**Whixall Manor Drain Diversion Completion Scheme on S.38 Reeve’s Fields of Fenn’s, Whixall and Bettisfield Mosses NNR.**

**Works.**

1. Background to Natural England   
   The Authority is Natural England. The Authority’s priorities are to secure a healthy natural environment; a sustainable, low-carbon economy; a thriving farming sector and a sustainable, healthy and secure food supply. Further information on the Authority can be found at: [www.naturalengland.org.uk](http://www.naturalengland.org.uk)
2. Background to the specific work area relevant to this purchase
   1. Reeves’ Fields are situated adjacent to Whixall Moss towards the southeastern perimeter of the internationally important 949 ha Fenn’s, Whixall, Bettisfield, Wem and Cadney Mosses Site of Special Scientific Interest (S.S.S.I.), which is also a Special Area of Conservation (SAC) and forms part of the Midlands Meres and Mosses Ramsar Site. The fields to be restored lie within the S.S.S.I and the Fenn’s National Nature Reserve (N.N.R.). It is NNR Section 38 on Map 1 in the RFQ.
   2. The Marches Mosses BogLIFE Project (LIFE15NAT/UK/000786) terminated in March 2023, and now the unfinished works are being tackled using NNR staff and funds. The BogLIFE Project aimed to allow better control of water levels to enable wetland habitat to be restored on land which has been converted from peatland to peaty fields. The 6.27 ha of Reeves’s fields used to be peatland, and originally formed part of the south-eastern edge of the SAC and Ramsar site, significant as the 3rd largest lowland raised bog in the UK. Overall, this Project will rewet at least 4.25ha of deeper peats in Section 38 plus support water levels in adjacent Whixall Moss to the north.
   3. It is anticipated that this contract will be awarded for a period of 2 weeks to end no later than 02/10/24, unless there is substantial disruption from adverse weather. We may at our sole discretion extend this contract to include into 2025. In pricing the tender please provide a weekly cost for the continued provision of works for the period beyond the expected programme length. Any extension shall be agreed in advance of any work commencing and may be subject to further competition. Prices will remain fixed for the duration of the contract award period.
3. **The Project** (**Annex 1 to 11**, Maps1a,1c to 10)
   1. In 2009 the Whixall Manor Drain, which was taking polluted and mineral-rich water up from the Moss Cottages (**Annex 1**, Map 1a– east of S44) onto and across the Moss, was diverted nearer to the edge of the Moss through sections 46 and 44 to the new culvert under the Roundthorn Bridge track between S44 and 38 (**Annex 11**, Map 10). The downstream 195m of the Diversion between fields 38.3 and 38.4 was left in the existing channel, with the intention to complete the diversion by excavating a 210 m-long new channel farther south near the top of the slope of S.38.4 during the Marches Mosses BogLIFE Project (LIFE/15/NAT/UK/ 000786). However, the Project was completed before this last part of the Diversion had been executed, but engineer Brian Killingworth designed the Completion of the Diversion, see Map 2 Drg 001 to Map 9 Drg 008. Because the design involved a water course diversion and U-pipes through three new 3 dams, it required an Open Watercourse Consent.
   2. This Diversion Completion will enable the final 195m of the Drain through the deep peat body to be blocked with three dams (D1 to D3 on **Annex 4** Map 3 and **Annex 11**, Map 10). One U-pipe (**Annex 10** Map 9, Drg 008) will be installed in each dam to allow for any future emergencies such as blockages in the new channel.
   3. Materials for the Project **must be collected** from Manor House NNR Base.
   4. The Maps included within the Open Water Course Consent are **Annex 3 to 10** at the end of this report.
4. **Site Location, Access and Context** 
   1. Reeve’s Fields are located 5.9 miles north of Wem and 5.4 miles south west of Whitchurch.
   2. **Annex 1,** Map 1a shows that the boundary between sections 38.4 and 38.5, which is currently marked by a curved fence line erected to keep grazing animals off the peat body of S.38.3 and 38.4 and shows a high mineral ridge of sand outside the peat body (peat deeper than 30cm) in S.38.5. This fence will be removed by NE to allow the Works to be carried out, then replaced by NE or a fencing contractor near to the southern bank of the new Diversion Completion channel.
   3. The three NNR sections 38.3 - 38.5 are in the SAC. The peat body has collapsed so the northern slopes of the mineral ridge in S38.5, which although covered by shallow peat, lies higher than the level of the bulk of section 38.3 and 38.4. The peat in S38.3 and 38.4 ranges from 25 cm in depth increasing rapidly to the west and north to 320cm.
5. **The S38 Reeves Fields Diversion Completion Works** (Map 2 Drg 001 OS 349844 335834)
   1. New Channel  
      This involves cutting a new channel, 210 m long, with a bed width of 1m starting from the existing channel 12m west from the Roundthorn Bridge track fence line at E349865 N335950. The line of the new channel is initially south through the peat body (Annex 4 Map 3, Drg 002B) then up into the mineral ridge following the fence line. It diverts round the N-S hedge at CS2, the single large alder tree just east of CS4, and keeps clear of the tree at CS8, (Annex 11 Map 10). The new Drain will outfall in a curve of radius 10m south-east into the Whixall Moss Main Drain at ca 0S Grid Ref: 349752 335778.  
        
      The southern bank of the new channel lies 2m north of the of the existing curved fence at cross section CS1 (Cross Section 1 on Annex 4 Map 3, Drg002B), but 7m north at CS2 to avoid tree roots. It lies 2.5m north at CS3, the canopy width at the alder tree east of CS4, 2m north at CS4, 7m at CS5, 7.5m at CS6 and 2.5m at CS7. For a 30m length of the channel between CS7 and CS8 the new channel must be realigned south of the existing fence as shown on Annex 4 Map 3, Drg002B .  
        
      To avoid siltation and pollution, most of the excavation should be carried out in the “dry” by leaving a 5m plug at each end of the new channel, and by carrying spills kits in the tracked excavator and dumper/s. A boom should also be carried in the excavator.
   2. Dams   
      The Drain is ca 1m wide. The substrate under the field is largely sand, in deeper peat areas to the north and west of section 38 it is covered by pink lake clay. