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.

A design exception may be necessary to facilitate an implementable design or to introduce a non-traditional or alternative design that offers significantly improved performance. The Consolidated Design Exception Form will be utilized to evaluate and determine the performance, risk and mitigation strategies for design exceptions across Volumes 2, 3, 4, 5, 6 and 7 of the City and EPCOR Design and Construction Standards. This consolidated form replaces the individual design exception forms that were in use previously.

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

October 20, 2025 Version:

Various changes to EPCOR Power offsets

September 17, 2025 Version:

Addition of the Consolidated Design Exception Form

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

Domain Infrastructure	Subdomain Infrastructure	domain: Complete Streets (Volume 2) Minimum Clearance	Notes	Data Source
				(Volumes from Standards)
ntersection edge of pavement	Traffic control cabinet	Located outside the Clear Sight Triangles to allow for required sightlines		
Commercial/Industrial access edge of pavement Curb Ramps	Traffic control cabinet Commercial Crossing	10.0m 1.0m	Flare to flare	2
hared-use paths, walkways, and sidewalks	Property line	0.3m	Property line to edge of shared-use path, walkway, or sidewalk	
omain Infrastructure	Subdomain Infrastructure	domain: EPCOR Drainage (Volume 3) Minimum Clearance	Notes	
ace of Curb	Sanitary and storm mains	1.5m		
Curb Ramps	Catchbasins and catchbasin manholes	0.5m	1.5 m from the edge of the bug step and Drainege	_
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	2,3
Driveways	Catchbasins	1.5m	bus stop pad Edge of driveway.	-
ntersection	Catchbasins	Locate at End of Curve OR Beginning of Curve and not within the curb ramp and		
Domain Infrastructure	Subdomain Infrastructure	crosswalk bdomain: EPCOR Water (Volume 4) Minimum Clearance	Notes	
PL	Curb cock Watermain	0.1m	0.3m from PL for side lot services	
face of Curb (FOC) FOC	Watermain	1.5m (<= 400 mm mains) 2.0m (> 400 mm mains)		
PL	Watermain in alley, utility lot, walkway, or URW	1.2m (preferably 2.0m)	Mains in walkways are to be dimensioned to side PL.	
PL	Water services	Extend service into lot 1.5m beyond the edge of the shallow utility easement	If the water 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.	_
PL OC	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,	<u> </u>
		Monowalk.	include a 90 degree bend in the hydrant lead and locate the hydrant and the control valve 0.3 m	
		Min 1.5 m - max 3.5 m offset acceptable.	behind the back edge of the walk.	
OC	Hydrant	1.5m for any ROW with Separate Walk	Where the walk is greater than 2.0 m into the boulevard or where no walk exists.	2,4
dge of Walk dge of Bus Stop	Hydrant Hydrant	0.3m 6.0m	Hydrants located within 45 m of the approach side	
-			of the bus stop or 15 m of the departure side must be labeled "To be white disked (Fire Dept. Use	
Edge of Driveway	Hydrant	To be located on the opposite lot line	Only) at commissioning." If unable, minimum 1.5m (preferably 2.0m)	_
•		from driveway	,	
Corner of intersection	Hydrant	To be installed at the beginning of the	Where not in conflict with item 4.2.14.	
lley	Valves	curve of the curb return 6.0m of the approach &		
arterial road & collector road intersection	Valves	3.0m of the departure 30m (edge to edge)		1
roperty Line	Valves	To be located on the projection of PL, where possible or dimension to a PL		1
tility lot, walkway or URW	Valves	0.5m from PL or its projection		
omain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
OC (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.	
OC (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	-
OC (Arterial)	Trees (centre of tree)	2.0m	than Streetlight Poles. Trees to be placed in line with or further from Face	-
itersection	Trees (centre of tree)	15m	of Curb than Streetlight Poles.	-
dge of Sidewalk, Driveway, Walkway, and hared-Use Path	Trees (centre of tree)			-
dge of Sidewalk, Walkway and Shared-Use	Shrubs	1.0m, preferred 1.5m 0.5m	Shrubs at maturity	<u> </u>
eath Edge of walk	Litter receptacle	0.6m		_
dge of commercial or industrial access ack of walkway	Trees (centre of tree) Benches	1.5m 1.0m		<u> </u>
ack of walkway oulevard curb	Picnic Table Mulched beds	1.0m 2.5m	Within boulevard curb along arterial and collector	2,5
top signs and yield signs	Trees (centre of tree)	3.5m	roadways.	
Il other signs	Trees (centre of tree)	2.0m		_
ransit 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	1.0m	approaching transit zones.	<u> </u>
Property line	or shared-use path ROW) Trees (centre of tree, in	1.0m		<u> </u>
Property Line	boulevard) Deciduous trees (in open	2.5m	From centre of tree, in open parkland where there is	<u> </u>
	parkland)		turf between the fence and the tree rather than a bed.	
roperty 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.	
omain Infrastructure	Subdomain Infrastructure Streetlight Pole (centre of pole)	Minimum Clearance 1.25m along Local Streets; 1.25m along	Notes	
	gara sie (sonae or pole)	Collectors; 2.0m along Arterials; 2.6m for monowalks along Local and		
		Collector Streets, 3.0m for monowalks adjacent to School Sites		
OC otersection	Multiparty trench Streetlight Pole (centre of pole)	2.5m	Centerline of trench	2,6
ntersection dge of sidewalk or walkway	Streetlight Pole (centre of pole)	0.9m 0.5m / preferred 1.0m		
dge of shared-use paths	Streetlight Pole (centre of pole) Streetlight Pole (centre of pole)	0.5m / preferred 1.5m 0.5m with standard base and 0.75m with		_
riveway (Residential) riveway/Access (Commerical or Industrial)	Streetlight Pole (centre of pole)	utility box		
	Sul	odomain: EPCOR Power (Volume 7)	Notes	I
OC	Subdomain Infrastructure Multiparty trench	Minimum Clearance 2.5m	Notes Centerline of trench	
OC	Transformer	SEE NOTES	Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design	
orner cut	Transformer	6.0m	and Construction Standards.	-
orner cut us stop pad	1-phase or 3-phase cubicle Transformer/Switching cubicle	30m 3.0m	From edge of bus pad to edge of base]
oad crossing	Transformer/Switching cubicle	3.0m	From centre to closest duct in crossing	1
ransportation control devices and signs us stop pad	Pad-mounted equipment Power crossings	3.0m 3.0m	From edge of pad From edge of bus pad to crossing	2,7
esidential driveways	Transformer	2.0m	From edge of equipment to driveway	1
ntersection edge of pavement ommercial/Industrial access edge of pavement	Transformer/Switching cubicle Transformer/Switching cubicle	15m 10m	From centre of transformer/switching cubicle	1
dge of walkway property line	Pad-mounted equipment	3.0m	From edge of equipment to edge of walkway property line]
L	Main power/Multiparty trench	1.0m	Actual required minimum offset may change depending on sidewalk type and alignment of	1
		Subdomain: Gas	shallow utilities.	
Oomain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes Contacting of transla	
OC	Multiparty trench	2.5m Subdomain: Telecommunications	Centerline of trench	2
omain Infrastructure	Subdomain Infrastructure	Minimum Clearance 2.5m	Notes Centerline of trench	2
	Multiparty trench	Subdomain: General		2
omain Infrastructure ocation of all surface appurtenances associated	Subdomain Infrastructure	Minimum Clearance Located outside of any sidewalks,	Notes	
ith underground utilities (including, but not		shared-use paths, walkways,		2
mited to, transformers, cubicles, catch basins,		crosswalks, and curb ramps; See also		_

	Doma	ain: EPCOR Drainage (Volume 3)		
		omplete Streets and Roadways (Volur	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	_
Storm and Sanitary service crossing	Watermain	0.15m (edge to edge)	Vertical Crossing	
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	2.5m	Water consists 400 mm and larger to be treated as waternesing	
Storm and Sanitary Main	smaller) Water Services (50mm and smaller)	1.5m (2.5m preferred)	Water services 100mm and larger to be treated as watermains 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	
Daniel Infrastructure		omain: Streetlighting (Volume 6)	Nata	
Domain Infrastructure	Subdomain Infrastructure		Notes	
Storm and sanitary services	Streetlights and power poles Subde	2.0m omain: EPCOR Power (Volume 7)		3,6
Domain Infrastructure	Subdomain Infrastructure		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	
Catch basin, storm and sanitary services	Power crossings	3.0m	Crossings in roadways must be 3.0 m from catch basins	
Domain Infrastructure	Cubdomain Infrastructure	Subdomain: Gas	Notes	
Domain Infrastructure			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		
		bdomain: Telecommunications		
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
<u> </u>	Theresial alla IIIIE	1		

			Domain: EPCOR Water (Volume 4) Subdomain: Complete Streets (Volume		
4.2	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.	-
	Trace convisco (communication container)		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)	1
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 &		+
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		1
4.2.15 4.2.16	Valves	Utility lot, walkway or URW	possible or dimension to a PL 0.5m from PL or its projection		+
4.2.10	vared	1 - 3 - 3 - 3 - 3	Subdomain: EPCOR Drainage (Volume 3)		
	Domain Infrastructure		Minimum Clearance **(Unless otherwise	Notes	
4.3	W. C		specified)	Additional discountry in the first of the Fi	
4.3.1	Watermain Watermain	Sanitary & Storm Main Sanitary Main, Storm Main and Catch	2.5m (preferably 3.0m) 0.3m when crossing under water main (edge to	Additional clearance may be required at the Engineer's (EWSI) discretion, Catch basin leads must be shown where they cross water mains.	-
4.3.2 4.3.3	Watermain	MH	2.5m when crossing under water main (edge to	Sales Sales reads must be shown where they Gloss water Hidlis.	†
4.3.4	Watermain		3.0m	From the centreline to centreline (watermains <= 600mm)	1
4.3.5	Watermain	Catch Basin	1.5m]
4.3.6	Watermain	Catch Basin lead	2.5m (preferably 3.0m)		1
4.3.7	Watermain Watermain	Storm Sanitary service Storm and Sanitary service crossing	2.5m (preferably 3.0m)	When paralleling main	1
4.3.8	Vatermain 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	Water Services (50mm and smaller)	Storm Sanitary service	0.3m	For typical dual and single services for single family, duplex, and semi-	1
4.3.11	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	1
4.3.13	Water Services (50mm and smaller) Water Services (50mm and smaller)	Catch Basin lead Storm and Sanitary Main	2.5m 1.5m (2.5m preferred)	Water services 100mm and larger to be treated as watermains For small services only (50mm and smaller). When paralleling. Water service	1
4.3.14	Water Services (50mm and smaller)	Storm and Sanitary Main	1.5m (2.5m preferred)	Clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	1
4.3.15 4.3.16	Hydrants	Storm and Sanitary service	2.5m	ordanice is from joint, not certae or many (180, 01030, 50714, etc.)	-
4.3.17	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.).	1
4.3.20	Water mainstop	Storm inline tee/ sanitary core-bell	0.3m bdomain: General / EPCOR Water (Volume 4)		
	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance **(Unless otherwise	Notes	
4.4			specified)		
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.	1
4.4.3	Tapping Valve Sleeve (TVS) - 300mm or smaller Tapping Valve Sleeve (TVS) - 350mm or larger	All pipe joints, including other	1.0m 1.5m		-
4.4.4 4.4.5	Water mainstop	All pipe joints, including other To other mainstop including adjacent	0.6m		4
4.4.6	Water mainstop	From any water joint i.e., bend, tee,	0.6m		1
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	
4.5	Domain Infrastructure	Subdomain Infrastructure	Subdomain: Landscaping (Volume 5)** Minimum Clearance	Notes	
4.5 4.5.1	All water infrastructure	Soil cells	See Volume 4 Section 1.15	Notes	
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	1
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	1
4.5.5	Hydrant Hydrant	Deciduous tree Coniferous tree	3.5m 7.0m		-
4.5.6 4.5.7	Hydrant	Shrubs	1.0m behind hydrant and 1.5 m on either side of the		4,5
4.5.8	Valve, hydrant, curb cock (CC), or watermain	Movable street and parks furniture	1.5m		1
4.5.9	Valve, hydrant, curb cock (CC), or watermain	Immovable street and parks furniture	3.0m		
	Provide a dimensi	on from the landscaping element to the water service	water appurtenance if:		
	Within 5.0m	of valve, hydrant or curb cock or any otl	her infrastructure		
4.5.10		<u> </u>			
			0 1 1		
		1	Subdomain: Streetlighting (Volume 6)	I	
4.6	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
4.6.1	Hydrant	Streetlight pole (centre of pole)	Minimum Clearance 1.8m	Edge to edge with pedestal, transformer, telecommunication cubicles &	46
4.6.1 4.6.2			Minimum Clearance		4,6
4.6.1	Hydrant Water services (50mm and smaller) Watermain	Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole)	Minimum Clearance 1.8m 1.8m 1.8m Subdomain: EPCOR Power (Volume 7)	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains	4,6
4.6.1 4.6.2 4.6.3	Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure	Streetlight pole (centre of pole)	Minimum Clearance 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance	Edge to edge with pedestal, transformer, telecommunication cubicles &	4,6
4.6.1 4.6.2 4.6.3 4.7 4.7.1	Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air	Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment	Minimum Clearance 1.8m 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
4.6.1 4.6.2 4.6.3 4.7 4.7.1 4.7.2	Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air Water services and hydrants/flush points/air	Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment	Minimum Clearance 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance	Edge to edge with pedestal, transformer, telecommunication cubicles & Water services 100mm and larger to be treated as watermains	4,6
4.6.1 4.6.2 4.6.3 4.7 4.7.1	Hydrant Water services (50mm and smaller) Watermain Domain Infrastructure Water services and hydrants/flush points/air	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	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
