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| **Regional Delivery Partnership** |
| **Waterproofing concrete structures**  |
| **Technical Briefing** |
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| HE551495-SKAG-SGN-CONWI\_CONW-SP-ZC-00001 |
| 01 First Issue |
| 06/11/2022 |

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# 1.0 Project Overview:

## The Scheme

* + 1. The existing A428 connects communities between St Neots and Cambourne and links the East of England to important regional, national and international hubs such as the Felixstowe and Harwich ports. The route also connects Bedford, Milton Keynes and the M1 motorway to Cambridge and the M11 motorway and is used by both local and long-distance traffic
		2. The existing A428 between Wyboston interchange and Caxton Gibbet interchange remains the only stretch of single carriageway between the two key economic hubs of Milton Keynes and Cambridge. The existing A428 provides a vital link between the M1 (at Milton Keynes) and the M11 (at Cambridge), connecting the communities of Bedford, St Neots, Cambridge and Cambourne. The road carries twice the traffic it was designed for, with drivers suffering daily congestion, delays and incidents.
		3. The existing Black Cat roundabout, where the A1 meets the A421, and the existing A428 near St Neots is a daily source of queues, delays and congestion. Similar problems exist at the Barford Road, Cambridge Road (St Neots) and Caxton Gibbet roundabouts.
		4. Journey times between the existing Black Cat roundabout and the existing Caxton Gibbet roundabout are significantly longer in peak periods than in off-peak periods. This is a consequence of road sections and intermediate junctions reaching capacity, which results in delays along the route. There are also a high number of incidents, with collision clusters at both junctions.
		5. There is therefore a need to improve the route to address the current levels of congestion and their impacts of delay and journey unreliability on road users. The investment in additional capacity that is required to address these issues will also help to support local economic growth by improving east-west connectivity and enhanced north-south traffic flow.
		6. The Scheme would create a reliable, high-quality route from the existing Black Cat roundabout (which is located south of St Neots) to the Caxton Gibbet junction (located to the west of Cambourne). The Scheme principally comprises of:
1. A new 16 kilometre (10 mile) dual carriageway from the Black Cat roundabout to the Caxton Gibbet roundabout, to be known as the A421 (hereafter referred to as the ‘new dual carriageway’) and in addition 3 kilometres (1.8 miles) of tie-in works.
2. A new junction to the east of the existing Cambridge Road roundabout to provide access to the new dual carriageway and maintain access provisions to the local road network.
3. A new junction to the east of the existing Cambridge Road roundabout to provide access to the new dual carriageway and maintain access provisions to the local road network.
4. A new junction at the Caxton Gibbet roundabout, which would tie in the new dual carriageway and the existing A428 to the east of the roundabout utilising elements of the existing roundabout and its alignment.
5. New crossings would be constructed to enable the new dual carriageway to cross the River Great Ouse, East Coast Main Line railway, Barford Road, the B1046/Potton Road, Toseland Road and the existing A428 at Eltisley.
6. Improved local roads within proximity to the Scheme due to safety requirements and alternative accesses provided to side roads at Chawston, Wyboston and Eltisley.
7. Safer routes for non-motorised user networks for walkers, cyclists, and horse riders and improved connections.
	* 1. Sections of the existing A428 between St Neots and Caxton Gibbet would be retained for local traffic and public transport.

## Map of Scheme:

****

# 2.0 Scope:

## 2.1 Works description:

There are 17 bridge structures on the A428 scheme that will require waterproofing, eight of which use pre-stressed pre-cast concrete beams for the deck superstructure and nine of which are steel-composite structures. These are as per the table below, the location of them is shown in the Appendix 4.1 Structures Layout.

Table 1 - Structure details

|  |  |  |
| --- | --- | --- |
| **Structure Ref.** | **Structure Name** | **Type** |
| ST02 | Roxton Road | steel-composite |
| ST03 | Black Cat West | pre-stressed pre-cast concrete |
| ST05 | Black Cat Central | steel-composite |
| ST06 | Black Cat North | steel-composite |
| ST07 | Black Cat South | steel-composite |
| ST08 | Black Cat East | pre-stressed pre-cast concrete |
| ST09 | River Great Ouse Viaduct | steel-composite |
| ST10 | Barford Road | pre-stressed pre-cast concrete |
| ST13 | East Coast Mainline | steel-composite |
| ST14 | Top Farm Bridge | pre-stressed pre-cast concrete |
| ST17 | Potton Road | pre-stressed pre-cast concrete |
| ST25 | Cambridge Road | pre-stressed pre-cast concrete |
| ST28 | Fox Brook | steel-composite |
| ST31 | Toseland Road | steel-composite |
| ST38 | St Ives Road | pre-stressed pre-cast concrete |
| ST40 | Caxton Gibbet | pre-stressed pre-cast concrete |
| ST88 | Kelpie Marina Access Bridge | steel-composite |

There are 21no box culverts, the location for the major culverts are shown in the Appendix 4.1 Structures Layout. The list of culverts are below:

