

JERSEY FUTURE HOSPITAL

CO025 – PROOF OF CONCEPT

SITE OPTION ADDENDUM

APPENDIX 28 DATA BOOK

**QUALITY ASSURANCE** 

Sign off: Terry Langdon

Position: Director





CHANGE REQUEST NR. 25 – DATA BOOK

# **Main Body Report**

Location	Subject	Source materials
1.6	Executive Summary - Findings	<ul> <li>GEM Feed V21 160707</li> <li>CO025 Scoring Matrix Moderated EY Version</li> <li>Indic Extg New Bld 160626 42000m2 Opt B</li> <li>SOJ Facil Wks 160626</li> </ul>
2.4	Brief	<ul> <li>Instruction provided by Project Board 13<sup>th</sup>         April 2016 to review Option C+ as part of         Ongoing Project Coordination</li> <li>Instruction provided by Project Board 23<sup>rd</sup>         May 2016 to proceed with CR025</li> </ul>
3	Review process	As per CR021 – source material previously used to support appraisal methodology referred herein:
		UK Treasury Green Book Guidance
		UK DoH Health Building Notes
		UK DoH Health Technical Memoranda
		<ul> <li>Clinical Engagement data developed under CO003 by MJ Medical</li> </ul>
		• EY Modelling data, provided in final iteration 10.04.15, included in Appendix 9
		<ul> <li>UK Department of Health Healthcare Premises Cost Guides, 2<sup>nd</sup> Edition</li> </ul>
		<ul> <li>UK Treasury recommended Generic Economic Model (GEM)</li> </ul>
		<ul> <li>Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>
		<ul> <li>Appendices to Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>
		RICS Code of Measurement: A Guide for Property Professionals
		BCIS PUBSEC (Tender Price Index of Public Sector Building Non Housing)





Site valuation data provided by BNP Paribas 23.03.15 and updated site valuation data provided by BNP Paribas 30.04.15  BCIS published location adjustment for Jersey (not Channel Islands) published 1Q15  Skills Review of Jersey's Construction Sector dated September 14 published by Jersey Construction Council  Committee of Inquiry into Building Costs dated September 02 published by the States of Jersey  Gleeds in-house R&D material  Priced Bills of Quantities for elemental analysis for Jersey Contracts  UK Office for National Statistics — Construction statistics median earnings 2013  UK recent trade advertisements for construction posts  Benefit criteria: 'Appendix 1 to R Report'  Risk criteria: 'Appendix 1 to R Report'  HM Treasury Green Book Guidance (Optimism Bias)  Mott Macdonald template for calculating Optimism Bias (as amended by Gleeds)  Consultations with stakeholders including: Jersey Fire Service (meeting record 18.02.15)  Planning Authority (minutes of planning meetings 23.01.15 and 26.02.15)  Comments of Independent Evaluators attending Benefits and Risk Workshop 26.03.15  Programme assumptions based on UK healthcare and Jersey specific experience	CHANGE REQUEST NR. 25 – DATA BOOK	
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		Comments of Independent Evaluators attending Benefits and Risk Workshop





		Data provided in respect of current Bank of Canada build by Dandara for programme and m² delivery per month	
4	Approach to Site Design	Findings from CR021	
5	Site release strategy	<ul> <li>Findings from CR021</li> <li>Augmented red line boundary (prepared by Hassell)</li> </ul>	
5.12	Enabling Schemes	CR025 – Confirmed option F enabling schemes references v5	
6	New hospital high level design	Please refer to Appendices 10, 11, 14 and 32 below	
6.11 – 6.24	Spatial Testing	Please refer to Appendices 10 and 11 below	
6.12	Functional Area Estimate	160705_SOA_Disaggregated_Single Site_v1.6.3 (prepared by MJ Medical)	
6.25 – 6.32	Transport considerations	Please refer to Appendix 6 below	
6.33	Structural and geotechnical issues	Please refer to Appendix 5 below	
6.34	Relocation projects	Please refer to Appendix 5 below	
7.1	Cost appraisal	Previous work developed for CR021 in respect of Location Factor and Inflation:	
		UK Treasury Green Book Guidance	
		UK DoH Health Building Notes	
		UK DoH Health Technical Memoranda	
		<ul> <li>Clinical Engagement data developed under CO003 by MJ Medical</li> </ul>	
		<ul> <li>EY Modelling data, provided in final iteration 10.04.15, included in Appendix 9</li> </ul>	
		<ul> <li>UK Department of Health Healthcare Premises Cost Guides, 2<sup>nd</sup> Edition</li> </ul>	
		UK Treasury recommended Generic Economic Model (GEM)	
		<ul> <li>Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>	





