Table of Minimum Offsets

The following table of offsets gives the minimum required offsets for infrastructure across the major reviewing sections. Each tab is all-inclusive, meaning that all the offsets are self-contained in each tab. We have several tabs to facilitate ease of use, so if a surface drawing is being drafted or reviewed then the Complete Streets tab can be used easily, or if a landscaping drawing is being drafted or reviewed then the Landscaping tab can be used. These offsets are applicable to most cases. However, they may vary for infill or non-standard situations as existing conditions may require unique offsets, as determined by the City.

DISCLAIMER:

All information in this Table of Offsets has been gathered and amalgamated from Volumes 2,3,4,5,6 and 7 of the City and EPCOR Design and Construction Standards. Specific source volumes are specified in each tab of this workbook. As such, this is information only and does not require engineering authentication.

Version History

July 2, 2025 Version:

Various changes to EPCOR Water offsets to update offsets per new updated EPOR Water Standards

January 14, 2022 Version:

Disclaimer added and source volumes. Minor format changes.

June 30, 2021 Version:

Added "DPS" tab for Distribution Piping Systems for capital projects only

April 28, 2021 Version:

Various changes to EPCOR Water offsets to update offsets per new updated EPOR Water Standards

Pre April 28, 2021 version:

Originally released Table of Offsets

		omain: Complete Streets (Volume 2)		
Domain Infrastructure	Subdomain Infrastructure	domain: Complete Streets (Volume 2) Minimum Clearance	Notes	Data Source
Intersection edge of pavement	Traffic control cabinet	Located outside the Clear Sight		(Volumes from Standards)
Commercial/Industrial access edge of pavement	Traffic control cabinet	Triangles to allow for required sightlines 10.0m		
Curb Ramps Shared-use paths, walkways, and sidewalks	Commercial Crossing Property line	1.0m 0.3m	Flare to flare Property line to edge of shared-use path, walkway,	2
	•	domain: EPCOR Drainage (Volume 3)	or sidewalk	
Domain Infrastructure Face of Curb	Subdomain Infrastructure Sanitary and storm mains	Minimum Clearance 1.5m	Notes	
Curb Ramps	Catchbasins and catchbasin manholes	0.5m	4.5 m from the odge of the bug stop and Dusiness	
Bus stop pad	Storm and sanitary services	1.5m	1.5 m from the edge of the bus stop pad, Drainage prefers sewer services to not to be buried under the bus stop pad	2,3
Driveways Intersection	Catchbasins Catchbasins	1.5m Locate at End of Curve OR Beginning of	Edge of driveway.	
		Curve and not within the curb ramp and crosswalk		
Domain Infrastructure	Subdomain Infrastructure	bdomain: EPCOR Water (Volume 4) Minimum Clearance	Notes	
PL Face of Curb (FOC)	Curb cock Watermain	0.1m 1.5m (<= 400 mm mains)	0.3m from PL for side lot services	
FOC	Watermain Watermain in alley, utility lot,	2.0m (> 400 mm mains)	Mains in walkways are to be dimensioned to side	
PL PL	walkway, or URW Water services	1.2m (preferably 2.0m) Extend service into lot 1.5m beyond the edge of the shallow utility easement	PL. If the water service enters a parcel where there isn't a shallow utility easement, the water service shall	
		eage of the shallow utility easement	extend into the lot a minimum of 1.5m beyond the property line.	
PL FOC	Flushpoint Hydrant	1.5m Preferred: 3.0m for any ROW with	Plug is 5.0m from PL If the monolithic walk is greater than 2.5 m wide,	
		Monowalk. Min 1.5 m - max 3.5 m offset	include a 90 degree bend in the hydrant lead and locate the hydrant and the control valve 0.3 m	
FOC	Hydrant	acceptable. 1.5m for any ROW with Separate Walk	behind the back edge of the walk. Where the walk is greater than 2.0 m into the	
Edge of Walk	Hydrant	0.3m	boulevard or where no walk exists.	2,4
Edge of Bus Stop	Hydrant	6.0m	Hydrants located within 45 m of the approach side of the bus stop or 15 m of the departure side must	
Edge of Driveway	Hydrant	To be located on the engagite let live	be labeled "To be white disked (Fire Dept. Use Only) at commissioning."	
Edge of Driveway	Hydrant	To be located on the opposite lot line from driveway	If unable, minimum 1.5m (preferably 2.0m)	
Corner of intersection	Hydrant	To be installed at the beginning of the	Where not in conflict with item 4.2.14.	
Alley	Valves	curve of the curb return 6.0m of the approach & 3.0m of the departure		
Arterial road & collector road intersection	Valves Valves	30m (edge to edge)		
Property Line Utility lot, walkway or URW	Valves	To be located on the projection of PL, where possible or dimension to a PL 0.5m from PL or its projection		
Domain Infrastructure		ubdomain: Landscaping (Volume 5) Minimum Clearance	Notes	
FOC (local)	Trees (centre of tree)	1.0m, 1.25m preferred	Trees to be placed in line with or further from Face of Curb than Streetlight Poles.	
FOC (Collector)	Trees (centre of tree)	1.25m / 1.65m	1.25 m ROW < 20m, 1.65 m ROW > 20m. Trees to be placed in line with or further from Face of Curb	
FOC (Arterial)	Trees (centre of tree)	2.0m	than Streetlight Poles. Trees to be placed in line with or further from Face	
Intersection	Trees (centre of tree)	15m	of Curb than Streetlight Poles.	
Edge of Sidewalk, Driveway, Walkway, and Shared-Use Path	Trees (centre of tree)	1.0m, preferred 1.5m	Chruha at maturity	
Edge of Sidewalk, Walkway and Shared-Use Path Edge of walk	Shrubs Litter receptacle	0.5m 0.6m	Shrubs at maturity	
Edge of commercial or industrial access	Trees (centre of tree)	1.5m		
Back of walkway Back of walkway	Benches Picnic Table	1.0m 1.0m		2.5
Boulevard curb	Mulched beds	2.5m	Within boulevard curb along arterial and collector roadways.	2,5
Stop signs and yield signs All other signs	Trees (centre of tree) Trees (centre of tree)	3.5m 2.0m		
Transit zones/bus pads	Trees (centre of tree)	3.5m	In addition to the 3.5 m clearance, ensure trees do not create sightline obstructions for vehicles	
Property line	Trees (centre of tree, in walkway or shared-use path ROW)	1.0m	approaching transit zones.	
Property line	Trees (centre of tree, in boulevard)	1.0m		
Property Line	Deciduous trees (in open parkland)	2.5m	From centre of tree, in open parkland where there is turf between the fence and the tree rather than a	
Property Line	Coniferous trees (in open parkland)	2.5m	From edge of mature spread of tree, in open parkland where there is turf between the fence and	
	,	bdomain: Streetlighting (Volume 6)	the tree rather than a bed.	
Domain Infrastructure FOC	Subdomain Infrastructure Streetlight Pole (centre of pole)	Minimum Clearance 1.25m along Local Streets; 1.25m along	Notes	
	(1.1	Collectors; 2.0m along Arterials; 2.6m for monowalks along Local and		
FOC	Made to the state of the state	Collector Streets, 3.0m for monowalks adjacent to School Sites	Centerline of transh	
FOC Intersection	Multiparty trench Streetlight Pole (centre of pole)	2.5m 0.9m	Centerline of trench	2,6
Edge of sidewalk or walkway Edge of shared-use paths	Streetlight Pole (centre of pole) Streetlight Pole (centre of pole)	0.5m / preferred 1.0m 0.5m / preferred 1.5m		
Driveway (Residential)	Streetlight Pole (centre of pole)	0.5m with standard base and 0.75m with utility box		
Driveway/Access (Commerical or Industrial)		1.5m bdomain: EPCOR Power (Volume 7)		
Domain Infrastructure FOC	Subdomain Infrastructure Multiparty trench	Minimum Clearance 2.5m	Notes Centerline of trench	
FOC	Transformer	SEE NOTES	Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design	
Corner cut	Power crossings	3.0m	and Construction Standards.	
Corner cut Corner cut	Transformer 1-phase or 3-phase cubicle	6.0m 30m		
Bus stop pad Road crossing	Transformer/Switching cubicle Transformer/Switching cubicle	3.0m 3.0m	From edge of bus pad to edge of base From centre to closest duct in crossing	
Transportation control devices and signs Bus stop pad	Pad-mounted equipment Power crossings	3.0m 3.0m	From edge of pad From edge of bus pad to crossing	2,7
Residential driveways Intersection edge of pavement	Transformer Transformer/Switching cubicle	2.0m 15m	From edge of equipment to driveway From centre of transformer/switching cubicle	
Commercial/Industrial access edge of pavement	Transformer/Switching cubicle	10m		
Edge of walkway property line PL	Pad-mounted equipment Main power/Multiparty trench	3.0m 1.0m	From edge of equipment to edge of walkway property line Actual required minimum offset may change	
. -			depending on sidewalk type and alignmnt of shallow utilities.	
Domain Infrastructure	Subdomain Infrastructure	Subdomain: Gas Minimum Clearance	Notes	
FOC	Multiparty trench	2.5m Subdomain: Telecommunications	Centerline of trench	2
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes Centerline of trench	•
FOC	Multiparty trench	2.5m Subdomain: General	Centerline of trench	2
		1		
Domain Infrastructure Location of all surface appurtenances associated	Subdomain Infrastructure	Minimum Clearance Located outside of any sidewalks,	Notes	
			Notes	2

