

## Bijlage 1 Uitlegschema kabel- en leidingnetwerken Amsterdam

Asset	Beschrijving		Afstand tussen K&L <sup>2</sup>																				Afstand tussen bomen <sup>1</sup>			Afstand van gebouwen	
			CAI/T	Data	E (LS)	E (MS)			E (HS)	riolering vrij verval		PL		Warmte		Warmte LT	W		G		OAT	Boom 1	Boom 2	Boom 3			
			transp	distr	distr	transp	dist 240	dist 630	trans	transportriool	inzamelriool	persleiding	hoofdpersleiding	HT	MT	distr	hoofdwat leiding	transport	distributie	trans	distr	trans	Boom 1	Boom 2	Boom 3		
CAI/T	CAI/ TV/ Telecom	transp	0,00m	0,50m	0,50m	0,75m	0,75m	0,75 m	2,00m	2,50 m	0,75 m	0,75m	2,50m	0,75m	0,75m	0,75m	2,00m	1,00m	0,5m	0,30m	0,3	0,75m	1,00m	1,50m	2,00m	0,25/ 0,50m	
Data	Glasvezel	dist.	0,50m	0,00m	0,25 m	0,25 m	0,25 m	0,25 m	2,00m	2,50 m	0,75 m	0,75m	2,50m	0,75m	0,75m	0,75m	2,00m	1,00m	0,50m	0,30m	0,30m	0,75m	1,00m	1,50m	2,00m	0,25/ 0,50m	
E (LS) <sup>9</sup>	Electra Laagspanning	dist.	0,50m	0,25m	0,10 - 0,15m	0,10m	0,10m	0,10m	2,00m	2,50m	0,75 m	0,75m	2,50m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,00m	1,00m	0,50m	0,30m	0,30m	0,75m	1,00m	2,00m	2,00m	0,50m	
E (MS) <sup>9</sup>	Electra Middenspanning	transp	0,75m	0,25m	0,10m	1,00m	1,00m	1,00m	2,00m	2,50m	0,75m	0,75m	2,50m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,00m	2,00m	0,75m	0,30m	0,30m	0,75m	1,00m	2,00m	2,00m	1,00m	
	Electra Middenspanning	dist. 240AI	0,75m	0,25m	0,10m	1,00m	0,10m	0,30m	2,00m	2,50m	0,75m	0,75m	2,50m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,00m	2,00m	0,75m	0,30m	0,30m	0,75m	1,00m	2,00m	2,00m	1,00m	
	Electra Middenspanning	dist. 630AI	0,75m	0,25m	0,10m	1,00m	0,30m	0,30m	2,00m	2,50m	0,75m	0,75m	2,50m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,00m	2,00m	0,75m	0,30m	0,30m	0,75m	1,00m	2,00m	2,00m	1,00m	
E (HS) <sup>9</sup>	Electra Hoogspanning	transp	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	3,00m	3,00m	2,00m	2,00m	3,00m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,00m	2,00m	2,00m	5,00m	5,00m	2,00m	2,00m	2,00m	2,00m	2,00m	
Riolering vrij verval	Transportriool	transp	2,50m	2,50m	2,50m	2,50m	2,50m	2,50m	3,00m	3,00m	-	3,00m	3,00m	3,00m	3,00m	3,00m	2,00m	3,00m	3,00m	3,00m	3,00m	3,00m	1,50m	3,00m	4,00m	5,00m	5,00 m
	Inzamelriool	dist.	0,75m	0,75m	0,75m	0,75m	0,75m	0,75m	2,00m	-	-	0,75m	3,00m	1,00m	1,00m	0,75m	2,00m	1,00m	1,00m	1,00m	1,00m	1,50m	1,00m	1,50m	2,00m	3,00 m	
riolering onder druk	Persleiding	transp	0,75m	0,75m	0,75m	0,75m	0,75m	0,75m	2,00m	3,00m	0,75m	0,75m	3,00m	0,75m	0,75m	0,3m	2,00m	1,00m	1,00m	0,75m	0,75m	1,50m	1,00m	1,50m	2,00m	2,00 m	
	Hoofdpersleiding*	transp	2,50m	2,50m	2,50m	2,50m	2,50m	2,50m	3,00m	3,00m	0,75m	-	3,00m	3,00m	3,00m	3,00m	3,00m	-	3,00m	3,00m	3,00m	3,00m	3,00m	4,00m	5,00m	10,00m *	
Warmte	Warmtenet Hoogtemperatuur (HT)	transp	0,75m	0,75m	0,75m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	3,00m	1,00m	1,00m	3,00m	0,40m <sup>3</sup>	0,40m <sup>3</sup>	0,30m	2,00m	1,50m	1,5m	1,00m	1,00m	0,75m	1,00m	1,50m	2,00m	1,50m	
	Midden temperatuur (MT)	dist.	0,75m	0,75m	0,75m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	3,00m	1,00m	1,00m	3,00m	0,40m <sup>3</sup>	0,40m <sup>3</sup>	0,30m	2,00m	1,50m	1,50m	1,00m	1,00m	0,75m	1,00m	1,50m	2,00m	1,50m	
Warmte LT	Warmtenet Lage Temperatuur	dist.	0,30m	0,30m	0,30m	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	2,50m <sup>4</sup>	3,00m	0,75m	0,75m	3,00m	0,30m	0,30m	0,30m	2,00m	1,50m	1,50m	0,3	0,30m	0,30m	1,00m	1,50m	2,00m	1,50m	
W	Hoofdwat leiding* (>600 mm)	transp	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	3,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	2,00m	3,00m	
	Drinkwater	transp	1,00m	1,00m	1,00m	2,00m	2,00m	2,00m	2,00m	3,00m	1,00m	1,00m	3,00m	1,50m	1,50m	1,50m	2,00m	-	1,00m	1,00m	1,00m	2,00m	2,00m	2,00m	2,00m	3,00m	
		dist.	0,5m	0,5m	0,5m	0,75m	0,75m	0,75m	2,00m	3,00m	1,00m	1,00m	3,00m	1,50m	1,50m	1,50m	2,00m	1,00m	0,5m	0,50m	0,5m	2,00m	2,00m	2,00m	2,00m	2,00m	
G	Gas	transp	0,30m	0,30m	0,30m	0,30m	0,30m	0,30m	5,00m	3,00m	1,00m	1,00 m	3,00m	1,00m	1,00m	1,00m	2,00m	1,00m	0,50m	0,30m	0,30m	0,75m	1,00m	2,0m	2,00m	<200MM = 2 m. >200mm = 3,5m.	
		dist.	0,30m	0,30m	0,30m	0,30m	0,30m	0,30m	5,00m	3,00m	1,00m	1,00m	3,00m	1,00m	1,00m	1,00m	2,00m	1,00m	0,50m	0,30m	0,30m	0,75m	1,00m	2,00m	2,00m	1,20m	
O.A.T.	Ondergronds Afval Transport	transp	0,75m	0,75m	0,75m	0,75m	0,75m	0,75m	2,00m	1,50m	1,50m	1,50m	3,00m	0,75m	0,75m	0,30m	2,00m	2,00m	2,00m	0,75m	0,75m		1,00m	1,50m	2,00m	1,50m	

