

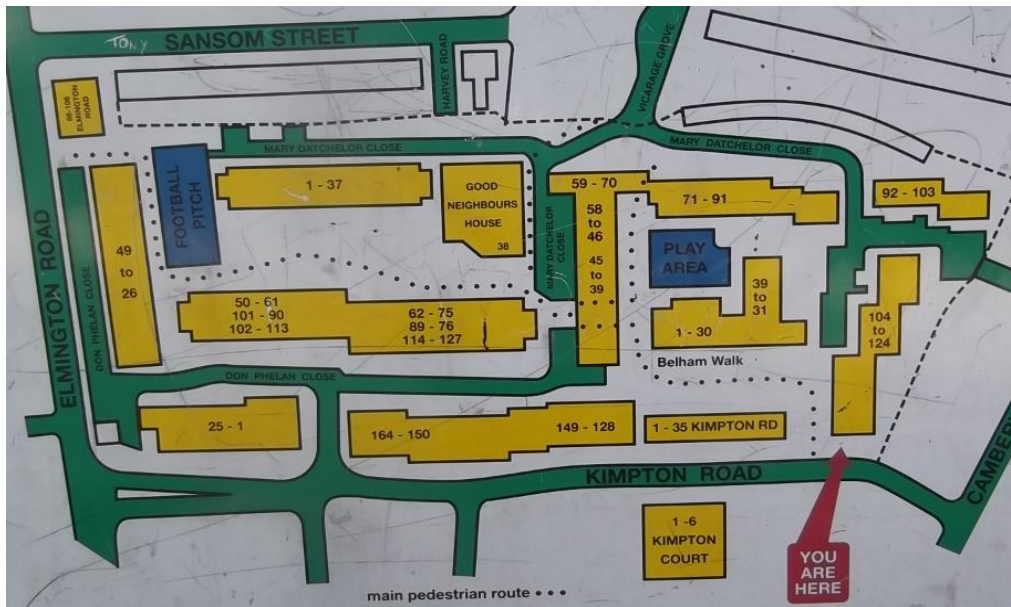
Cost Planning

Life Cycle Cost Options & Cost Estimates

D'Eynsford Estate

June 2015

London Borough of Southwark



QA Sheet

Title	Rev.	Design Stage	Prepared By	Date	Estimated Cost @3.5% NPV	Estimated Cost @1% NPV
Life Cycle Cost Options	1	2	NKQ	25/06/15	-	-
Option 1 Repair and Redecorate					£1,754,179.18	£2,216,349.28
Option 2 Renew UPVC					£1,774,138.48	£2,178,525.32
Option 3 Renew Aluminium					£1,760,134.89	£1,997,881.45
Option 2 Renew Hardwood					£2,456,947.97	£2,914,528.68
Cost Estimating					-	-
Kimpton Road - Renew Crittal Windows in UPVC					£84,825.00	n/a
Kimpton Court - Renew Balcony Doors in UPVC					£12,495.00	n/a

Contents

Timber Window Repair And Redecoration Option @3.5% NPV	A1
Timber Window Repair And Redecoration Option @1% NPV	A1a
Renew Timber Windows in UPVC @3.5% NPV	A2
Renew Timber Windows in UPVC @1% NPV	A2a
Renew Timber Windows in Aluminium @3.5% NPV	A3
Renew Timber Windows in Aluminium @1% NPV	A3a
Renew Timber Windows in Hardwood @3.5% NPV	A4
Renew Timber Windows in Hardwood @1% NPV	A4a
Cost Estimates for Kimpton Road & Kimpton Court	A5
Specification Information	B

Replacement of windows in different materials
Timber Windows
A1 OPTION 1 - REPAIR AND REDECORATE

