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| **Regional Delivery Partnership**  **Black Cat to Caxton Gibbet Improvement** |
| **Fencing – Mainline and Local Roads** |
| **Technical Briefing** |
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**Document control**

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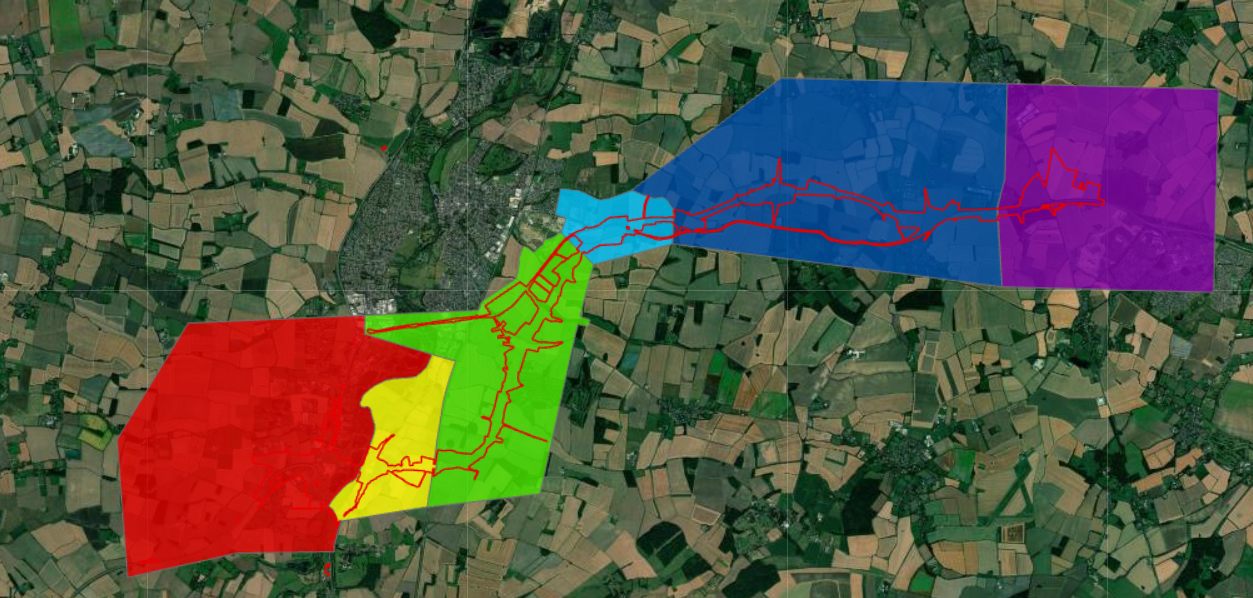
1. Project Overview:
   1. The Scheme
      1. The existing A428 connects communities between St Neots and Cambourne and links the East of England to important regional, national and international hubs such as the Felixstowe and Harwich ports. The route also connects Bedford, Milton Keynes and the M1 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:
2. 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.
3. The Black Cat roundabout will be re-constructed to a new three tier junction, which will allow traffic to flow freely on the A1 by travelling under the junction and on the new dual carriageway over the junction.
4. 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.
5. 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.
6. 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.
7. 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.
8. Improved local roads within proximity to the Scheme due to safety requirements and alternative accesses provided to side roads at Chawston, Wyboston and Eltisley.
9. 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.
   1. Map of Scheme:

**Map

Description automatically generated**

1. Scope:

The scheme is split into six sections, as shown in the below sketch. To aid with the breakdown of detail within this scope, the required work will be displayed for each section, with the volumes of each fencing type.



**The fencing types that are required across the scheme are detailed below;**

* Post and 4 rail fence in accordance with Highway Construction Detail (HCD) H3
* Strained wire fence in accordance with HCD H13
* Close boarded fence in accordance with HCD H14
* Mammal fence in accordance with HCD H5 with Type 8 wire mesh in accordance with HCD H48 with a crank
* Bat fence in accordance with HCD H6 with Type 8 wire mesh in accordance with HCD H48 without a crank
* Mammal and bat fence in accordance with HCD H6 with type 8 wire mesh in accordance with HCD H48 with a crank
* Chain link fence in accordance with HCD H11
* Steel palisade fence in accordance with Network rail standard detail: NR/L2/TRK/5100/1/WP 2015 rev A
* Post and 4 Rail fence HCD H3 with type one wire mesh in accordance with HCD H46
* Anti-glare screen attached to Vehicle Restraint System in accordance with Clause 412 and Appendix 4/1

**The gate types that are required across the scheme are detailed below;**

* Steel single field gate in accordance with HCD H17 (dimension 'a' used is 4500mm)
* Steel double field gate in accordance with HCD H20
* Palisade fencing gate 4.5m wide (details to be agreed with network rail)
* Bat fencing gate in accordance with HCD H6 with type 8 wire mesh in accordance with HCD H48 without a crank (dimension ‘a’ to be 4500)
* Mammal and bat fencing gate in accordance with HCD H6 with type 8 wire mesh in accordance with HCD H48 with a crank (dimension ‘a’ to be 4500)
* Mammal fencing gate in accordance with HCD H5 with type 8 wire mesh in accordance with HCD H48 with a crank (dimension ‘a’ to be 4500)
* Steel half mesh single field gate in accordance with HCD H18 (dimension ‘a’ to be 4500)
* Timber wicket gate in accordance with HCD H23

**Materials for fencing**

* Materials shall be as per specification for highway works/ Highway Construction Detail.
* The supplier is responsible for procuring of materials required for the works
* Prior approval of materials is required before procuring of materials. These shall be submitted as material acceptance forms (MAR) for approval. Allow 3 week for approval of these.
* The subcontractor is to use FSC timber throughout.
  1. Section 1 / Zone 1 CH0 – CH2450
     1. Section 1 is the online section of the scheme, with interface with the live A1 traffic, as well as the A421 to Bedford.
     2. Large sections of the work areas will be completed under traffic management; therefore, equipment must be suitable to transport to the point or works. It is also to be noted due to the constraints within traffic management, remobilisation may be required to suit the constructors sequencing with the available work in each phase.

