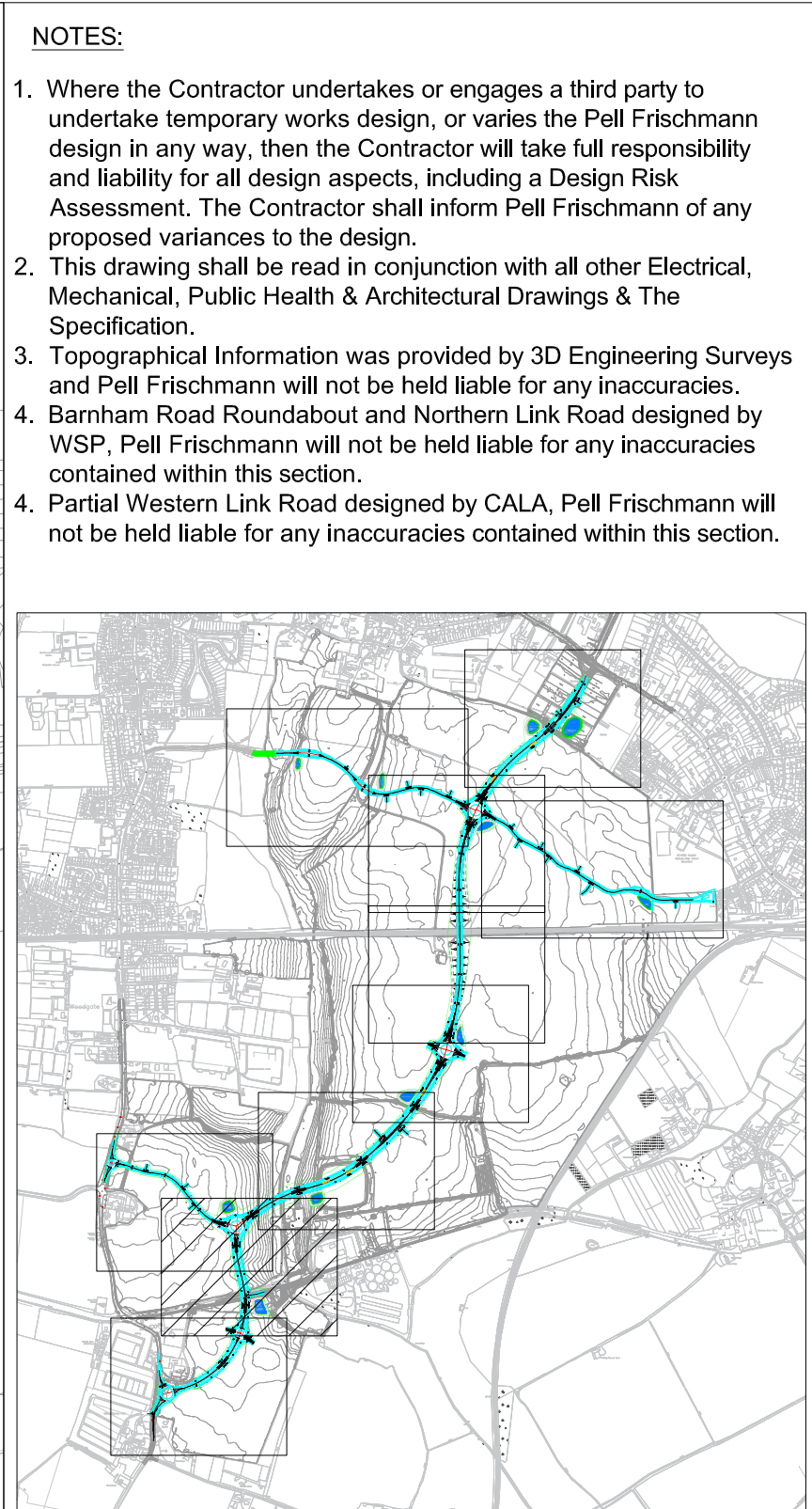




KEY:

A29 ROAD CORRIDOR

PROPOSED CARRIAGEWAY
HRA Carriageway Surfacing

ASPHALT SPLITTER ISLAND/CROSSING POINTS

SEGREGATED PEDESTRIAN FOOTWAY

SEGREGATED CYCLEWAY
Contrasting asphalt finish to footway. Physical delineation strip to be Kerb or similar agreed at detailed design stage.