Ref	Element	£		
CAPITAL COST ASSESMENT				
1	Repair and Redecorate existing timber windows	463,000		463,000
	Sub-Total			463,000.00
2	Preliminaries			100,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	10.00%		46,300.00
	CONSTRUCTION COST ESTIMATE			825,300.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			3.5%	
5	Year 5	142,950.00	120,360	
6	Year 10	142,950.00	101,340	
7	Year 15	142,950.00	85,326	
8	Year 20 (Renew in UPVC)	1,114,500.00	560,110	
9	Year 25	116,800.00	49,424	
10	Year 30	116,800.00	41,613	
11	Year 35	116,800.00	35,037	
12	Year 40	116,800.00	29,500	1,022,709.85
13	Residual Cost at Year 40 (assume UPVC Windows have 30 year life)	- 371,500.00	- 93,831	- 93,830.67
	TOTAL 40 YEAR LIFE CYCLE COST			928,879.18
	TOTAL COMBINED COMPARITIVE COST			1,754,179.18

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for UPVC Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 3.5% for the calculation of NPV
- We have assumed that by repairing and redecorating the existing windows we have prolonged their life by a further 20 years.

Replacement of windows in different materials

Timber Windows

A1a OPTION 1 - REPAIR AND REDECORATE

Ref	Element	£		
CAPITAL COST ASSESMENT				
1	Repair and Redecorate existing timber windows	463,000		463,000
	Sub-Total			463,000.00
2	Preliminaries			100,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	10.00%		46,300.00
	CONSTRUCTION COST ESTIMATE			825,300.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			1.0%	
5	Year 5	142,950.00	136,012	
6	Year 10	142,950.00	129,411	
7	Year 15	142,950.00	123,130	
8	Year 20 (Renew in UPVC)	1,114,500.00	913,382	
9	Year 25	116,800.00	91,077	
10	Year 30	116,800.00	86,657	
11	Year 35	116,800.00	82,451	
12	Year 40	116,800.00	78,449	1,640,568.43
13	Residual Cost at Year 40 (assume UPVC Windows have 30 year life)	- 371,500.00	- 249,519	- 249,519.14
	TOTAL 40 YEAR LIFE CYCLE COST			1,391,049.28
	TOTAL COMBINED COMPARITIVE COST			2,216,349.28

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for UPVC Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 1% for the calculation of NPV
- We have assumed that by repairing and redecorating the existing windows we have prolonged their life by a further 20 years.

Replacement of windows in different materials

Timber Windows

A2 OPTION 2 RENEW UPVC

Ref	Element	£		
CAPITAL COST ASSESSMENT				
1	Renew existing timber windows in UPVC	770,000		770,000
	Sub-Total			770,000.00
2	Preliminaries			90,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	5%		38,500.00
	CONSTRUCTION COST ESTIMATE			1,114,500.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			3.5%	
5	Year 5	116,800.00	98,342	
6	Year 10	116,800.00	82,802	
7	Year 15	116,800.00	69,717	
8	Year 20	116,800.00	58,700	
9	Year 25	116,800.00	49,424	
10	Year 30 (renew in UPVC)	1,114,500.00	397,072	
11	Year 35	116,800.00	35,037	
12	Year 40	116,800.00	29,500	820,594.32
13	Residual Cost at Year 40 (assume 30 year life)	- 637,266.00	- 160,956	- 160,955.85
	TOTAL 40 YEAR LIFE CYCLE COST			659,638.48
	TOTAL COMBINED COMPARITIVE COST			1,774,138.48

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for UPVC Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 3.5% for the calculation of NPV

Replacement of windows in different materials

Timber Windows

A2a OPTION 2 RENEW UPVC

Ref	Element	£		
CAPITAL COST ASSESSMENT				
1	Renew existing timber windows in UPVC	770,000		770,000
	Sub-Total			770,000.00
2	Preliminaries			90,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	5%		38,500.00
	CONSTRUCTION COST ESTIMATE			1,114,500.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			1.0%	
5	Year 5	116,800.00	111,131	
6	Year 10	116,800.00	105,738	
7	Year 15	116,800.00	100,606	
8	Year 20	116,800.00	95,723	
9	Year 25	116,800.00	91,077	
10	Year 30 (renew in UPVC)	1,114,500.00	826,873	
11	Year 35	116,800.00	82,451	
12	Year 40	116,800.00	78,449	1,492,047.03
13	Residual Cost at Year 40 (assume 30 year life)	- 637,266.00	- 428,022	- 428,021.71
	TOTAL 40 YEAR LIFE CYCLE COST			1,064,025.32
	TOTAL COMBINED COMPARITIVE COST			2,178,525.32