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| **Item** | **Code** | **Description** | **Unit** | **Quantity** |
| **1.1** | **Fences** | | **length (m)** | **15675.69** |
| 1.1.1 | P4R | Post and 4 rail fence in accordance with (HCD) H3 | length (m) | 13029.62 |
| 1.1.2 | CB | Close boarded fence in accordance with (HCD) H14 | length (m) | 1295 |
| 1.1.3 | MAM | Manal fence in accordance with (HCD) H5 with Type 8 Wire mesh in accordance with HCD H48 with a crank. | length (m) | 1011.67 |
| 1.1.4 | AD | Anti-glare screen attached to VRS | length (m) | 22.7 |
| 1.1.5 | PRN | Post and rail with standard netting | length (m) | 266.8 |
| 1.1.6 | SWF | Strained wire fence in accordance with (HCD) H13 | length (m) | 49.9 |
| **1.2** | **Gates** | |  |  |
| 1.2.1 |  | Steel single field gate in accordance with (HCD) H17 | Unit | 17 |
| 1.2.2 |  | Timber wicket gate in accordance with (HCD) H23 | Unit | 10 |
| 1.2.3 |  | Steel double field gate in accordance with (HCD) H20 | Unit | 3 |
| 1.2.4 |  | Badger gate | Unit | 2 |
| 1.2.5 |  | Post and rail with standard netting gate | Unit | 1 |

* 1. Section 2 / Zone 2 CH2450 – CH3860
     1. Section 2 is predominately offline, with interface from the live Barford Road, that crosses through the section.
     2. This section has an interface with Network rail, meaning Network Rail guidance must be followed withing 50m of the asset, including; Orange PPE, slew restricted plant and WPP/RAMS submitted to Network Rail prior to works. Palisade fencing will be installed adjacent to the Network Rail boundary; however, this will be done in a High Street Environment.
     3. The Contractor cannot guarantee paved access routes or haul roads will be available to the point of works. The Subcontractor is to anticipate the requirements overcome rural access to deliver equipment and materials to the point of works.

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| **Item** | **Code** | **Description** | **Unit** | **Quantity** |
| **1.1** | **Fences** | | **length (m)** | **5142.77** |
| 1.1.1 | P4R | Post and 4 rail fence in accordance with (HCD) H3 | length (m) | 3804.75 |
| 1.1.2 | CB | Close boarded fence in accordance with (HCD) H14 | length (m) | 281 |
| 1.1.3 | MAM | Mamal fence in accordance with (HCD) H5 with Type 8 Wire mesh in accordance with HCD H48 with a crank | length (m) | 614.69 |
| 1.1.4 | BAT | Bat fence in accordance with (HCD) H48 | length (m) | 235.22 |
| 1.1.5 | PAL | Steel palisade fence | length (m) | 163.55 |
| 1.1.6 | CLF | Chain link fence | length (m) | 43.56 |
| **1.2** | **Gates** | |  |  |
| 1.2.1 |  | Steel single field gate in accordance with (HCD) H17 | Unit | 8 |
| 1.2.2 |  | Timber wicket gate in accordance with (HCD) H23 | Unit | 2 |
| 1.2.3 |  | Palisade fencing gate 4.5m wide | Unit | 2 |
| 1.2.4 |  | Badger gate | Unit | 1 |

* 1. Section 3 / Zone 3 CH3860 – CH9030
     1. Section 3 is predominately offline, with interface with the live Potton Road that crosses through the section, as well as the Live A428.
     2. This section has an interface with Network rail, meaning Network Rail guidance must be followed within 50m of the asset, including; Orange PPE, slew restricted plant and WPP/RAMS submitted to Network Rail prior to works. Palisade fencing will be installed adjacent to the Network Rail boundary; however, this will be done in a High Street Environment
     3. The Contractor cannot guarantee paved access routes or haul roads will be available to the point of works. The Subcontractor is to anticipate the requirement overcome rural access to get equipment and materials to the point of works.

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| **Item** | **Code** | **Description** | **Unit** | **Quantity** |
| **1.1** | **Fences** | | **length (m)** | **18242.322** |
| 1.1.1 | P4R | Post and 4 rail fence in accordance with (HCD) H3 | length (m) | 14852.219 |
| 1.1.2 | PAL | Steel palisade fence | length (m) | 73.86 |
| 1.1.3 | MAM | Mamal fence in accordance with (HCD) H5 with Type 8 Wire mesh in accordance with HCD H48 with a crank | length (m) | 2402.103 |
| 1.1.4 | CLF | Chain link fence | length (m) | 43.2 |
| 1.1.5 | M+B | Mammal and bat fence in accordance with (HCD) H48 | length (m) | 391.95 |
| 1.1.6 | BAT | Bat fence in accordance with (HCD) H48 | length (m) | 478.99 |
| **1.2** | **Gates** | |  |  |
| 1.2.1 |  | Steel single field gate in accordance with (HCD) H17 | Unit | 24 |
| 1.2.2 |  | Timber wicket gate in accordance with (HCD) H23 | Unit | 9 |
| 1.2.3 |  | Steel double field gate in accordance with (HCD) H20 | Unit | 3 |
| 1.2.4 |  | Badger gate | Unit | 3 |
| 1.2.5 |  | Palisade fencing gate | Unit | 2 |

* 1. Section 4 / Zone 4 CH9030 – CH10940
     1. Section 4 is predominately offline, with interface with the live A428.
     2. The Contractor cannot guarantee paved access routes or haul roads will be available to the point of works. The Subcontractor is to anticipate the requirement overcome rural access to get equipment and materials to the point of works.