		Appendices to Strategic Outline Case     Refined Concept Addendum prepared by     WS Atkins
		<ul> <li>RICS Code of Measurement: A Guide for Property Professionals</li> </ul>
		BCIS PUBSEC (Tender Price Index of Public Sector Building Non Housing)
		Site valuation data provided by BNP     Paribas 23.03.15 and updated site valuation     data provided by BNP Paribas 30.04.15
		<ul> <li>BCIS published location adjustment for Jersey (not Channel Islands) published 1Q15</li> </ul>
		Skills Review of Jersey's Construction Sector dated September 14 published by Jersey Construction Council
		Committee of Inquiry into Building Costs dated September 02 published by the States of Jersey
		Gleeds in-house R&D material
		Priced Bills of Quantities for elemental analysis for Jersey Contracts
		UK Office for National Statistics –     Construction statistics median earnings 2013
		<ul> <li>UK recent trade advertisements for construction posts</li> </ul>
		HM Treasury Green Book Guidance (Optimism Bias)
		Mott Macdonald template for calculating Optimism Bias (as amended by Gleeds)
7.8	Property Acquisition cost	Please refer to Appendix 20 below
7.14	Capital costs summary	Please refer to Appendix 15 below
7.15	Leasing costs	160706 – CR025 Leasing options – Catering CPU





8.8	Benefits and Risks	CO029	5 Scoring Matrix Moderated EY
			5 Benefits and risk appraisal process RH 29062016
			gs from Benefits and Risks workshop une 2016
			5 – Benefits clarifications and ration 160704
8.11	Capital cost	• Indic E	Extg New Bld 160626 42000m2 Opt B
		• SOJ F	acil Wks 160626
8.12	NPV	• GEM I	Feed V21 160707
8 – Table 12	Switching Point Analysis	CO029	5 Scoring Matrix Moderated EY
8 – Table 13	Sensitivity Analysis	CO029	5 Scoring Matrix Moderated EY





CHANGE REQUEST NR. 25 – DATA BOOK

# **Appendices**

Location	Subject	Source materials
Appendix 2	Verification of previous site deselection	Strategic Outline Case prepared by WS     Atkins
		<ul> <li>Appendices to Strategic Outline Case prepared by WS Atkins</li> </ul>
		<ul> <li>Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>
		<ul> <li>Appendices to Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>
		<ul> <li>2b-CoM-150429-R&amp;P-Hospital Site Outcome-Board Issue – NPV</li> </ul>
		<ul> <li>COM support for proposition to remove People's Park from short list – 23<sup>rd</sup> February 2016</li> </ul>
Appendix 3	Site Boundary 'Red Line Plans'	Red line drawings prepared by Hassell based on:
		Digimap Jersey digital mapping data
		Ordnance Survey data
Appendix 5	Local Infrastructure / Transport Plans	Transport assessment drawings prepared by Arup based on:
		Primary review of accessibility
		Digital mapping data for St Helier
		Technical Note TN-TRA-CR025-001 prepared by Arup based on:
		<ul> <li>Proposals developed under CR024</li> </ul>
		<ul> <li>Previous information utilised in CR021, namely:</li> </ul>
		General Hospital Travel Plan prepared by Halcrow, March 2005
		Esplanade Masterplan, States of Jersey, March 2011
		Primary review of accessibility, taking account of the range of transport modes to





