Table of Minimum Offsets

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

DISCLAIMER:

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

Version History

January 11, 2022 Version:

Disclaimer added and source volumes. Minor format changes.

June 30, 2021 Version:

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

April 28, 2021 Version:

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

Pre April 28, 2021 version:

Originally released Table of Offsets

		omain: Complete Streets (Volume 2)		
Domain Infrastructure	Subdomain Infrastructure	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
Shared-use paths, walkways, and sidewalks	Property line	0.3m	Property line to edge of shared-use path, walkway, or sidewalk	
Domain Infrastructure	Subdomain Infrastructure	odomain: EPCOR Drainage (Volume 3) Minimum Clearance	Notes	
ace of Curb	Sanitary and storm mains	1.5m	Notes	
Curb Ramps	Catchbasins and catchbasin manholes	0.5m		
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.	2,0
Intersection	Catchbasins	Locate at End of Curve OR Beginning of Curve and not within the curb ramp and		
	91	crosswalk ubdomain: EPCOR Water (Volume 4)		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
PL Face of Curb (FOC)	Curb cock Watermain	0.1m 1.5m (<= 400 mm mains)	0.3m from PL for side lot services	
FOC	Watermain Watermain in alley, utility lot,	2.0m (> 400 mm mains)		
PL PL	walkway, or URW Water services	1.2m (preferably 2.0m) Extend service into lot 1.5m beyond the edge of the shallow utility easement	Mains in walkways are to be dimensioned to side PL. 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	Flushpoint	1.5m	Plug is 5.0m from PL	
FOC	Hydrant	Preferred: 3.0m for any ROW with Monowalk.	If the monolithic walk is greater than 2.5 m wide, include a 90 degree bend in the hydrant lead and	
		Min 1.5 m - max 3.5 m offset acceptable.	locate the hydrant and the control valve 0.3 m behind the back edge of the walk.	2,4
FOC Edge of Walk	Hydrant Hydrant	1.5m for any ROW with Separate Walk 0.3m	boulevard or where no walk exists.	
Edge of Bus Stop	Hydrant	6.0m	Hydrants located within 45 m of the approach side of the bus stop or 15 m of the departure side must be labeled "To be white disked (Fire Dept. Use Only) at commissioning."	
Edge of Driveway	Hydrant	To be located on the opposite lot line from	If unable, minimum 1.5m (preferably 2.0m)	
Corner of intersection Alley	Hydrant Valves	To be installed at the beginning of the 6.0m of the approach &	Where not in conflict with item 4.2.14.	
Arterial road & collector road intersection Property Line	Valves Valves	30m To be located on the projection of PL,		
Itility lot, walkway or URW	Valves	0.5m from PL or its projection		
Domain Infrastructure	Subdomain Infrastructure	ubdomain: Landscaping (Volume 5) Minimum Clearance	Notes	
FOC (local) FOC (Collector)	Trees (centre of tree) Trees (centre of tree)	1.0m, 1.25m preferred 1.25m / 1.65m	1.25 m ROW < 20m, 1.65 m ROW > 20m.	
FOC (Arterial)	Trees (centre of tree)	2.0m	1.25 III ROW \ 2011, 1.05 III ROW > 2011.	
ntersection Jse Path	Trees (centre of tree) Trees (centre of tree)	15m 1.0m, preferred 1.5m		
Edge of Sidewalk, Walkway and Shared-Use Path	Shrubs	0.5m	Shrubs at maturity	
Edge of walk	Litter receptacle	0.6m		
Edge of commercial or industrial access Back of walkway	Trees (centre of tree) Benches	1.5m 1.0m		
Back of walkway Boulevard curb	Picnic Table Mulched beds	1.0m 2.5m	Within boulevard curb along arterial and collector	2,5
Stop signs and yield signs	Trees (centre of tree)	3.5m	Within bodic vara darb along arterial and dollector	
All other signs Transit zones/bus pads	Trees (centre of tree) Trees (centre of tree)	2.0m 3.5m	create sightline obstructions for vehicles approaching	
Property line	Trees (centre of tree, in walkway	1.0m 1.0m		
Property line Property Line	Trees (centre of tree, in Deciduous trees (in open	2.5m	From centre of tree, in open parkland where there is	
Property Line	parkland) Coniferous trees (in open	2.5m	turf between the fence and the tree rather than a bed. From edge of mature spread of tree, in open	
	parkland)		parkland where there is turf between the fence and the tree rather than a bed.	
Domain Infrastructure	Subdomain Infrastructure	ubdomain: Streetlighting (Volume 6) Minimum Clearance	Notes	
FOC	Streetlight Pole (centre of pole)	Collectors; 2.0m along Arterials; 2.6m for		
FOC ntersection	Multiparty trench Streetlight Pole (centre of pole)	2.5m 0.9m	Centerline of trench	
Edge of sidewalk or walkway Edge of shared-use paths	Streetlight Pole (centre of pole) Streetlight Pole (centre of pole)	0.5m / preferred 1.0m 0.5m / preferred 1.5m		2,6
Driveway (Residential)	Streetlight Pole (centre of pole)	utility box		
Oriveway/Access (Commerical or Industrial)	10((1) 1 () () ()	· .		I
Driveway/Access (Confinencial of Industrial)	Streetlight Pole (centre of pole)	1.5m Ibdomain: EPCOR Power (Volume 7)		
Domain Infrastructure	Subdomain Infrastructure	Ibdomain: EPCOR Power (Volume 7) Minimum Clearance	Notes Centerline of tronch	
Domain Infrastructure FOC FOC	Subdomain Infrastructure Multiparty trench Transformer	Minimum Clearance 2.5m SEE NOTES	Notes Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards.	
Domain Infrastructure FOC FOC Corner cut	Subdomain Infrastructure Multiparty trench	Minimum Clearance 2.5m	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design	
Domain Infrastructure FOC FOC Corner cut Corner cut Corner cut	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards.	
Domain Infrastructure FOC FOC Corner cut Corner cut Corner cut Bus stop pad Road crossing	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m 3.0m 3.0m 3.0m	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing	
Corner cut Bus stop pad Road crossing Transportation control devices and signs	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m 3.0m	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base	2,7
Corner cut	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway	2,7
Corner cut Corner cut Corner cut Corner cut Corner cut Corner cut Bus stop pad Road crossing Transportation control devices and signs Bus stop pad Residential driveways Intersection edge of pavement	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m 3.0m 3.0m 3.0m 3.0m 3.0m	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing	2,7
Corner cut	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer Transformer/Switching cubicle	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway	2,7
Corner cut Corner cut Corner cut Bus stop pad Road crossing Transportation control devices and signs Bus stop pad Residential driveways Intersection edge of pavement Commercial/Industrial access edge of pavement Edge of walkway property line	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway From centre of transformer/switching cubicle From edge of equipment to edge of walkway property	2,7
Corner cut Corner cut Corner cut Corner cut Bus stop pad Road crossing Fransportation control devices and signs Bus stop pad Residential driveways Intersection edge of pavement Commercial/Industrial access edge of pavement Edge of walkway property line	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer Transformer Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 30m 3.0m 3.0m 3.0m 3.0m 1.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway From centre of transformer/switching cubicle From edge of equipment to edge of walkway property line Actual required minimum offset may change depending on sidewalk type and alignmnt of shallow	2,7
Corner cut Corner cut Corner cut Bus stop pad Road crossing Transportation control devices and signs Bus stop pad Residential driveways Intersection edge of pavement Commercial/Industrial access edge of pavement Edge of walkway property line PL Comain Infrastructure	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching trench Main power/Multiparty trench	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway From centre of transformer/switching cubicle From edge of equipment to edge of walkway property line Actual required minimum offset may change depending on sidewalk type and alignmnt of shallow utilities.	2,7
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Domain Infrastructure FOC FOC Corner cut Corner cut Corner cut Bus stop pad Road crossing Transportation control devices and signs Bus stop pad Residential driveways Intersection edge of pavement Commercial/Industrial access edge of pavement Edge of walkway property line PL Domain Infrastructure FOC Domain Infrastructure FOC Domain Infrastructure Location of all surface appurtenances associated with underground utilities (including, but not limited)	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Main power/Multiparty trench Subdomain Infrastructure Multiparty trench Subdomain Infrastructure Multiparty trench	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway From centre of transformer/switching cubicle From edge of equipment to edge of walkway property line Actual required minimum offset may change depending on sidewalk type and alignmnt of shallow utilities. Notes Centerline of trench Notes Centerline of trench	2
Domain Infrastructure Corner cut	Subdomain Infrastructure Multiparty trench Transformer Power crossings Transformer 1-phase or 3-phase cubicle Transformer/Switching cubicle Pad-mounted equipment Power crossings Transformer Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Transformer/Switching cubicle Pad-mounted equipment Main power/Multiparty trench Subdomain Infrastructure Multiparty trench Subdomain Infrastructure Multiparty trench	Minimum Clearance 2.5m SEE NOTES 3.0m 6.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3.0m 3	Centerline of trench Offset is required. See the specific and applicable cross-section(s) found in Complete Streets Design and Construction Standards. From edge of bus pad to edge of base From centre to closest duct in crossing From edge of pad From edge of bus pad to crossing From edge of equipment to driveway From centre of transformer/switching cubicle From edge of equipment to edge of walkway property line Actual required minimum offset may change depending on sidewalk type and alignmnt of shallow utilities. Notes Centerline of trench Notes Centerline of trench	2