Table 2 - Culverts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Structure No. (ST)** | **Structure Name** | **Internal Span (m)** | **Internal Height (m)** | **Length between Head walls (m)** | **Number of units** | **Protection slab** |
| 4  | South Brook Roxton Road Link Culvert  | 4.50 | 2.70 | 18.17 | 9.00 | Y |
| 11  | Rectory Farm Access Culvert | 2.40 | 2.20 | 8.07 | 4.00 | Y |
| 12  | Rectory Farm Culvert | 2.40 | 2.20 | 38.37 | 19.00 | Y |
| 16  | Begwary Brook Roxton Link Culvert | 2.10 | 2.10 | 30.29 | 15.00 | Y |
| 19  | New Hen Brook Culvert and Underpass  | 6.85 | 5.90 | 34.50 | 34.00 |  |
| 20a | New Hen Brook Pond Access Track Culvert  | 5.00 | 2.85 | 6.08 | 6.00 | Y |
| 20b | New Hen Brook Pond Access Track Flood Relief Culvert  | 3.00 | 1.80 | 6.08 | 6.00 | Y |
| 21  | Wintringham Brook Culvert | 2.10 | 2.10 | 36.35 | 17.00 |  |
| 22  | Wintringham Brook Pond Access Track Culvert | 2.10 | 2.10 | 6.05 | 3.00 | Y |
| 24  | New Cambridge Road Culvert | 2.60 | 2.00 | 44.43 | 22.00 |  |
| 30  | Gallow Brook Culvert  | 3.00 | 2.00 | 56.55 | 28.00 |  |
| 35  | Fairview Farm Culvert | 2.30 | 1.60 | 46.45 | 23.00 |  |
| 37  | Pillar Plantation Culvert and Underpass  | 5.55 | 5.55 | 40.39 | 20.00 |  |
| 39  | North East Farm Culvert | 2.60 | 1.50 | 28.27 | 14.00 | Y |
| 43  | Top Farm Culvert | 2.30 | 1.80 | 98.97 | 49.00 |  |
| 74  | Brookhouse Chawston Culvert  | 3.60 | 2.60 | 58.76 | 28.00 | Y |
| 89  | Kelpie Marina Access track Culvert  | 1.60 | 1.60 | 12.11 | 6.00 | Y |
| 94  | Hen Brook Flood Relief Culvert  | 6.00 | 1.80 | 43.21 | 43.00 |  |
| 95  | Hen Brook Flood Relief Culvert 2  | 6.00 | 1.80 | 42.21 | 42.00 |  |
| 96  | Hen Brook Flood Relief Culvert 3  | 6.00 | 1.80 | 41.20 | 41.00 |  |
| 98  | Mammal Underpass  | 5.00 | 4.50 | 46.45 | 23.00 | Y |

Access to the structure locations will be via the site logistics routes. These will be accessible from key locations off the local road network, or via the main site compound. These will be suitable for road-going vehicles.

Structure ST74 should allow three visits as it is constructed in 3 phases, working around traffic management switches. The phasing for ST74 is available in Appendix 4.4.

## 2.2 Subcontractor Information

### 2.2.1 Information to be supplied as part of the tender submission.

* Produce a fully detailed programme to meet the programme in 3.0 Programme:.
* Proposal of material type and method that complies with the specifications.
* Identify and present innovations and value engineering opportunities.

### 2.2.2 Subcontractor’s requirements

* The Subcontractor provides all necessary People, Materials and Equipment to undertake the installation and assurance of the spray applied waterproofing.
* The Subcontractor is to supply a dedicated non-working supervisor at each work area at all times during the contract works.
* All personnel are requirement to undertake a Project induction and Injury Free Environment (IFE) training provided by Skanska. Combined with Induction it will take a whole day. This is included in the price.
* The Subcontractor is to complete daily allocation sheets in a format acceptable to the Contractor, signed off at the end of each working day by the Subcontractor and be submitted to the Contractor daily. Subcontractor to utilise the Contractor’s online system when available. Suitable internet enabled tablet / laptop to be provided by the Subcontractor. People and Equipment levels detailed by type of Equipment should be included but are for record purposes only.
* Early Subcontractor involvement for planning and coordination of the works, including reviewing proposed access routes.
* The Subcontractor is to provide all necessary technical submissions and backup to facilitate acceptance of their proposed systems and procedures.
* The Subcontractor is to provide risk assessments and method statements in the Contractors format. These shall be submitted to the Contractor for approval as detailed in the table below.
* The Subcontractor prices for delivery of their materials to each work area. In locations where the access to the work location is via scaffold access the Contractor will provide suitable lifting equipment to offload the vehicle and place the materials on the structure.
* Contractor provided cranage requirement to be detailed minimum 2 weeks prior to commencement date to allow Contractor to secure requirement.
* The Subcontractor is permitted to work between the hours of 07:00 to 18:00 Monday to Friday and has allowed in their Prices for such working hours.
* Section 61 applications will need to be applied for by the Contractor and agreed prior to works commencing for works outside normal hours of 07:00 – 18:00 Monday to Friday, 07:00 – 13:00 Saturday. Any hours outside these will require a S61 consent from the local authority. Approval periods detailed in table below.
* The Subcontractor to issue monthly Clause 32 programmes to the Contractor for acceptance, in a form stated in the Contract.
* The Subcontractor raises and progresses to a timely conclusion, non-conformance reports in respect of any Defect or non-compliance relating to the subcontract works.
* No temporary works are required from the Subcontractor.
* The Contractor is to provide all necessary permissions, permits and consents to enable the Subcontractor to carry out the Subcontract works. Where requested by the Contractor the Subcontractor is to provide any assistance and/or supporting information which enables these permissions, permits or consents to be obtained as detailed in the table below.
* The Subcontractor is to be aware that any traffic management arrangement is not exclusive to the Subcontractors work. Both the Contractor and Others will carry out works within the traffic management and as such the Subcontractor is to have close liaison with the Contractor and Others to ensure works are not adversely affected.
* All works are to be in accordance with the MHCW, and the respective Appendices. The site-specific appendices are attached within this ITT. Documents HE551495-MOTG-GEN-CONWI\_CONW-SP-CH-00100 and HE551495-MOTG-SGN-CONWI\_CONW-SP-CB-00001.
* FORS silver accreditation for all qualifying Equipment is the minimum standard for vehicles attending site.
* All site vehicles must have Chapter 8 markings in accordance with the Traffic Signs Manual
* Protection of the vehicle restraint barrier from any overspray or errant spray is the responsibility of the Subcontractor.
* Subcontractor is responsible for surface preparation of the concrete, and subsequently achieving the pull-off resistance as required in Appendix 1/5.
* xxxxxxxx

### 2.2.3 Summary of key review and approval periods:

The stated periods apply to each iteration / submission. If changes are made or there are comments to be addressed from the review, the minimum periods apply again.

