√	√	Cover	
Irrigation Controller		√	√	Cover	
Irrigation Backflow Prevention Device		√	√	Cover	
Air Valve		√	√	Top of pipe and cover	
Sanitary		Gravity Main	√	√	all changes in hz align
		Pressurized Main	x	√	All changes in hz align. All changes in grade (max 20m spacing unless installation is constant grade using a line laser)
	Sanitary Manhole	√	√	Inverts and cover	
	Service Line	x	x		
	System Valve	√	√	Top of nut and cover	
	Control Valve	√	√	Top of nut and cover	
	Buried Sanitary Fitting (not attached to valve)	x	√		
	Wyes and tees	x	√		
	Sanitary Cathodic Protection	√	√	Cover	
	Clean Out	√	√	Invert and cover	
	Detention Pond	√	☑		
	Network Structure (lift station)	√	☑		
	Service Point (inspection chamber)	√	√	Invert and cover	

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Sanitary cont'd	Sanitary Reservoir	✓	✓	
	Telemetry	✓	✓	
	Septic Field	x	✓	
	Waste Recycle	✓	✓	
	Treatment Plant	✓	✓	
	Compressor	x	x	
	Electrical Kiosk	✓	✓	
	Pump	x	x	
	Pump Motor	x	x	
	Standby Power	x	x	
	Sump Pump	x	x	
Drainage	Air Valve	✓	✓	Top of pipe and cover
	Gravity Main	✓	✓	all changes in hz align
	Pressurized Main	x	✓	All changes in hz align. All changes in grade (max 20m spacing unless installation is constant grade using a line laser)
	Drainage Manhole including sump	✓	✓	Inverts and cover
	Service Line	x	x	
	System Valve	✓	✓	Top of nut and cover
	Control Valve	✓	✓	Top of nut and cover
	Buried Drainage Fitting (not attached to valve such as wyes and tees if not perp to catch basin)	x	✓	
	Catch Basin including sump	✓	✓	Invert (if non standard) and grate
	Channel	✓	✓	
	Clean Out	✓	✓	Invert and cover
	Detention Pond	✓	✓	
	Inlet	✓	✓	Pipe invert, diameter, and material
	Network Structure (lift station)	✓	✓	
	Service Point (inspection chamber)	✓	✓	Invert and cover
	Outlet	✓	✓	Pipe invert, diameter, and material
	Rock Pit including sump	✓	✓	Pipe invert and cover
	Telemetry	✓	✓	
	Ground Water Monitor Dev.	✓	✓	Top of casing and ground
	Dike	✓	✓	Top & Toe of berms & ground
	River Gauge	✓	✓	
	Electrical Kiosk	✓	✓	
	Pump	x	x	
	Pump Motor	x	x	
	Standby Power	x	x	
	Sump Pump	x	x	
	Air Valve	✓	✓	Top of pipe and cover
Communication	Line Structure	✓	x	
	Point Structure	✓	✓	
	Fibre Cable	✓	x	
External Utilities	Kiosk/Vault/Junction Box/Pedestal	✓	✓	Not required for GIS
	Utility Pole, Anchor Wire	✓	✓	Not required for GIS, 3 points around pole
	Valve	✓	✓	Not required for GIS

To Assist Contractors and Consultants with the completion of Design surveys and Record surveys to City of Kamloops Standards, the City of Kamloops provides a set of Civil 3D Templates and Files on the City website under Technical Resources.

Contractor's submission requirements of record surveys for City of Kamloops awarded projects for completion of record drawings are as follows:

- Record Survey CSV file using City of Kamloops survey codes (+/- 5mm precision unless otherwise approved by City)
- AutoCAD Civil 3D drawing, and Drawing PDF of Record Survey CSV using City of Kamloops template

Consultant's submitting Engineering Record Drawings to City of Kamloops Refer to - Record Drawing Submittal Guidelines/Procedures on the City website under Technical Resources.