GRASS VERGE/SWALE
Please Refer Landscaping Draw

PROPOSED KERBS

FOOTWAY EDGING KERB

 STREET LIGHTING

ROAD ZONE (SOUTH)



Potential earthworks zone necessary for the construction of the road. Extent of earthworks and road landscaping to be agreed via condition.

Residual land to form part of development parcels

Junction Visibility Splays based on Table 7.1 from Manual for Street. This applies to Western Link, Barnham Station Link and the Hanbury Link.

Table 7.1 Derived SSDs for Streets (figures rounded)

Speed	Kilometres per hour	16	20	24	25	30	32	40	45	48	50	60
	Miles per hour	10	12	15	16	19	20	25	28	30	31	37
SSD (metres)		9	12	15	16	20	22	31	36	40	43	56
SSD adjusted for bonnet length. See 7.6.4		11	14	17	18	23	25	33	39	43	45	59

Additional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 2.10 from DMRB CD 109. This applies to all junctions on A29 Link Road.

ANALISE design user related parameters									
Design speed type	120	80	60	30	60	30	60	30	VOP
Required light distance (metres)									
Usable distance (metres)									
Usable distance (metres)	215	151	100	52.5	80	40	40	40	
Minimum curve radius (metres)									
Minimum 5% adverse camber longitudinal transition	2880	2040	1440	720	1070	535	535	535	
Minimum 5% adverse camber transverse transition	2880	1440	720	360	535	267.5	267.5	267.5	
Minimum 5% adverse camber superelevation of 10%	1440	720	360	180	267.5	133.75	133.75	133.75	
Minimum 5% adverse camber superelevation of 15%	1440	720	360	180	267.5	133.75	133.75	133.75	
Minimum 5% adverse camber superelevation of 20%	1440	720	360	180	267.5	133.75	133.75	133.75	
Use for 60km/h design speed (V ₆₀ Independent of V ₈₀)	720	360	180	90	133.75	66.875	66.875	66.875	
Use for 80km/h design speed (V ₈₀ Independent of V ₆₀)	1440	720	360	180	267.5	133.75	133.75	133.75	
Use for 120km/h design speed (V ₁₂₀ Independent of V ₆₀)	2880	1440	720	360	535	267.5	267.5	267.5	
Use for 160km/h design speed (V ₁₆₀ Independent of V ₆₀)	5760	2880	1440	720	1070	535	535	535	
Use for 200km/h design speed (V ₂₀₀ Independent of V ₆₀)	11520	5760	2880	1440	2140	1070	1070	1070	
Use for 240km/h design speed (V ₂₄₀ Independent of V ₆₀)	17280	8640	4320	2160	3210	1605	1605	1605	
Use for 280km/h design speed (V ₂₈₀ Independent of V ₆₀)	23040	11520	5760	2880	4280	2140	2140	2140	
Use for 320km/h design speed (V ₃₂₀ Independent of V ₆₀)	28800	14400	7200	3600	5350	2675	2675	2675	
Use for 360km/h design speed (V ₃₆₀ Independent of V ₆₀)	34560	17280	8640	4320	6420	3210	3210	3210	
Use for 400km/h design speed (V ₄₀₀ Independent of V ₆₀)	40320	20160	10080	5040	7490	3745	3745	3745	
Use for 440km/h design speed (V ₄₄₀ Independent of V ₆₀)	46080	23040	11520	5760	8560	4280	4280	4280	
Use for 480km/h design speed (V ₄₈₀ Independent of V ₆₀)	51840	25920	12960	6480	9630	4815	4815	4815	
Use for 520km/h design speed (V ₅₂₀ Independent of V ₆₀)	57600	28800	14400	7200	10700	5350	5350	5350	
Use for 560km/h design speed (V ₅₆₀ Independent of V ₆₀)	63360	31680	15840	7920	11770	5885	5885	5885	
Use for 600km/h design speed (V ₆₀₀ Independent of V ₆₀)	69120	34560	17280	8640	12840	6420	6420	6420	
Use for 640km/h design speed (V ₆₄₀ Independent of V ₆₀)	74880	37440	18720	9360	13910	6955	6955	6955	
Use for 680km/h design speed (V ₆₈₀ Independent of V ₆₀)	80640	40320	20160	10080	14980	7490	7490	7490	
Use for 720km/h design speed (V ₇₂₀ Independent of V ₆₀)	86400	43200	21600	10800	16050	8025	8025	8025	
Use for 760km/h design speed (V ₇₆₀ Independent of V ₆₀)	92160	46080	23040	11520	17120	8560	8560	8560	
Use for 800km/h design speed (V ₈₀₀ Independent of V ₆₀)	97920	48960	24480	12240	18190	9095	9095	9095	
Use for 840km/h design speed (V ₈₄₀ Independent of V ₆₀)	103680	51840	25920	12960	19260	9630	9630	9630	
Use for 880km/h design speed (V ₈₈₀ Independent of V ₆₀)	109440	54720	27360	13680	20330	10165	10165	10165	
