

North Essex Authorities

Infrastructure Order of Cost Estimate [41,000 Homes]

North Essex Authorities
Gleeds Cost Management
Project LNCM 0931

Version: 1
Date: 01/07/2019

Executive Summary

Gleeds have undertaken a review of the cost of infrastructure works associated with the development of 41,000 homes across 3 new garden communities in North Essex. This report is based on the design information contained within AECOM's Infrastructure Planning, Phasing and Delivery (NEGC IPPD) Draft Report dated July 2019..

We have identified clear assumptions within our report under Section 5.

This estimate reflects prices at Q4 2018 based on the details referenced therein. The pricing basis of this preliminary budget estimate is current market conditions and should be reviewed at regular intervals of no longer than 3 months.

Throughout the cost estimating process we have worked collaboratively with other consultants. The infrastructure requirements have been informed by review of the design information as set out in the AECOM IPPD Draft Report July 2019, and in some cases estimated using metrics outlined in ECC Developer's Guide to Infrastructure Contributions Document. We have also incorporated Essex County Councils' guidance on Education requirements, UCML guidance on utilities provisions, Essex Highways guidance on Rapid Transit System requirements and the North Essex Authorities guidance on Per Unit Contributions.

A number of benchmark data are identified within this report; however, the following are key priorities during the next stage of the feasibility design;

- Inflation Forecast to be reviewed
- Refined design information to determine accurate benchmark information
- Strategic review of associated risk

Introduction

Overview

Gleeds have been asked to provide cost advice for the community infrastructure and enabling works required to support the delivery of 41,000 homes across three new garden communities over a number of phases in Essex to Garden Community Principles.

Whilst it is too early to provide detailed substantiation behind the Order of Cost Estimate contained within this report, this report aims to give the NEA the intended guidance of the likely cost associated with the infrastructure works.

This report presents the findings of a “high-level” design assessment based on AECOM’s IPPD Draft Report dated July 2019. Identifying three broad locations at West of Braintree, Tendring Colchester Borders and Colchester Braintree Borders. It is noted that these analysis and options will continue to evolve, and the basis of our report is the assumed delivery of 41,000 homes as outlined within AECOM’s IPPD Draft Report dated July 2019 and the number of homes proposed for each of the Garden Communities is as follows:

Site	Gleeds	AECOM
	Number of Residential Units	Number of Residential Units
1 - West of Braintree	12,500	12,500
2 - Tendring Colchester Borders	7,500	7,500
3 - Colchester Braintree Borders	21,000	21,000
	41,000	41,000

	NEA	ONS	Gleeds
Garden Community	Number of Residential Units	Anticipated Population	£ / Residential Unit
Site 1 – West of Braintree	12,500	30,000	£64,000
Site 2 – Tendring Colchester Borders	7,500	18,000	£66,000
Site 3 – Colchester Braintree Borders	21,000	50,400	£63,000

Please note: £ / Residential Unit rates reflect prices at 4Q2018 and include 10% Professional Fees and 10% Risk.

Infrastructure Costs per Site:

	Site 1	Site 2	Site 3	All Sites
	West of Braintree	Tendring Colchester Borders	Colchester Braintree Borders	
Number of Units	12,500	7,500	21,000	41,000
	(£ Total)	(£ Total)	(£ Total)	(£ Total)
Education	105,930,000	65,250,000	172,350,000	343,530,000
Healthcare & Community	23,260,000	13,020,000	36,090,000	72,370,000
Open Space	39,850,000	23,910,000	66,950,000	130,710,000
Utilities - Scheme-Wide Enabling Works	230,420,000	138,640,000	389,980,000	759,040,000
Additional Onsite Requirements	8,340,000			8,340,000
Utilities - Off-Site Requirements	34,910,000	27,250,000	70,360,000	132,520,000
Transport	140,830,000	108,740,000	248,850,000	498,020,000
Per Unit Contributions	81,690,000	30,710,000	117,600,000	230,000,000
Total Construction Cost (exc. Fees and Risk)	665,230,000	407,520,000	1,101,780,000	2,174,530,000
Cost per Unit (exc. Fees and Risk)	53,000	54,000	52,000	53,000
Professional Fees (10%)	66,520,000	40,750,000	110,180,000	217,450,000
Project Risk (10%)	73,180,000	44,830,000	121,200,000	239,200,000
Total Cost at 4Q2018 (exc. VAT)	804,930,000	493,100,000	1,333,160,000	2,631,180,000
Cost per Unit	64,000	66,000	63,000	64,000

Assumptions:

- Number of units as per the AECOM IPPD Draft Report dated July 2019.
- Anticipated population assumes a population per household rate in line with the Office for National Statistics (ONS, 2017) average of 2.4 persons per household.

Professional Fees and Risk Allowances:

- Professional fees assumed at 10%.
- Project risk assumed at 10%. Given the high-level nature of this estimate, we have assumed 10% Risk as a reasonable starting point. Risk allowance and allocation on an item by item basis should be strategically reviewed as a key priority.

This report provides the analysis and conclusions that derived from a select group of documents given the works that has gone into the Garden Communities Charter and the three Borough Councils Local Plan process. We also used the objectives as set out in the NEGC Concept Feasibility Study. A schedule of information used can be found in Appendix D.