Table 3 - Review and Approval periods

| Item |  Period | Comments |
| --- | --- | --- |
| Risk Assessments and Method Statements | * 2 weeks review by *Contractor*
 |  |
| Information to be included in lift plans | * 2 weeks review by *Contractor*
 |  |
| Materials Approval | * 2 weeks review by *Contractor*
 |  |
| Section 61 | * 1 week review by *Contractor*
* 2 weeks review by Local Council
 |  |
| Lift plans not requiring Network Rail approval | * Basic lift - 48 hours review by *Contractor*
* Intermediate lift – 1 week review by *Contractor*
* Complex lift – 2 weeks review by *Contractor*
 |  |
| Traffic management | * 3 weeks for *Contractor* to book traffic management
* 24 hours notice required to cancel traffic management without charge
 |  |

* + 1. Night Works

It is not expected that waterproofing works will need to take place on nights. However, working hours for nights, if required, will be as per the table below:

Table 4 - Night working hours

|  |  |  |
| --- | --- | --- |
| **Restriction to be Implemented**  | **Time of Day** **(Start to End)**  | **Day/s in Week**  |
| Full closure times  | 21:00 – 06:00  | Monday to Sunday |
| Lane Closure times  | 20:00 – 06:00  | Monday to Sunday  |

# 3.0 Programme:

Refer to ‘A428 - Oct 23 Prog 33 - Waterproofing extract’

# Appendices

## Appendix 4.1 Structures Layout



extract from drawing, HE551495-MOTG-SBR-CONWI\_CONW-DR-CB-00004.pdf”