	Doma	ain: EPCOR Drainage (Volume 3)		
		omplete Streets and Roadways (Volun	ne 2)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes from Standards)
Storm and sanitary mains	Face of Curb	1.5m		,
Storm and sanitary services	Bus stop pad	1.5m	1.5 m from the edge of the bus stop pad, Drainage prefers sewer services are not to be buried under the bus stop pad	
Catchbasins and catchbasin manholes	Curb Ramps	0.5m		2,3
Catchbasins	Driveways	1.5m	Edge of driveway.	
Catchbasins	Intersection	Locate at End of Curve OR Beginning of Curve and not within the curb ramp and crosswalk		
	Subd	omain: EPCOR Water (Volume 4)		
Domain Infrastructure	Subdomain Infrastructure		Notes	
Sanitary & Storm Main	Watermain	2.5m (preferably 3.0m)	Additional clearance may be required at the Engineer's (EWSI) discretion, including when pipe diameters are greater than 300 mm.	1
Sanitary Main, Storm Main and Catch Basin Leads Crossing	Watermain	(edge to edge) 0.5 m when crossing over water main (edge to edge)	Catch basin leads must be shown where they cross water mains.	
MH	Watermain	2.5m		
Oversized MH (Ø1800 & larger)	Watermain	3.0m	From the centreline to centreline (watermains <= 600 mm)	
Catch Basin	Watermain	1.5m		_
Catch Basin lead	Watermain	2.5m (preferably 3.0m)		_
Storm Sanitary service	Watermain	2.5m (preferably 3.0m)	When paralleling main	4
Storm and Sanitary service crossing	Watermain	0.15m (edge to edge)	Vertical Crossing	4
Storm Sanitary service Storm Sanitary service	Large water service, Ø100 & larger Water Services (50mm and smaller)	0.3 m	Provide dimension from PL to services. Large water service to be in own trench. For typical dual and single services for single family, duplex, and semi-detached lots. Services 50mm and smaller to be laid in same trench as storm and sanitary services, to the right of the sanitary service when facing lot to be served. Water services 100mm and larger to be treated as watermains	
MH shaft	Water Services (50mm and	2.0m		3,4
Catch Basin	smaller) Water Services (50mm and	2.5m	Water services 100mm and larger to be treated as watermains Water services 100mm and larger to be treated as watermains	
Catch Basin lead	smaller) Water Services (50mm and smaller)	2.5m	Water services 100mm and larger to be treated as watermains	_
Storm and Sanitary Main	Water Services (50mm and smaller)	1.5m (2.5m preferred)	For small services only (50mm and smaller). When paralleling. Water service cannot be between a storm main and a sanitary main. Water services 100mm and larger to be treated as watermains	
Storm and Sanitary joint	Water Services (50mm and smaller)	1.5m	Clearance is from joint, not centre of fitting (tee, cross, bend, etc.) Water services 100mm and larger to be treated as watermains	
Storm and Sanitary service	Hydrants	2.5m		
CB lead	Valve	3.0m		
Drainage Infrastructure or non-potable water infrastructure	Infrastructure with a thrust block (reducer, tee, cross or bend)	1.5m		
Drainage Infrastructure or non-potable water infrastructure including storm and sanitary services	Water Joint	1.5m	Clearance is from the joint not from the center of fitting (tee, cross, bend, etc.). Clearance also applies to tie in joints (i.e. plugs after BVs).	
Storm inline tee/ sanitary core-bell insert and service line	Water mainstop	0.3m		
		lomain: Landscaping (Volume 5)		
Domain Infrastructure	Minimum Clearance	Minimum Clearance	Minimum Clearance	
Storm and sanitary services	Trees	1.8m	Centre of tree	3,5
Storm and sanitary manholes	Trees	1.8m	Centre of tree	
		omain: Streetlighting (Volume 6)		
Domain Infrastructure	Subdomain Infrastructure		Notes	<u> </u>
Storm and sanitary services	Streetlights and power poles Subde	2.0m omain: EPCOR Power (Volume 7)		3,6
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Drainage/Sanitary Main, Catch basin, manhole, vault other large drainage structure	Main power trench	2.0m	Troughed to 1.5 m either side of catch basin if less than 2.0 m	
Manhole, catch basin, storm and sanitary services	1-phase pad-mounted equipment	4.5m	3.0 m is required from the ground grid to the other utility	3,7
Manhole, catch basin, storm and sanitary services	3-phase pad-mounted equipment	5.0m	3.0 m is required from the ground grid to the other utility	3,7
Catch basin, storm and sanitary services	Power crossings	3.0m	Crossings in roadways must be 3.0 m from catch basins	
Domain Infractivistics	Cubdomain Infortime t	Subdomain: Gas	Notes	_
Domain Infrastructure Storm and capitany mains		1	Notes	
Storm and sanitary mains	Gas crossings and line	Minimum 1.5m, preferred 3.0m		4 ,
Storm and sanitary services	Gas crossings and line	Minimum 1.5m, preferred 3.0m		3
Catchbasins and catchbasin manholes	Gas crossings and line	Minimum 1.5m, preferred 3.0m		
		odomain: Telecommunications	Tee .	
Domain Infrastructure			Notes	
Storm and sanitary mains	Telecommunications	Minimum 1.5m, preferred 3.0m		
Storm and sanitary services	pedestal and line Telecommunications pedestal and line	Minimum 1.5m, preferred 3.0m		3
	Theresial alla IIIIE	<u> </u>	1	