Use for 920km/h design speed (V ₉₂₀ Independent of V ₆₀)	115200	57600	28800	14400	21400	10700	10700	10700	
Use for 960km/h design speed (V ₉₆₀ Independent of V ₆₀)	120960	60480	30240	15120	22470	11235	11235	11235	
Use for 1000km/h design speed (V ₁₀₀₀ Independent of V ₆₀)	126720	63360	31680	15840	23540	11770	11770	11770	
Use for 1040km/h design speed (V ₁₀₄₀ Independent of V ₆₀)	132480	66240	33120	16560	24610	12305	12305	12305	
Use for 1080km/h design speed (V ₁₀₈₀ Independent of V ₆₀)	138240	69120	34560	17280	25680	12840	12840	12840	
Use for 1120km/h design speed (V ₁₁₂₀ Independent of V ₆₀)	144000	72000	36000	18000	26750	13375	13375	13375	
Use for 1160km/h design speed (V ₁₁₆₀ Independent of V ₆₀)	149760	74880	37440	18720	27820	13910	13910	13910	
Use for 1200km/h design speed (V ₁₂₀₀ Independent of V ₆₀)	155520	77760	38880	19440	28890	14445	14445	14445	
Use for 1240km/h design speed (V ₁₂₄₀ Independent of V ₆₀)	161280	80640	40320	20160	29960	14980	14980	14980	
Use for 1280km/h design speed (V ₁₂₈₀ Independent of V ₆₀)	167040	83520	41760	20880	31030	15515	15515	15515	
Use for 1320km/h design speed (V ₁₃₂₀ Independent of V ₆₀)	172800	86400	43200	21600	32100	16050	16050	16050	
Use for 1360km/h design speed (V ₁₃₆₀ Independent of V ₆₀)	178560	89280	44640	22320	33170	16585	16585	16585	
Use for 1400km/h design speed (V ₁₄₀₀ Independent of V ₆₀)	184320	92160	46080	23040	34240	17120	17120	17120	
Use for 1440km/h design speed (V ₁₄₄₀ Independent of V ₆₀)	190080	95040	47520	23760	35310	17655	17655	17655	
Use for 1480km/h design speed (V ₁₄₈₀ Independent of V ₆₀)	195840	97920	48960	24480	36380	18190	18190	18190	
Use for 1520km/h design speed (V ₁₅₂₀ Independent of V ₆₀)	201600	100800	50400	25200	37450	18725	18725	18725	
Use for 1560km/h design speed (V ₁₅₆₀ Independent of V ₆₀)	207360	103680	51840	25920	38520	19260	19260	19260	
Use for 1600km/h design speed (V ₁₆₀₀ Independent of V ₆₀)	213120	106560	53280	26640	39590	19795	19795	19795	
Use for 1640km/h design speed (V ₁₆₄₀ Independent of V ₆₀)	218880	109440	54720	27360	40660	20330	20330	20330	
Use for 1680km/h design speed (V ₁₆₈₀ Independent of V ₆₀)	224640	112320	56160	28080	41730	20865	20865	20865	
Use for 1720km/h design speed (V ₁₇₂₀ Independent of V ₆₀)	230400	115200	57600	28800	42800	21400	21400	21400	
Use for 1760km/h design speed (V ₁₇₆₀ Independent of V ₆₀)	236160	118080	59040	29520	43870	21935	21935	21935	
Use for 1800km/h design speed (V ₁₈₀₀ Independent of V ₆₀)	241920	120960	60480	30240	44940	22470	22470	22470	
Use for 1840km/h design speed (V ₁₈₄₀ Independent of V ₆₀)	247680	123840	61920	30960	46010	23005	23005	23005	
Use for 1880km/h design speed (V ₁₈₈₀ Independent of V ₆₀)	253440	126720	63360	31680	47080	23540	23540	23540	
Use for 1920km/h design speed (V ₁₉₂₀ Independent of V ₆₀)	259200	129600	64800	32400	48150	24075	24075	24075	
Use for 1960km/h design speed (V ₁₉₆₀ Independent of V ₆₀)	264960	132480	66240	33120	49220	24610	24610	24610	
Use for 2000km/h design speed (V ₂₀₀₀ Independent of V ₆₀)	270720	135360	67680	33840	50290	25145	25145	25145	
Use for 2040km/h design speed (V ₂₀₄₀ Independent of V ₆₀)	276480	138240	69120	34560	51360	25680	25680	25680	
Use for 2080km/h design speed (V ₂₀₈₀ Independent of V ₆₀)	282240	141120	70560	35280	52430	26215	26215	26215	
Use for 2120km/h design speed (V ₂₁₂₀ Independent of V ₆₀)	288000	144000	72000	36000	53500	26750	26750	26750	
Use for 2160km/h design speed (V ₂₁₆₀ Independent of V ₆₀)	293760	146880	73440	36720	54570	27285	27285	27285	
Use for 2200km/h design speed (V ₂₂₀₀ Independent of V ₆₀)	299520	149760	74880	37440	55640	27820	27820	27820	
Use for 2240km/h design speed (V ₂₂₄₀ Independent of V ₆₀)	305280	152640	76320	38160	56710	28355	28355	28355	
Use for 2280km/h design speed (V ₂₂₈₀ Independent of V ₆₀)	311040	155520	77760	38880	57780	28890	28890	28890	