## Appendix 4.2 Drawing register

**Culverts**

|  |  |  |
| --- | --- | --- |
| **Name** | **Revision \*** | **Full title** |
| HE551495-MOTG-SBR-CONWI\_CONW-DR-CB-00002\_C01\_A5 | C01 | A428 - Culvert Precast Units Joint Details Sheet 1 of 1 |
| HE551495-MOTG-SMN-CONWI\_CONW-DR-CB-00001\_P07\_S3 | P07 | CONW - Minor Culverts Structures Location Layout |
| HE551495-MOTG-SBR-SECT1\_CE74-DR-CB-97431\_C01\_A5 | C01 | Section 1 - CE74 Brookhouse Chawston Culvert - Headwalls and Overlay Slab Concrete Outlines |
| HE551495-MOTG-SBR-SECT1\_CE74-DR-CB-97401\_C01\_A5 | C01 | Section 1 - CE74 Brookhouse Chawston Culvert General Arrangement Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT1\_CE74-DR-CB-97402\_C01\_A5 | C01 | Section 1 - CE74 Brookhouse Chawston Culvert General Arrangement Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT1\_CE74-DR-CB-97421\_C01\_A5 | C01 | Section 1 - CE74 Brookhouse Chawston Culvert Precast Box - Concrete Outline |
| HE551495-MOTG-SBR-SECT1\_ST04-DR-CB-90401\_C01\_A5 | C01 | Section 1 - ST04 - South Brook Roxton Road Link Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT1\_ST04-DR-CB-90402\_C01\_A5 | C01 | Section 1 - ST04 - South Brook Roxton Road Link Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT1\_ST04-DR-CB-90431\_C01\_A5 | C01 | Section 1 - ST04 - South Brook Roxton Road Link Culvert - Headwalls & Overlay Slab - Concrete Outlines |
| HE551495-MOTG-SBR-SECT1\_ST04-DR-CB-90421\_C01\_A5 | C01 | Section 1 - ST04 - South Brook Roxton Road Link Culvert - Precast Box - Concrete Outlines |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-91601\_C01\_A5 | C01 | Section 1 - ST16 - Begwary Brook Roxton Link Culvert General Arrangement - Sheet 1 |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-91602\_C01\_A5 | C01 | Section 1 - ST16 - Begwary Brook Roxton Link Culvert General Arrangement - Sheet 2 |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-91631\_C01\_A5 | C01 | Section 1 - ST16 - Begwary Brook Roxton Link Culvert Headwalls and Overlay Slab |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-91621\_C01\_A5 | C01 | Section 1 - ST16 - Begwary Brook Roxton Link Culvert Precast Box - Concrete Outline |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-98901\_P03\_S4 | P03 | Section 1 - ST89 - Kelpie Marina Access Track Culvert - General Arrangement Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-98902\_P03\_S4 | P03 | Section 1 - ST89 - Kelpie Marina Access Track Culvert - General Arrangement Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-98931\_P01\_S4 | P01 | Section 1 - ST89 - Kelpie Marina Access Track Culvert - Headwalls - Concrete Outline |
| HE551495-MOTG-SMN-SECT1\_SECW-DR-CB-98921\_P01\_S4 | P01 | Section 1 - ST89 - Kelpie Marina Access Track Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91101\_C01\_A5 | C01 | Section 2 - ST11 - Rectory Farm Access Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91102\_C01\_A5 | C01 | Section 2 - ST11 - Rectory Farm Access Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91131\_C01\_A5 | C01 | Section 2 - ST11 - Rectory Farm Access Culvert - Headwalls and Overlay Slab - Concrete Outline |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91121\_C01\_A5 | C01 | Section 2 - ST11 - Rectory Farm Access Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91201\_C01\_A5 | C01 | Section 2 - ST12 - Rectory Farm Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91202\_C01\_A5 | C01 | Section 2 - ST12 - Rectory Farm Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91231\_C01\_A5 | C01 | Section 2 - ST12 - Rectory Farm Culvert - Headwalls and Ovelay Slab - Concrete Outline |
| HE551495-MOTG-SMN-SECT2\_SECW-DR-CB-91221\_C01\_A5 | C01 | Section 2 - ST12 - Rectory Farm Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SBR-SECT3\_ST19-DR-CB-91901\_C01\_A5 | C01 | Section 3 - ST19 - New Hen Brook Culvert and Underpass - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT3\_ST19-DR-CB-91902\_C01\_A5 | C01 | Section 3 - ST19 - New Hen Brook Culvert and Underpass - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT3\_ST19-DR-CB-91931\_C01\_A5 | C01 | Section 3 - ST19 - New Hen Brook Culvert and Underpass - Headwalls - Concrete Outline |
| HE551495-MOTG-SBR-SECT3\_ST19-DR-CB-91921\_C01\_A5 | C01 | Section 3 - ST19 - New Hen Brook Culvert and Underpass - Precast Box - Concrete Outline |
| HE551495-MOTG-SBR-SECT3\_ST20-DR-CB-92001\_P07\_S4 | P07 | Section 3 - ST20 - New Hen Brook Pond Access Track Culverts - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT3\_ST20-DR-CB-92002\_P07\_S4 | P07 | Section 3 - ST20 - New Hen Brook Pond Access Track Culverts - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT3\_ST20-DR-CB-92031\_P02\_S4 | P02 | Section 3 - ST20 - New Hen Brook Pond Access Track Culverts - Headwall and Overlay Slab - Concrete Outline |
| HE551495-MOTG-SBR-SECT3\_ST20-DR-CB-92021\_P02\_S4 | P02 | Section 3 - ST20 - New Hen Brook Pond Access Track Culverts - Precast Box ST20a - Concrete Outline |