4.6.1 4.6.2 4.6.3 4.7 4.7.1 4.7.2 4.7.3	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) Valves and curb cocks Valve or water appurtenances is crossed on both	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 Power cables <= 40 kV Power cables <= 40 kV	Minimum Clearance 1.8m 1.8m 1.8m Subdomain: EPCOR Power (Volume 7) Minimum Clearance 4.5m 5.0m 1.8m 1.0m	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 Minimum distance between CC and any power cables. Telecommunication	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 (Volur Minimum Clearance *(Unless otherwise	ne 2) Notes	Data Source
Curb cock	PL	specified)	0.2m from DL for side let conjuga	(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 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 Valves	PL Alley	easement 1.5m from centerline of blow-off air vent to PL 6.0m of the approach &	1.5m beyond the property line.	Sharing Systems Standards, 2
Valves	Arterial road & collector road	3.0m of the departure 30m		
Valves	Property Line	To be located on the projection of PL, where possible or dimension to a PL		
Valves	Utility lot, walkway or URW	0.5m from PL or its projection Subdomain: EPCOR Drainage (Volum	ne 3)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance *(Unless otherwise specified)	Notes	
DPS Main/Branch DPS Main/Branch	Sanitary & Storm Main Sanitary Main, Storm Main and	2.5m (preferably 3.0m) 0.3 m when crossing under DPS main/branch	Additional clearance may be required at the Engineer's discretion, including when pipe diameters are greater than 300 mm. Catch basin leads must be shown where they cross DPS	
DPS Main/Branch	Catch Basin Leads Crossing MH	0.5 m when crossing over DPS main/branch 2.5m	main/branch.	
DPS Main/Branch DPS Main/Branch	Catch Basin	3.0m 1.5m	From the centreline to centreline (DPS main/branch <= 600 mm)	
DPS Main/Branch DPS Main/Branch	Catch Basin lead Storm Sanitary service	2.5m (preferably 3.0m) 2.5m (preferably 3.0m)	When paralleling main	
DPS Main/Branch DPS service, Ø100 & larger	Storm and Sanitary service crossing Storm Sanitary service	0.15m 3.0m	Vertical Crossing Provide dimension from PL to services. Large DPS service to be in	District Energy
DPS Services	Storm Sanitary service	0.3 m	own trench. For typical dual and single services for single family, duplex, and	Sharing Systems Standards, 3
DPS Services	MH shaft	2.0m	semi-detached lots. Services 50mm and smaller to be laid in same trench as storm, sanitary, and water services.	_
DPS Services DPS Services	Catch Basin Catch Basin lead	2.5m 2.5m		
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	Greatance is norm joint, not centre or namy (tee, cross, pend, 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	Notes	
DPS Main/Branch DPS Main/Branch	Watermain Watermain	2.5m (preferably 3.0m) 0.3 m when crossing under DPS main/branch	Additional clearance may be required at the Engineer's discretion, including when pipe diameters are greater than 300 mm. The DPS main should have the following	_
		0.5 m when crossing over DPS main/branch	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 linvert)	
			It is preferred that water mains cross over non-potable mains when possible.	
DPS Main/Branch DPS MH	Watermain service Watermain	2.5m (preferably 3.0m) 2.5m	When paralleling main	
Oversized MH (Ø1800 & larger) DPS Service Crossing		3.0m 0.15m	From the centreline to centreline (DPS mains or branch <= 600 mm) Vertical Crossing	
DPS Service DPS Service	Large water service, Ø100 & larger Water Services	3.0m 0.3m	Provide dimension from PL to services. Large water DPS service to be in own trench. For typical dual and single services for single family, duplex, and	District Energy Sharing Systems Standards, 4
	Water Services		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 DPS Service	Infrastructure with a thrust block (reducer, tee, cross or bend) Water Joint	1.5m 1.5m	Clearance is from the joint not from the center of fitting (tee, cross,	
DF3 Service	Water Joint	1.5111	bend, etc.). Clearance also applies to tie in joints (i.e. plugs after BVs).	
DPS Service	Water mainstop	0.3m	If a DPS main is crossing a WM it needs to be 1.5 m from any water joints.	
Domain Infrastructure	Subdomain Infrastructure	Subdomain: Landscaping (Volume Minimum Clearance	 5)* Notes	
All DPS infrastructure DPS Main/Branch, Services, Manual air	Soil cells Fence	1.5m (2.5 preferred) 1.2m	Soil cells not permitted above DPS Mains/Branches For fencing on private property, offset for fencing on public property	
vents, MH DPS Main/Branch, Services, Manual air	Deciduous tree	1.8m	will be at 1.2m or greater, at the discretion of the City Ensure that these dimensions are measured from the actual service	
vents, MH DPS Main/Branch, Services, Manual air vents, MH	Coniferous tree	3.5m	locations and not the property line. Ensure that these dimensions are measured from the actual service locations and not the property line.	District France
Valve, curb cock (CC), DPS Main/Branch, Manual air vents, MH	Movable street and parks furniture including but not limited to benches, tables, and waste	1.5m		District Energy Sharing Systems Standards, 5
DPS Valve, DPS curb cock (CC), DPS	receptacles Immovable street and parks	3.0m		
Main/Branch, manual air vents, MH	furniture including but not limited to signs, public art, and retaining walls			
	waiis	Out the section Of the Allert the Conference		
	Subdomain Infrastructure	Subdomain: Streetlighting (Volume Minimum Clearance	Notes	
DPS Main/Branch, Services, Manual air vents, MH	Subdomain Infrastructure Streetlight pole (centre of pole) Streetlight pole (centre of pole)			District Energy Sharing Systems
DPS Main/Branch, Services, Manual air vents, MH DPS services	Streetlight pole (centre of pole) Streetlight pole (centre of pole) Streetlight pole (centre of pole)	Minimum Clearance 1.8m	Notes Edge to edge with pedestal, transformer, telecommunication	
DPS Main/Branch, Services, Manual air vents, MH DPS services DPS Main/Branch	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 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 vents	Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers)	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 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	Streetlight pole (centre of pole) S 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 required at the discretion of EPCOR D&T and will be	Sharing Systems
vents, MH DPS services DPS Main/Branch Domain 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	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 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 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 DPS Services DPS Services	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 1.8m 1.8m 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. Minimum distance between CC and any power cables.	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	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 5.0m Minimum Clearance 4.5m 5.0m 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