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| **Item** | **Code** | **Description** | **Unit** | **Quantity** |
| **1.1** | **Fences** | | **length (m)** | **3626** |
| 1.1.1 | P4R | Post and 4 rail fence in accordance with (HCD) H3 | length (m) | **3426** |
| 1.1.2 | MAM | Mamal fence in accordance with (HCD) H5 with Type 8 Wire mesh in accordance with HCD H48 with a crank | length (m) | **200** |
| **1.2** | **Gates** | |  |  |
| 1.2.1 |  | Steel single field gate in accordance with (HCD) H17 | Unit | 4 |

* 1. Section 5 / Zone 5 CH10940 – CH17200

2. 1. 1. Section 5 is the predominately offline, with interface with the live A428, St. Ives Road and Toseland Road, that cross through the section.
      2. The Contractor cannot guarantee paved access routes or haul roads will be available to the point of works. The Subcontractor is to anticipate the requirement overcome rural access to get equipment and materials to the point of works.

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| **Item** | **Code** | **Description** | **Unit** | **Quantity** |
| **1.1** | **Fences** | | **length (m)** | **20397.25** |
| 1.1.1 | P4R | Post and 4 rail fence in accordance with (HCD) H3 | length (m) | **18580.15** |
| 1.1.2 | CB | Close boarded fence in accordance with (HCE) H14 | length (m) | **112.22** |
| 1.1.3 | MAM | Manal fence in accordance with (HCD) H5 with Type 8 Wire mesh in accordance with HCD H48 with a crank | length (m) | **1004.78** |
| 1.1.4 | M+B | Mammal and bat fence in accordance with (HCD) H48 | length (m) | **290.88** |
| 1.1.5 | BAT | Bat fence in accordance with (HCD) H48 | length (m) | **409.22** |
| **1.2** | **Gates** | |  |  |
| 1.2.1 |  | Steel single field gate in accordance with (HCD) H17 | Unit | 16 |
| 1.2.2 |  | Timber wicket gate in accordance with (HCD) H23 | Unit | 13 |
| 1.2.3 |  | Mounting block | Unit | 4 |
| 1.2.4 |  | Steel double field gate in accordance with HCD H20 | Unit | 1 |

* 1. Section 6 / Zone 6 CH17200 – CH19142

2. 1. 1. Section 6 is a mix of offline and online, with interface with the live A428 Single and Dual carriageway sections, along with Ermine Street that crosses through the section.
      2. The Contractor cannot guarantee paved access routes or haul roads will be available to the offline points of work. The Subcontractor is to anticipate the requirement overcome rural access to get equipment and materials to the point of works.
      3. For work areas that require completion under traffic management, Subcontractor is to ensure equipment is suitable to transport to the point or works. It is also to be noted due to the constraints within traffic management, remobilisation may be required to suit the constructors sequencing with the available work in each phase.

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| **Item** | **Code** | **Description** | **Unit** | **Quantity** |
| **1.1** | **Fences** | | **length (m)** | **5814.35** |
| 1.1.1 | P4R | Post and 4 rail fence in accordance with (HCD) H3 | length (m) | **5814.35** |
| **1.2** | **Gates** | |  |  |
| 1.2.1 |  | Steel single field gate in accordance with (HCD) H17 | Unit | 4 |
| 1.2.2 |  | Timber wicket gate in accordance with (HCD) H23 | Unit | 3 |