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Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes from Standards)
Face of Curb	1.5m		
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	
Curb Ramps	0.5m		2,3
Driveways	1.5m	Edge of driveway.	2,3
Intersection	Curve and not within the curb ramp and	F Control of the cont	
Subdomain: EP			
	,	Notes	T
Watermain	2.5m (preferably 3.0m)	Additional clearance may be required at the Engineer's (EWSI)	
Watermain	0.3 m when crossing under water main 0.5 m when crossing over water main	Catch basin leads must be shown where they cross water mains.	
Watermain	2.5m		
		From the centreline to centreline (watermains <= 600 mm)	
	1.5m		
	\		_
	. ,		
	0.15m	•	
Large water service, Ø100 & larger		own trench.	
Water Services	0.3 m	semi-detached lots. Services 50mm and smaller to be laid in same trench as storm and sanitary services, to the right of the sanitary	
Water Camina	0.0	service when facing lot to be served.	3,4
			4
			4
		service cannot be between a storm main and a sanitary main.	r _
		Clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	
Hydrants	2.5m		
Valve	3.0m		
block (reducer, tee, cross or	1.5m		
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)	
Water mainstop	0.3m		1
	ndscaping (Volume 5)		
	<u> </u>	Minimum Clearance	
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		Notes	I
		110.00	3,6
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<u>'</u>			- -
<u> </u>		Crossings in roadways must be 3.0 m from catch basins	
			1
		Notes	
Gas crossings and line	Minimum 1.5m, preferred 3.0m		
Con amonain ma and line	Minimum 1.5m, preferred 3.0m		3
Gas crossings and line	William T.om, professed 6.6m		_
•	Minimum 1.5m, preferred 3.0m		1
Gas crossings and line	•		
Gas crossings and line Subdomain: T	Minimum 1.5m, preferred 3.0m	Notes	
Gas crossings and line Subdomain: T	Minimum 1.5m, preferred 3.0m elecommunications	Notes	3
	Subdomain: Complete St Subdomain Infrastructure Face of Curb Bus stop pad Curb Ramps Driveways Intersection Subdomain: EP Subdomain Infrastructure Watermain Watermain Watermain Watermain Watermain Large water service, Ø100 & larger Water Services	Face of Curb	Subdomain: Complete Streets and Roadways (Volume 2)