Use for 2320km/h design speed (V ₂₃₂₀ Independent of V ₆₀)	316800	158400	79200	39600	58850	29425	29425	29425	
Use for 2360km/h design speed (V ₂₃₆₀ Independent of V ₆₀)	322560	161280	80640	40320	59920	29960	29960	29960	
Use for 2400km/h design speed (V ₂₄₀₀ Independent of V ₆₀)	328320	164160	82080	41040	60990	30495	30495	30495	
Use for 2440km/h design speed (V ₂₄₄₀ Independent of V ₆₀)	334080	167040	83520	41760	62060	31030	31030	31030	
Use for 2480km/h design speed (V ₂₄₈₀ Independent of V ₆₀)	339840	169920	84960	42480	63130	31565	31565	31565	
Use for 2520km/h design speed (V ₂₅₂₀ Independent of V ₆₀)	345600	172800	86400	43200	64200	32100	32100	32100	
Use for 2560km/h design speed (V ₂₅₆₀ Independent of V ₆₀)	351360	175680	87840	43920	65270	32635	32635	32635	
Use for 2600km/h design speed (V ₂₆₀₀ Independent of V ₆₀)	357120	178560	89280	44640	66340	33170	33170	33170	
Use for 2640km/h design speed (V ₂₆₄₀ Independent of V ₆₀)	362880	181440	90720	45360	67410	33705	33705	33705	
Use for 2680km/h design speed (V ₂₆₈₀ Independent of V ₆₀)	368640	184320	92160	46080	68480	34240	34240	34240	
Use for 2720km/h design speed (V ₂₇₂₀ Independent of V ₆₀)	374400	187200	93600	46800	69550	34775	34775	34775	
Use for 2760km/h design speed (V ₂₇₆₀ Independent of V ₆₀)	380160	190080	95040	47520	70620	35310	35310	35310	
Use for 2800km/h design speed (V ₂₈₀₀ Independent of V ₆₀)	385920	192960	96480	48240	71690	35845	35845	35845	
Use for 2840km/h design speed (V ₂₈₄₀ Independent of V ₆₀)	391680	195840	97920	48960	72760	36380	36380	36380	
Use for 2880km/h design speed (V ₂₈₈₀ Independent of V ₆₀)	397440	198720	99360	49680	73830	36915	36915	36915	
Use for 2920km/h design speed (V ₂₉₂₀ Independent of V ₆₀)	403200	201600	100800	50400	74900	37450	37450	37450	
Use for 2960km/h design speed (V ₂₉₆₀ Independent of V ₆₀)	408960	204480	102240	51120	75970	37985	37985	37985	
Use for 3000km/h design speed (V ₃₀₀₀ Independent of V ₆₀)	414720	207360	103680	51840	77040	38520	38520	38520	
Use for 3040km/h design speed (V ₃₀₄₀ Independent of V ₆₀)	420480	210240	105120	52560	78110	39055	39055	39055	
Use for 3080km/h design speed (V ₃₀₈₀ Independent of V ₆₀)	426240	213120	106560	53280	79180	39590	39590	39590	
Use for 3120km/h design speed (V ₃₁₂₀ Independent of V ₆₀)	432000	216000	108000	54000	80250	40125	40125	40125	
Use for 3160km/h design speed (V ₃₁₆₀ Independent of V ₆₀)	437760	218880	109440	54720	81320	40660	40660	40660	
Use for 3200km/h design speed (V ₃₂₀₀ Independent of V ₆₀)	443520	221760	110880	55440	82390	41195	41195	41195	
Use for 3240km/h design speed (V ₃₂₄₀ Independent of V ₆₀)	449280	224640	112320	56160	83460	41730	41730	41730	
Use for 3280km/h design speed (V ₃₂₈₀ Independent of V ₆₀)	455040	227520	113760	56880	84530	42265	42265	42265	
Use for 3320km/h design speed (V ₃₃₂₀ Independent of V ₆₀)	460800	230400	115200	57600	85600	42800	42800	42800	
Use for 3360km/h design speed (V ₃₃₆₀ Independent of V ₆₀)	466560	233280	116640	58320	86670	43335	43335	43335	
Use for 3400km/h design speed (V ₃₄₀₀ Independent of V ₆₀)	472320	236160	118080	59040	87740	43870	43870	43870	
Use for 3440km/h design speed (V ₃₄₄₀ Independent of V ₆₀)	478080	239040	119520	59760	88810	44405	44405	44405	
Use for 3480km/h design speed (V ₃₄₈₀ Independent of V ₆₀)	483840	241920	120960	60480	89880	44940	44940	44940	
Use for 3520km/h design speed (V ₃₅₂₀ Independent of V ₆₀)	489600	244800	122400	61200	90950	45475	45475	45475	
Use for 3560km/h design speed (V ₃₅₆₀ Independent of V ₆₀)	495360	247680	123840	61920	92020	46010	46010	46010	
Use for 3600km/h design speed (V ₃₆₀₀ Independent of V ₆₀)	501120	250560	125280	62640	93090	46545	46545	46545	
Use for 3640km/h design speed (V ₃₆₄₀ Independent of V ₆₀)	506880	253440	126720	63360	94160	47080	47080	47080	
Use for 3680km/h design speed (V<									

