AECOM Benchmark Social Infrastructure Standards

Education		Standard	Assumption Reference
Early Years	rly Years % of 0-1 year olds in formal Provision		
	% of 1 year olds in formal Provision	18%	
	% of 2 year olds in formal Provision	40%	Previous Project Experience from Kent (Kent County Council Childcare Sufficiency Assessment April 2014)
	% of 3 year olds in formal Provision	77%	
	% of 4 year olds in formal Provision	60%	
	Places per Facility	50	Previous project Experience (Milton Keynes, Swindon, Exeter, East Hampshire, Huntingdonshire, Fareham)
	Sq.m per 50 place nursery	150	Previous project Experience (Milton Keynes, Swindon, Exeter, East Hampshire, Huntingdonshire, Fareham)
Primary schools	Children per FE	210	Department for Education
	% to Private school	5%	AECOM Rule of Thumb
Secondary schools	Children per FE	150	Department for Education
	% to Private school	5%	AECOM Rule of Thumb

Health & Social Care		Standard	Assumption Reference
Primary Health Care	People per GP	1,800	NHS
,	Sq.m per GP	165	NHS
People per Dentist Dental Practices		1,760	Existing ratio of Dentists to population across England 2015 (General Dental Council Data)
Sq.m per Dentist		50	AECOM Standard from previous projects
Acute Hospitals	People per Bed		Existing ratio of Hospital Beds to population across England 2015 (based on NHS England Data)
·	Sq.m per Acute Bed	160	NHS Healthy Urban Development Model
Library Space; based on branch	sq.m per 1,000 person	30	Arts Council (Previously Museums, Libraries and Archives Council (MLA))
Indoor Sports Facility (4 court hall)	facility per 1,000 person	0.072	Colchester SPG Provision of Open Space, Sport and Recreational Facilities 2006 (0.072 facilities per 1,000 persons)
Swimming Pool (4 lanes)	facility per 1,000 person	0.048	Colchester SPG Provision of Open Space, Sport and Recreational Facilities 2006 (0.048 facilities per 1,000 person)

Open Space		Standard	Assumption Reference	
Natrual Green Space ha per 1,000 person		2.000	Recommend adoption of Braintree and Tendring standard - Colchester was 5ha	
Outdoor Sports	ha per 1,000 person	1.530		
Parks and Gardens	ha per 1,000 person	1.320		
Amenity Green Space	ha. per 1,000 people	0.883	Augusta of Designators Colchester and Tandring LDA	
Allotments	ha. per 1,000 people	0.227	Average of Braintree, Colchester and Tendring LPA	
Childrens Playspace (Informal)	ha. per 1,000 people	0.208		
Childrens Playspace (formal)	ha. per 1,000 people	0.142		
Green Corridor	ha per 1,000 person	0.750	Tendring Open Space Strategy (2009)	

Housing Assumptions - Tenure

65% 35%

35%

Housing Assumptions - Mix

Flats (no. of bedrooms)			Houses (no. of bedrooms)				
1	2	3	4+		2	3	4+
7%	6%	5%	2%	28%	24%	20%	8%
7%	6%	6%	1%	29%	23%	24%	4%
7%	8%	4%	2%	28%	32%	14%	6%

Average Household Size by Unit Type in Area of Study - Average using the total housing figures

1.59 2.83 1.49 1.75 2.39 2.97

:5				
Intermediate Affordable Housing				
lat - 1 bed	1.27			
lat - 2 bed	1.59			
lat - 3 bed	2.03			
lat - 4 bed	2.83			
louse - 1 ed	1.49			
louse - 2 led	1.75			
louse - 3 led	2.39			
louse - 4 led +	2.97			

Social Rented Affordable Housing				
Flat - 1 bed	1.18			
Flat - 2 bed	2.18			
Flat - 3 bed	2.78			
Flat - 4 bed	2.39			
House - 1 Bed	1.32			
House - 2 Bed	2.04			
House - 3 Bed	3.14			
House - 4 Bed +	4.24			

Age Profiles by Unit Type in Area of Study - Average using the total housing figures

	Age Group
0-3	
4-10'	
11-15'	
16-17	
18-19	
20 - 24	
25 - 29	
30 - 34	
35 - 39	
40 - 44	
45 - 49	
50 - 54	
55 - 59	
60 - 64	
65 - 69	
70 - 74	
75 +	