	Domain Infrastructure	Subdomain Infrastructure	Subdomain: Complete Streets (Volu Minimum Clearance *(Unless otherwise specified)	Notes	Data Source (Volumes fro
4.2 4.2.1	Curb cock	PI	0.1m	0.3m from PL for side lot services	Standards)
4.2.2 4.2.3	Watermain Watermain	Face of Curb (FOC)	1.5m (<= 400 mm mains) 2.0m (> 400 mm mains)		
4.2.4	Watermain in alley, utility lot, walkway, or URW	PL	1.2m (preferably 2.0m)	Mains in walkways are to be dimensioned to side PL.	
405	Water services	PL	Extend service into lot 1.5m beyond the edge of the shallow utility easement	easement, the water service shall extend into the lot a minimum of	
4.2.5 4.2.6	Flushpoint	PL	1.5m	1.5m beyond the property line. Plug is 5.0m from PL	
4.2.7	Hydrant	FOC	Preferred: 3.0m for any ROW with Monowalk. Min 1.5 m - max 3.5 m offset acceptable.	If the monolithic walk is greater than 2.5 m wide, include a 90 degree bend in the hydrant lead and locate the hydrant and the control valve 0.3 m behind the 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 exists.	
4.2.9	Hydrant Hydrant	Edge of Walk Edge of Bus Stop	0.3m 6.0m	Hydrants located within 45 m of the approach side of the bus stop or 15	2,4
4.2.10	.,,	9		m of the departure side must be labeled "To be white disked (Fire Dept. Use Only) at commissioning."	
	Hydrant	Edge of Driveway	To be located on the opposite lot line from driveway	If unable, minimum 1.5m (preferably 2.0m)	
4.2.11					
4.2.12	Hydrant	Corner of intersection	To be installed at the beginning of the curve of the curb return	Where not in conflict with item 4.2.14.	
4.2.13	Valves Valves	Alley Arterial road & collector road	6.0m of the approach & 3.0m of the departure		
4.2.14	Valves	intersection Property Line	To be located on the projection of PL, where		
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		
4.3	Domain Infrastructure		Subdomain: EPCOR Drainage (Volume 3) Minimum Clearance *(Unless otherwise	Notes	
4.3.1	Watermain	Sanitary & Storm Main	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.	
4.3.2	Watermain	Sanitary Main, Storm Main and Catch Basin Leads Crossing	0.3 m when crossing under water main 0.5 m when crossing over water main	Catch basin leads must be shown where they cross water mains.	
4.3.3 4.3.4	Watermain Watermain	MH Oversized MH (Ø1800 & larger)	2.5m 3.0m	From the centreline to centreline (watermains <= 600 mm)	
4.3.5 4.3.6	Watermain Watermain	Catch Basin Catch Basin lead	1.5m 2.5m (preferably 3.0m)	` '	
4.3.7	Watermain Watermain	Storm Sanitary service Storm and Sanitary service	2.5m (preferably 3.0m) 0.15m	When paralleling main	
4.3.8	Large water service, Ø100 & larger	crossing Storm Sanitary service	3.0m	Vertical Crossing Provide dimension from PL to services. Large water service to be in	_
4.3.9	Water Services	Storm Sanitary service	0.3 m	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	
4.3.10				storm and sanitary services, to the right of the sanitary service when facing lot to be served.	3,4
4.3.11 4.3.12	Water Services Water Services	MH shaft Catch Basin	2.0m 2.5m		
4.3.13	Water Services Water Services	Catch Basin lead Storm and Sanitary Main	2.5m 1.5m (2.5m preferred)	For small services only (50mm and smaller). When paralleling. Water	-
4.3.14 4.3.15	Water Services	Storm and Sanitary joint	1.5m	service cannot be between a storm main and a sanitary main. Clearance is from joint, not centre of fitting (tee, cross, bend, etc.)	1
4.3.16	Hydrants Valve	Storm and Sanitary service CB lead	2.5m 3.0m	, , , , , , , , , , , , , , , , , , , ,	
4.3.18	Infrastructure with a thrust block (reducer, tee, cross or bend)	Drainage Infrastructure or non- potable water infrastructure	1.5m		
	Water Joint	Drainage Infrastructure or non- potable water infrastructure	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).	
4.3.19		including storm and sanitary services		, , , , , , , , , , , , , , , , , , ,	
4.3.20	Water mainstop	Storm inline tee/ sanitary core-bell insert and service line	0.3m		1
4.4	Domain Infrastructure		domain: General / EPCOR Water (Volume 4) Minimum Clearance *(Unless otherwise	Notes	
4.4.1	Watermain	Watermain	1.5m	If the carriageway allows for two water mains to be located within the	
4.4.2	Watermain	Any other utility crossing the water main	1.0 m vertical	Does not include storm and sanitary sewer mains and DPS mains.	1
	Tapping Valve Sleeve (TVS)	All pipe joints, including other appurtenances, including other	1.5m	y constraint and by c mains.	
4.4.3	Water mainstop	tapped valves To other mainstop including	0.6m		
4.4.4		adjacent bell, collar, plug or coupling			4
4.4.5	Water mainstop	From any water joint i.e., bend, tee, cross, valves, etc.	0.6m		
4.4.6	Water mainstop	Storm inline tee/ sanitary core-bell insert and service line	0.3m		
-	Water Main and Any Utility Crossing	Deflection or joint on either utility (including water main)	1.5 m horizontal separation	All crossings shall be at 90 degrees to the water infrastructure. If this cannot be achieved, the crossing shall not be at an angle of less than	1
4.4.7			Subdomain: Landscaping (Volume 5)*	45 degrees.	