| HE551495-MOTG-SBR-SECT3\_ST20-DR-CB-92022\_P02\_S4 | P02 | Section 3 - ST20 - New Hen Brook Pond Access Track Culverts - Precast Box ST20b - Concrete Outline |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92101\_C01\_A5 | C01 | Section 3 - ST21 - Wintringham Brook Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92102\_C01\_A5 | C01 | Section 3 - ST21 - Wintringham Brook Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92131\_C01\_A5 | C01 | Section 3 - ST21 - Wintringham Brook Culvert - Headwalls - Concrete Outlines |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92121\_C01\_A5 | C01 | Section 3 - ST21 - Wintringham Brook Culvert - Precast Box - Concrete Outlines |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92201\_C01\_A5 | C01 | Section 3 - ST22 - Wintringham Brook Pond Access Track Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92202\_C01\_A5 | C01 | Section 3 - ST22 - Wintringham Brook Pond Access Track Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92231\_C01\_A5 | C01 | Section 3 - ST22 - Wintringham Brook Pond Access Track Culvert - Headwalls and Overlay Slab - Concrete Outline |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-92221\_C01\_A5 | C01 | Section 3 - ST22 - Wintringham Brook Pond Access Track Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-94301\_C01\_A5 | C01 | Section 3 - ST43 - Top Farm Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-94302\_C01\_A5 | C01 | Section 3 - ST43 - Top Farm Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-94331\_C01\_A5 | C01 | Section 3 - ST43 - Top Farm Culvert - Headwalls - Concrete Outline |
| HE551495-MOTG-SMN-SECT3\_SECW-DR-CB-94321\_C01\_A5 | C01 | Section 3 - ST43 - Top Farm Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SBR-SECT3\_ST94-DR-CB-99401\_P07\_S4 | P07 | Section 3 - ST94/ST95/ST96 Hen Brook Flood Relief Culverts 1, 2, 3 General Arrangement - Sheet 1 of 3 |
| HE551495-MOTG-SBR-SECT3\_ST94-DR-CB-99402\_P07\_S4 | P07 | Section 3 - ST94/ST95/ST96 Hen Brook Flood Relief Culverts 1, 2, 3 General Arrangement - Sheet 2 of 3 |
| HE551495-MOTG-SBR-SECT3\_ST94-DR-CB-99403\_P07\_S4 | P07 | Section 3 - ST94/ST95/ST96 Hen Brook Flood Relief Culverts 1, 2, 3 General Arrangement - Sheet 3 of 3 |
| HE551495-MOTG-SBR-SECT3\_ST94-DR-CB-99431\_P02\_S4 | P02 | Section 3 - ST94/ST95/ST96 Hen Brook Flood Relief Culverts 1, 2, 3 Headwall - Concrete Details |
| HE551495-MOTG-SBR-SECT3\_ST94-DR-CB-99421\_P03\_S4 | P03 | Section 3 - ST94/ST95/ST96 Hen Brook Flood Relief Culverts 1, 2, 3 Precast Box - Concrete Details |
| HE551495-MOTG-SBR-SECT3\_ST98-DR-CB-99801\_C01\_A5 | C01 | Section 3 - ST98 - Bat Crossing (Mammal Underpass) - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT3\_ST98-DR-CB-99802\_C01\_A5 | C01 | Section 3 - ST98 - Bat Crossing (Mammal Underpass) - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT3\_ST98-DR-CB-99831\_C01\_A5 | C01 | Section 3 - ST98 - Bat Crossing (Mammal Underpass) - Headwalls and Overlay Slab - Concrete Outlines |
| HE551495-MOTG-SBR-SECT3\_ST98-DR-CB-99821\_C01\_A5 | C01 | Section 3 - ST98 - Bat Crossing (Mammal Underpass) - Precast Box - Concrete Outlines |
| HE551495-MOTG-SMN-SECT4\_SECW-DR-CB-92401\_C01\_A5 | C01 | Section 4 - ST24 - New Cambridge Road Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT4\_SECW-DR-CB-92402\_C01\_A5 | C01 | Section 4 - ST24 - New Cambridge Road Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT4\_SECW-DR-CB-92431\_C01\_A5 | C01 | Section 4 - ST24 - New Cambridge Road Culvert - Headwalls - Concrete Outline |
| HE551495-MOTG-SMN-SECT4\_SECW-DR-CB-92421\_C01\_A5 | C01 | Section 4 - ST24 - New Cambridge Road Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SBR-SECT5\_ST30-DR-CB-93001\_C01\_A5 | C01 | Section 5 - ST30 - Gallow Brook Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT5\_ST30-DR-CB-93002\_C01\_A5 | C01 | Section 5 - ST30 - Gallow Brook Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT5\_ST30-DR-CB-93031\_C01\_A5 | C01 | Section 5 - ST30 - Gallow Brook Culvert - Headwalls - Concrete Outline |
| HE551495-MOTG-SBR-SECT5\_ST30-DR-CB-93021\_C01\_A5 | C01 | Section 5 - ST30 - Gallow Brook Culvert - Precast Box - Concrete Outline |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93501\_C01\_A5 | C01 | Section 5 - ST35 - Fairview Farm Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93502\_C01\_A5 | C01 | Section 5 - ST35 - Fairview Farm Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93531\_C01\_A5 | C01 | Section 5 - ST35 - Fairview Farm Culvert - Headwalls - Concrete Outlines |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93521\_C01\_A5 | C01 | Section 5 - ST35 - Fairview Farm Culvert - Precast Box - Concrete Outlines |
| HE551495-MOTG-SBR-SECT5\_ST37-DR-CB-93701\_C01\_A5 | C01 | Section 5 - ST37 - Pillar Plantation Culvert and Underpass - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SBR-SECT5\_ST37-DR-CB-93702\_C01\_A5 | C01 | Section 5 - ST37 - Pillar Plantation Culvert and Underpass - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SBR-SECT5\_ST37-DR-CB-93731\_C01\_A5 | C01 | Section 5 - ST37 - Pillar Plantation Culvert and Underpass - Headwalls and Overlay Slab - Concrete Outline |
| HE551495-MOTG-SBR-SECT5\_ST37-DR-CB-93721\_C01\_A5 | C01 | Section 5 - ST37 - Pillar Plantation Culvert and Underpass - Precast Box - Concrete Outline |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93901\_C01\_A5 | C01 | Section 5 - ST39 - North East Farm Culvert - General Arrangement - Sheet 1 of 2 |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93902\_C01\_A5 | C01 | Section 5 - ST39 - North East Farm Culvert - General Arrangement - Sheet 2 of 2 |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93931\_C01\_A5 | C01 | Section 5 - ST39 - North East Farm Culvert - Headwalls and Overlay Slab - Concrete Outlines |
| HE551495-MOTG-SMN-SECT5\_SECW-DR-CB-93921\_C01\_A5 | C01 | Section 5 - ST39 - North East Farm Culvert - Precast Box - Concrete Outlines |