		Market Owned							
Age Group		Flats (no. of bedrooms)					Houses (no. of bedrooms)		
	1	2	3	4+	1	2	3	4-	
3	1.2%	3.4%	4.5%	3.4%	1.4%	2.8%	4.0%	3.5	
10'	0.4%	2.0%	3.9%	7.4%	1.1%	2.5%	7.1%	9.5	
-15'	0.2%	1.3%	3.2%	6.1%	1.4%	1.6%	5.4%	8.6	
5-17	0.1%	0.6%	1.7%	3.0%	0.4%	0.7%	2.2%	3.7	
8-19	0.5%	0.6%	1.8%	1.7%	0.6%	0.6%	2.0%	2.9	
0 - 24	3.8%	5.2%	5.2%	10.1%	2.8%	2.3%	3.9%	5.1	
5 - 29	9.5%	12.0%	7.9%	5.7%	5.1%	4.9%	3.9%	2.8	
- 34	8.6%	9.1%	6.4%	6.7%	4.4%	5.2%	5.2%	3.2	
5 - 39	6.6%	5.5%	5.4%	6.7%	5.0%	4.9%	6.6%	6.0	
0 - 44	4.8%	4.8%	7.5%	8.8%	5.3%	5.1%	7.7%	8.9	
5 - 49	5.1%	5.1%	6.1%	7.4%	7.1%	5.4%	7.8%	9.7	
) - 54	5.2%	5.3%	5.8%	8.4%	6.9%	5.8%	7.2%	8.3	
5 - 59	5.2%	5.2%	6.5%	5.1%	7.4%	6.9%	7.0%	7.4	
0 - 64	8.1%	7.4%	8.6%	5.4%	10.2%	10.5%	8.7%	7.5	
i - 69	7.0%	7.6%	7.9%	6.7%	9.0%	10.2%	6.9%	5.2	
- 74	6.3%	6.9%	5.1%	4.0%	9.4%	9.4%	5.4%	3.2	
+	27.49	6 17.8%	12.6%	3.4%	22.5%	21.2%	8.9%	4.5	

	Social Rented Affordable Housing							
Flats (no. of bedrooms)				Houses (no. of bedrooms)				
1	2	3	4+	1	2	3	4+	
1.2%	3.4%	4.5%	3.4%	1.4%	2.8%	4.0%	3.5%	
0.4%	2.0%	3.9%	7.4%	1.1%	2.5%	7.1%	9.5%	
0.2%	1.3%	3.2%	6.1%	1.4%	1.6%	5.4%	8.6%	
0.1%	0.6%	1.7%	3.0%	0.4%	0.7%	2.2%	3.7%	
0.5%	0.6%	1.8%	1.7%	0.6%	0.6%	2.0%	2.9%	
3.8%	5.2%	5.2%	10.1%	2.8%	2.3%	3.9%	5.1%	
9.5%	12.0%	7.9%	5.7%	5.1%	4.9%	3.9%	2.8%	
8.6%	9.1%	6.4%	6.7%	4.4%	5.2%	5.2%	3.2%	
6.6%	5.5%	5.4%	6.7%	5.0%	4.9%	6.6%	6.0%	
4.8%	4.8%	7.5%	8.8%	5.3%	5.1%	7.7%	8.9%	
5.1%	5.1%	6.1%	7.4%	7.1%	5.4%	7.8%	9.7%	
5.2%	5.3%	5.8%	8.4%	6.9%	5.8%	7.2%	8.3%	
5.2%	5.2%	6.5%	5.1%	7.4%	6.9%	7.0%	7.4%	
8.1%	7.4%	8.6%	5.4%	10.2%	10.5%	8.7%	7.5%	
7.0%	7.6%	7.9%	6.7%	9.0%	10.2%	6.9%	5.2%	
6.3%	6.9%	5.1%	4.0%	9.4%	9.4%	5.4%	3.2%	
27.4%	17.8%	12.6%	3.4%	22.5%	21.2%	8.9%	4.5%	