4.2			Domain: EPCOR Water (Volume 4) Subdomain: Complete Streets (Volum		
	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance **(Unless otherwise specified)	Notes	Data Source (Volume from Standards)
4.2.1	Curb cock	PL	0.1m	0.3m from PL for side lot services	irom Standards)
4.2.2	Watermain	Face of Curb (FOC)	1.5m (<= 400 mm mains)		
4.2.3	Watermain	FOC	2.0m (> 400 mm mains)		
4.2.4	Watermain in alley, utility lot, walkway, or URW Water services (50mm and smaller)	PL PL	1.2m (preferably 2.0m) Extend service into lot 1.5m beyond the edge of the	Mains in walkways are to be dimensioned to side PL.	1
	ration convices (committee and committee)		shallow utility easement	Water services 100mm and larger to be treated as watermains. If the water	
4.2.5		,		service enters a parcel where there isn't a shallow utility easement, the water service shall extend into the lot a minimum of 1.5m beyond the property line.	
4.2.6	Flushpoint	PL	1.5m	Plug is 5.0m from PL	
	Hydrant	FOC	Preferred: 3.0m for any ROW with Monowalk.	If the monolithic walk is greater than 2.5m wide, include a 90 degree bend in the hydrant lead and locate the hydrant and the control valve 0.3m behind the	
4.2.7			Min 1.5m - max 3.5m offset acceptable.	back edge of the walk.	
4.2.8	Hydrant	FOC	1.5m for any ROW with Separate Walk	Where the walk is greater than 2.0 m into the boulevard or where no walk	
4.2.9	Hydrant	Edge of Walk	0.3m	exists.	2.4
	Hydrant	Edge of Bus Stop	6.0m	Hydrants located within 45m of the approach side of the bus stop or15 m of	1 -,.
4.2.10		,		the departure side must be labeled "To be white disked (Fire Dept. Use Only) at commissioning."	
1.2.10	Hydrant	Edge of Driveway	To be located on the opposite lot line from driveway	If unable, minimum 1.5m (preferably 2.0m)	
4.2.11		,			
	Hydrant	Corner of intersection	To be installed at the beginning of the curve of the	Where not in conflict with item 4.2.14.	1
4.2.12	Valves	Alley	curb return 6.0m of the edge of approach &		1
4.2.13			3.0m of the edge of departure		
4.2.14	Valves	Arterial road & collector road intersection	30m (edge to edge)		
	Valves	Property Line	To be located on the projection of PL, where		
4.2.15	Valves	Utility lot, walkway or URW	possible or dimension to a PL 0.5m from PL or its projection		-
4.2.16	valves	5	Subdomain: EPCOR Drainage (Volume 3)		
	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance **(Unless otherwise	Notes	
4.3			specified)		
4.3.1	Watermain	Sanitary & Storm Main	2.5m (preferably 3.0m)	Additional clearance may be required at the Engineer's (EWSI) discretion,	_
4.3.2	Watermain Watermain	MH	0.3m when crossing under water main (edge to 2.5m	Catch basin leads must be shown where they cross water mains.	-
4.3.3	Watermain		3.0m	From the centreline to centreline (watermains <= 600mm)	†
4.3.5	Watermain	Catch Basin	1.5m	,	1
4.3.6	Watermain	Catch Basin lead	2.5m (preferably 3.0m)		
4.3.7	Watermain	Storm Sanitary service	2.5m (preferably 3.0m)	When paralleling main	1
4.3.8	Watermain Large water service, Ø100 & larger	Storm and Sanitary service crossing Storm Sanitary service	0.15m (edge to edge) 3.0m	Vertical Crossing Provide dimension from PL to services. Large water service to be in own	1
4.3.9 4.3.10	Water Services (50mm and smaller)	Storm Sanitary service Storm Sanitary service	0.3m	For typical dual and single services for single family, duplex, and semi-	1
4.3.10	Water Services (50mm and smaller)	MH shaft	2.0m	Water services 100mm and larger to be treated as watermains	3,4
4.3.12	Water Services (50mm and smaller)	Catch Basin	2.5m	Water services 100mm and larger to be treated as watermains]
4.3.13	Water Services (50mm and smaller)	Catch Basin lead	2.5m	Water services 100mm and larger to be treated as watermains	_
4.3.14	Water Services (50mm and smaller) Water Services (50mm and smaller)	Storm and Sanitary Main Storm and Sanitary joint	1.5m (2.5m preferred) 1.5m	For small services only (50mm and smaller). When paralleling. Water service Clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	-
4.3.15 4.3.16	Hydrants	Storm and Sanitary service	2.5m	clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	1
4.3.16	Valve	CB lead	3.0m		1
4.3.18	Infrastructure with a thrust block (reducer, tee,	Drainage Infrastructure or non-	1.5m		
4.3.19	Water Joint	Drainage Infrastructure or non-	1.5m	Clearance is from the joint not from the center of fitting (tee, cross, bend, etc.).	
4.3.20	Water mainstop	Storm inline tee/ sanitary core-bell	0.3m bdomain: General / EPCOR Water (Volume 4)		
	Domain Infrastructure	Subdomain Infrastructure		Notes	
4.4	Domain initiastructure	Subdomain imagiracture	specified)	Notes	
4.4.1	Watermain	Watermain	1.5m	If the carriageway allows for two water mains to be located within the street or	
4.4.2	Watermain	Any other utility crossing the water	1.0m vertical (edge to edge)	Does not include storm and sanitary sewer mains and DPS mains.	
4.4.3	Tapping Valve Sleeve (TVS) - 300mm or smaller	All pipe joints, including other	1.0m		
4.4.4	Tapping Valve Sleeve (TVS) - 350mm or larger Water mainstop	All pipe joints, including other To other mainstop including adjacent	1.5m 0.6m		4
4.4.5 4.4.6	Water mainstop Water mainstop	From any water joint i.e., bend, tee,	0.6m		_
4.4.7	Water mainstop	Storm inline tee/ sanitary core-bell	0.3m		-
4.4.8	Water Main and Any Utility Crossing	Deflection or joint on either utility	1.5m horizontal separation	All crossings shall be at 90 degrees to the water infrastructure. If this cannot	
			Subdomain: Landscaping (Volume 5)**	I	
4.5	Domain Infrastructure All water infrastructure	Subdomain Infrastructure Soil cells	Minimum Clearance See Volume 4 Section 1.15	Notes	
4.5.1 4.5.2	Valve, hydrant, curb cock (CC), or watermain	Fence	1.2m	For fencing on private property, offset for fencing on public property will be at	-
4.5.3	Watermains, services, manual air vents	Deciduous tree	1.8m	Ensure that these dimensions are measured from the actual service locations	-
4.5.4	Watermains, Services, manual air vents	Coniferous tree	3.5m	Ensure that these dimensions are measured from the actual service locations	
4.5.5	Hydrant	Deciduous tree	3.5m		
4.5.6	Hydrant	Coniferous tree Shrubs	7.0m 1.0m behind hydrant and 1.5 m on either side of the		4,5
4.5.7 4.5.8	Hydrant Valve, hydrant, curb cock (CC), or watermain	Movable street and parks furniture	1.5m		4,5
4.5.9	Valve, hydrant, curb cock (CC), or watermain	Immovable street and parks furniture			1
		on from the landscaping element to the	water appurtenance if:		
	Within 5 0m	Within 3.0m of water service	har infrastruatura		
		of valve, hydrant or curb cock or any of	nei initastructure		
4510	Within 5.5m	of valve, hydrant or curb cock or any otl	ner innastructure		
4.5.10	Within 5.0m	of valve, hydrant or curb cock or any ot	Subdomain: Streetlighting (Volume 6)		
4.5.10 4.6	Domain Infrastructure	of valve, hydrant or curb cock or any ot		Notes	
4.6 4.6.1	Domain Infrastructure Hydrant	Subdomain Infrastructure Streetlight pole (centre of pole)	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles &	
4.6 4.6.1 4.6.2	Domain Infrastructure Hydrant Water services (50mm and smaller)	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole)	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m		4,6
4.6 4.6.1	Domain Infrastructure Hydrant	Subdomain Infrastructure Streetlight pole (centre of pole)	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles &	4,6
4.6 4.6.1 4.6.2	Domain Infrastructure Hydrant Water services (50mm and smaller)	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole)	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles &	4,6
4.6 4.6.1 4.6.2 4.6.3	Domain Infrastructure Hydrant Water services (50mm and smaller) Watermain	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains	4,6
4.6 4.6.1 4.6.2 4.6.3 4.7 4.7.1 4.7.2	Domain Infrastructure Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air Water services and hydrants/flush points/air	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment 3-phase pad-mounted equipment	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains Notes	4,6
4.6 4.6.1 4.6.2 4.6.3 4.7 4.7.1 4.7.2 4.7.3	Domain Infrastructure Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air Water services and hydrants/flush points/air Water services (50mm and smaller)	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment 3-phase pad-mounted equipment Power services and Power Cables	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains Notes Clearance is from the actual water service location, not from the water service	4,6
4.6 4.6.1 4.6.2 4.6.3 4.7 4.7.1 4.7.2 4.7.3 4.7.4	Domain Infrastructure Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air Water services (50mm and smaller) Valves and curb cocks	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment Power services and Power Cables Power cables <= 40 kV	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains Notes	4,6
4.6 4.6.1 4.6.2 4.6.3 4.7 4.7.1 4.7.2 4.7.3 4.7.4 4.7.5	Domain Infrastructure Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air Water services and hydrants/flush points/air Water services (50mm and smaller)	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment Power services and Power Cables Power cables <= 40 kV	Subdomain: Streetlighting (Volume 6) Minimum Clearance 1.8m 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains Notes Clearance is from the actual water service location, not from the water service	4,6
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^{*} Table of Offsets provided assuming existing PVC water pipe (</= 300 mm), proximity to other pipe materials subject to EPCOR Water Services review and may require increased clearances. All clearances are center to center unless otherwise specified.