**Structures**

|  |  |  |  |
| --- | --- | --- | --- |
| **Structure** | **Name** | **Full title** | **Revision \*** |
| ST02 | HE551495-MOTG-SBR-SECT1\_ST02-DR-CB-90281\_C01\_A5 | Section 1 - ST02 - Roxton Road Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST02 | HE551495-MOTG-SBR-SECT1\_ST02-DR-CB-90282\_C01\_A5 | Section 1 - ST02 - Roxton Road Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST02 | HE551495-MOTG-SBR-SECT1\_ST02-DR-CB-90283\_C01\_A5 | Section 1 - ST02 - Roxton Road Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST02 | HE551495-MOTG-SBR-SECT1\_ST02-DR-CB-90201\_C01\_A5 | Section 1 - ST02 - Roxton Road Bridge - General Arrangement - Sheet 1 of 3 | C01 |
| ST02 | HE551495-MOTG-SBR-SECT1\_ST02-DR-CB-90202\_C01\_A5 | Section 1 - ST02 - Roxton Road Bridge - General Arrangement - Sheet 2 of 3 | C01 |
| ST02 | HE551495-MOTG-SBR-SECT1\_ST02-DR-CB-90203\_C01\_A5 | Section 1 - ST02 - Roxton Road Bridge - General Arrangement - Sheet 3 of 3 | C01 |
| ST03 | HE551495-MOTG-SBR-SECT1\_ST03-DR-CB-90381\_C01\_A5 | Section 1 - ST03 - Black Cat West Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST03 | HE551495-MOTG-SBR-SECT1\_ST03-DR-CB-90382\_C01\_A5 | Section 1 - ST03 - Black Cat West Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST03 | HE551495-MOTG-SBR-SECT1\_ST03-DR-CB-90383\_C01\_A5 | Section 1 - ST03 - Black Cat West Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST03 | HE551495-MOTG-SBR-SECT1\_ST03-DR-CB-90301\_C01\_A5 | Section 1 - ST03 - Black Cat West Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST03 | HE551495-MOTG-SBR-SECT1\_ST03-DR-CB-90302\_C01\_A5 | Section 1 - ST03 - Black Cat West Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90581\_P02\_S4 | Section 1 - ST05 - Black Cat Central Bridge - Construction Sequencing - Sheet 1 of 5 | P02 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90582\_P03\_S4 | Section 1 - ST05 - Black Cat Central Bridge - Construction Sequencing - Sheet 2 of 5 | P03 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90583\_P03\_S4 | Section 1 - ST05 - Black Cat Central Bridge - Construction Sequencing - Sheet 3 of 5 | P03 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90584\_P02\_S4 | Section 1 - ST05 - Black Cat Central Bridge - Construction Sequencing - Sheet 4 of 5 | P02 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90585\_P02\_S4 | Section 1 - ST05 - Black Cat Central Bridge - Construction Sequencing - Sheet 5 of 5 | P02 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90501\_P07\_S4 | Section 1 - ST05 - Black Cat Central Bridge - General Arrangement - Sheet 1 of 3 | P07 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90502\_P08\_S4 | Section 1 - ST05 - Black Cat Central Bridge - General Arrangement - Sheet 2 of 3 | P08 |
| ST05 | HE551495-MOTG-SBR-SECT1\_ST05-DR-CB-90503\_P06\_S4 | Section 1 - ST05 - Black Cat Central Bridge - General Arrangement - Sheet 3 of 3 | P06 |
| ST06 | HE551495-MOTG-SBR-SECT1\_ST06-DR-CB-90681\_P02\_S4 | Section 1 - ST06 - Black Cat South Bridge - Construction Sequencing - Sheet 1 of 4 | P02 |
| ST06 | HE551495-MOTG-SBR-SECT1\_ST06-DR-CB-90682\_P02\_S4 | Section 1 - ST06 - Black Cat South Bridge - Construction Sequencing - Sheet 2 of 4 | P02 |
| ST06 | HE551495-MOTG-SBR-SECT1\_ST06-DR-CB-90683\_P02\_S4 | Section 1 - ST06 - Black Cat South Bridge - Construction Sequencing - Sheet 3 of 4 | P02 |
| ST06 | HE551495-MOTG-SBR-SECT1\_ST06-DR-CB-90684\_P02\_S4 | Section 1 - ST06 - Black Cat South Bridge - Construction Sequencing - Sheet 4 of 4 | P02 |
| ST06 | HE551495-MOTG-SBR-SECT1\_ST06-DR-CB-90601\_P06\_S4 | Section 1 - ST06 - Black Cat South Bridge - General Arrangement - Sheet 1 of 2 | P06 |
| ST06 | HE551495-MOTG-SBR-SECT1\_ST06-DR-CB-90602\_P06\_S4 | Section 1 - ST06 - Black Cat South Bridge - General Arrangement - Sheet 2 of 2 | P06 |
| ST07 | HE551495-MOTG-SBR-SECT1\_ST07-DR-CB-90781\_P03\_S4 | Section 1 - ST07 - Black Cat North Bridge - Construction Sequencing - Sheet 1 of 3 | P03 |
| ST07 | HE551495-MOTG-SBR-SECT1\_ST07-DR-CB-90782\_P02\_S4 | Section 1 - ST07 - Black Cat North Bridge - Construction Sequencing - Sheet 2 of 3 | P02 |
| ST07 | HE551495-MOTG-SBR-SECT1\_ST07-DR-CB-90783\_P02\_S4 | Section 1 - ST07 - Black Cat North Bridge - Construction Sequencing - Sheet 3 of 3 | P02 |
| ST07 | HE551495-MOTG-SBR-SECT1\_ST07-DR-CB-90701\_P06\_S4 | Section 1 - ST07 - Black Cat North Bridge - General Arrangement - Sheet 1 of 2 | P06 |
| ST07 | HE551495-MOTG-SBR-SECT1\_ST07-DR-CB-90702\_P06\_S4 | Section 1 - ST07 - Black Cat North Bridge - General Arrangement - Sheet 2 of 2 | P06 |
| ST08 | HE551495-MOTG-SBR-SECT1\_ST08-DR-CB-90881\_C01\_A5 | Section 1 - ST08 - Black Cat East Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST08 | HE551495-MOTG-SBR-SECT1\_ST08-DR-CB-90882\_C01\_A5 | Section 1 - ST08 - Black Cat East Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST08 | HE551495-MOTG-SBR-SECT1\_ST08-DR-CB-90883\_C01\_A5 | Section 1 - ST08 - Black Cat East Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST08 | HE551495-MOTG-SBR-SECT1\_ST08-DR-CB-90801\_C01\_A5 | Section 1 - ST08 - Black Cat East Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST08 | HE551495-MOTG-SBR-SECT1\_ST08-DR-CB-90802\_C01\_A5 | Section 1 - ST08 - Black Cat East Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90981\_P03\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - Construction Sequencing - Sheet 1 of 5 | P03 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90982\_P03\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - Construction Sequencing - Sheet 2 of 5 | P03 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90983\_P03\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - Construction Sequencing - Sheet 3 of 5 | P03 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90984\_P03\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - Construction Sequencing - Sheet 4 of 5 | P03 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90985\_P03\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - Construction Sequencing - Sheet 5 of 5 | P03 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90901\_P09\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - General Arrangement - Sheet 1 of 2 | P09 |