1. Subcontractor Information
   * 1. Information to be supplied as part of the tender submission.

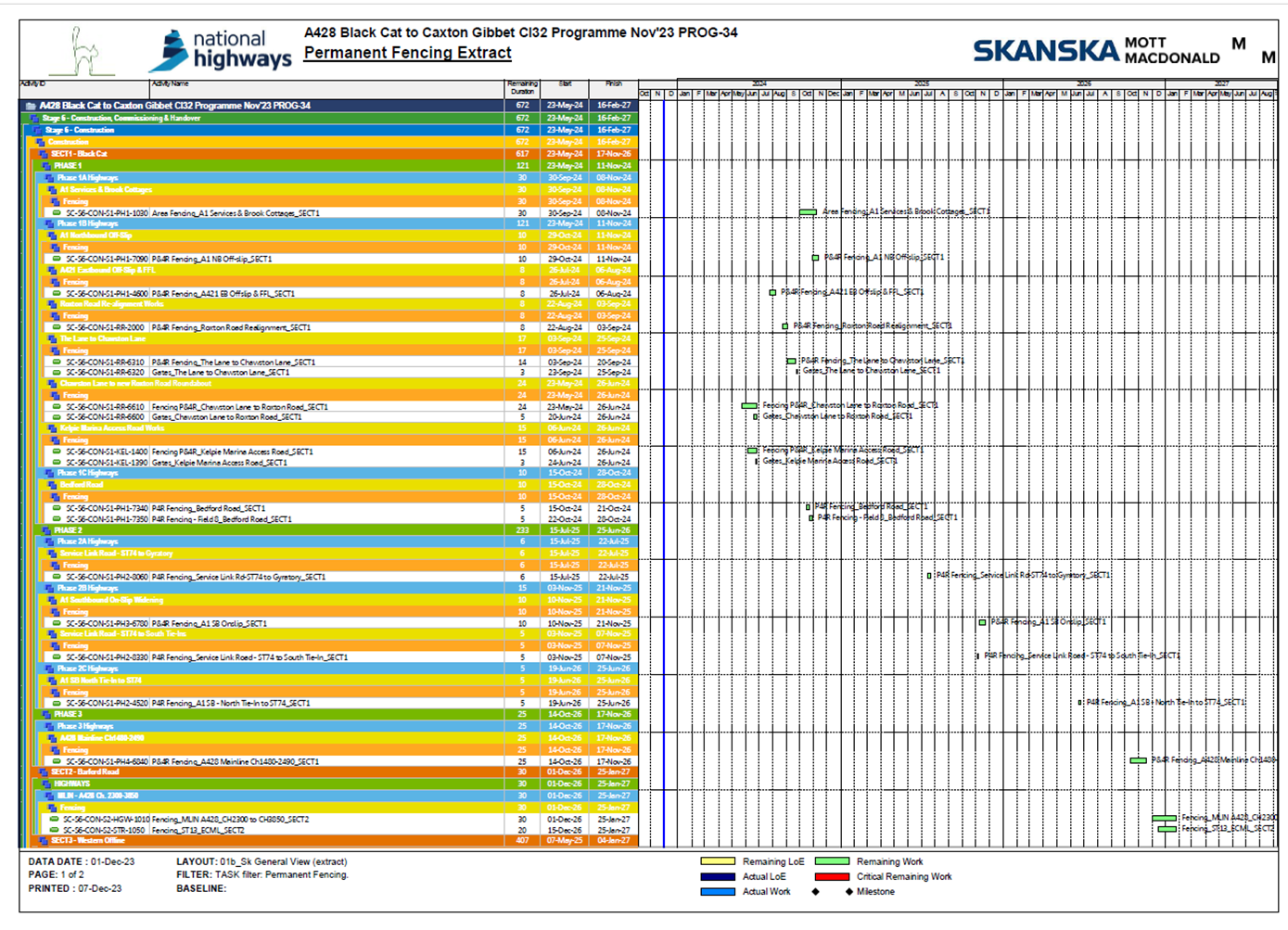
* Produce full detailed resource programme.
* Identify innovations and value engineering opportunities.
* Details of Carbon strategy.
* Provide general storage area requirements for points of works and storage area requirement for in main compound.
  + 1. Subcontractor’s requirements
* Scope of the Subcontract works comprises of the provision of all necessary People, Equipment and Access to undertake the completion of all fencing as detailed within this scope.
* Early subcontractor involvement for planning and coordination of the works. Submission of the methodology.
* 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 is to allow for ground conditions.
* Subcontractor is to make good any topsoil / work area, to the same standard or better than the condition that they found it after completing their works.
* 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.
* Environmental impact on the surrounding area must be, where possible, eliminated. where not possible, all impact must be controlled and minimised. The Subcontractor is responsible for the control of dust, noise, and vibration caused by the undertaking of the Subcontractor works.
* The Subcontractor is to issue monthly Clause 32 programmes to the Contractor for acceptance. A rolling programme for future Material and Plant delivery requirements will be completed, issued, and discussed weekly at the collaborative meeting.
* The Subcontractor is to sequence certain activities to align with the Contractor’s overall construction strategies, particularly at structures and with traffic management constraints. The Subcontractor is to work with the Contractor to manage and ensure the effective co-ordination and sequencing at all interfaces and connections between the Subcontract works and all other site works.
* The Subcontractor is to attend weekly progress meeting, daily start of shift and monthly Health & Safety meeting.
* 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.
* Joint inspections by the Subcontractor and Contractor are carried out to confirm the availability of works areas, sufficiently in advance of commencement at each work area. Any inadequacies in the works areas shall be notified to the Contractor in writing and reasonable measures shall be taken by the Contractor to resolve the inadequacy.
* All Fencing to be completed in accordance with series 300 of the MHCW and Volume 3 - Highway Construction Details H series. Sign off will be required by Contractor prior to moving to next structure.
* The Subcontractor raises and progresses to conclusion, non-conformance reports in respect of any Defect or non-compliance relating to the subcontract works.
* The Subcontractor is reasonable to make every attempt to check and verify the works complete conforms with the inspection test plan (ITP). The ITP produced by the Contractor will identify all requirements of testing and recording evidence required. The Subcontractor shall produce QA records for the fence runs installed, followed by Joint inspection carried out by the A428 engineer and the QA representative. This shall be recorded in the QA forms to sign off the acceptance of the work completed.
* The Subcontractor is to supply a dedicated supervisor at each work area at all times during the contract works.
* All personnel to hold a National Highways Passport.
* Monthly People hours will be generated from the Biometric system.
* The Subcontractor are to complete daily allocation sheets to be in format acceptable to the Contractor, signed off at the end of each working day by the Subcontractor and to be submitted to the Contractor daily. Subcontractor to utilise the Contractor’s online system when available. People and Equipment levels detailed by type of Equipment should be included but are for record purposes only.
* Failure by the Subcontractor to maintain the site in a tidy and workmanlike condition may result in the issue of a notice to rectify such failure within a maximum period of 4 hours from the issue of the notice. In the event that the Subcontractor does not comply with the notice within the prescribed time period, the Contractor may carry out the works themselves.  In such cases of rectification by the Contractor, the Contractor’s costs plus 15% will be paid by or retained from the Subcontractor. Any packaging or light materials that may be blown away by the wind shall be weighed down.
* The Subcontractor provides all statutory warning notices applicable to the Subcontract works.
* Public interface must be managed by the Subcontractor, as well as interface with other works activities. Subcontractor to set up clear segregation of working area, with the use of fencing, barriers, and signage, to secure the area to prevent unauthorised access. All to be supplied and maintained by the Subcontractor.
* The Subcontractor is to supply Banksman/Slinger Signaller for all lifting operations.
* The Subcontractor is to provide vehicle marshal in all instances where the movement of Equipment is required (this includes, but is not limited to operations utilising the Subcontractor’s or the Contractor’s Equipment).
* The Subcontractor is to supply details for all lifting operations and weights of items being lifted within their RAMs. For all Subcontractor lifts, A Lift Plan is to be completed by Subcontractor Appointed Person and issued to the Contractor 1 week prior to lift to allow review and issue of Lift Permit. For basic lifts a 48hrs notice period for review and sign off by the Contractor.
* FORS silver accreditation is the minimum standard.
* The Subcontractor is to ensure that in Providing the Works, to every extent possible work performed must be on the basis of a recognised employment relationship established through national law and practice; and obligations to employees under labour or social security laws and regulations arising from the regular employment relationship shall not be avoided through the use of labour-only contracting, subcontracting, or home-working arrangements, or through apprenticeship schemes where there is no real intent to impart skills or provide regular employment, nor shall any such obligations be avoided through the excessive use of fixed -term contracts of employment.
  + 1. Contractor requirements
* 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 Contractor identifies all known underground services, apparatus or artificial obstructions, which will be marked where appropriate. Although these activities will be carried out by the Contractor this does not negate the responsibility of the Subcontractor to satisfy himself of these hazards prior to carrying out the subcontract works. Any damage caused by the Subcontractor to any such services, apparatus or artificial obstructions is to be notified to the Contractor immediately. The cost of any repair carried out by or on behalf of the Contractor following such damage will be paid by or retained from the Subcontractor pursuant to clause 50.2 of the conditions of subcontract.
  + 1. Summary of key review and approval periods:

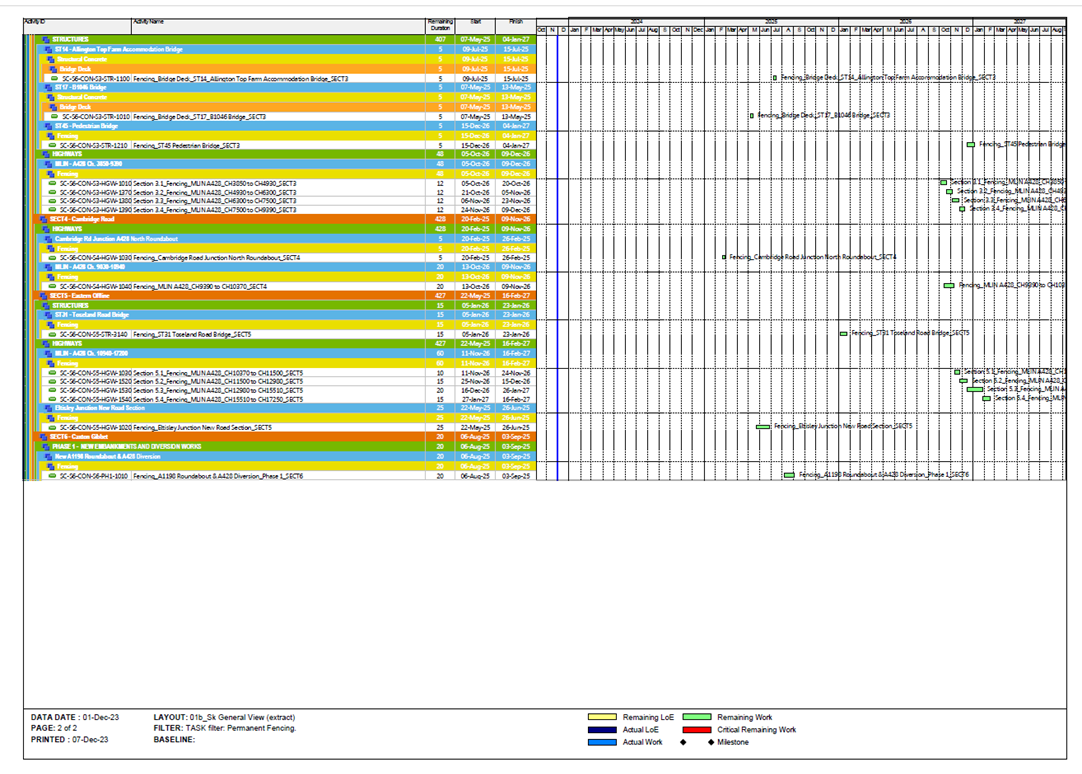
The stated periods apply to each iteration / submission. If changes are made or there are comments to be addressed from the review, the minimum periods apply again.

| Item | Period | Comments |
| --- | --- | --- |
| RAMS | * 2 weeks review by *Contractor* * *4 weeks review by Network rail* * RAMS to be fully approved 2 weeks before commencing on site | (Network rail RAMS/WPP only cover works within 50m of the East Coast Main Line between Section 2 & 3) |
| Temporary works design | * CAT1 / CAT2 check – 4 weeks review by *Contractor* * CAT3 check – 2 weeks review by *Contractor* plus 4 weeks review by the *Contractor*’s CAT3 checker |  |
| Lift plans | * Basic lift - 48 hours review by *Contractor* * Intermediate lift – 1 week review by *Contractor* * Complex lift – 2 weeks review by *Contractor* |  |
| Section 61 | * 1 week review by *Contractor* * 2 weeks review by Local Council |  |
| Traffic management | * 3 weeks for *Contractor* to book traffic management. * 24 hours notice required to cancel traffic management without charge |  |
| Public interface | * Any deviation from the current Approved in Principle will require a 10 week approval. |  |