 $^{^{\}star\star}$ Dimension symbol and legend can be used instead of dimension line to avoid clutter.

Domain Infrastructure	Subdomain Infrastructure	Subdomain: Complete Streets (Volum Minimum Clearance *(Unless otherwise	ne 2) Notes	Data Source
Curb cock	PL	specified) 0.1m	0.2m from DL for side let conject	(Volumes from Standards)
DPS Main/Branch DPS Main/Branch	Face of Curb (FOC)	1.5m (<= 400 mm mains) 2.0m (> 400 mm mains)	0.3m from PL for side lot services	
DPS Main/Branch DPS Main/Branch in alley, utility lot, walkway, or URW	PL	1.2m (preferably 2.0m)	Mains in walkways are to be dimensioned to side PL.	
DPS Services	PL	Extend service into lot a minimum of 1.5m beyond the edge of the shallow utility	If the DPS service enters a parcel where there isn't a shallow utility easement, the DPS service shall extend into the lot a minimum of	District Energy
Blow-off/Drain Manhole	PL	easement 1.5m from centerline of blow-off air vent to PL	1.5m beyond the property line.	Sharing Systems Standards, 2
Valves	Alley Arterial road & collector road	6.0m of the approach & 3.0m of the departure 30m		
Valves	intersection Property Line	To be located on the projection of PL, where		
Valves	Utility lot, walkway or URW	possible or dimension to a PL 0.5m from PL or its projection		
Domain Infrastructure	Subdomain Infrastructure	Subdomain: EPCOR Drainage (Volun Minimum Clearance *(Unless otherwise	Notes	
DPS Main/Branch	Sanitary & Storm Main	specified) 2.5m (preferably 3.0m)	Additional clearance may be required at the Engineer's discretion, including when pipe diameters are greater than 300 mm.	
DPS Main/Branch	Sanitary Main, Storm Main and Catch Basin Leads Crossing	0.3 m when crossing under DPS main/branch 0.5 m when crossing over DPS main/branch	Catch basin leads must be shown where they cross DPS main/branch.	
DPS Main/Branch DPS Main/Branch	MH Oversized MH (Ø1800 & larger)	2.5m 3.0m	From the centreline to centreline (DPS main/branch <= 600 mm)	
DPS Main/Branch DPS Main/Branch	Catch Basin Catch Basin lead	1.5m 2.5m (preferably 3.0m)		
DPS Main/Branch DPS Main/Branch	Storm Sanitary service Storm and Sanitary service	2.5m (preferably 3.0m) 0.15m	When paralleling main	
DPS service, Ø100 & larger	Storm Sanitary service	3.0m	Vertical Crossing Provide dimension from PL to services. Large DPS service to be in own trench.	District Energy
DPS Services	Storm Sanitary service	0.3 m	For typical dual and single services for single family, duplex, and semi-detached lots. Services 50mm and smaller to be laid in same	Sharing Systems Standards, 3
DPS Services	MH shaft	2.0m	trench as storm, sanitary, and water services.	
DPS Services DPS Services	Catch Basin Catch Basin lead	2.5m 2.5m		1
DPS Services DPS Services	Storm and Sanitary Main Storm and Sanitary joint	1.5m (2.5m preferred) 1.5m	For small services only (50mm and smaller). When paralleling. Clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	
DPS MH Valve	Sanitary & Storm Main CB lead	2.5m 3.0m	Clearance is norm joint, not centre or nitting (tee, cross, bend, etc.)	-
Infrastructure with a thrust block (reducer, tee, cross or bend)	Drainage Infrastructure or non- potable water infrastructure	1.5m		
Domain Infrastructure	Subdomain Infrastructure	Subdomain: General / EPCOR Water (Vo Minimum Clearance *(Unless otherwise	olume 4) Notes	
DPS Main/Branch	Watermain	2.5m (preferably 3.0m)	Additional clearance may be required at the Engineer's discretion, including when pipe diameters are greater than 300 mm.	
DPS Main/Branch	Watermain	0.3 m when crossing under DPS main/branch 0.5 m when crossing over DPS main/branch	The DPS main should have the following clearances:	
			0.3 m when DPS is crossing under water main 0.5 m when DPS is crossing over water main (measured from water main crown to DPS	
			invert)	
DPS Main/Branch	Watermain acriica	2.5m (preferably 3.0m)	It is preferred that water mains cross over non-potable mains when possible.	
DPS MH Oversized MH (Ø1800 & larger)	Watermain service Watermain Watermain	2.5m (preferably 3.0m) 2.5m 3.0m	When paralleling main From the centreline to centreline (DPS mains or branch <= 600 mm)	
DPS Service Crossing DPS Service		0.15m 3.0m	Vertical Crossing Provide dimension from PL to services. Large water DPS service to	District Energy
DPS Service	larger Water Services	0.3m	be in own trench. For typical dual and single services for single family, duplex, and	Sharing Systems Standards, 4
DD0.181.01.6			semi-detached lots. Services 50mm and smaller to be laid in same trench as storm, sanitary, and water services.	
DPS MH Shaft DPS Main/Branch	Water Services Water Services	2.0m 1.5m (2.5m preferred)	For small services only (50mm and smaller). When paralleling.	
DPS joint DPS Service	Water Services Hydrants	1.5m 2.5m	Clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	
DPS Service	Infrastructure with a thrust block (reducer, tee, cross or bend)	1.5m		
DPS Service	Water Joint	1.5m	Clearance is from the joint not from the center of fitting (tee, cross, bend, etc.). Clearance also applies to tie in joints (i.e. plugs after BVs).	
			If a DPS main is crossing a WM it needs to be 1.5 m from any water joints.	
DPS Service	Water mainstop	0.3m Subdomain: Landscaping (Volume	5)*	
Domain Infrastructure All DPS infrastructure	Subdomain Infrastructure Soil cells	Minimum Clearance 1.5m (2.5 preferred)	Notes Soil cells not permitted above DPS Mains/Branches	
DPS Main/Branch, Services, Manual air vents, MH	Fence	1.2m	For fencing on private property, offset for fencing on public property will be at 1.2m or greater, at the discretion of the City	
DPS Main/Branch, Services, Manual air vents, MH	Deciduous tree	1.8m	Ensure that these dimensions are measured from the actual service locations and not the property line.	
DPS Main/Branch, Services, Manual air vents, MH Valve, curb cock (CC), DPS Main/Branch,	Coniferous tree Movable street and parks	3.5m 1.5m	Ensure that these dimensions are measured from the actual service locations and not the property line.	District Energy
Manual air vents, MH	furniture including but not limited to benches, tables, and waste			Sharing Systems Standards, 5
DPS Valve, DPS curb cock (CC), DPS Main/Branch, manual air vents, MH	receptacles Immovable street and parks furniture including but not limited	3.0m		_
Main/Branch, manuar air vents, Mn				
	to signs, public art, and retaining			
		Subdomain: Streetlighting (Volume	. 2)	
Domain Infrastructure	to signs, public art, and retaining walls Subdomain Infrastructure	Subdomain: Streetlighting (Volume	Notes	
DPS Main/Branch, Services, Manual air vents, MH	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole)	Minimum Clearance 1.8m		District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole)	Minimum Clearance 1.8m 1.8m 1.8m	Notes Edge to edge with pedestal, transformer, telecommunication	
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure	Minimum Clearance 1.8m 1.8m 1.8m ubdomain: EPCOR Power (Volume 7) Minimum Clearance	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole)	Minimum Clearance 1.8m 1.8m 1.8m ubdomain: EPCOR Power (Volume 7)	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be	Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted	Minimum Clearance 1.8m 1.8m 1.8m ubdomain: EPCOR Power (Volume 7) Minimum Clearance	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review. This is the typical offset. However, deviation from this offset may be	Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power	Minimum Clearance 1.8m 1.8m 1.8m ubdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes This is the typical offset. However, deviation from this offset may be required at the discretion of EPOCR D&T and will be determined during Engineering Drawing review.	Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Services	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service	Minimum Clearance 1.8m 1.8m 1.8m 1.8m Ubdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review. This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review.	Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Services	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 1.8m 1.8m 1.8m 1.8m 1.0m	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review. This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be	Sharing Systems
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DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 1.8m 1.8m 1.5m 1.5m 1.5m 1.5m 1.5m 1.5m 1.5m	Notes	Sharing Systems Standards, 6
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS MH	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m	Notes Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review. This is the typical offset. However, deviation from this offset may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review. Minimum distance between CC and any power cables. Telecommunication cables, gas mains, duct lines Edge to edge See EDTI Standard for Trenching Around Hydrants for reduced	Sharing Systems Standards, 6 District Energy Sharing Systems
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DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Valves and DPS curb cocks DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch DPS Main/Branch DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (>40 kV)	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Valves and DPS curb cocks DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch DPS Main/Branch DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (>40	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6 District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Valves and DPS curb cocks DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch DPS Main/Branch DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (>40 kV)	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 4.5m 5.0m 1.8m 1.0m 1.8m 2.m 4.5m 3.0m 3.0m 2 m from edge of pipe 4 m from edge of pipe See Notes 3.0m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6 District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Valve and DPS curb cocks DPS Valve and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS MH DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (>40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m Ubdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m 1.8m 1.0m 1.8m 1.5m 3.0m 3.0m 2 m from edge of pipe 4 m from edge of pipe See Notes 3.0m 1.8m 1.8m Subdomain: Gas Minimum Clearance	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6 District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Valve and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (<=40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 1.8m 1.0m 1.8m 1.0m 1.8m 1.5m 3.0m 2 m from edge of pipe 4 m from edge of pipe 5ee Notes 3.0m 1.8m Subdomain: Gas Minimum Clearance 1.8m 1.0m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6 District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Valves and DPS curb cocks DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) Primary Power Cable (<=40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines Gas mains or ductlines Gas mains or ductlines	Minimum Clearance	Notes	Sharing Systems Standards, 6 District Energy Sharing Systems Standards, 7 District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS MH DPS MH DPS Main/Branch DPS Valve or Curb cock (CC) DPS Valve or CPPS appurtenances is crossed on both sides DPS MH	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (<=40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 1.8m 1.0m 1.8m 1.0m 1.8m 1.5m 3.0m 2 m from edge of pipe 4 m from edge of pipe 5ee Notes 3.0m 1.8m Subdomain: Gas Minimum Clearance 1.8m 1.0m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6 District Energy Sharing Systems Standards, 7
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services DPS Valves and DPS curb cocks DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch DPS Valve or curb cock (CC) DPS Valve or DPS appurtenances is crossed on both sides DPS MH DPS Moln/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS MH DPS Services	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Power cables <= 40 kV Power cables <= 40 kV Pad-mounted equipment Main power cable and duct bank Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (>40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines Gas mains or ductlines Gas mains or ductlines	Minimum Clearance	Notes	Sharing Systems Standards, 6 District Energy Sharing Systems Standards, 7 District Energy Sharing Systems
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DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Services DPS Main/Branch Domain Infrastructure DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Services, blow-offs, MH, Manual air vents DPS Valves and DPS curb cocks DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS MH DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Valve or curb cock (CC) DPS Valve or DPS appurtenances is crossed on both sides DPS Menor DPS appurtenances is crossed on both sides DPS Menor DPS appurtenances is crossed on both sides DPS Main/Branch	to signs, public art, and retaining walls Subdomain Infrastructure Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) Power services and Power Cables Paralleling Water Service Power cables <= 40 kV Secondary Power Cable (<=750 V) Primary Power Cable (<=40 kV) High Voltage Power Cable (>40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles Notes	Sharing Systems Standards, 6 District Energy Sharing Systems Standards, 7 District Energy Sharing Systems Standards District Energy Sharing Systems Standards