| ST09 | HE551495-MOTG-SBR-SECT1\_ST09-DR-CB-90902\_P08\_S4 | Section 1 - ST09 - River Great Ouse Viaduct - General Arrangement - Sheet 2 of 2 | P08 |
| ST10 | HE551495-MOTG-SBR-SECT2\_ST10-DR-CB-91080\_C01\_A5 | Section 2 - ST10 - Barford Road Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST10 | HE551495-MOTG-SBR-SECT2\_ST10-DR-CB-91081\_C01\_A5 | Section 2 - ST10 - Barford Road Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST10 | HE551495-MOTG-SBR-SECT2\_ST10-DR-CB-91082\_C01\_A5 | Section 2 - ST10 - Barford Road Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST10 | HE551495-MOTG-SBR-SECT2\_ST10-DR-CB-91001\_C01\_A5 | Section 2 - ST10 - Barford Road Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST10 | HE551495-MOTG-SBR-SECT2\_ST10-DR-CB-91002\_C01\_A5 | Section 2 - ST10 - Barford Road Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST13 | HE551495-MOTG-SBR-SECT2\_ST13-DR-CB-91381\_P03\_S4 | Section 2 - ST13 - East Coast Main Line Bridge - Construction Sequencing - Sheet 1 of 4 | P03 |
| ST13 | HE551495-MOTG-SBR-SECT2\_ST13-DR-CB-91382\_P02\_S4 | Section 2 - ST13 - East Coast Main Line Bridge - Construction Sequencing - Sheet 2 of 4 | P02 |
| ST13 | HE551495-MOTG-SBR-SECT2\_ST13-DR-CB-91383\_P03\_S4 | Section 2 - ST13 - East Coast Main Line Bridge - Construction Sequencing - Sheet 3 of 4 | P03 |
| ST13 | HE551495-MOTG-SBR-SECT2\_ST13-DR-CB-91384\_P03\_S4 | Section 2 - ST13 - East Coast Main Line Bridge - Construction Sequencing - Sheet 4 of 4 | P03 |
| ST13 | HE551495-MOTG-SBR-SECT2\_ST13-DR-CB-91301\_P06\_S4 | Section 2 - ST13 - East Coast Main Line Bridge - General Arrangement - Sheet 1 of 2 | P06 |
| ST13 | HE551495-MOTG-SBR-SECT2\_ST13-DR-CB-91302\_P06\_S4 | Section 2 - ST13 - East Coast Main Line Bridge - General Arrangement - Sheet 2 of 2 | P06 |
| ST14 | HE551495-MOTG-SBR-SECT3\_ST14-DR-CB-91401\_C01\_A5 | Section 3 - ST14 - Top Farm Accommodation Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST14 | HE551495-MOTG-SBR-SECT3\_ST14-DR-CB-91402\_C01\_A5 | Section 3 - ST14 - Top Farm Accommodation Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST17 | HE551495-MOTG-SBR-SECT3\_ST17-DR-CB-91701\_C01\_A5 | Section 3 - ST17 - B1046 Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST17 | HE551495-MOTG-SBR-SECT3\_ST17-DR-CB-91702\_C01\_A5 | Section 3 - ST17 - B1046 Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST25 | HE551495-MOTG-SBR-SECT4\_ST25-DR-CB-92581\_C01\_A5 | Section 4 - ST25 - Cambridge Road Junction Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST25 | HE551495-MOTG-SBR-SECT4\_ST25-DR-CB-92582\_C01\_A5 | Section 4 - ST25 - Cambridge Road Junction Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST25 | HE551495-MOTG-SBR-SECT4\_ST25-DR-CB-92583\_C01\_A5 | Section 4 - ST25 - Cambridge Road Junction Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST25 | HE551495-MOTG-SBR-SECT4\_ST25-DR-CB-92501\_C01\_A5 | Section 4 - ST25 - Cambridge Road Junction Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST25 | HE551495-MOTG-SBR-SECT4\_ST25-DR-CB-92502\_C01\_A5 | Section 4 - ST25 - Cambridge Road Junction Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST28 | HE551495-MOTG-SBR-SECT5\_ST28-DR-CB-92881\_C01\_A5 | Section 5 - ST28 - Fox Brook Bridge Construction Sequencing Sheet 1 | C01 |
| ST28 | HE551495-MOTG-SBR-SECT5\_ST28-DR-CB-92882\_C01\_A5 | Section 5 - ST28 - Fox Brook Bridge Construction Sequencing Sheet 2 | C01 |
| ST28 | HE551495-MOTG-SBR-SECT5\_ST28-DR-CB-92801\_C01\_A5 | Section 5 - ST28 - Fox Brook Bridge General Arrangement Sheet 1 | C01 |
| ST28 | HE551495-MOTG-SBR-SECT5\_ST28-DR-CB-92802\_C01\_A5 | Section 5 - ST28 - Fox Brook Bridge General Arrangement Sheet 2 | C01 |
| ST31 | HE551495-MOTG-SBR-SECT5\_ST31-DR-CB-93181\_C01\_A5 | Section 5 - ST31 - Toseland Road Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST31 | HE551495-MOTG-SBR-SECT5\_ST31-DR-CB-93182\_C01\_A5 | Section 5 - ST31 - Toseland Road Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST31 | HE551495-MOTG-SBR-SECT5\_ST31-DR-CB-93183\_C01\_A5 | Section 5 - ST31 - Toseland Road Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST31 | HE551495-MOTG-SBR-SECT5\_ST31-DR-CB-93101\_C01\_A5 | Section 5 - ST31 - Toseland Road Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST31 | HE551495-MOTG-SBR-SECT5\_ST31-DR-CB-93102\_C01\_A5 | Section 5 - ST31 - Toseland Road Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST38 | HE551495-MOTG-SBR-SECT5\_ST38-DR-CB-93880\_C01\_A5 | Section 5 - ST38 - Eltisely Junction & St. Ives Road Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST38 | HE551495-MOTG-SBR-SECT5\_ST38-DR-CB-93881\_C01\_A5 | Section 5 - ST38 - Eltisely Junction & St. Ives Road Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST38 | HE551495-MOTG-SBR-SECT5\_ST38-DR-CB-93882\_C01\_A5 | Section 5 - ST38 - Eltisely Junction & St. Ives Road Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST38 | HE551495-MOTG-SBR-SECT5\_ST38-DR-CB-93801\_C01\_A5 | Section 5 - ST38 - Eltisely Junction & St. Ives Road Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST38 | HE551495-MOTG-SBR-SECT5\_ST38-DR-CB-93802\_C01\_A5 | Section 5 - ST38 - Eltisely Junction & St. Ives Road Bridge - General Arrangement - Sheet 2 of 2 | C01 |
| ST40 | HE551495-MOTG-SBR-SECT6\_ST40-DR-CB-94081\_C01\_A5 | Section 6 - ST40 - Caxton Gibbet A1198 Bridge - Construction Sequencing - Sheet 1 of 3 | C01 |
| ST40 | HE551495-MOTG-SBR-SECT6\_ST40-DR-CB-94082\_C01\_A5 | Section 6 - ST40 - Caxton Gibbet A1198 Bridge - Construction Sequencing - Sheet 2 of 3 | C01 |
| ST40 | HE551495-MOTG-SBR-SECT6\_ST40-DR-CB-94083\_C01\_A5 | Section 6 - ST40 - Caxton Gibbet A1198 Bridge - Construction Sequencing - Sheet 3 of 3 | C01 |
| ST40 | HE551495-MOTG-SBR-SECT6\_ST40-DR-CB-94001\_C01\_A5 | Section 6 - ST40 - Caxton Gibbet A1198 Bridge - General Arrangement - Sheet 1 of 2 | C01 |
| ST40 | HE551495-MOTG-SBR-SECT6\_ST40-DR-CB-94002\_C01\_A5 | Section 6 - ST40 - Caxton Gibbet A1198 Bridge - General Arrangement - Sheet 2 of 2 | C01 |