4.5 4.5.1	Domain Infrastructure All water infrastructure	Subdomain Infrastructure Soil cells	Minimum Clearance See Volume 4 Section 1.15	Notes	
4.5.1	Valve, hydrant, curb cock (CC), or watermain	Fence	1.2m	For fencing on private property, offset for fencing on public property will be at 1.2m or greater, at the discretion of the City.	
4.5.3	Watermains, services, manual air vents	Deciduous tree	1.8m	be at 1.2m or greater, at the discretion of the City. Ensure that these dimensions are measured from the actual service locations and not the property line.	1
4.5.4	Watermains, Services, manual air vents	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.	1
4.5.5 4.5.6	Hydrant Hydrant	Deciduous tree Coniferous tree	3.5m 7.0m		
4.5.7	Hydrant	Shrubs	1.0 m behind hydrant and 1.5 m on either side of the hydrant (extending to road)		
	Valve, hydrant, curb cock (CC), or watermain	Movable street and parks furniture including but not limited to			4,5
4.5.8		benches, tables, and waste receptacles			
	Valve, hydrant, curb cock (CC), or watermain	Immovable street and parks furniture including but not limited	3.0m		1
4.5.9		to signs, public art, and retaining walls			
. •	Provide a dimension	from the landscaping element to the Within 3.0 m of water service	e water appurtenance if:		1
4.5.10	Within 5.0 m of	f valve, hydrant or curb cock or any	other infrastructure		
	Domain Information	Pubdome!- !-fr	Subdomain: Streetlighting (Volume 6)	Notes	
4.6	Domain Infrastructure Hydrant	Streetlight pole (centre of pole)	Minimum Clearance 1.8m	Notes Edge to edge with pedestal, transformer, telecommunication cubicles &	
4.6.1	Water services	Streetlight pole (centre of pole)	1.8m	streetlightlight poles	4,6
4.6.3	Watermain	Streetlight pole (centre of pole)	1.8m Subdomain: EPCOR Power (Volume 7)	I .	
4.7	Domain Infrastructure Water services and hydrants/flush points/air	Subdomain Infrastructure 1-phase pad-mounted equipment	Minimum Clearance 4.5m	Notes	
4.7.1	vents Water services and hydrants/flush points/air	(transformers) 3-phase pad-mounted equipment	5.0m		1
4.7.2	vents Water services	(transformers) Power services and Power Cables		Clearance is from the actual water service location, not from the water	-
4.7.3	Valves and curb cocks	Paralleling Water Service Power cables <= 40 kV	1.0m	service symbol Minimum distance between CC and any power cables.	1
4.7.4	Valve or water appurtenances is crossed on		1.8m	Telecommunication cables, gas mains, duct lines	1
4.7.5 4.7.6	both sides Valve casings	Pad-mounted equipment	1.5m	Edge to edge	1
	Hydrants with control valves more than 2m from hydrant	Power cables <= 40 kV crossing between control valve and hydrant	Hydrants: 3m	Hydrant: 1.0m is allowed if encased in wood, trough to 1.5m on each side of	
4.7.7	Hydrants	Main power cable and duct bank	3.0m	hydrant See EDTI Standard for Trenching Around Hydrants for reduced	4,7
4.7.8	Hydrants	Power cables <= 40 kV	3.0m	clearances (Volume 7: EDTI Standards) 1.0m is allowed if encased in wood, trough to 1.5m on each side of	
4.7.9	Watermain	Secondary Power Cable (<=750	2 m from edge of pipe	hydrant	-
4.7.10	Watermain	V) Primary Power Cable (<=40 kV)	4 m from edge of pipe	Primary power to be located on opposite side of the road unless power	1
4.7.11	Watermain	High Voltage Power Cable (>40	See Notes	is in a four party trench or otherwise approved by the Engineer. To be designed based on safe limits of approach and excavation	1
4.7.12 4.7.13	Watermain	kV) Pad-mounted equipment	3.0m	allowance.	-
4.7.14	All water infrastructure	Grounding rods	1.8m Subdomain: Gas		
4.8	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
4.8.1 4.8.2	Watermain Valve or curb cock (CC)	Gas main Gas mains or ductlines	1.8m 1.0m		1
4.8.3	Valve or water appurtenances is crossed on both sides	Gas mains or ductlines	1.8m		
4.8.4	Hydrant	Gas mains or ductlines	1.5m	1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant	4
	Hydrants with control valves more than 2m from hydrant	Gas mains or ductlines crossing between control valve and hydrant	Hydrants: 3m Valves 1.0m	Hydrant: 1.0m is allowed if encased in wood, trough to 1.5m on each side of	4
4.8.5	Water services	Gas services and gas crossings	1.8m	hydrant Clearance is from the actual water service location, not from the water	1
4.8.6 4.8.7	Water services	Gas mains or ductlines	1.8m	service symbol	
			Subdomain: Telecommunications	Notes	
4.9	Domain Infrastructure Watermain	Subdomain Infrastructure Telecommmunication cable,	Minimum Clearance 1.8m	Notes	1
4.9.1 4.9.2	Valve or curb cock (CC)	cubicles, poles and pedestals Telecommmunication cable	1.0m	4.0m is allowed if an extended to the control of th	1
	Hydrant	Telecommunication cable	1.5m	1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant	
4.9.3	Valva or water accordance				4
4.9.3	Valve or water appurtenances is crossed on both sides	Telecommunication cable	1.8m	Hudroots	
		Telecommunication cable Telecommunication cable crossing between control valve and hydrant	Hydrants: 3m Valves 1.0m	Hydrant: 1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant	