	Subdomain: Complete Streets	DDITIONAL NOTES AT THI and Roadways (Volume 2		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes fron
	5	4.0 4.05	Transita has been die lieuwith auf other from Farra (Out the Obratiliate Poles	Standards)
Trees Trees	Face of Curb (Local) Edge of Sidewalk, Walkway,	1.0m, 1.25m preferred	Trees to be placed in line with or further from Face of Curb than Streetlight Poles.	-
From	Driveway, and Shared-Use Path FOC (Collector)	1.0m, preferred 1.5m 1.25m / 1.65m	1.25 m ROW < 20m, 1.65 m ROW > 20m. Trees to be placed in line with or further from Face of	_
Trees			Curb than Streetlight Poles.	
Trees Trees	FOC (Arterial) Edge of commercial or industrial	2.0m 1.5m	Trees to be placed in line with or further from Face of Curb than Streetlight Poles.	
	access			
Trees Trees	Stop signs and yield signs	3.5m 2.0m		
Trees	All other signs Transit zones/bus pads	3.5m	In addition to the 3.5 m clearance, ensure trees do not create sightline obstructions for vehicles	
Trees		15m	approaching transit zones.	
Trees (in walkway or shared-use path ROW)	Intersection Property line	1.0m		2,5
Trees (in boulevard)	Property line	1.0m		
Deciduous trees (in open parkland)	Property line	2.5m	From centre of tree, in open parkland where there is turf between the fence and the tree rather than a bed.	
Coniferous trees (in open parkland)	Property line	2.5m	From edge of mature spread of tree, in open parkland where there is turf between the fence and the	
Shrubs	Edge of Sidewalk, Walkway and	0.5m	tree rather than a bed. Shrubs at maturity.	1
Mulched beds	Shared-Use Path Boulevard curb	2.5m	Within boulevard curb along arterial and collector roadways.	-
Benches	Back of walkway	1.0m	Within bodievard curb along arterial and collector roadways.	
Litter receptacle	Edge of Walk	0.6m		
Picnic Table	Back of walkway	1.0m		
Domain Infrastructure	Subdomain: EPCOR D Subdomain Infrastructure	Minimum Clearance	Notes	
Trees	Storm and sanitary services	1.8m	11000	
Trees	Storm and sanitary manholes	1.8m		3,5
Domain Infrastructure	Subdomain: EPCOR V		Notes	
Domain Infrastructure Soil cells	Subdomain Infrastructure All water infrastructure	Minimum Clearance See Volume 4 Section	Notes	
		1.15		1
Fence	Valve, hydrant, curb cock (CC), or watermain	1.2m	For fencing on private property, offset for fencing on public property will be at 1.2m or greater, at the discretion of the City	
Deciduous tree	Watermains, services, manual air	1.8m	Ensure that these dimensions are measured from the actual service locations and not the property	
Coniferous tree	vents Watermains, Services, manual air	3.5m	line. Ensure that these dimensions are measured from the actual service locations and not the property	
	vents		line.	
Deciduous tree Coniferous tree	Hydrant Hydrant	3.5m 7.0m		1
Shrubs	Hydrant	1.0 m behind hydrant and		4,5
		1.5 m on either side of the hydrant (extending to		
Movable street and parks furniture including but not limited to benches, tables, and waste receptacles	Valve, hydrant, curb cock (CC), or	road) 1.5m		_
	watermain			
Immovable street and parks furniture including but not limited to signs, public art, and retaining walls	Valve, hydrant, curb cock (CC), or watermain	3.0m		
Provide a dimension from the landscaping element to the w				
Within 3.0 m of water service Within 5.0 m of valve, hydrant or curb cock or any oth	ner infrastructure			
	Subdomain: Landsc			<u>'</u>
Domain Infrastructure	Subdomain Infrastructure Shrub bed, fence, furniture, buildings,	Minimum Clearance	Notes	
Shrub beds and planting beds	trees, and any other obstruction	2.5m		
Shrub beds, planting beds, and trees	Any play space envelope (playground equipment and splash parks)	5m		
Shrub beds and planting beds	Edge of bed	0.5m	Must be 500 mm (0.5 m) of mulched space between the edge of the mature shrub and the edge of	5
Coniferous Tree	Edge of bed	0.5m	the bed Must be 500 mm (0.5 m) of mulched space between the edge of the mature confirerous tree and the	-
			edge of the bed	
Litter receptacle	Bench Subdomain: Landscaping O	3.0m		
Domain Infrastructure	Subdomain: Landscaping O	Minimum Clearance	Notes	
Offleash Area	Residential Areas and cemeteries	100m	Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the	
Offleash Area	(property line) Arterial roads	50m	City. Unless separated by fencing or other mitigation methods and at the discretion of the City	1
Officash Area	Golf Courses and public areas that	50m	Unless separated by fencing or other mitigation methods and at the discretion of the City	1
Offleash Area	attract high concentrations of people Multi-use trails and equestrian trails	25m	Unless separated by fencing or other mitigation methods and at the discretion of the City	N/A (these specific offsets i
	-	25m	Unless separated by fencing or other mitigation methods and at the discretion of the City Unless separated by fencing or other mitigation methods and at the discretion of the City	Table of Offsets
Offleash Area	School grounds or play areas and			
	School grounds or play areas and associated walking routes		Unless concepted by fension or other will not an extended and all all all all all all all all all al	only)
Officash Area			Unless separated by fencing or other mitigation methods and at the discretion of the City	
	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and	25m	Unless separated by fencing or other mitigation methods and at the discretion of the City As determined on a case by case basis with the City	
Offleash Area	associated walking routes Pools, splash parks, sports fields, and picnic areas	25m Determine case by case		
Offleash Area	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure	25m Determine case by case		
Offleash Area Offleash Area Domain Infrastructure Trees	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles	25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m	As determined on a case by case basis with the City Notes	
Offleash Area Offleash Area Domain Infrastructure Trees	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable	25m Determine case by case phting (Volume 6) Minimum Clearance 3.0m 1.0m	As determined on a case by case basis with the City	only)
Offleash Area Offleash Area Domain Infrastructure Trees Trees	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles	25m Determine case by case phting (Volume 6) Minimum Clearance 3.0m 1.0m	As determined on a case by case basis with the City Notes For arterial road boulevards	only)
Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain: EPCOR	25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7)	As determined on a case by case basis with the City Notes	only)
Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure Trees	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain: EPCOR Subdomain Infrastructure	25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where	As determined on a case by case basis with the City Notes For arterial road boulevards Notes	only)
Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure Trees Trees Trees Trees	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench	Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where doors open 2.0m on sides	As determined on a case by case basis with the City Notes For arterial road boulevards Notes Measured from the main power cable. From edge of base Measured from edge of base	only)
Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure Trees Trees Trees Trees	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench 3-phase switching cubicle	25m Determine case by case shting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where doors open 2.0m on sides 3.0m in front of doors	As determined on a case by case basis with the City Notes For arterial road boulevards Notes Measured from the main power cable. From edge of base Measured from edge of base Minimum 3.0 m clearance in front of doors required for hot stick operation	only)
Offleash Area	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench 3-phase switching cubicle	Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where doors open 2.0m on sides	As determined on a case by case basis with the City Notes For arterial road boulevards Notes Measured from the main power cable. From edge of base Measured from edge of base	only)
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Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure Trees Trees Trees and shrubs Trees and shrubs Trees and shrubs Trees and shrubs Trees and shrubs Trees and shrubs Trees and shrubs Trees and shrubs Trees and shrubs	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain Infrastructure Main power trench 3-phase switching cubicle Transformer Power crossings 1-phase switching cubicle Power crossings	25m Determine case by case shting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where doors open 2.0m on sides 3.0m infont of doors 1.5m behind base 1.0m 3.0m front 4.0m sides 2.5m behind base SEE NOTES	Notes For arterial road boulevards Notes Measured from the main power cable. From edge of base Measured from edge of base Minimum 3.0 m clearance in front of doors required for hot stick operation Measured from edge of base Minimum 3.0 m clearance in front of doors required for hot stick operation Measured from edge of base Measured horizontally offset from the power crossing alignment From edge of base See Note 1 below	5,6
Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure Trees Trees and shrubs	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain: Streetlig Subdomain: Streetlig Streetlights and power poles Streetlight cable Subdomain: EPCOR Subdomain: Infrastructure Main power trench 3-phase switching cubicle Transformer Power crossings 1-phase switching cubicle Power crossings Pad-mounted equipment	Determine case by case phting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where doors open 2.0m on sides 3.0m in front of doors 1.5m behind base 1.0m 3.0m front 4.0m sides 2.5m behind base SEE NOTES SEE NOTES	As determined on a case by case basis with the City Notes For arterial road boulevards Notes Measured from the main power cable. From edge of base Measured from edge of base Minimum 3.0 m clearance in front of doors required for hot stick operation Measured from edge of base Measured horizontally offset from the power crossing alignment From edge of base	5,6
Offleash Area Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure Trees Trees Trees and shrubs	associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain Infrastructure Main power trench 3-phase switching cubicle Transformer Power crossings 1-phase switching cubicle Power crossings	Determine case by case phting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance 1.0m 3.0m on each side where doors open 2.0m on sides 3.0m in front of doors 1.5m behind base 1.0m 3.0m front 4.0m sides 2.5m behind base SEE NOTES SEE NOTES	As determined on a case by case basis with the City Notes For arterial road boulevards Notes Measured from the main power cable. From edge of base Measured from edge of base Minimum 3.0 m clearance in front of doors required for hot stick operation Measured from edge of base Measured horizontally offset from the power crossing alignment From edge of base See Note 1 below See Note 1 below	only)
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ADDITIONAL NOTES