**Specifications**

|  |  |  |
| --- | --- | --- |
| HE551495-MOTG-GEN-CONWI\_CONW-SP-CH-00100 | Series 000 to 100 Specification | P02 |
| HE551495-MOTG-SGN-CONWI\_CONW-SP-CB-00001 | Series 1700 to 2600 Specification | P09 |

**ST74 Phasing**

|  |  |  |
| --- | --- | --- |
| HE551495-TBC-TTW-TBC-TBC-CW-SK001 | ST 74 phasing  | P01 |
| HE551495-TBC-TTW-TBC-TBC-CW-SK002 | ST 74 phasing  | P01 |
| HE551495-TBC-TTW-TBC-TBC-CW-SK003 | ST 74 phasing  | P01 |

## Appendix 4.3 Attendance / Facilities

The following attendances / facilities will be provided by the *Contractor*, free of charge (unless noted), from the first *subcontract access date* until the Subcontract Completion Date. Unless described otherwise, the attendances / facilities are shared with others and are not for the exclusive use of the *Subcontractor*.

No other attendances / facilities will be provided, and the *Subcontractor* has allowed for all such other costs as required to Provide the Subcontract Works within their Prices.

The *Contractor* reserves the right to withdraw any of the above attendances / facilities in the event of wilful damage or misuse by the *Subcontractor*.

| Attendance / Facility: | *Contractor* Provides: | *Subcontractor* Provides: | Comment: |
| --- | --- | --- | --- |
| 1. Materials Handling
 |
| * 1. Receiving (i.e. Checking)
 |  | X | Subcontractor to check correct material prior to placement |
| * 1. Offloading in stock or store
 |  | X  | Subcontractor to offload all delivered material for the package of works |
| * 1. Stacking / Unstacking
 |  | X |  |
| * 1. Protecting
 |  | X |  |
| * 1. Handling & Distribution from storage to site location
 |  | X |  |
| * 1. Hoisting / Placing
 |  | X |  |
| * 1. Positioning
 |  | X |  |
| 1. The Subcontract Works
 |
| 1. Setting out
 |  x  |  |  |
| 1. Management & Supervision
 |  | X | . |
| 1. Control of labour
 |  | X |  |
| 1. Protection until hand over
 |  | X |  |
| 1. Disposal of waste off site
 |  | X | Subcontractor is to remove all their waste off site.  |
| 1. Identification and marking of known underground services
 |  N/A  | N/A |  |
| 1. Issue of Permits to Dig & Permits to Enter
 |  N/A  | N/A |  |
| 1. Traffic Management when applicable
 | X  |  |  |
| 1. Temporary barriers to works areas
 |  | X |  |
| 1. Spill kits
 |  | X | There will be spill kits on site however the Subcontractor is also required to have spill kits for their equipment. |
| 1. Surveys
 | X |  |  |
| 1. Testing
 |  | X | All QA document to be provided to Contractor as required by Appx 1/5 |
| 1. Fuel
 |  | X | The Subcontractor is required to utilise HVO (Hydrotreated Vegetable Oil) fuel in relation to the Subcontract works. To aide this Skanska have a framework agreement in place with;Green BioFuels LimitedPlease use below contact details to utilise this agreement;Magnus Hammickmagnus@gbf.ltd+44 7850 246805 |
| 1. Tools, plant and equipment
 |
| 1. Small tools – shovels, hammers, wedges & the like
 |  | X |  |
| 1. Hand held power tools, drills & the like
 |  | X |  |
| 1. Small plant, barrows, working platforms, edge protection & the like
 |  | X |  |
| 1. Small mechanical plant – Power benders, saws, mobile hoists, compressors, bowsers, etc
 |  | X |  |
| 1. Mobile craneage
 | X |  | If required to land equipment onto bridge decks only. |
| 1. Concrete pumps
 | N/A | N/A | N/A |
| 1. Banksman for craneage / lifting operations / operated plant
 | X |  | If required to land equipment onto bridge decks only. |
| 1. Waste skips & containers for recyclable material
 |   |  X  | Subcontractor to remove all waste off site. |
| 1. Access scaffolding
 | X |  | Access to working area only. Not provided for working activity. |
| 1. Fixed and mobile working platforms
 |  | X |  |
| 1. Pumping and dewatering
 | X |  |  |
| 1. Task lighting
 |  | X |  |
| 1. Use of Contractor’s Site Facilities
 |
| * 1. Storage area within site compound
 | X  |  | Subcontractor to confirm area required. |
| * 1. Desk space within Contractor’s office
 | X  |  | Hot desks available if required, No permanent desk will be provided. |
| * 1. IT & Communication (computers, IT network, software, telephones)
 |  | X | Use of Contractor WiFi (if available) |
| * 1. Printing, copying
 |  X  |  |  |
| * 1. Satellite offices
 | X |  | Reasonable use of satellite offices provided. |
| * 1. Light / power to storage areas
 |  | X |  |
| * 1. Temporary power for tools and Equipment
 |  | X | The Subcontractor to provide all temporary power to carry out their works |
| * 1. Water for works
 | N/A | N/A |  |
| * 1. Telephone
 |  | X |  |
| * 1. Security
 | X  | X | The Contractor only provides security at the main compounds. The Contractor is not liable for any loss or damage. The Subcontractor is responsible for securing its own items. |
| * 1. Road cleaning or wheel washing facilities at access/egress points to and from the site
 | X  |  |  |
| * 1. Cleaning of works area and removal of rubbish to designated skips
 |  | X | All waste removed off-site by the Subcontractor |
| * 1. Access to the Contractor’s web-based document control systems
 | X  |  |  |
| 1. Welfare
 |
| 1. Personal protective equipment and the like
 |  | X |  |
| 1. Contractor’s main compound drying room
 | X  |  |  |
| 1. Contractor’s first aider and first aid facilities
 | X  | X | *Subcontracto*r is also to provide first aiders and supplies. |
| 1. Contractor’s main compound canteen facilities (non-catered)
 | X  |  |  |
| 1. Contractor’s main compound toilet / washing facilities
 | X  |  |  |
| 1. Contractor’s satellite welfare facilities
 | X  |  |  |

## Appendix 4.4 – ST74 Phasing details

The drawings are available in an attached file. The three drawings are:

HE551495-TBC-TTW-TBC-TBC-CW-SK001 P01

HE551495-TBC-TTW-TBC-TBC-CW-SK002 P01

HE551495-TBC-TTW-TBC-TBC-CW-SK003 P01