

JR1- 2263 Woodgate, Chichester Pedestrian Bridge

Infrastructure Works

Jackson Rowe Budget Estimate of Works



Budget Estimate Rev B (Draft)

April 2022

Contents

Section	Description
1	Budget Estimate Summary
2	Qualifications and Exclusions
3	Drawing and Document List
4	Budget Breakdown -Woodgate Chichester Concrete Bridge Option

**JR1- 2263 Woodgate, Chichester Pedestrian Bridge
Infrastructure Works**

£ Ex. VAT

Budget Estimate Rev B (Draft)

Concrete Option

A	Temporary Works	221,053
B	Structure	1,219,978
	Sub-Total	1,441,032
C	Preliminaries 10% allowance	144,103
D	Fees	204,103
E	Main contractors Overhead and profit - 10% allowance	158,514
F	Design and development risk - 10% allowance	174,365
G	Construction risk - 10% allowance	174,365
	Budget Estimate Total	2,296,482
H	Commuted Sums	216,155
	Total	2,512,636

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2 Qualifications and Exclusions

- 1 Neither the whole nor any part of this estimate, nor any reference thereto, may be included in any published document, circular or statement, nor published in any way, without prior written approval of the form and content in which it may appear.
- 2 This estimate is based upon Q3 2021 prices (inflation is not included, except where indicated).
- 3 This estimate is based upon, inter alia, own knowledge, empirical data, published data, RICS approved pricing data; in relation to projects of a similar nature, construction and location. Where insufficient information is available then assumptions have been made and identified accordingly.
- 4 This estimate is based on current information provided by the client/s. This estimate will require review and update on receipt of further investigation work, surveys and design development.
- 5 This estimate incorporates approximate quantities measured from the drawings listed, from the dimensions provided and/or by utilising cost modelling techniques from similar projects and historical data.
- 6 Measurements have been taken from drawing information where available. Jackson Rowe note that in the absence of a scale bar, scales have been established from typical, known dimensions.
- 7 Cost information has been obtained from comparable projects where applicable. Lump sum assessments/allowances have been made where the full scope or detail is missing.
- 8 Soil investigation information has not been provided and Jackson Rowe have made sensible assumptions where applicable.
- 9 No temporary works design information has been provided. Jackson Rowe have made sensible assumptions where applicable.
- 10 Steel member sizes and thicknesses are not detailed on the current drawings. Jackson Rowe have made sensible assumptions where applicable.
- 11 Commuted Sums are still to be confirmed by the LA and an estimated figure of 15% of construction cost has currently been included.

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3 Drawing and Document List

[illegible]

4 Budget Breakdown - Woodgate Chichester Concrete Bridge Option

Ref	Item	Description	Quantity	Unit	Rate (£)	Budget Total
A Temporary works						
1	Temporary road surface/scaffold base					
1.1	Enabling works - Excavation	Excavate top soil. Assumed 300mm	626	m3	4	£2,505
1.2	Enabling works - Excavation	Excavate Sub-soil. Assumed 300mm	626	m3	4	£2,505
1.3	Enabling works	Take arising to spoil heap	1,253	m3	7	£8,768
1.4	Terram	Allowance for 12.5m width inline with piling mat	2,076	m2	10	£20,756
1.5	Enabling works - Piling mat	225mm MOT type 1	470	m3	58	£27,242
1.6	Enabling works - Piling mat	375mm crushed concrete	783	m3	49	£38,358
2	Plant	Provision of plant (1 nr rig); including bringing to and removing from site; maintenance, erection and dismantling at each pile position.	1	item	15,000	£15,000
3	Scaffolding	Assumed allowance to both sides of the bridge, width 1.2m, 5m height and 167m length.	802	m2	50	£40,080
4	Tree protection	Heras fencing	24	m	35	£840
5	Temporary drainage	Allowance for temporary drainage	1	nr	20,000	£20,000
6	Crane	To lift precast beams into place	1	nr	45,000	£45,000
B Structure						
1	Flood plain compensation works/ Earthworks	Works to Pye land	5.15	m3	40	£206
2	Flood plain compensation works/ Earthworks	Works to Church commissioners land	2.30	m3	40	£92
3	Sheet pile abutment	Steel sheet piling. Allowance for 10 meters wide x 5 m depth to each end.	100	m2	250	£25,000
4	Driven steel pile	450mm diameter. Allowance for up to a depth of 25m as advised by the engineer	32	nr	15,000	£480,000
5	Fabricated bridge support	In-situ concrete, including formwork	29	m2	500	£14,438
6	Fabricated bridge support	Steelwork encased in the fabricated bridge support - I beam	2	Tonnes	3,420	£5,130
7	Welding of bridge support to piles	Welding of steel	1	nr	10,000	£10,000
8	Precast edge beam	Shay Murtagh type MYE7 precast beam as per quotation received from Shay Murtagh 10.09.21	1	item	245,524	£245,524
9	Precast beam	Shay Murtagh type MY7 precast beams (included in above quotation)	1	item	included	included
10	Perimeter upstand beam	Assumed in-situ concrete, including reinforcement and formwork	334	m	120	£40,080
11	Extra over for splayed surface	Extra over allowance for splayed surface of perimeter upstand beam	334	m	20	£6,680
12	In-situ fill to beams	Assumed in-situ concrete, including reinforcement	178	m3	160	£28,417
13	Service duct	240mm service ducts	668	m	41	£27,388
14	Structural concrete topping	Assumed in-situ concrete, including reinforcement	105	m3	160	£16,847
15	Surface course	Hot rolled asphalt surface course	795	m2	12	£9,545
16	Movement joint	Currently no additional allowance	24	nr	50	£1,200
17	Integral bridge bearing	Steel plate bearing accounted for elsewhere. Currently no additional allowance	-	-	-	-
18	CHS Balustrade	Circular hollow steel balustrade and infills	334	m	500	£167,000
19	Uprights	2.5m height	16	tonnes	2,850	£45,144
20	Ramp	10m x 2 either side of the bridge	80	m2	186	£14,880
21	Bridge Lighting	Allowance only as no detail is shown on drawings. Including connection to LV supply.	1	nr	40,000	£40,000
22	Bridge Signage	Allowance only as no detail is shown on drawings	1	nr	5,000	£5,000
23	Removal of temporary road surface	Take up and disposal of temporary road	413	m3	40	£16,533
24	Top soil	Top soiling landscaping area from spoil heap- spread and lightly consolidate	2,088	m2	8	£16,700
25	Seeding	Seeding of soft landscaping area	2,088	m2	2	£4,175
26	Ecological conditions	No details at this stage.	1	nr	Excluded	Excluded
C Preliminaries						
1	Preliminaries	10% allowance for preliminaries		nr	144,103	£144,103
D Fees						
1	Highway consultant & Design fee		1	item	60,000	£60,000
2	Application fees	(Planning application, adoption fees etc)	1	item	144,103	£144,103
Total						£1,789,238