1. Programme

**Fencing programme - Start dates;**





1. Appendices

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| Appendix 9.1 Specification Register | | |
| **Document Number** | **Full title** | **Rev** |
| HE551495-MOTG-HFE-CONWI\_CONW-SP-CH-00300 | Series 0300 Specification | P03 |

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| **Appendix 9.2 Drawing register** | | |
| **Drawing name** | **Full title** | **Rev** |
| **Section 1**   |  |  |  | | --- | --- | --- | | Section 1 |  | Revision | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03001 | Fencing General Arrangment Sheet 1 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03002 | Fencing General Arrangment Sheet 2 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03003 | Fencing General Arrangment Sheet 3 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03004 | Fencing General Arrangment Sheet 4 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03005 | Fencing General Arrangment Sheet 5 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03006 | Fencing General Arrangment Sheet 6 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03007 | Fencing General Arrangment Sheet 7 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03008 | Fencing General Arrangment Sheet 8 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03009 | Fencing General Arrangment Sheet 9 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03068 | Fencing General Arrangment Sheet 68 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03069 | Fencing General Arrangment Sheet 69 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03070 | Fencing General Arrangment Sheet 70 of 231 | P02 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03071 | Fencing General Arrangment Sheet 71 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03072 | Fencing General Arrangment Sheet 72 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03073 | Fencing General Arrangment Sheet 73 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03074 | Fencing General Arrangment Sheet 74 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03075 | Fencing General Arrangment Sheet 75 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03076 | Fencing General Arrangment Sheet 76 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03077 | Fencing General Arrangment Sheet 77 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03078 | Fencing General Arrangment Sheet 78 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03079 | Fencing General Arrangment Sheet 79 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03080 | Fencing General Arrangment Sheet 80 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03081 | Fencing General Arrangment Sheet 81 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03082 | Fencing General Arrangment Sheet 82 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03083 | Fencing General Arrangment Sheet 83 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03084 | Fencing General Arrangment Sheet 84 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03085 | Fencing General Arrangment Sheet 85 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03086 | Fencing General Arrangment Sheet 86 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03087 | Fencing General Arrangment Sheet 87 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03088 | Fencing General Arrangment Sheet 88 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03089 | Fencing General Arrangment Sheet 89 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03090 | Fencing General Arrangment Sheet 90 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03091 | Fencing General Arrangment Sheet 91 of 231 | P02 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03092 | Fencing General Arrangment Sheet 92 of 231 | P02 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03093 | Fencing General Arrangment Sheet 93 of 231 | P02 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03094 | Fencing General Arrangment Sheet 94 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03095 | Fencing General Arrangment Sheet 95 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03096 | Fencing General Arrangment Sheet 96 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03097 | Fencing General Arrangment Sheet 97 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03098 | Fencing General Arrangment Sheet 98 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03099 | Fencing General Arrangment Sheet 99 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03100 | Fencing General Arrangment Sheet 100 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03101 | Fencing General Arrangment Sheet 101 of 231 | P01.1 - NOT NEEDED | | Section 2 |  |  | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03009 | Fencing General Arrangment Sheet 9 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03010 | Fencing General Arrangment Sheet 10 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03011 | Fencing General Arrangment Sheet 11 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03012 | Fencing General Arrangment Sheet 12 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03013 | Fencing General Arrangment Sheet 13 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03014 | Fencing General Arrangment Sheet 14 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03103 | Fencing General Arrangment Sheet 103 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03104 | Fencing General Arrangment Sheet 104 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03105 | Fencing General Arrangment Sheet 105 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03106 | Fencing General Arrangment Sheet 106 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03107 | Fencing General Arrangment Sheet 107 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03108 | Fencing General Arrangment Sheet 108 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03109 | Fencing General Arrangment Sheet 109 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03110 | Fencing General Arrangment Sheet 110 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03111 | Fencing General Arrangment Sheet 111 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03112 | Fencing General Arrangment Sheet 112 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03113 | Fencing General Arrangment Sheet 113 of 231 | P01.1 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03116 | Fencing General Arrangment Sheet 116 of 231 | P01.1 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03117 | Fencing General Arrangment Sheet 117 of 231 | P01.1 | | Section 3 |  |  | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03014 | Fencing General Arrangment Sheet 14 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03015 | Fencing General Arrangment Sheet 15 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03016 | Fencing General Arrangment Sheet 16 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03017 | Fencing General Arrangment Sheet 17 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03018 | Fencing General Arrangment Sheet 18 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03019 | Fencing General Arrangment Sheet 19 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03020 | Fencing General Arrangment Sheet 20 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03021 | Fencing General Arrangment Sheet 21 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03022 | Fencing General Arrangment Sheet 22 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03023 | Fencing General Arrangment Sheet 23 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03024 | Fencing General Arrangment Sheet 24 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03025 | Fencing General Arrangment Sheet 25 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03026 | Fencing General Arrangment Sheet 26 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03027 | Fencing General Arrangment Sheet 27 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03028 | Fencing General Arrangment Sheet 28 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03029 | Fencing General Arrangment Sheet 29 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03030 | Fencing General Arrangment Sheet 30 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03031 | Fencing General Arrangment Sheet 31 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03032 | Fencing General Arrangment Sheet 32 of 231 | P05 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03114 | Fencing General Arrangment Sheet 114 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03115 | Fencing General Arrangment Sheet 115 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03118 | Fencing General Arrangment Sheet 118 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03119 | Fencing General Arrangment Sheet 119 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03120 | Fencing General Arrangment Sheet 120 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03121 | Fencing General Arrangment Sheet 121 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03122 | Fencing General Arrangment Sheet 122 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03123 | Fencing General Arrangment Sheet 123 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03124 | Fencing General Arrangment Sheet 124 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03125 | Fencing General Arrangment Sheet 125 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03126 | Fencing General Arrangment Sheet 126 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03127 | Fencing General Arrangment Sheet 127 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03128 | Fencing General Arrangment Sheet 128 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03129 | Fencing General Arrangment Sheet 129 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03130 | Fencing General Arrangment Sheet 130 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03131 | Fencing General Arrangment Sheet 131 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03132 | Fencing General Arrangment Sheet 132 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03133 | Fencing General Arrangment Sheet 133 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03134 | Fencing General Arrangment Sheet 134 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03135 | Fencing General Arrangment Sheet 135 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03136 | Fencing General Arrangment Sheet 136 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03137 | Fencing General Arrangment Sheet 137 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03138 | Fencing General Arrangment Sheet 138 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03139 | Fencing General Arrangment Sheet 139 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03140 | Fencing General Arrangment Sheet 140 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03141 | Fencing General Arrangment Sheet 141 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03142 | Fencing General Arrangment Sheet 142 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03143 | Fencing General Arrangment Sheet 143 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03144 | Fencing General Arrangment Sheet 144 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03145 | Fencing General Arrangment Sheet 145 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03146 | Fencing General Arrangment Sheet 146 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03147 | Fencing General Arrangment Sheet 147 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03148 | Fencing General Arrangment Sheet 148 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03149 | Fencing General Arrangment Sheet 149 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03150 | Fencing General