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	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	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	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 MH	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)	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m	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 Services DPS Valves and DPS curb cocks DPS Valve and DPS curb cocks DPS Valve casings DPS Main/Branch DPS Main/Branch	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)	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m	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 Services 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	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	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 MH DPS Main/Branch DPS Main/Branch	Streetlight pole (centre of pole) 1	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m Minimum Clearance 4.5m 5.0m 1.8m 1.0m 1.8m 1.0m 1.5m 3.0m 3.0m 2 m from edge of pipe 4 m from edge of pipe	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 bervices 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 Valves and DPS curb cocks DPS Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS MH DPS Main/Branch DPS Main/Branch DPS Main/Branch	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 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 Services 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	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	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 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	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	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 1.8m 5.0m 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 5.0m 5.0m 5.0m 5.0m 5.0m 5.0m 5.0m 5.0	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 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 Main/Branch DPS Valve or DPS appurtenances is crossed on both sides	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 Gas main Gas mains or ductlines	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 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 5 See Notes 3.0m 1.8m 5 Subdomain: Gas Minimum Clearance 1.8m 1.0m	Notes	Sharing Systems Standards, 6 District Energy Sharing Systems
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DPS Main/Branch, Services, Manual air vents, MH 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 Valve or DPS appurtenances is crossed on both sides DPS Valve casings DPS MH DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Services DPS Services	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) Ad-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 5.0m 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 5 See Notes 3.0m 1.8m 5 Subdomain: Gas Minimum Clearance 1.8m 1.5m 1.5m 1.8m Subdomain: Telecommunication: Subdomain: Telecommunication:	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
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 Valve casings DPS MH DPS Main/Branch DPS Valve or curb cock (CC) DPS Valve or OPS appurtenances is crossed on both sides DPS MH DPS Services DPS Services Domain 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 Gas main Gas mains or ductlines Gas mains or ductlines Gas services and gas crossings	Minimum Clearance 1.8m	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 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 and DPS curb cocks DPS Valve casings DPS Main/Branch DPS Main/Branch	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 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 Standards District Energy Sharing Systems Standards
DPS Main/Branch, Services, Manual air vents, MH DPS services 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 DPS Services DPS Valve or Curb cock (CC) DPS Valve or DPS appurtenances is crossed on both sides DPS Services DPS MH DPS Services DPS Main/Branch DPS Services DPS Main/Branch DPS Services DPS Main/Branch Valve or curb cock (CC) DPS MH DPS Main/Branch Valve or curb cock (CC) DPS MH	Streetlight pole (centre of pole) Subdomain Infrastructure 1-phase pad-mounted equipment (transformers) 3-phase pad-mounted equipment (transformers) 9-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) Fad-mounted equipment High Voltage Power Cable (>40 kV) Pad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines Gas mains or ductlines Gas services and gas crossings Gas mains or ductlines Subdomain Infrastructure Telecommmunication cable cubicles, poles and pedestals Telecommmunication cable Telecommmunication cable	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0bdomain: 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 5ee Notes 3.0m 1.8m Subdomain: Gas Minimum Clearance 1.8m 1.5m 1.5m 1.8m 1.5m 1.8m 1.5m 1.8m 1.5m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8	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, 7
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 Valve 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 DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Services DPS Services DPS Services DPS Main/Branch Valve or curb cock (CC) DPS Main/Branch Valve or curb cock (CC) DPS Main/Branch Valve or curb cock (CC) DPS MH	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 mains or ductlines	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 1.8m 1.8m 1.0m 1.8m 1.5m 3.0m 3.0m 2 m from edge of pipe 4 m from edge of pipe 4 m from edge of pipe 4 m from edge of pipe 1.8m 1.5m 3.0m 1.8m 1.5m 3.0m 1.8m 1.8m Subdomain: Gas Minimum Clearance 1.8m 1.0m 1.8m 1.5m 1.5m 1.5m 1.8m 1.5m 1.5m 1.8m 1.5m 1.5m 1.8m 1.8m 1.5m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 1.8	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
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 Valve 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 DPS Main/Branch DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is crossed on both sides DPS Services DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Valve or curb cock (CC) DPS Services DPS Services DPS Mein/Branch DPS Services DPS Mein/Branch DPS Services DPS Mein/Branch DPS Main/Branch DPS Services DPS Mein/Branch DPS Main/Branch DPS Mein/Branch DPS Mein/Branch DPS Mein/Branch	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 Pad-mounted equipment Main power Cable (<=750 V) Primary Power Cable (<=40 kV) Pighary Power Cable (<=40 kV) High Voltage Power Cable (>40 kV) Rad-mounted equipment Grounding rods Subdomain Infrastructure Gas main Gas mains or ductlines Gas mains or ductlines	Minimum Clearance 1.8m 1.8m 1.8m 1.8m 1.8m 1.8m 5.0m 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 5 See Notes 3.0m 1.8m 5 Subdomain: Gas Minimum Clearance 1.8m 1.5m 1.5m 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