Private rented							
	Flats (no. of	bedrooms)		Houses (no. of bedrooms)			
1	2	3	4+		2	3	4+
2.6%	15.6%	6.6%	5.3%	0.8%	7.9%	5.5%	5.2%
1.2%	10.6%	13.9%	1.2%	1.3%	8.7%	14.0%	15.1%
0.3%	3.9%	9.3%	2.9%	0.8%	4.9%	12.2%	16.3%
0.7%	2.1%	5.8%	1.2%	0.6%	1.8%	5.1%	7.2%
2.1%	2.8%	5.8%	19.4%	0.4%	2.1%	4.4%	6.2%
7.0%	12.4%	8.7%	30.6%	2.3%	6.1%	6.0%	8.1%
5.2%	10.4%	4.1%	7.6%	1.1%	6.1%	4.8%	3.3%
4.7%	6.6%	4.8%	5.9%	1.3%	4.8%	5.5%	4.6%
5.2%	4.9%	6.2%	5.9%	1.4%	4.8%	6.5%	6.6%
5.7%	5.3%	8.3%	1.2%	3.2%	5.4%	8.3%	7.7%
6.2%	4.9%	7.5%	5.3%	3.1%	5.4%	7.0%	6.3%
6.0%	4.0%	3.9%	2.9%	3.8%	4.7%	5.1%	4.2%
6.8%	3.5%	4.3%	1.8%	6.6%	4.5%	3.8%	2.6%
8.9%	3.3%	2.9%	3.5%	12.2%	6.2%	3.7%	2.4%
7.2%	2.4%	3.5%	1.8%	10.7%	6.1%	2.4%	1.7%
6.6%	2.3%	1.2%	0.6%	13.6%	6.3%	2.0%	0.9%
23.8%	5.2%	3.1%	2.9%	36.9%	14.2%	3.6%	1.6%

SIF Population Outputs - Informed by Housing Assumptions

Population from Scheme	
Total Units	405
Total Population	776

Population Age Profile	
0-3	29
4-10	39
11-15	31
16-17	13
18-19	13
20 - 24	39
25 - 29	48
30 - 34	49
35 - 39	48
40 - 44	54
45 - 49	58
50 - 54	52
55 - 59	50
60 - 64	59
65 - 69	51
70 - 74	41
75 +	102
Total Population	776

Social infrastructure Requirements

Healthcare Facilities	SI Output	M2 Built Area	Cost / m2	Total	Notes
General Practitioners	0.4				
Primary Care Centre Floorspace (sq.m)	71	71	£2,200	£156,565	
Dental Surgeons	0.4			-	
Dental Surgery Floorspace (sq.m)	22	22	£1,700	£37,494	
Acute Healthcare Beds	2			-	
Acute Healthcare Floorspace (sq.m)	244	244	£2,700	£657,617	
Total Healthcare				£851,675	
Total Healthcare / Unit				£2,103	

SI Output	M2 Built Area	Cost / m2	Total	Notes
0.04	8	£2,100	£16,090	Parlington; 35m2 for 1,850 units therefore say 8m2
0.05	15	£1,400	£20,841	Parlington; 68m2 for 1,850 units therefore say 15m2
23	23	£1,400	£32,607	
			£69,538	
			£172	
	0.04 0.05 23	0.04 8 0.05 15 23 23	0.04 8 £2,100 0.05 15 £1,400 23 23 £1,400	0.04 8 £2,100 £16,090 0.05 15 £1,400 £20,841 23 23 £1,400 £32,607 £69,538

Total community & Leisure + Health / Onit				12,273	3ay 2,230	
Green Infrastructure	SI Output	M2 Built Area	Cost / m2	Total	Notes	
Outdoor Sports (ha.)	1.2	11,878	£35	£415,737		
Children's play (ha.)	0.27	2,700	£50	£135,000		
Semi Natural Open Space (ha.)	1.55	15,527	£10	£155,271		
Parks and Gardens (ha.)	1.02	10,248	£25	£256,196		
Amenity Green Space (ha.)	0.69	6,858	£13	£85,722		
Allotments (ha.)	0.18	1,760	£30	£52,792		
Total Open Space				£1,100,718		

Early Year (0-4)	SI Output	Cost Per Pupil	Total	Notes
Child Yield	11.85			
Total Child Yield	11.85			
Nursery Facilities	0.2			
Nursery sq.m	35.55			
Nursery		£16,875	£199,948	
Primary (4-11)	SI Output	Cost Per Pupil	Total	Notes
Child Yield	36.71			
Total Child Yield	36.71			
D.1	0.3			
Primary FE	0.2			

Secondary (11-16)	SI Output	Cost Per Pupil	Total	Notes				
Child Yield	28.76							
Total Child Yield	28.76							
Secondary FE	0.2							
Secondary Cost Assumptions		£23,125	£665,153					
Playing Fields / School	·		£0					

Total Education		£1,424,921	
Total Education / Unit		£3,518	Say 3,750