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

March Marc		Domain: DF	PS Systems (Volume 1)* (SEE ADDITIONAL NO Subdomain: Complete Streets (Volum		
March Marc	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance *(Unless otherwise		(Volumes from
Processing	Curb cock DPS Main/Branch			0.3m from PL for side lot services	Standards)
Company	DPS Main/Branch DPS Main/Branch in alley, utility lot,	FOC	2.0m (> 400 mm mains)		-
April	walkway, or URW DPS Services	PL	Extend service into lot a minimum of 1.5m	If the DPS service enters a parcel where there isn't a shallow utility	
Company	Blow-off/Drain Manhole	PL			District Energy Sharing Systems Standards 2
March Marc	Valves	-	3.0m of the departure		Standards, 2
March Marc	Valves	intersection			-
Section Content of the Content o	Valves		possible or dimension to a PL 0.5m from PL or its projection		
The standard Service of them below Programmer Pro	Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance *(Unless otherwise		
Commonweight Comm	DPS Main/Branch	Sanitary & Storm Main			
Comment	DPS Main/Branch	Catch Basin Leads Crossing	0.5 m when crossing over DPS main/branch	Catch basin leads must be shown where they cross DPS main/branch.	
Procession Company C	DPS Main/Branch	Oversized MH (Ø1800 & larger)	3.0m	From the centreline to centreline (DPS main/branch <= 600 mm)	-
Company Comp	DPS Main/Branch DPS Main/Branch	Catch Basin lead	2.5m (preferably 3.0m)	When paralleling main	
The process 10	DPS Main/Branch	crossing			District Energy
The Content	DPS Services DPS Services			For typical dual and single services for single family, duplex, and semi-	Sharing Systems Standards, 3
Fig. 10 Company Comp	DPS Services	MH shaft	2.0m		-
The Control	DPS Services DPS Services				
Column C	DPS Services DPS Services	Storm and Sanitary joint	1.5m		
Section (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (DPS MH Valve	CB lead	3.0m		
Biochemic Informationary Polyments (Security Visions of Polymens Strong Control (Visions of Polymens Strong Control (Visions Control (Visions Strong	Infrastructure with a thrust block (reducer, tee, cross or bend)			lume 4)	
Septimination of the company of the	Domain Infrastructure DPS Main/Branch		Minimum Clearance *(Unless otherwise	Notes	
Description of the control of the co	DPS Main/Branch	Watermain	0.3 m when crossing under DPS main/branch	including when pipe diameters are greater than 300 mm. The DPS main should have the following	
Control Cont			0.5 m when crossing over DPS main/branch	0.3 m when DPS is crossing under water main	
1.				(measured from water main crown to DPS	
Post Name Secure of the content of the property and property of the proper				, and the second	
December	DPS Main/Branch	Watermain service	2.5m (preferably 3.0m)	non-potable mains when possible.	
Description Large reservation 100 at 1	DPS MH Oversized MH (Ø1800 & larger)	Watermain	3.0m		-
Proceedings Procedure Pr	DPS Service Crossing DPS Service	Large water service, Ø100 &		Provide dimension from PL to services. Large water DPS service to be	Criaing Cystems
September Common Infrastructure Common Infrastru	DPS Service		0.3m	For typical dual and single services for single family, duplex, and semi-	Standards, 4
DES position Fig. Securities Programme Fig. Securities Programme Program	DPS MH Shaft	1			
pick Services Infrastructure with a bind blook Sam	DPS joint	Water Services	1.5m		_
PRESIDENCE Section S	DPS Service DPS Service	Infrastructure with a thrust block			_
December West mainted December Decem	DPS Service		1.5m		-
Subdomain Infrastructure Subdomain Infrastr	DDO Overden	Matanasia	0.00		
MOP Services, Services, Manual art Per Namichander, Services, Manual art Per Nam		*	Subdomain: Landscaping (Volume		
seets. Members of the control of the	All DPS infrastructure	Soil cells	1.5m (2.5 preferred)	Soil cells not permitted above DPS Mains/Branches	
Discrete Every Common and Common Server Comm	vents, MH DPS Main/Branch, Services, Manual air			be at 1.2m or greater, at the discretion of the City	-
Valves, cut notes (CC) DPS Manifestands, Manual and vester, MAT street and parties familiate in Linding but not interest and parties familiate in Linding but not interest and parties in Linding but not but	vents, MH DPS Main/Branch, Services, Manual air	Coniferous tree	3.5m	Ensure that these dimensions are measured from the actual service	_
Sorrieste. Services. Deve of the CPS out not post (CP). PPS Maniferanch, manual air vents, MH The services of	Valve, curb cock (CC), DPS Main/Branch,		1.5m	locations and not the property line.	- District Energy Sharing Systems
Under Exercision of Exercision (Control of Exercision of Exercision of Exercision (Control of Exercision of Exercisi	•	benches, tables, and waste receptacles			Standards, 5
Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastruc	DPS Valve, DPS curb cock (CC), DPS Main/Branch, manual air vents, MH	furniture including but not limited	3.0m		
Domain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Size Supering Policy Center of policy 1 miles 1 mi					
Seeding the pole (centre of pole) 1 mm 1 m	Domain Infrastructure	Subdomain Infrastructure			
De Mainflaranch Streetlight pole (centre of pole) Subdomain: EPCOR Power (Volume 7) Domain Infrastructure Subdomain: EPCOR Power (Volume 7) Minimum Clearance Notes In This is the typical offset, However, deviation from this offset may be required at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discretion of EPCOR DAT and will be experted at the discret	vents, MH				District Energy Sharing Systems
Domain Infrastructure Subdomain Infrastructure Minimum Clearance Notes	DPS Main/Branch	Streetlight pole (centre of pole)	1.8m		Standards, 6
continued at the discretion of EPOCR BAT and will be determined during Engineering Drawing review of the determined during Engineering Drawing review.	Domain Infrastructure DPS Services, blow-offs, MH, Manual air	Subdomain Infrastructure	Minimum Clearance		
Page	vents	(transformers)		required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review.	
DPS Services Power cables of 1 mm	DPS Services, blow-offs, MH, Manual air vents		5.0m	required at the discretion of EPCOR D&T and will be	
Telecommunication cables, gas mains, duct lines Power cables <= 40 kV 1.8m Telecommunication cables, gas mains, duct lines Power cables <= 40 kV 1.8m Edge to edge See EDTT Standards Power Cable <= 40 kV 1.8m See EDTT Standards Power Cable <= 40 kV 3.0m See EDTT Standards Power Cable <= 40 kV 3.0m See EDTT Standards Power Cable <= 40 kV 3.0m 1.0m is allowed if encased in wood, trough to 1.5m on each side of hybrids Power Cable <= 40 kV 3.0m 1.0m is allowed if encased in wood, trough to 1.5m on each side of hybrids Power Cable (<= 40 kV) 4 m from edge of pipe Primary Power Cable (<= 40 kV) 4 m from edge of pipe Primary Power Cable (<= 40 kV) 4 m from edge of pipe Primary Power Cable (<= 40 kV) 4 m from edge of pipe Primary Power Cable (<= 40 kV) 4 m from edge of pipe Primary Power Cable (<= 40 kV) 4 m from edge of pipe Primary Power Cable (<= 40 kV) 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. DPS Main/Branch	DPS Services DPS Valves and DPS curb cocks				