Arrangment Sheet 150 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03153 | Fencing General Arrangment Sheet 153 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03154 | Fencing General Arrangment Sheet 154 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03155 | Fencing General Arrangment Sheet 155 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03156 | Fencing General Arrangment Sheet 156 of 231 | P01 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03157 | Fencing General Arrangment Sheet 157 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03158 | Fencing General Arrangment Sheet 158 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03159 | Fencing General Arrangment Sheet 159 of 231 | P01.1 - NOT NEEDED | | Section 4 |  |  | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03032 | Fencing General Arrangment Sheet 32 of 231 | P05 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03033 | Fencing General Arrangment Sheet 33 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03034 | Fencing General Arrangment Sheet 34 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03035 | Fencing General Arrangment Sheet 35 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03036 | Fencing General Arrangment Sheet 36 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03037 | Fencing General Arrangment Sheet 37 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03038 | Fencing General Arrangment Sheet 38 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03039 | Fencing General Arrangment Sheet 39 of 231 | P06 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03149 | Fencing General Arrangment Sheet 149 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03150 | Fencing General Arrangment Sheet 150 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03151 | Fencing General Arrangment Sheet 151 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03152 | Fencing General Arrangment Sheet 152 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03163 | Fencing General Arrangment Sheet 163 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03164 | Fencing General Arrangment Sheet 164 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03165 | Fencing General Arrangment Sheet 165 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03166 | Fencing General Arrangment Sheet 166 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03167 | Fencing General Arrangment Sheet 167 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03168 | Fencing General Arrangment Sheet 168 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03169 | Fencing General Arrangment Sheet 169 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03170 | Fencing General Arrangment Sheet 170 of 231 | P01 | | Section 5 |  |  | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03039 | Fencing General Arrangment Sheet 39 of 231 | P06 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03040 | Fencing General Arrangment Sheet 40 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03041 | Fencing General Arrangment Sheet 41 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03042 | Fencing General Arrangment Sheet 42 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03043 | Fencing General Arrangment Sheet 43 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03044 | Fencing General Arrangment Sheet 44 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03045 | Fencing General Arrangment Sheet 45 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03046 | Fencing General Arrangment Sheet 46 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03047 | Fencing General Arrangment Sheet 47 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03048 | Fencing General Arrangment Sheet 48 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03049 | Fencing General Arrangment Sheet 49 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03050 | Fencing General Arrangment Sheet 50 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03051 | Fencing General Arrangment Sheet 51 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03052 | Fencing General Arrangment Sheet 52 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03053 | Fencing General Arrangment Sheet 53 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03054 | Fencing General Arrangment Sheet 54 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03055 | Fencing General Arrangment Sheet 55 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03056 | Fencing General Arrangment Sheet 56 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03057 | Fencing General Arrangment Sheet 57 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03058 | Fencing General Arrangment Sheet 58 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03059 | Fencing General Arrangment Sheet 59 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03060 | Fencing General Arrangment Sheet 60 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03166 | Fencing General Arrangment Sheet 166 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03170 | Fencing General Arrangment Sheet 170 of 231 | P01 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03171 | Fencing General Arrangment Sheet 171 of 231 | P05 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03172 | Fencing General Arrangment Sheet 172 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03173 | Fencing General Arrangment Sheet 173 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03174 | Fencing General Arrangment Sheet 174 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03175 | Fencing General Arrangment Sheet 175 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03176 | Fencing General Arrangment Sheet 176 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03177 | Fencing General Arrangment Sheet 177 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03178 | Fencing General Arrangment Sheet 178 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03179 | Fencing General Arrangment Sheet 179 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03180 | Fencing General Arrangment Sheet 180 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03181 | Fencing General Arrangment Sheet 181 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03182 | Fencing General Arrangment Sheet 182 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03183 | Fencing General Arrangment Sheet 183 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03184 | Fencing General Arrangment Sheet 184 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03185 | Fencing General Arrangment Sheet 185 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03186 | Fencing General Arrangment Sheet 186 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03187 | Fencing General Arrangment Sheet 187 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03188 | Fencing General Arrangment Sheet 188 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03189 | Fencing General Arrangment Sheet 189 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03190 | Fencing General Arrangment Sheet 190 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03191 | Fencing General Arrangment Sheet 191 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03192 | Fencing General Arrangment Sheet 192 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03193 | Fencing General Arrangment Sheet 193 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03194 | Fencing General Arrangment Sheet 194 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03195 | Fencing General Arrangment Sheet 195 of 231 | P02 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03196 | Fencing General Arrangment Sheet 196 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03197 | Fencing General Arrangment Sheet 197 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03198 | Fencing General Arrangment Sheet 198 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03199 | Fencing General Arrangment Sheet 199 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03200 | Fencing General Arrangment Sheet 200 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03201 | Fencing General Arrangment Sheet 201 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03202 | Fencing General Arrangment Sheet 202 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03203 | Fencing General Arrangment Sheet 203 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03204 | Fencing General Arrangment Sheet 204 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03205 | Fencing General Arrangment Sheet 205 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03206 | Fencing General Arrangment Sheet 206 of 231 | P01 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03207 | Fencing General Arrangment Sheet 207 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03208 | Fencing General Arrangment Sheet 208 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03209 | Fencing General Arrangment Sheet 209 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03210 | Fencing General Arrangment Sheet 210 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03211 | Fencing General Arrangment Sheet 211 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03212 | Fencing General Arrangment Sheet 212 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03213 | Fencing General Arrangment Sheet 213 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03214 | Fencing General Arrangment Sheet 214 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03215 | Fencing General Arrangment Sheet 215 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03216 | Fencing General Arrangment Sheet 216 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03217 | Fencing General Arrangment Sheet 217 of 231 | P01.1 - NOT NEEDED | | Section 6 |  |  | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03061 | Fencing General Arrangment Sheet 61 of 231 | P04 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03062 | Fencing General Arrangment Sheet 62 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03063 | Fencing General Arrangment Sheet 63 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03064 | Fencing General Arrangment Sheet 64 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03065 | Fencing General Arrangment Sheet 65 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03066 | Fencing General Arrangment Sheet 66 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03067 | Fencing General Arrangment Sheet 67 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03218 | Fencing General Arrangment Sheet 218 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03219 | Fencing General Arrangment Sheet 219 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03220 | Fencing General Arrangment Sheet 220 of 231 | P01.1 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03221 | Fencing General Arrangment Sheet 221 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03222 | Fencing General Arrangment Sheet 222 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03223 | Fencing General Arrangment Sheet 223 of 231 | P03 | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03224 | Fencing General Arrangment Sheet 224 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03225 | Fencing General Arrangment Sheet 225 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03226 | Fencing General Arrangment Sheet 226 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03227 | Fencing General Arrangment Sheet 227 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03228 | Fencing General Arrangment Sheet 228 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03229 | Fencing General Arrangment Sheet 229 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03230 | Fencing General Arrangment Sheet 230 of 231 | P01.1 - NOT NEEDED | | HE551495-MOTG-HFE-CONWI\_CONW-DR-CH-03231 | Fencing General Arrangment Sheet 231 of 231 | P01.1 - NOT NEEDED | | | |