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for UPVC Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 1% for the calculation of NPV

Replacement of windows in different materials

Timber Windows

A3 OPTION 3 RENEW POWDER COATED ALUMINIUM

Ref	Element	£		
CAPITAL COST ASSESMENT				
1	Renew existing timber windows in ALUMINIUM	970,000		970,000
	Sub-Total			970,000.00
2	Preliminaries			90,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	5%		48,500.00
	CONSTRUCTION COST ESTIMATE			1,324,500.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			3.5%	
5	Year 5	116,800.00	98,342	
6	Year 10	116,800.00	82,802	
7	Year 15	116,800.00	69,717	
8	Year 20	116,800.00	58,700	
9	Year 25	116,800.00	49,424	
10	Year 30	116,800.00	41,613	
11	Year 35	116,800.00	35,037	
12	Year 40 (renew in Aluminium)	1,324,500.00	334,532	770,167.12
13	Residual Cost at Year 40 (assume 40 year life)	- 1,324,500.00	- 334,532	- 334,532.23
	TOTAL 40 YEAR LIFE CYCLE COST			435,634.89
	TOTAL COMBINED COMPARITIVE COST			1,760,134.89

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for Aluminium Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 3.5% for the calculation of NPV

Replacement of windows in different materials

Timber Windows

A3a OPTION 3 RENEW POWDER COATED ALUMINIUM

Ref	Element	£		
CAPITAL COST ASSESMENT				
1	Renew existing timber windows in ALUMINIUM	970,000		970,000
	Sub-Total			970,000.00
2	Preliminaries			90,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	5%		48,500.00
	CONSTRUCTION COST ESTIMATE			1,324,500.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			1.0%	
5	Year 5	116,800.00	111,131	
6	Year 10	116,800.00	105,738	
7	Year 15	116,800.00	100,606	
8	Year 20	116,800.00	95,723	
9	Year 25	116,800.00	91,077	
10	Year 30	116,800.00	86,657	
11	Year 35	116,800.00	82,451	
12	Year 40 (renew in Aluminium)	1,324,500.00	889,605	1,562,986.03
13	Residual Cost at Year 40 (assume 40 year life)	- 1,324,500.00	- 889,605	- 889,604.58
	TOTAL 40 YEAR LIFE CYCLE COST			673,381.45
	TOTAL COMBINED COMPARITIVE COST			1,997,881.45

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for Aluminium Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 1% for the calculation of NPV

Replacement of windows in different materials

Timber Windows

A4 OPTION 4 RENEW HARDWOOD

Ref	Element	£		
CAPITAL COST ASSESMENT				
1	Renew existing timber windows in HARDWOOD	1,250,000		1,250,000
	Sub-Total			1,250,000.00
2	Preliminaries			90,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	5%		62,500.00
	CONSTRUCTION COST ESTIMATE			1,618,500.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			3.5%	
5	Year 5	224,800.00	189,276	
6	Year 10	224,800.00	159,365	
7	Year 15	224,800.00	134,181	
8	Year 20	224,800.00	112,977	
9	Year 25	224,800.00	95,123	
10	Year 30	224,800.00	80,091	
11	Year 35	224,800.00	67,435	
12	Year 40 (renew in Hardwood)	1,618,500.00	408,789	1,247,236.51
13	Residual Cost at Year 40 (assume 40 year life)	- 1,618,500.00	- 408,789	- 408,788.54
	TOTAL 40 YEAR LIFE CYCLE COST			838,447.97
	TOTAL COMBINED COMPARITIVE COST			2,456,947.97

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for Hardwood Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 3.5% for the calculation of NPV

Replacement of windows in different materials

Timber Windows

A4a OPTION 4 RENEW HARDWOOD

Ref	Element	£		
CAPITAL COST ASSESMENT				
1	Renew existing timber windows in HARDWOOD	1,250,000		1,250,000
	Sub-Total			1,250,000.00
2	Preliminaries			90,000.00
3	Scaffolding / Access provision			216,000.00
4	Contingency	5%		62,500.00
	CONSTRUCTION COST ESTIMATE			1,618,500.00
LIFE CYCLE COSTS (40 Year Cycle)				
			NPV	
			1.0%	
5	Year 5	224,800.00	213,889	
6	Year 10	224,800.00	203,509	
7	Year 15	224,800.00	193,631	
8	Year 20	224,800.00	184,234	
9	Year 25	224,800.00	175,292	
10	Year 30	224,800.00	166,784	
11	Year 35	224,800.00	158,690	
12	Year 40 (renew in Hardwood)	1,618,500.00	1,087,071	2,383,099.29
13	Residual Cost at Year 40 (assume 40 year life)	- 1,618,500.00	- 1,087,071	- 1,087,070.61
	TOTAL 40 YEAR LIFE CYCLE COST			1,296,028.68
	TOTAL COMBINED COMPARITIVE COST			2,914,528.68

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for Hardwood Windows
- Lifecycles allowed have been based upon BCIS, Component life schedules
- Costs for maintenance are based on the average of expected works by window. Decorations Inc. We have allowed for 30% of the block to be scaffold against all 4 options for maintenance.
- We have assumed an average interest rate of 1% for the calculation of NPV

Replacement of windows in different materials

A.5 Cost Estimates

Renew Crittal Windows and Balcony Doors in UPVC

Ref	Element	£	
COST ESTIMATE - Kimpton Road Crittal Window Replacement			
1	Remove Existing Crittal Windows	7,000	7,000
2	Install New UPVC Windows	52,000	52,000
Sub-Total			59,000.00
3	Preliminaries	12.5%	7,375.00
4	Scaffolding / Access provision		15,500.00
5	Contingency	5%	2,950.00
CONSTRUCTION COST ESTIMATE			84,825.00

Ref	Element	£	
COST ESTIMATE - Kimpton Court Renew Balcony Doors and Frames			
1	Clean and Overhaul Existing Windows	1,200	1,200
2	Remove Existing Doors	900	900
3	Install New UPVC Balcony Doors	8,100	8,100
Sub-Total			10,200.00
2	Preliminaries	12.5%	1,275.00
3	Scaffolding / Access provision		-
4	Contingency	10%	1,020.00
CONSTRUCTION COST ESTIMATE			12,495.00

Notes and Assumptions

- Costs are based upon current data and no uplifts have been included for increased costs.
- Costs have been based upon an assumed specification throughout
- Costs are based upon our assesment of the market value for replacement windows based upon tenders received for UPVC Windows and Doors
- For works to Kimpton Court we have assumed access will be granted via the property to the existing balconies and therefore no access costs will be associated.

B - Specification Information

1	The following information was used in the preparation of this Feasibility Estimate:
	Drawings
a	None
2	Photographs
	Potter Raper Partnership Site Survey Photographs Dated
	05/11/2014 18/11/2014 05/12/2014 19/01/2015 20/03/2015 13/05/2015 02/06/2015 08/06/2015 09/06/2015
3	Scope of works
a	Life Cycle Cost Options Appraisal Detailing costs for the repair or renewal of timber windows at Don Phelan Close, Mary Datchelor Close and Belham Walk:
i	Repair and Redecoration
ii	Renew in UPVC
iii	Renew in Aluminium
iv	Renew in Hardwood
b	Cost Estimates for:
i	Renewal of existing Crittal Windows at Kimpton Road
ii	Renewal of existing Balcony Doors at Kimpton Court