prosent on both sides profit Valve castings	DPS Valves and DPS curb cocks DPS Valve or DPS appurtenances is				-
See EUI I Standard for Frenching Around Hydrants for reduced dearrances (Volume F. EDIT Standards) Sharing Systet	crossed on both sides DPS Valve casings	Pad-mounted equipment	1.5m		- District Energy
Power cables < 4 of kV 3.0m	DPS MH			clearances (Volume 7: EDTI Standards)	Sharing Systems Standards, 7
V)	DPS MH DPS Main/Branch				
DPS Main/Branch High Voltage Power Cable (>40 Xe Notes To be designed based on safe limits of approach and excavation allowance.	DPS Main/Branch	V) ,			-
DPS Main/Branch Pad-mounted equipment 3.0m If DPS Main runs in the boulevard, deviation from this of fleet may be required at the discretion of EPCOR D&T and will be determined during Engineering Drawing review. Subdomain: Gas Domain Infrastructure Subdomain: Gas DPS Main/Branch Gas main DPS Valve or Curb cock (CC) Gas mains or ductlines DPS Marin Gas deservices and gas crossings DPS Services Gas revices and gas crossings DPS Services Domain Infrastructure Subdomain: Telecommunications DPS Service Corp S appurtenances is recommunication cable, Telecommunication cable Telec	DPS Main/Branch		See Notes	To be designed based on safe limits of approach and excavation	-
All DPS Infrastructure Subdomain Infrastruct	DPS Main/Branch		3.0m	If DPS Main runs in the boulevard, deviation from this o ffset may be	
Domain Infrastructure Subdomain Infrastructure Gas main 1.8m 1	All DPS infrastructure	Grounding rods			
DPS Valve or curb cock (CC) Gas mains or ductlines DPS Valve or DPS appurtenances is crossed on both sides DPS Main/Branch DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Main/Branch DPS Services DPS Main/Branch DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Main/Branch DPS Main/Branch DPS Main/Branch DPS Services DPS Main/Branch DPS Services DPS Main/Branch DPS Services DPS Main/Branch DPS Services DPS Main/Branch DPS Valve or DPS appurtenances is crossed on both sides DPS Valve or DPS appurtenances is DPS Main/Branch DPS Services DPS Main/Branch DPS Main/Branch DPS Service Connection at the Main/Branch Advance of Unless otherwise DPS Main/Branch DPS Service Connection at the Main/Branch DPS Service Connection at the Main/Branch DPS Service Connection at the Main/Branch Advance of Unless otherwise DPS Main/Branch DPS Service Connection at the Main/Branch DPS Service Connection	Domain Infrastructure		Minimum Clearance	Notes	
DPS MH Gas mains or ductlines 1.5m 1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant Standards DPS Services Gas mains or ductlines 1.8m 1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant DPS Services Gas mains or ductlines 1.8m Subdomain: Telecommunications Domain Infrastructure Subdomain Infrastructure Pelecommunication cable, 1.8m Notes DPS MH Telecommunication cable 1.5m 1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant 1.5m	DPS Valve or CUPS consultances in	Gas mains or ductlines	1.0m		_
Standards DPS Services Gas services and gas crossings 1.8m DPS Services Gas mains or ductlines 1.8m DPS Services Subdomain Infrastructure Subdomain Infrastructure Minimum Clearance Notes DPS Main/Branch Telecommunication cable 1.8m 1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant Standards S	DPS Valve or DPS appurtenances is crossed on both sides DPS MH			1.0m is allowed if encased in wood, trough to 1.5m on each side of	District Energy Sharing Systems
DPS Services Gas mains or ductlines 1.8m Subdomain Infrastructure Minimum Clearance Notes PS Main/Branch Telecommunication cable, 1.8m Valve or curb cock (CC) Telecommunication cable 1.5m Telecommunication cable 1.5m Telecommunication cable 1.8m DPS Valve or DPS appurtenances is Telecommunication cable 1.8m DPS Services Telecommunication cable 1.8m DPS Services Telecommunication cable 1.8m Subdomain: General /DPS Domain Infrastructure Subdomain Infrastructure Subdomain: General /DPS DPS Main/Branch DPS Service Connection at the Main/Branch To other connects including adjacent fittings, valves, etc. Subdomain: General /DPS Standards Telecommunication cable 1.8m District Energ Sharing System Standards District Energ Sharing System Standards Clearance between supply and return mains District Energ Sharing System Sharing					Standards
DPS Main/Branch Telecommmunication cable, 1.8m DPS MH Telecommmunication cable Telecommunication cable Telecommmunication cable Telecommunication cable Telecommunicati	DPS Services		1.8m		
DPS MH Telecommmunication cable Telecommunication	DPS Services DPS Services		Minimum Clearance	Notes	
DPS Valve or DPS appurtenances is Telecommmunication cable DPS Services Telecommmunication cable Telecommunication cable Tel	DPS Services Domain Infrastructure DPS Main/Branch	Telecommunication cable,	1.8m		
DPS Services Telecommunication cable, 1.8m Subdomain: General APPS Domain Infrastructure Subdomain Infrastructure Minimum Clearance "(Unless otherwise Notes DPS Main/Branch DPS Service Connection at the Main/Branch To other connects including adjacent fittings, valves, etc. DPS Service Connection at the Main/Branch To other connects including adjacent fittings, valves, etc.	DPS Services Domain Infrastructure	Telecommunication cable, Telecommunication cable	1.8m 1.0m		District Energy
Domain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Subdomain Infrastructure Minimum Clearance *(Unless otherwise Refer to DPS Main/Branch DPS Service Connection at the Main/Branch To other connects including adjacent fittings, valves, etc. Subdomain Infrastructure Refer to DPS Standard Detail C-15 Clearance between supply and return mains District Energy Sharing System Standards Standards	DPS Services Domain Infrastructure DPS Main/Branch Valve or curb cock (CC) DPS MH DPS Valve or DPS appurtenances is	Telecommmunication cable, Telecommmunication cable Telecommmunication cable	1.8m 1.0m 1.5m		Sharing Systems
DPS Service Connection at the Main/Branch adjacent fittings, valves, etc. To other connects including adjacent fittings, valves, etc. Standards	DPS Services Domain Infrastructure DPS Main/Branch Valve or curb cock (CC) DPS MH	Telecommunication cable, Telecommunication cable Telecommunication cable Telecommunication cable	1.8m 1.0m 1.5m 1.8m		Sharing Systems
ADDITIONAL NOTES	DPS Services Domain Infrastructure DPS Main/Branch Valve or curb cock (CC) DPS MH DPS Valve or DPS appurtenances is crossed on both sides	Telecommunication cable, Telecommunication cable Telecommunication cable Telecommunication cable Telecommunication cable, Subdomain Infrastructure	1.8m 1.0m 1.5m 1.8m 1.8m Subdomain: General /DPS Minimum Clearance *(Unless otherwise	hydrant	Sharing Systems