Appendix 9.3 ATTENDANCES / 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 |  |
| * 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 | Subcontractor to distribute materials throughout works. It must be noted that there may not be haul routes / access tracks to all work areas. |
| * 1. Hoisting / Placing |  | X |  |
| * 1. Positioning |  | X |  |
| 1. The Subcontract Works | | | |
| 1. Setting out | X |  | Contractor provides line and level |
| 1. Management & Supervision |  | X |  |
| 1. Control of labour |  | X |  |
| 1. Protection until hand over |  | X |  |
| 1. Disposal of waste off site |  | X | The Subcontractor disposes of all waste off site. |
| 1. Identification and marking of known underground services | X |  | Permit to dig procedure |
| 1. Issue of Permits to Dig & Permits to Enter | X |  |  |
| 1. Traffic Management when applicable | X |  |  |
| 1. Temporary barriers to works areas |  | X |  |
| 1. Spill kits |  | X | Subcontractor is required to have spill kits for their equipment. |
| 1. Surveys |  | X |  |
| 1. Testing | X | X | Testing to be completed inline with ITP produces by Subcontractor and witnessed by Contractor |
| 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 Limited  Please use below contact details to utilise this agreement;  Magnus Hammick  [magnus@gbf.ltd](mailto:magnus@gbf.ltd)  +44 7850 246805 |
| 1. Tools, plant and equipment | | | |
| 1. Small tools – shovels, picks, 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 |  |  | N/A |
| 1. Concrete pumps |  |  | N/A |
| 1. Banksman for craneage / lifting operations / operated plant |  | X |  |
| 1. Waste skips & containers for recyclable material |  | X |  |
| 1. Access scaffolding |  | X |  |
| 1. Fixed and mobile working platforms |  | X |  |
| 1. Pumping and dewatering |  | X |  |
| 1. Task lighting |  | X | Background / safety lighting will be provided by the Contractor. Task lighting or any other lighting required to undertake the subcontract works will be the Subcontractor’s responsibility to provide. |
| 1. Use of Contractor’s Site Facilities | | | |
| * 1. Storage area within site compound | X |  | Contractor provides space only for storage. Subcontractor is responsible for ensuring storage is secured. Subcontractor is to provide details of size and durations of storage required. |
| * 1. Desk space within Contractor’s office | X |  | 2 desks provided in the main office |
| * 1. IT & Communication (computers, IT network, software, telephones) |  | X | Use of Contractor WiFi (if available) |
| * 1. Printing, copying | X |  |  |
| * 1. Store rooms, containers, satellite offices |  | X |  |
| * 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 |  | X | Standpipe available at the Contractor’s main compounds only. The Subcontractor is to arrange for the transportation of water to site. |
| * 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 | Note: Subcontractor disposes of their COSHH waste off site. |
| * 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 |  |  |