	omain: Landscaping (Volume 5) (SEE Al Subdomain: Complete Streets			
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes fron
rees	Face of Curb (Local)	1.0m, 1.25m preferred	Trees to be placed in line with or further from Face of Curb than Streetlight Poles.	Standards)
Trees	Edge of Sidewalk, Walkway,		Trees to be placed in line with or further from Pace of Curb than Streetinght Poles.	1
Trees	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	-
			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 All other signs	3.5m 2.0m		-
Trees	Transit zones/bus pads	3.5m	In addition to the 3.5 m clearance, ensure trees do not create sightline obstructions for vehicles	1
Trees	Intersection	15m	approaching transit zones.	2,5
Trees (in walkway or shared-use path ROW)	Property line	1.0m		2,3
Trees (in boulevard) Deciduous trees (in open parkland)	Property line Property line	1.0m 2.5m	From centre of tree, in open parkland where there is turf between the fence and the tree rather than a	_
	Property line		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 tree rather than a bed.	
Shrubs	Edge of Sidewalk, Walkway and	0.5m	Shrubs at maturity.	1
Mulched beds	Shared-Use Path Boulevard curb	2.5m	Within boulevard curb along arterial and collector roadways.	1
Benches	Back of walkway	1.0m		1
Litter receptacle Picnic Table	Edge of Walk Back of walkway	0.6m 1.0m		-
	Subdomain: EPCOR D			
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Trees Trees	Storm and sanitary services Storm and sanitary manholes	1.8m 1.8m		3,5
11000	Subdomain: EPCOR W			
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Soil cells	All water infrastructure	See Volume 4 Section 1.15		
Fence	Valve, hydrant, curb cock (CC), or	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	1
Deciduous tree	watermain Watermains, services, manual air	1.8m	Ensure that these dimensions are measured from the actual service locations and not the property	1
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	1
	vents		line.	
Deciduous tree Coniferous tree	Hydrant	3.5m 7.0m		1
Shrubs	Hydrant Hydrant	1.0 m behind hydrant and		4,5
	1.7	1.5 m on either side of the hydrant (extending to		
		road)		
Movable street and parks furniture including but not limited to benches, tables, and waste receptacles	Valve, hydrant, curb cock (CC), or watermain	1.5m		
Immovable street and parks furniture including but not limited to signs, public art, and retaining walls	Valve, hydrant, curb cock (CC), or	3.0m		1
Provide a dimension from the landscaping element to the wa	watermain ter appurtenance if:			1
Within 3.0 m of water service Within 5.0 m of valve, hydrant or curb cock or any othe				
Within 5.0 III of Valve, flydrafit of curb cock of any other	Subdomain: Landsc	aping (Volume 5)		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Shrub beds and planting beds	Shrub bed, fence, furniture, buildings, trees, and any other obstruction	2.5m		
Shrub beds, planting beds, and trees	Any play space envelope (playground	5m		
	aguinment and anlach parks)		Markley 500 and (0.5 and a few dates of the section	
Shrub beds and planting beds	equipment and splash parks) 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
	Edge of bed		the bed	
Shrub beds and planting beds Coniferous Tree	Edge of bed Edge of bed	0.5m		
Coniferous Tree	Edge of bed Edge of bed Bench	0.5m 3.0m	the bed Must be 500 mm (0.5 m) of mulched space between the edge of the mature confirerous tree and the	
Coniferous Tree Litter receptacle	Edge of bed Edge of bed	0.5m 3.0m	the bed Must be 500 mm (0.5 m) of mulched space between the edge of the mature confirerous tree and the	
	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries	0.5m 3.0m Iffleash Areas (Volume 5)	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the	
Coniferous Tree Litter receptacle Domain Infrastructure	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure	0.5m 3.0m ffleash Areas (Volume 5) Minimum Clearance	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 Notes	
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that	0.5m 3.0m Winimum Clearance 100m	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City.	
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads	0.5m 3.0m ffleash Areas (Volume 5) Minimum Clearance 100m	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. Unless separated by fencing or other mitigation methods and at the discretion of the City	N/A (these specific offsets i
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and	0.5m 3.0m Siffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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	N/A (these specific offsets i Table of Offsets
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area Offleash Area Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails	0.5m 3.0m Iffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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	N/A (these specific offsets i
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and pionic areas	0.5m 3.0m #ffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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	N/A (these specific offsets i Table of Offsets
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area Offleash Area Offleash Area Offleash Area Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentality sensitive areas	0.5m 3.0m ##fleash Areas (Volume 5) ##inimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 Unless separated by fencing or other mitigation methods and at the discretion of the City	N/A (these specific offsets i Table of Offsets
Coniferous Tree Litter receptacle Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig	3.0m 3.0m 3.0m Fifleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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 As determined on a case by case basis with the City	N/A (these specific offsets Table of Offset:
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentality sensitive areas	0.5m 3.0m ##fleash Areas (Volume 5) ##inimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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	N/A (these specific offsets Table of Offset only)
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Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and 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	0.5m 0.5m 3.0m Iffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case shting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7)	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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 Notes For arterial road boulevards	N/A (these specific offsets Table of Offset only)
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Domain Infrastructure Trees Trees Domain Infrastructure	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and pienic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlight cable Subdomain: EPCOR	0.5m 3.0m iffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m Power (Volume 7) Minimum Clearance	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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 As determined on a case by case basis with the City Notes Notes	N/A (these specific offsets Table of Offset only)