1 Volgens gemeente A'dam toolbox: Boom 1 hoogte 6-10m. Boom 2 hoogte 10-15m. Boom 3 hoogte >15m

2 Afstand tussen kabels en leidingen, dagmaat

3 Leidingen diameter < 150mm; afstand = 0,20m. Leidingen diameter > 0,15m; afstand = 0,40m. Afstand tussen buizen, van rand tot rand.

4 Hier mogen wel andere nutspartijen tussen liggen. Een kleinere afstand tussen elektra en warmte is alleen toegestaan mits dit is aangetoond dmv een kabelbelastbaarheidsberekening.

## Uitlegschema Amsterdam

	Beschrijving	Diameter			Dekking			vrij werkruimte 1		
		transp.	dist.	huisaansl.	transp.	dist.	huisaansl.	transp.	dist.	huisaansl.
CAI/T	CAI/ TV/ Telecom	80 - 100mm	25 - 50mm	-	0,60m	0,60/0,50m	0,50m	0,30m	0,30m	0,30m
Data	Glasvezel	40mm-50mm	40mm-50mm	-	0,60m	0,60/0,50m	0,50m	0,30m	0,30m	0,30m
E (LS)	Electra Laagspanning	-	70mm	70mm	-	0,60m	0,50m	-	0,25m	0,25m
E (MS)	Electra Middenspanning	100mm	100mm	100mm	0,90m	0,70-0,90m	0,70-0,90m	0,25m	0,25m	0,25m
E (HS)	Electra Hoogspanning	140mm	-	-	1,20m	-	-	2,00m	-	-
DWA	Droogweerafvoer (riool)	0,30-0,40m	0,25 m	125 - 160mm	>1,80m	0,80m	0,34m	2,00m	0,50m	0,50m
/A + HWA		0,30-1,80m	0,30-1,80m	125 - 160mm	>1,80m	>0,80m	125 - 160mm	2,00m	0,50m	125 - 160mm
VA/ RWA	Hemelwaterafvoer (riool)	-	0,30-1,50m	125 - 160mm	-	>0,80m	0,34m	-	0,50m	0,50m
PL	Persleiding	0.063-1,80	-	-	>0,80m	-	-	0,50m	-	-
nte HT/ MT	Warmtenet Hoge/ Midden temperatuur	500-1000mm	500-1000mm	<160mm	1,00m	0,80 m	0,50m/0,75m	0,50m	0,50m	0,50m
armte LT	Warmtenet Lage Temperatuur	250-400mm	250mm		0,80m/ 1,00m	0,80m/ 1,00m	0,50m/0,75m	0,30m	0,30m	0,30m
W	Drinkwater	0,315-1,20m	0,015-0,315m	0,015-0,15m	1,00m	0,80m	0,80m	1,50m	0,5m	0,50m
G	Gas	75-400mm	75- 400mm	32-63mm	0,80m	0,80m	0,50m	0,25m	0,25m	0,25m
O.A.T.	Ondergronds Afval Transport	400mm	400mm	400mm	1m to 1,5m	2,6 - 3,2m	2,6 - 3,2m	0,50m <sup>2</sup>	0,50m <sup>2</sup>	0,50m <sup>2</sup>
1. beide zijden vanaf buitenkant leiding/buis										
2. Gebaseerd op persriool-metingen										