	Domain: Landscaping (Volume 5)			
Domain Infrastructure	Subdomain: Complete Subdomain Infrastructure	Streets and Roadways (Vol. Minimum Clearance	wee 2) Notes	Data Source
Domain mirasuucture	Subdomain innastructure	Willimum Clearance	Notes	(Volumes from
Trees	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, Driveway,	1.0III, 1.25III preierreu	Trees to be placed in line with or further from Face of Curb trial Streetinght Foles.	1
	and Shared-Use Path	1.0m, preferred 1.5m		
Trees	FOC (Collector)	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	FOC (Arterial)	2.0m	Trees to be placed in line with or further from Face of Curb than Streetlight Poles.	1
Trees	Edge of commercial or industrial access	1.5m		
T	Stop signs and yield signs	2.5		-
Trees Trees	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	
T	Internation	45	approaching transit zones.	
Trees Trees (in walkway or shared-use path ROW)	Intersection Property line	15m 1.0m		2,5
Trees (in boulevard)	Property line	1.0m		
Deciduous trees (in open parkland)	Property line	2.5m	From centre of tree, in open parkland where there is turf between the fence and the tree rather than a	
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 Shared	d-0.5m	Shrubs at maturity.	
Mulched beds	Use Path Boulevard curb	2.5m	Within boulevard curb along arterial and collector roadways.	
Benches	Back of walkway	1.0m		
Litter receptacle	Edge of Walk	0.6m		
Picnic Table	Back of walkway	1.0m		
Domain Infrastructure	Subdomain: EF	PCOR Drainage (Volume 3) Minimum Clearance	Notes	T
Trees	Storm and sanitary services	1.8m		3.5
Trees	Storm and sanitary manholes	1.8m		3,5
		PCOR Water (Volume 4)****		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Soil cells Fence	All water infrastructure Valve, hydrant, curb cock (CC), or	See Volume 4 Section 1.15 1.2m	For fencing on private property, offset for fencing on public property will be at 1.2m or greater, at the	-
rence	watermain	1.2111	discretion of the City	
Deciduous tree	Watermains, services, manual air vents	1.8m	Ensure that these dimensions are measured from the actual service locations and not the property line.	1
Coniferous tree	Watermains, Services, manual air vents		Ensure that these dimensions are measured from the actual service locations and not the property line.	
Deciduous tree	Hydrant	3.5m		
Coniferous tree Shrubs	Hydrant	7.0m 1.0 m behind hydrant and		4.5
Movable street and parks furniture including but not limited to benches, tables, and waste receptacles	Hydrant Valve, hydrant, curb cock (CC), or	1.5m		4,5
into table exteet and pante farmare modaling but not immed to benefice, and made receptables	watermain	1.0		
Immovable street and parks furniture including but not limited to signs, public art, and retaining walls	Valve, hydrant, curb cock (CC), or	3.0m		
Provide a dimension from the landscaping element to the	watermain			-
Within 3.0 m of water service Within 5.0 m of valve, hydrant or curb cock or any				
		Landscaping (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		1
Church hade and planting hade	equipment and splash parks)	0.5	Must be 500 mm (0.5 m) of mulahad anges between the adde of the mature should and the adde of the	_
Shrub beds and planting beds	Edge of bed	0.5m	Must be 500 mm (0.5 m) of mulched space between the edge of the mature shrub and the edge of the bed	5
Coniferous Tree	Edge of bed	0.5m	Must be 500 mm (0.5 m) of mulched space between the edge of the mature confirerous tree and the	
			edge of the bed	
Litter receptacle	Bench Subdomain: Landage	3.0m aping Offleash Areas (Volun	20 E)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	T
Offleash Area	Residential Areas and cemeteries	100m	Unless separated a berm, fencing, trees or other mitigation measures and at the discretion of the City.	
	(property line)			
Offleash Area Offleash Area	Arterial roads Golf Courses and public areas that	50m 50m	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	
Olileasii Area	attract high concentrations of people	50111	Torness separated by ferroing of other mingation methods and at the discretion of the City	
Offleash Area	Multi-use trails and equestrian trails	25m	Unless separated by fencing or other mitigation methods and at the discretion of the City	N/A (these specific offsets in Table of
Offleash Area	School grounds or play areas and	25m	Unless separated by fencing or other mitigation methods and at the discretion of the City	Offsets only)
Offleash Area	associated walking routes Pools, splash parks, sports fields, and	25m	Unless separated by fencing or other mitigation methods and at the discretion of the City	1
	picnic areas			_
Offleash Area	Natural areas, wildlife corridors, and	Determine case by case	As determined on a case by case basis with the City	
	other environmentally sensitive areas	Streetlighting (Volume 6)		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	T
Trees	Streetlights and power poles	3.0m		
Trees	Streetlight cable	1.0m	For arterial road boulevards	5,6
		EPCOR Power (Volume 7)		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Trees Trees and shrubs	Main power trench 3-phase switching cubicle	1.0m 3.0m on each side where	Measured from the main power cable. From edge of base	4
Troop and stitups	o-pridate awitering cubicity	doors open	Trom cage of pase	
Trees and shrubs	Transformer	2.0m on sides	Measured from edge of base	1
		3.0m in front of doors	Minimum 3.0 m clearance in front of doors required for hot stick operation	
Trees and shrubs	Power crossings	1.5m behind base 1.0m	Measured from edge of base Measured horizontally offset from the power crossing alignment	5,7
Trees and shrubs	1-phase switching cubicle	3.0m front	From edge of base	†
		4.0m sides	•	
I andronord road intend	Dawan areasin	2.5m behind base	Can Note 4 holow	4
Landscaped road island	Power crossings	SEE NOTES	See Note 1 below	4
Landscaped road island	Pad-mounted equipment	SEE NOTES in: Gas and Pipelines	See Note 1 below	1
Trees	Subuoma	Ous und ripeilles	Contact the utility for setbacks	
Trees, shrubs, shrub and planting beds	Pipelines	Planting distances from low,	intermediate and high-pressure pipelines are to be observed as dictated by the Pipeline Authority.	N/A
	Subdomain	n: Telecommunications		
Trees	1	С	ontact telecomm company for setbacks	N/A