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Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Trees Trees Domain Infrastructure Trees Trees Trees Trees Trees Trees Trees	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and pionic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain Infrastructure Streetlights and power poles Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench	0.5m 0.5m 3.0m Iffleash Areas (Volume 5) Minimum Clearance 100m 50m 25m 25m 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 doors open 2.0m on sides 3.0m infont of doors	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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. 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. 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. As determined on a case by case basis with the City. Notes 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	N/A (these specific offsets Table of Offset only)
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Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Trees Domain Infrastructure Trees Trees Trees Trees Trees and shrubs Trees and shrubs	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and pienic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench 3-phase switching cubicle	0.5m 3.0m iffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m 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	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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. 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. 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. As determined on a case by case basis with the City. Notes 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	N/A (these specific offsets i Table of Offset only)
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Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area Trees Domain Infrastructure Trees Trees Trees Trees Trees Trees and shrubs	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench 3-phase switching cubicle Transformer Power crossings 1-phase switching cubicle	0.5m 3.0m ffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m 3.0m clearance 1.0m 3.0m on each side where doors open 2.0m on sides 3.0m intont of doors 1.5m behind base 1.0m 3.0m front 4.0m sides 3.0m front 4.0m sides 5.5m behind base SEE NOTES	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City 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 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 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 As determined on a case by case basis with the City Notes 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	N/A (these specific offsets i Table of Offset only)
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area Trees Domain Infrastructure Trees Trees Trees Trees Trees and shrubs	Edge of bed Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and 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: EPCOR 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	0.5m 3.0m iffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 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 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	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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 Unless separated by fencing or other mitigation methods and at the discretion of the City Notes Notes 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	N/A (these specific offsets Table of Offset only)
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Offleash Area Offleash Area Trees Trees Trees Trees Trees and shrubs	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure Streetlight cable Subdomain: EPCOR Subdomain Infrastructure Main power trench 3-phase switching cubicle Transformer Power crossings 1-phase switching cubicle	0.5m 3.0m iffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 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 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	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City 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 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 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 As determined on a case by case basis with the City Notes 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	N/A (these specific offsets i Table of Offset only)
Coniferous Tree Comain Infrastructure Offleash Area	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and 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 Transformer Power crossings 1-phase switching cubicle Power crossings Pad-mounted equipment Subdomain: Gas	0.5m 3.0m ffleash Areas (Volume 5) Minimum Clearance 100m 50m 50m 25m 25m 25m Determine case by case ghting (Volume 6) Minimum Clearance 3.0m 1.0m 3.0m clearance 1.0m 3.0m on each side where doors open 2.0m on sides 3.0m intont of doors 1.5m behind base 1.0m 3.0m front 4.0m sides 3.0m front 4.0m sides 5.5m behind base SEE NOTES SEE NOTES SEE NOTES	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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 Notes Notes 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 from edge of base Measured horizontally offset from the power crossing alignment From edge of base See Note 1 below See Note 1 below	N/A (these specific offsets i Table of Offset only)
Coniferous Tree Litter receptacle Domain Infrastructure Offleash Area Trees Trees Trees Trees Trees Trees Trees and shrubs Trees and shrubs	Edge of bed Edge of bed Bench Subdomain: Landscaping O Subdomain Infrastructure Residential Areas and cemeteries (property line) Arterial roads Golf Courses and public areas that attract high concentrations of people Multi-use trails and equestrian trails School grounds or play areas and associated walking routes Pools, splash parks, sports fields, and picnic areas Natural areas, wildlife corridors, and other environmentally sensitive areas Subdomain: Streetlig Subdomain Infrastructure 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 Subdomain: Gas	0.5m 3.0m iffleash Areas (Volume 5) iffleash Som 50m 50m 25m 25m 25m Determine case by case ghting (Volume 6) iffleash Minimum Clearance 3.0m 1.0m Power (Volume 7) iffleash 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 SEE NOTES and Pipelines	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 Notes Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City. 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 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 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 As determined on a case by case basis with the City Notes 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 See Note 1 below Contact the utility for setbacks	N/A (the specific offs Table of off only)