Location	Subject	Source materials
		be accommodated Traffic Survey
		<ul> <li>2015 DFI Parking Survey</li> <li>SoJ multi storey car park availability checker: http://www.gov.je/travel/motoring/parking/pages/carparkspaces.aspx</li> </ul>
Appendix 6	Civils, Structures and Geotechnical Technical	Technical Note TN-GEO/CIV/STR-CR025-001 prepared by Arup and Rothwells based on:
	Appraisals	<ul> <li>Historic ground investigations at General Hospital site</li> </ul>
		<ul> <li>Health Technical Memorandum 08-01 Acoustic Design Requirements</li> </ul>
Appendix 6	MEP Technical Appraisals	Technical Note TN-MEP-001 Overview of MEP Technical Notes for CO025 prepared by Arup based on:
		<ul> <li>Materials and sources prepared at CR021 (please refer to CR021 - Appendix 28)</li> </ul>
Appendix 6	Enabling Works Technical Appraisals	Technical Note TN-MEP-CR025-001 Technical Note – Relocation Projects Engineering Impact Assessment, prepared by Arup based on:
		<ul> <li>CR025 – Confirmed option F enabling schemes references v5</li> </ul>
		<ul> <li>Materials prepared by Hassell for Appendix 14 (phasing)</li> </ul>
		Historical data provided regarding temporary and permanent decant locations
		FTE staffing data
		TRICS trip generation for Healthcare – Clinics
		• HTM 02-01
		• HTM 05-01
		Technical Note TN-GEO-CO025-002 Westaway, prepared by Arup based on:





Location	Subject	Source materials
		Historical ground investigations
Appendix 7	Town Planning Assessment	Discussions with Planning Department June 2016
Appendix 8	Functional Area Estimate	<ul> <li>Previously developed material for CR021</li> <li>UK DoH Health Building Notes</li> <li>UK DoH Health Technical Memoranda</li> <li>Clinical Engagement data developed under CO003 by MJ Medical</li> <li>UK Department of Health Healthcare Premises Cost Guides, 2nd Edition</li> </ul>
Appendix 10	Health Planning and Stacking Diagrams	<ul> <li>Drawings prepared by Hassell based on:</li> <li>Historical information from similar sized healthcare projects</li> <li>160705_SOA_Disaggregated_Single Site_v1.6.3 (prepared by MJ Medical)</li> <li>Clinical Engagement data developed under CO003 by MJ Medical</li> <li>Responses to design commentary provided by SOJ</li> </ul>
Appendix 11	Site Massing Proposals	<ul> <li>Drawings prepared by Hassell based on:</li> <li>Historical information from similar sized healthcare projects</li> <li>160705_SOA_Disaggregated_Single Site_v1.6.3 (prepared by MJ Medical)</li> <li>Clinical Engagement data developed under CO003 by MJ Medical</li> </ul>
Appendix 12	Proposed Site engineering plans	<ul> <li>Drawings prepared by Arup based on:</li> <li>Application submitted to Jersey Electric Company 28.01.15 requesting maximum supplies for each site, for all-electric and conventional options</li> <li>Cost information provided by JEC 13.02.15</li> <li>Follow up information provided by JEC 03.03.15</li> </ul>





Location	Subject	Source materials
		<ul> <li>Application submitted to Jersey Telecom 30.01.15 requesting new communications supplies</li> <li>Cost information provided by JT 27.02.15</li> <li>Fire Hazard Classification</li> <li>Medical Gases Health Technical Memorandum 02-01</li> <li>BS 9990:2015 Non automatic fire-fighting systems in buildings - Code of practice</li> <li>Jersey Water site pipework distribution layout for Jersey General Hospital</li> <li>Jersey Gas site pipework distribution layout for Jersey General Hospital</li> <li>Historical plant space information from similar sized healthcare projects</li> <li>BSRIA Rules of Thumb – Guidelines for Building Services 5th Edition (BG9/2011)</li> <li>Calculations based on estimated system capacity loads</li> <li>Manufacturer physical plant and equipment sizes</li> <li>Plant and equipment space guidance information</li> <li>Maintenance and access space required as advised by manufacturers</li> <li>Historical drawings and data provided by SOJ</li> </ul>
Appendix 13	Proposed Construction Programme	<ul> <li>Construction programme prepared by Gleeds Management Services based on:</li> <li>Programme assumptions based on UK healthcare and Jersey specific experience</li> <li>Data provided in respect of current Bank of Canada build by Dandara for programme and m² delivery per month</li> </ul>