*For deciduous tree(s), all measurements from centre of tree(s), for coniferous trees all measurements are from
the edge of the mature spread, unless stated explicitly otherwise

**In general, setback distances apply to the majority of tree and tree form shrub species. However, certain species require different setbacks, such as those trees with suckering root systems or large hanging canopies (i.e. Poplars and Willows). Planting Populus spp. on parkland adjacent to private property is generally not recommended. However:

- All other Populus spp., including columnar avarieties, shall have a minimum setback of 10m from private property lines and 5.0m from hard surfaces shall be 10m, unless special construction private property lines shall be 15m due to root encroachment concerns.

- Some allowances may be made at the discretion of Forestry at th City if there is special construction mitigation in place, such as a root barrier.

- Some allowances may be made at the discretion of Forestry at th City if there is special construction mitigation in place, such as a root barrier.

**** Some offsets related to constrution practices (not design offsets) are provided in Volume 5: Landscaping. These must be adhered to by the Developer, Contractor, and Consultant. See Volume 5: Landscaping "Trees and Shrub Planting Setbacks" for further information.

Collisation is yellowed and be used instead of dimension line to avoid clutter.

Note 1: See the City of Edmonton Design and Construction Standards Volume 5 – Landscaping ...shallow utilities shall not be placed in Landscaped Road Islands. Written permission for power crossings or pad mounted equipment in Landscaped Road Islands is the responsibility of the developer. Ducts must be continuous and cannot have trees within 1.0 m of the duct. Other plantings such as small shrubs or flowers would be allowed over top of the crossing. Distances from overhead power utilities shall be as per the requirements established by the Utility Authority.

		Domain: Streetlighting (Volume 6)*		
	S	ubdomain: Complete Streets (Volume	2)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes from Standards)
Streetlight Pole	FOC	1.25m along Local Streets; 1.25m along Collectors; 2.0m along Arterials; 2.6m for monowalks along Local and Collector Streets 3.0m for monowalks adjacent to School Sites		
Streetlight Pole	Edge of sidewalk or walkway	0.5m , preferred 1.0m		
Streetlight Pole	Edge of shared-use path	0.5m, preferred 1.5m		2,6
Streetlight Pole	Intersection	0.9m		
Streetlight Pole	Driveway (Residential)	0.5m with standard base and 0.75m with utility box	Edge of driveway	
Streetlight Pole	Driveway/Access (Commerical or Industrial)	1.5m	Edge of access	
Multiparty trench	FOC	2.5m	Centerline of trench	
	S	ubdomain: EPCOR Drainage (Volume	3)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlights and power poles	Storm and sanitary services	2.0m		3,6
	,	Subdomain: EPCOR Water (Volume 4)		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlight Pole (centre of pole)	Hydrant	1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles & streetlightlight poles	4,6
Streetlight Pole (centre of pole)	Water services (50mm and smaller)	1.8m	Water services 100mm and larger to be treated as watermains	
Streetlight Pole (centre of pole)	Watermain	1.8m		
		Subdomain: Landscaping (Volume 5)		•
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlight Pole	Trees	3.0m		
Streetlight Cable	Trees	1.0m	For arterial road boulevards	5,6
		□ Subdomain: EPCOR Power (Volume 7)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	T
Streetlight Pole	Primary or secondary cables	1.0m / 0.3m	1.0 m clearance required if streetlighting is installed after power is installed. 300 mm clearance required if streetlighting is installed at the same time as the power is installed. See standard for trenching around street light pole bases (Volume 7: EPCOR D&T)	6,7
Streetlight Pole	Power crossings	1.5m	To the closest power crossing duct	
Main streetlight trench	Pad-mounted equipment	Common trench	See base standards and trough standards (Volume 7: EPCOR D&T)	
		Subdomain: Gas		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlight Pole	Gas crossings and lines	1.0m		6
		Subdomain: Telecommunications	1	1
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlight Pole	Telecommunication lines and pedestals	1.0m		6