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.

Towever.

Should Northwest Poplar, Balsam Poplar and Cottonwood be referenced, the minimum setback distances from **private property lines** shall be 15m due to root encroachment concerns.

- Should Northwest Popular, Balsam
Popular and Cottonwood be referenced, including columnar the minimum setback distances from hard surfaces shall be 10m, unless special construction details are used.

- All other Populus spp., including columnar varieties, shall have a minimum setback of 10m from private property lines and 5.0m from hard surface areas where sub-surface.

areas where sub surface compaction has occurred.

- 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. ** Dimension symbol and legend can 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)* Subdomain: Complete Streets (Volume 2	2)	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes from Standards)
Streetlight Pole	FOC	1.25m along Local Streets; 1.25m along Collectors; 2.0m along Arterials; 2.6m for monowalks along Local and Collector Streets 3.0m for monowalks adjacent to School Sites		
Streetlight Pole	Edge of sidewalk or walkway	0.5m , preferred 1.0m		
Streetlight Pole	Edge of shared-use path	0.5m, preferred 1.5m		2,6
Streetlight Pole	Intersection	0.9m		
Streetlight Pole	Driveway (Residential)	0.5m with standard base and 0.75m with utility box	Edge of driveway	
Streetlight Pole	Driveway/Access (Commerical or Industrial)	1.5m	Edge of access	
Multiparty trench	FOC	2.5m	Centerline of trench	
		Subdomain: 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	1.8m		
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
	1	Subdomain: EPCOR Power (Volume 7)		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	1
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	
		Subdomain: Gas		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Streetlight Pole	Gas crossings and lines	1.0m		6
-	<u> </u>	Subdomain: Telecommunications		· ·
Domain Infrastructure	Subdomain Infrastructure		Notes	T
Streetlight Pole	Telecommunication lines and pedestals	1.0m		6

^{*}All measurements from centre of pole

	Domain: EPCOR Distribution and T	ransmission (Volume 7) (S	EE ADDITIONAL NOTES AT THE BOTTOM)	
		: Complete Streets and Ro		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	Data Source (Volumes from Standards)
Transformer	Corner cut	6.0m		
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	
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	15.0m		
Transformer/Switching cubicle	Commercial/Industrial access edge of pavement	10.0m		2,7
Pad-mounted equipment	Edge of walkway property line	3.0m	From edge of equipment to edge of walkway property line	
Pad-mounted equipment 1-phase or 3-phase cubicle	Transportation control devices and signs	3.0m 30.0m	From edge of pad	
Multiparty Trench	Corner cut FOC	2.5m	Centerline of trench	-
Main power/multiparty trench	Property Line	1.0m	Actual required minimum offset may change depending on sidewalk type and alignment of	
Power crossings	Bus stop pad	3.0m	shallow utilities. From edge of bus pad to crossing	-
Power crossings	Corner cut	3.0m	Trom edge of bus pad to crossing	
. characterings		odomain: EPCOR Drainage	(Volume 3)	
Domain Infrastructure		Minimum Clearance	Notes	
Main Power Trench	Drainage/Sanitary Main, Catch basin, manhole, vault other large drainage	2.0m	Troughed to 1.5 m either side of catch basin if less than 2.0 m	
1-phase pad-mounted equipment	structure Manhole, catch basin, storm and sanitary	4.5m	3.0 m is required from the ground grid to the other utility	3,7
3-phase pad-mounted equipment	services Manhole, catch basin, storm and sanitary services	5.0m	3.0 m is required from the ground grid to the other utility	
Power crossings	Catch basin, storm and sanitary services	3.0m	Crossings in roadways must be 3.0 m from catch basins	1
g-		ubdomain: EPCOR Water (\		
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
1-phase pad-mounted equipment (transformers)	Water services and hydrants/flush	4.5m		
3-phase pad-mounted equipment (transformers)	Water services and hydrants/flush	5.0m		1
Power services and Power Cables Paralleling Water Service	Water services	1.8m	Clearance is from the actual water service location, not from the water service symbol	
Power cables <= 40 kV	Valves and curb cocks	1.0m	Minimum distance between CC and any power cables. Telecommunication cables, gas mains, duct lines	
Power cables <= 40 kV	Valve or water appurtenances is crossed on both sides	1.8m		
Pad-mounted equipment Power cables <= 40 kV crossing between control valve and	Valve casings Hydrants with control valves more than	1.5m Hydrants: 3m	Edge to edge Hydrant:	
hydrant	2m from hydrant	Valves 1.0m	1.0m is allowed if encased in wood, trough to 1.5m on each side of hydrant	4,7
Main power cable and duct bank	Hydrants	3.0m	See EDTI Standard for Trenching Around Hydrants for reduced clearances (Volume 7: EDTI Standards)	,
Power cables <= 40 kV	Hydrants	3.0m	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		
Primary Power Cable (<=40 kV)	Water Main	4 m from edge of pipe	Primary power to be located on opposite side of the road unless power is in a four party trench or otherwise approved by the Engineer	
High Voltage Power Cable (>40 kV)	Water Main	See Notes	To be designed based on safe limits of approach and excavation allowance.	
Pad-mounted equipment	Watermain	3.0m		
Grounding rods	All water infrastructure	1.8m		
		ubdomain: Landscaping (V		T
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Main power trench	Trees	1.0m	Measured from the main power cable.	
1-phase switching cubicle 3-phase switching cubicle	Trees and shrubs Trees and shrubs	3.0m front 3.0m on each side where	From edge of base From edge of base	-
Pad-mounted equipment	Landscaped road island	doors open	, and the second	5,7
	_ '	SEE NOTES 2.0m on sides	See Note 1 below Measured from edge of base	
Transformer Power graphing	Trees and shrubs	1.0m on sides	ū .	
Power crossings	Trees and shrubs	SEE NOTES	Measured horizontally offset from the power crossing alignment See Note 1 below	
Power crossings	Landscaped road island	bdomain: Street Lighting (
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Pad-mounted equipment	Main streetlight trench	Common trench	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 Subdomain: Gas	To the closest power crossing duct	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	ı
Pad-mounted equipment	Gas crossing	3.5m	From centre of equipment (minimum 2.0 m grown ground grid)	
Pad-mounted equipment ground grid	Main gas trench	1.0m	From ground grid to gas line trench	1
Main power trench	Main Main	1.0m	Parallel, see Note 2 below	7
Power crossings	Main	1.0m	Parallel Parallel	1 ′
Power crossings Power crossings	Main or service	300mm	Without mechanical separation, see Note 3 below	1
		Subdomain: Telecommuni	cations	ı
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)	
Pad-mounted equipment	Communications pedestals	3.0m	Minimum 3.0 m from case of transformer or switching cubicle to case of pedestal, see Note 4 below	7
Primary or secondary cables	Communication vault	300mm	Minimum clearance between edge of communication vault and edge of primary or secondary cable	
Power crossings	To the closest power crossing duct	Power crossing	Communications equipment	L
	Subdomain: Pipeline Rights	s-oτ-Ways (Other Than ATC	O IP for Servicing the Subdivision)	
		I.a	· · · · · · · · · · · · · · · · · · ·	
Domain Infrastructure	Subdomain Infrastructure	Minimum Clearance	Notes	
Domain Infrastructure Pad-mounted equipment Power crossings		Minimum Clearance 10.0m 5.0m	· · · · · · · · · · · · · · · · · · ·	7

ADDITIONAL NOTES

These are preferred minimum horizontal clearances. Consult with EDTI Land Servicing for discussion of the possibility of any deviation to these approved clearances due to specific circumstances.

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

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

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

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

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

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