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)*		
		ubdomain: Complete Streets (Volume	. *	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes fron 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	
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		·
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlight Pole	Telecommunication lines and pedestals	1.0m		6

^{*}All measurements from centre of pole

			ADDITIONAL NOTES AT THE BOTTOM)	
Domain Infractructure		Omplete Streets and Road	, · · · · · · · · · · · · · · · · · · ·	Data Carre
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	(Volumes from Standards)
Transformer	Corner cut	6.0m		- Landalus)
Transformer	FOC	SEE NOTES	Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards.	
Transformer	Residential driveways	2.0m	From edge of equipment to driveway	1
Transformer/Switching cubicle	Bus stop pad	3.0m	From edge of bus pad to edge of base]
Transformer/Switching cubicle	Road crossing	3.0m	From centre to closest duct in crossing	
Transformer/Switching cubicle	Intersection edge of pavement Commercial/Industrial access edge of	15.0m 10.0m		_
Transformer/Switching cubicle	pavement	10.0m		0.7
Pad-mounted equipment Pad-mounted equipment	Edge of walkway property line Transportation control devices and signs	3.0m 3.0m	From edge of equipment to edge of walkway property line From edge of pad	2,7
1-phase or 3-phase cubicle	Corner cut	30.0m		1
Multiparty Trench	FOC	2.5m	Centerline of trench	1
Main power/multiparty trench	Property Line	1.0m	Actual required minimum offset may change depending on sidewalk type and alignment	
Power crossings	Bus stop pad	3.0m	of shallow utilities. From edge of bus pad to crossing	-
Power crossings	Corner cut	3.0m	- Tom suge of sue pad to stocomy	1
•	Subdo	omain: EPCOR Drainage(V	olume 3)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	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	4.5m	3.0 m is required from the ground grid to the other utility	1
3-phase pad-mounted equipment	sanitary services Manhole, catch basin, storm and	5.0m	3.0 m is required from the ground grid to the other utility	3,7
	sanitary services		, ,	
Power crossings	Catch basin, storm and sanitary	3.0m	Crossings in roadways must be 3.0 m from catch basins	
	services	domain: EPCOR Water (Vo	lume 4)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	1
1-phase pad-mounted equipment (transformers)	Water services and hydrants/flush	4.5m		
, , ,	points/air vents	E 0m		1
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	1
Davida della de 40 la/	National and and a sale	4.0	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	1.8m		1
Pad-mounted equipment	crossed on both sides Valve casings	1.5m	Edge to edge	-
Power cables <= 40 kV crossing between control valve and	Hydrants with control valves more than	Hydrants: 3m	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	
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	1
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.	1
High Voltage Power Cable (>40 kV)	Water Main	See Notes	To be designed based on safe limits of approach and excavation allowance.	1
Pad-mounted equipment Grounding rods	Watermain All water infrastructure	3.0m 1.8m		-
Power Poles and Pole Anchors	Watermain and Water services	1.8m		
		domain: Landscaping (Vol	ume 5)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Main power trench	Trees	1.0m	Measured from the main power cable.	
1-phase switching cubicle	Trees and shrubs	3.0m front 4.0m sides 2.5m behind base	From edge of base	
3-phase switching cubicle	Trees and shrubs	3.0m on each side where	From edge of base	1
Dad magnifed an income	I andesened seed sland	doors open	Can Note 4 halou	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	
Hallstoffiel	rices and sindus	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	1
Power crossings	Landscaped road island	SEE NOTES	See Note 1 below	
Domain Infractructure	- 1	Iomain: 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. See standard for trenching around street light pole bases (Volume 7: EPCOR D&T)	6,7
Power crossings	Streetlight Davit Poles or Contactors	1.5m	To the closest power crossing duct	
Domain Infrastructure	Subdomain Infrastructure	Subdomain: Gas Minimum Clearance	Notes	
Pad-mounted equipment	Gas crossing	3.5m	From centre of equipment (minimum 2.0 m grom ground grid)	1
Pad-mounted equipment ground grid	Main gas trench	1.0m	From ground grid to gas line trench	†
Main power trench	Main	1.0m / 0.3m	1.0m if gas is on a separate trench / 0.3m if gas is on a 4 (multi) party trench installed at	†
			the same time as power	7
Power crossings	Main	1.0m	If gas is a separate trench, should run parallel to power when crossing road or intersection	
Power crossings	Main or service	300mm	Contact EDTI Land Servcing to apply for an exception approval if crossing separation is less that 300mm	
		bdomain: Telecommunica	tions	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Pad-mounted equipment	Main communications trench	Common trench	See base standards and trough standards (Volume 7: EPCOR D&T)	1
Pad-mounted equipment	Communications pedestals	3.0m	If above ground metallis pedestal is within 3.0m from a pad-mounted equipment, bonding of the two equipment is required (see Note 2 below)	
Primary or secondary cables	Communication vault	300mm	Minimum clearance between edge of communication vault and edge of primary or secondary cable	7
Power crossings	To the closest power crossing duct	Power crossing	Communications equipment	<u>L</u>
		. , ,	IP for Servicing the Subdivision)	
		IMinimum Oleaner	181 4	1
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Domain Infrastructure Pad-mounted equipment Power crossings	From edge of right-of-way From edge of right-of-way	10.0m	From edge of pipeline right-of-way to edge of ground grid Power crossing ducts perpendicular to pipeline are to be extended a minimum of 5.0 m	7