^{*}All measurements from centre of pole

	Domain: EPCOP Distribution and Tran	emission (Volume 7) (SEE	ADDITIONAL NOTES AT THE BOTTOM)	
		omplete Streets and Road	,	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes from
Transformer Transformer	Corner cut FOC	6.0m SEE NOTES	Offset is required. See the specific and applicable cross-section(s) found in Complete	Standards)
			Streets Design and Construction Standards.	
Transformer Transformer	Residential driveways	2.0m	From edge of equipment to driveway	
Transformer/Switching cubicle Transformer/Switching cubicle	Bus stop pad Road crossing	3.0m 3.0m	From edge of bus pad to edge of base From centre to closest duct in crossing	
Transformer/Switching cubicle	Intersection edge of pavement	15.0m	From centre to diosest duct in crossing	
Transformer/Switching cubicle	Commercial/Industrial access edge of	10.0m		
	pavement			2,7
Pad-mounted equipment	Edge of walkway property line	3.0m	From edge of equipment to edge of walkway property line	_,-
Pad-mounted equipment	Transportation control devices and signs	3.0m	From edge of pad	
1-phase or 3-phase cubicle	Corner cut	30.0m		
Multiparty Trench	FOC	2.5m	Centerline of trench	
Main power/multiparty trench	Property Line	1.0m	Actual required minimum offset may change depending on sidewalk type and alignment of shallow utilities.	
Power crossings	Bus stop pad	3.0m	From edge of bus pad to crossing	
Power crossings	Corner cut	3.0m		
		main: EPCOR Drainage(Vo	plume 3)	
Domain Infrastructure	Subdomain Infrastructure		Notes	
Main Power Trench	Drainage/Sanitary Main, Catch basin, manhole, vault other large drainage structure	2.0m	Troughed to 1.5 m either side of catch basin if less than 2.0 m	
1-phase pad-mounted equipment	Manhole, catch basin, storm and sanitary services	4.5m	3.0 m is required from the ground grid to the other utility	3,7
3-phase pad-mounted equipment	Manhole, catch basin, storm and sanitary services	5.0m	3.0 m is required from the ground grid to the other utility	
Power crossings	Catch basin, storm and sanitary services	3.0m omain: EPCOR Water (Vol	Crossings in roadways must be 3.0 m from catch basins	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
1-phase pad-mounted equipment (transformers)	Water services and hydrants/flush points/air vents	4.5m		
3-phase pad-mounted equipment (transformers)	Water services and hydrants/flush points/air vents	5.0m		
Power services and Power Cables Paralleling Water Service		1.8m	Clearance is from the actual water service location, not from the water service symbol Water services 100mm and larger to be treated as watermains	
Power cables <= 40 kV	Valves and curb cocks	1.0m	Minimum distance between CC and any power cables. Telecommunication cables, gas mains, duct lines	
Power cables <= 40 kV	Valve or water appurtenances is crossed on both sides	1.8m	Educato adea	
Pad-mounted equipment Power cables <= 40 kV crossing between control valve and	Valve casings Hydrants with control valves more than	1.5m Hydrants: 3m	Edge to edge Hydrant:	4,7
hydrant	2m from hydrant	Valves 1.0m	1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant	4,7
Main power cable and duct bank	Hydrants	3.0m	See EDTI Standard for Trenching Around Hydrants for reduced clearances (Volume 7:	
Power cables <= 40 kV	Hydrants	3.0m	EDTI Standards) 1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant	
Secondary Power Cable (<=750 V)	Water Main	2 m from edge of pipe	Water services 100mm and larger to be treated as watermains	
Primary Power Cable (<=40 kV)	Water Main	4 m from edge of pipe	Primary power to be located on opposite side of the road unless power is in a four party trench or otherwise approved by the Engineer.	
High Voltage Power Cable (>40 kV)	Water Main	See Notes	To be designed based on safe limits of approach and excavation allowance.	
Pad-mounted equipment	Watermain	3.0m		
Grounding rods	All water infrastructure	1.8m		
Power Poles and Pole Anchors	Watermain and Water services	1.8m		
Domain Infrastructure	Subdomain Infrastructure	domain: Landscaping (Vol	Notes	
Main power trench	Trees	1.0m	Measured from the main power cable.	
1-phase switching cubicle	Trees and shrubs	3.0m front	From edge of base	
		4.0m sides 2.5m behind base		
3-phase switching cubicle	Trees and shrubs	doors open	From edge of base	5,7
Pad-mounted equipment Transformer	Landscaped road island Trees and shrubs	SEE NOTES 2.0m on sides	See Note 1 below Measured from edge of base	5,1
Transformer	frees and shrubs	3.0m in front of doors 1.5m behind base	Minimum 3.0 m clearance in front of doors required for hot stick operation Measured from edge of base	
Power crossings	Trees and shrubs	1.0m	Measured horizontally offset from the power crossing alignment	
Power crossings	Landscaped road island	SEE NOTES	See Note 1 below	
Domain Infracturations		omain: Street Lighting (Vo	,	
Domain Infrastructure Pad-mounted equipment	Subdomain Infrastructure Main streetlight trench	Minimum Clearance Common trench	Notes See base standards and trough standards (Volume 7: EPCOR D&T)	
Primary or secondary cables	Streetlight Davit Poles or Contactors	1.0m / 0.3m	1.0 m clearance required if streetlighting is installed after power is installed. 300 mm clearance required if streetlighting is installed at the same time as the power is installed.	6,7
Power crossings	Streetlight Davit Poles or Contactors	1.5m	See standard for trenching around street light pole bases (Volume 7: EPCOR D&T) To the closest power crossing duct	
		Subdomain: Gas		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Pad-mounted equipment	Gas crossing	3.5m	From centre of equipment (minimum 2.0 m grom ground grid)	
Pad-mounted equipment ground grid Main power trench	Main gas trench Main	1.0m 1.0m	From ground grid to gas line trench Parallel, see Note 2 below	7
Power crossings	Main	1.0m	Parallel Parallel	′
Power crossings	Main or service	300mm	Without mechanical separation, see Note 3 below	
		bdomain: Telecommunicat	• •	
Domain Infrastructure	Subdomain Infrastructure		Notes	
Pad-mounted equipment Pad-mounted equipment	Main communications trench Communications pedestals	Common trench 3.0m	See base standards and trough standards (Volume 7: EPCOR D&T) Minimum 3.0 m from case of transformer or switching cubicle to case of pedestal, see	
Primary or secondary cables	Communication vault	300mm	Note 4 below Minimum clearance between edge of communication vault and edge of primary or	7
Power crossings	To the closest power crossing duct	Power crossing	secondary cable Communications equipment	
Domain Infractructure	Subdomain: Pipeline Rights-of Subdomain Infrastructure	<u>, , , , , , , , , , , , , , , , , , , </u>	IP for Servicing the Subdivision) Notes	
Domain Infrastructure Pad-mounted equipment	From edge of right-of-way	10.0m	From edge of pipeline right-of-way to edge of ground grid	
Power crossings	From edge of right-of-way	5.0m	Power crossing ducts perpendicular to pipeline are to be extended a minimum of 5.0 m from edge of right-of-way to end of crossing duct	7
	<u> </u>	I	non cage of right-of-way to end of crossing duct	

ADDITIONAL NOTES

These are preferred minimum horizontal clearances. Consult with EDTI Land Servicing for discussion of the possibility of any

deviation to these approved clearances due to specific circumstances

Clearances are from centre to centre of furniture, trench or duct unless otherwise noted.

Note 1: See the City of Edmonton Design and Construction Standards Volume 5 – Landscaping ...shallow utilities shall not be Indice 1. See the City of Edinforth Design and Constitution Standards Volunte 3 - Earlisscaping ...shallow utilities shall not be placed in Landscaped Road Islands. Written permission for power crossings or pad mounted equipment in Landscaped Road Islands is the responsibility of the developer. Ducts must be continuous and cannot have trees within 1.0 m of the duct. Other plantings such as small shrubs or flowers would be allowed over top of the crossing.

Note 2: If it is mutually agreed that gas is in the same trench as power, refer to refer to EDTI Underground Distribution Standard 6000070046001 for the typical roadway cross-section to use.

Note 3: Where mutually agreed, an approved method of mechanical separation could be used to reduce the crossing from 300 mm (i.e. 5 Party Trenching, using a sleeve, fastened to the I.P. gas line, as mechanical separation and 100 mm of sand between the sleeve and the power cable.).

Note 4: If communications pedestals are placed with 3.0 m from the edge of the ground grid of pad mounted power equipment, the two pieces of equipment will be bonded. A detail drawing is required.

Note 5: Landscaping clearances are for work on City of Edmonton road allowances only. Landscaping clearances on EDTI utility rights-of-way (URW) are as per the URW documents.