Location	Subject	Source materials
		Data provided in respect of Welsh healthcare projects: Specialist Critical Care Centre, Cwmbran and Ysbyty Ystrad Fawr
		<ul> <li>Data provided by Sir Robert McAlpine in respect of on-island experience on Jersey for programme and m<sup>2</sup> delivery per month</li> </ul>
Appendix 14	Proposed Construction	Drawings prepared by Hassell based on:
	Phasing / Enabling	<ul> <li>Massing and stacking drawings</li> </ul>
		<ul> <li>Responses to design commentary provided by SOJ</li> </ul>
		<ul> <li>Phasing assumptions based on UK healthcare specific experience</li> </ul>
		<ul> <li>Gleeds Management Services' programme for Option F</li> </ul>
		<ul> <li>CR025 – Confirmed option F enabling schemes references v5</li> </ul>
Appendix 15	Capital cost pricing	Strategic Outline Case prepared by WS     Atkins
		<ul> <li>Appendices to Strategic Outline Case prepared by WS Atkins</li> </ul>
		<ul> <li>Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>
		<ul> <li>Appendices to Strategic Outline Case Refined Concept Addendum prepared by WS Atkins</li> </ul>
		<ul> <li>UK Department of Health Healthcare Premises Cost Guides, 2<sup>nd</sup> Edition</li> </ul>
		<ul> <li>RICS Code of Measurement: A Guide for Property Professionals</li> </ul>
		BCIS PUBSEC (Tender Price Index of Public Sector Building Non Housing)
		BCIS Building Height Index
		BREEAM 2008 guidance





Location	Subject	Source materials
		<ul> <li>BRE report titled 'Delivering Sustainable Buildings – Savings and Payback' published 2014 for Community Health Buildings</li> <li>HM Treasury Green Book Guidance (Optimism Bias)</li> </ul>
Appendix 16	Inflation Methodology	<ul> <li>BCIS All-in Tender Price Index All-in TPI</li> <li>BCIS PUBSEC (Tender Price Index of Public Sector Building Non Housing)</li> <li>BCIS General Building Cost Index (GBCI)</li> <li>MIPS index (median index pricing study)</li> <li>UK Consumer Price Index (CPI)</li> <li>UK Retail Price Index (RPI)</li> <li>UK Retail Price Index Jevons (RPIJ)</li> <li>UK Department of Health Healthcare Premises Cost Guides, 2<sup>nd</sup> Edition</li> </ul>
Appendix 17	Location Factor estimate	<ul> <li>BCIS published location adjustment for Jersey (not Channel Islands) published 1Q15</li> <li>Skills Review of Jersey's Construction Sector dated September 2014 published by Jersey Construction Council</li> <li>Committee of Inquiry into Building Costs dated September 2002 published by the States of Jersey</li> <li>Gleeds in-house R&amp;D material</li> <li>Priced Bills of Quantities for elemental analysis for Jersey Contracts</li> <li>UK Office for National Statistics – Construction statistics median earnings 2013</li> <li>UK recent trade advertisements for construction posts</li> <li>UK Department of Health Healthcare Premises Cost Guides, 2<sup>nd</sup> Edition</li> </ul>





Location	Subject	Source materials
Appendix 18	Optimism Bias methodology and outcomes	<ul> <li>HM Treasury Green Book Guidance (Optimism Bias)</li> <li>Mott Macdonald template for calculating Optimism Bias (as amended by Gleeds)</li> <li>Comments of Independent Evaluators attending Benefits and Risk Workshop 27.06.16</li> </ul>
Appendix 19	Investment Summary	GEM Feed V21 160707
Appendix 20	Site Valuations	<ul> <li>BNP Paribas valuation information provided 23.03.15</li> <li>Updated BNP Paribas valuation information provided 30.04.15</li> <li>BNP Paribas valuation information dated 130313</li> <li>Email 'Re: Commercial and residential asset valuation 202100772-B' dated 26th April 2016</li> </ul>
Appendix 21	Site Reuse proposals	Drawing prepared by Hassell based on:     Assessment of partial site release of General Hospital site
Appendix 22	Benefits and Risk Analysis	<ul> <li>Benefit criteria: 'Appendix 1 to R Report'</li> <li>Risk criteria: 'Appendix 1 to R Report'</li> <li>CO025 Scoring Matrix Moderated EY Version</li> <li>CR025 Benefits and risk appraisal process v2 – RH 29062016</li> <li>Findings from Benefits and Risks workshop 27<sup>th</sup> June 2016</li> <li>CO025 – Benefits clarifications and moderation 160704</li> </ul>
Appendix 23	Residual Risk Registers	Technical Advisor assessment of residual option risks
Appendix 28	Databook	Site Option Report and Appendices prepared by Technical Advisor





Location	Subject	Source materials
Appendix 31	Future Flexibility	<ul><li>Drawing prepared by Hassell based on:</li><li>Assessment of partial site release of General Hospital site</li></ul>
Appendix 32	Discounted variants	Material prepared by Hassell during massing study