Design Principles

Standards of Highway design are based on DMRB CD 116 & CD 109 and Manual for Streets to Road Design Speed of 30 mph for A29. East/West link and other link roads based on 20mph
The Minimum Road width for A29 is 7.3m, allowing for the flow of two way traffic.
The Minimum Road width for East/West link and other link roads is 6m allowing for the flow of two way traffic.
The A29 will have 5m Wide Verges with a 4m wide Segregated Footway/Cycleway, running parallel with the alignment of the Carriageway.

P06	Client Reference Updated	KM	TM	TM	10.01.11
P05	Client Reference Updated	KM	TM	TM	05.11.11
P04	Minor amendments following comments from team	KM	TM	TM	05.10.11
P03	Minor amendments following comments from WSCC	KM	TM	TM	20.08.11
P02	Minor Layout amendments	KM	TM	TM	22.07.11
P01	Alignment amended in line with CD 109	KM	TM	TM	09.06.11
REV	DESCRIPTION	DRN	CHK	APP	DATE

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Client

CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd

Project

BEW Parcel SC1

Drawing Title

A29 Link Road
General Arrangement
Sheet 5 of 10

	Name	Date	Scale	1:500 @ A0
Drawn	KM	Apr 2021	File No. A13394-PF-ZZ-XX-DR-CD-00105 P06.dwg	Revision
Designed	KM	Apr 2021		
Checked	TM	Apr 2021		
Approved	TM	Apr 2021	Drawing Status	Preliminary
Drawing No.			A13394-PF-ZZ-XX-DR-CD-00105	P06