ADDITIONAL NOTES

Consult with EDTI Land Servicing for discussion of applying Volume 7 Exception Approval Request for any deviation to these approved clearances, due to specific circumstances.

Note 1: Reference to the City of Edmonton's Design and Construction Standards Volume 5 – Landscaping 5.13, 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 above-ground metallic communication pedestals are placed within 3.0m from the edge of a pad mounted pwoer equipment, the two pievced of equipment shall be bonded. A detail draiwng is required.

Note 3: 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.

City of Edmonton Consolidated Design Exception Form

PROJECT INFORMATION	
Project Title	
Project Limits, Address, LDA Number, Stage Number, Contract Number	
WR# or WO# (if applicable)	
Design Engineer / P.Tech	
Project Manager	
Project Type	Describe the type of civil works project that requires a design exception (i.e. electrical upgrade, drainage installation, road works, etc.)
Exception Requested	Describe the exception you are requesting and identify the standards document (most recent published version/volume), specific text, drawings, and/or section you are requesting exception from? Indicate the design element or combination of elements which the design exception is proposed for (e.g. curb radius; lane width; offset; etc.).

DESIGN EXCEPTION INFORMATION	
Background, Location, Context	Explain the type of exception (e.g. lack of required separation between infrastructure, minimum dimensions not satisfied, etc.) and where it will apply (e.g. located within the Road Right of Way on the north side of street between cross roads; intersection; intersection quadrant; neighbourhood; or within walkway between lot/block numbers). Include a site plan as an attachment. Describe the context of the exception (e.g. adjacent land use, local conditions, street classification, anticipated infrastructure demands, previous projects, or existing design
Rationale	What is the rationale for the design exception? Include any supporting documents as applicable such as 1) calculations and/or modeling results; 2) supporting detailed engineering drawings (e.g. utilities drawings, plan & profiles, cross-sections, swept path analysis, etc. as attachment pages); and 3) previous documents, amendments, or approvals that provide further justification for the requested exception.
Alternatives Considered	What alternatives (if any) were considered in the decision? What is the benefit of and what are the impacts avoided with the identified solution(s) over other alternatives considered?
Potential Impacts and Risks	What are the potential impacts and risks? Evaluate the potential risks associated with the exception (e.g. health and safety, property damage, etc.), including potential impacts to the City/EPCOR related to the service life of infrastructure, operation and maintenance requirements, and overall performance. Include safety risk level (e.g. margina, nominal, substantive).
Mitigation Measures	What proposed/additional mitigation measures are being included to reduce and offset the potential impacts and risks of the exception (e.g. signage, vehicle restrictions, etc.)? Identify each risk and their details, including supporting calculations (be conservative in approach).
Supporting Information (if applicable)	What (if any) additional supporting documents, data, or technical resources were used in making the decision (e.g., research papers, best management practices, other municipal/provincial/federal guidelines, etc.)?

SUBMITTED BY:					
Name			Authentication (red	quired)	Validation (required)
Title					
Company					
Primary Contact					
Date of Submission					
Inspector Name (if applicable)					
	I certify the information provid application is accurate and or documents, details, specifical information contained in this that is the subject of this appl	omplete. All drawings, tions and supporting application pertain to the project			
Signature(s)	Developer/Consultant Representative	Inspector (if applicable)			
Date(s)					
Dutc(0)					<u></u>
		Internal C	ity / EPCOR Use Only		
ACCEPTANCE / REJEC	TION				
	Accepted	Rejected			
Decision					
	•				
INTERNAL SIGN OFF					
	Designer	Engineer	Manager		Comments
Name					Comments
Title					
Department					
Primary Contact					
Date					
Signature					
Sign Off Requirements:	Volume 2:	Design Reviewer, Supervisor (I	Manager)		
	Volume 3:	Design Reviewer, Engineering	Reviewer, Land Servicing Mana	ger	

Disclaimer: Unless prior written approval has been obtained, developers or their representatives must follow and meet all of the requirements within the applicable design standards. This exception approval request is project specific and does not apply to other projects. All other requirements not varied by this exception shall continue to apply, including, but not limited to, other applicable guidelines, standards, codes, agreements, and contracts.

Volume 4: Volume 5: Volume 6: Volume 7: Volume 8: