

## **Lucy's Mill Bridge- Installation of DDA compliant ramps**

### **Preliminary Cost Estimate**

A preliminary cost estimate has been produced by Faithful and Gould, Chartered Quantity Surveyors. The specialist engineering elements have been discussed with bridge subcontractor, CTS Engineering.

CTS would be included in the tender enquiry in due course, and we would look to competitively tender this specialist work and the main contract.

A 15% contingency allowance is currently included, to reflect the sketch design stage of the proposal

It is considered that delivery and erection access is one area that needs careful further research and arrangement before costs can be firmed up.

No allowance made to compensate for affected flood areas or works to the river bank

No allowances made to upgrade or repair the existing bridge

No works to Seven Meadows road bridge are envisaged.

This is a current price with no allowance for inflation up to the start date, nor for fixing the price during the contract period.

In addition, VAT would be due at 20%, this may be reclaimable.

So in summary the current advice is as follows:

|                                                                                                                                                           |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Cost estimate dated 30 November 2017*: brought forward, see below                                                                                         | 841160         |
| Sundry design and professional fees: say 15% (Architecture, Engineering, Cost, PM, landscape design, Planning and Building Regulations fees and the like) | 126127         |
| <b>Total current estimate (ex VAT)</b>                                                                                                                    | <b>£967334</b> |

**Cost Estimate prepared by Faithful and Gould Chartered Quantity Surveyors**

Dated 30 November 2017

## LUCY'S MILL BRIDGE - ACCESS WORKS

| Description                                                                                                                 | Quant | Unit | Rate       | Total      |
|-----------------------------------------------------------------------------------------------------------------------------|-------|------|------------|------------|
| <u>Site Clearance</u>                                                                                                       |       |      |            |            |
| Hedge works - trim/cut back established hedges to west elevation of bridge                                                  | 35    | m    | 100.00     | 3,500.00   |
| Hedge works - trim/cut back established hedges to east elevation of bridge                                                  | 20    | m    | 100.00     | 2,000.00   |
| Allowance for removal of established trees, generally, to both ends of bridge                                               | 30    | nr   | 500.00     | 15,000.00  |
| Site clearance on route of ramp - west elevation                                                                            | 76    | m2   | 25.00      | 1,900.00   |
| Site clearance on route of ramp - east elevation                                                                            | 180   | m2   | 25.00      | 4,500.00   |
| <u>Foundations</u>                                                                                                          |       |      |            |            |
| construct pad foundations for ramp support legs including all excavation, formwork, concrete and finishes; say 1.5x1.5x0.6m | 20    | nr   | 1,000.00   | 20,000.00  |
| <u>Piles</u>                                                                                                                |       |      |            |            |
| Provisional allowance for piling to include the following:                                                                  | 1     | sum  | 50,000.00  | 50,000.00  |
| Mobilisation and demobilisation                                                                                             |       |      |            |            |
| Steel road plates in lieu of piling mat                                                                                     |       |      |            |            |
| Construct piles to each pad foundation: 3nr 300mm Ø                                                                         |       |      |            | 6*60       |
| piles approx. 6m in length; mini piling rig                                                                                 |       |      |            |            |
| Testing piles                                                                                                               |       |      |            |            |
| <u>Bridge Structure</u>                                                                                                     |       |      |            |            |
| Installation of bridge by specialist contractor (CTS or similar including the following:                                    | 1     | item | 320,000.00 | 320,000.00 |
| 10nr 10m x 2m landings or ramps                                                                                             |       |      |            |            |
| 7nr 2m x 2m Landings                                                                                                        |       |      |            |            |

2nr 5m x 2m ramps  
 3nr 4m x 2m ramps or landings  
 20nr 2 leg cross braced trestles  
 Assumed above includes crane costs

|                                                                                                                                                                                               |     |      |           |                   |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|-------------------|------------|
| Allowance for prelims                                                                                                                                                                         | 5%  |      |           | 16,000.00         |            |
| Allowance for main contractor's overheads and profit on specialist subcontractor                                                                                                              | 5%  |      |           | 16,000.00         |            |
| Connections of ramp to bridge incl removal of existing walls/balustrade                                                                                                                       | 2   | nr   | 10,000.00 | 20,000.00         |            |
| Decoration of new structure (excluded from CTS budget cost)                                                                                                                                   | 300 | m2   | 30.00     | 9,000.00          |            |
| <u>Landscaping</u>                                                                                                                                                                            |     |      |           |                   |            |
| Hard landscaping / paving works to join ramp to existing footpaths                                                                                                                            | 2   | nr   | 500.00    | 1,000.00          |            |
| Allowance for planting replacement semi mature trees on completion of works                                                                                                                   | 1   | item | 10,000.00 | 10,000.00         |            |
| Allowance for shrub planting/reinstatement                                                                                                                                                    | 1   | item | 5,000.00  | 5,000.00          |            |
| <u>Site Set-up/Prelim costs</u>                                                                                                                                                               |     |      |           |                   |            |
| Create access to area between Seven Meadows Road and Stratford Bentley Nursing Home for site compound/storage area; incl allowance for licences, hardstanding and reinstatement on completion | 1   | item | 50,000.00 | 50,000.00         |            |
| Traffic management on Seven Meadows Road on road bridge to enable crane lifts                                                                                                                 | 18  | days | 1,000.00  | 18,000.00         |            |
| Additional banksmen to escort deliveries and manage site access                                                                                                                               | 1   | item | 10,000.00 | 10,000.00         | 571,900.00 |
| Prelims, including site cabins and welfare, staff and security fencing to both sites                                                                                                          | 16  | wk   | 10,000.00 | 160,000.00        | 728,400.00 |
| Contingency                                                                                                                                                                                   | 15% |      |           | 109,260.00        |            |
| <b>TOTAL</b>                                                                                                                                                                                  |     |      |           | <b>841,160.00</b> |            |

## METHODOLOGY

To undertake the works the contractor will require a compound close to the working areas however given the constraints of the site this may prove difficult.

A review of the area on Google Maps indicates that the west end of the bridge there is a housing estate. To the east end of the bridge there appears to be open parkland. To one side there is a gap then the Seven Meadows Road and on the other side there is the river.

It appears that Seven Meadows road is banked up in the approaches to the road bridge over the River Avon

Close to the road bridge there is an area that could potentially act as a compound (subject to local authority approval) although it would need to be accessed from Seven Meadows Road and would require established trees to be removed.

CTS advise that their materials would be delivered on 18 artic' lorries. It is assumed that these could be arranged so that materials arrive as and when required.

To lift the bridge ramp units in to position a crane would be required. It is assumed that this could be done from the Seven Meadows Road, with traffic management being implemented.

An alternative approach for the east end of the may be to access the parkland via Swans Nest (lane) but would require permission from land owners and protection of surfaces etc.

#### EXCLUSIONS AND ASSUMPTIONS

No works included to the existing bridge structure

VAT excluded

No allowance included for professional fees

Assume no problems with ground with no abnormal site conditions or contamination

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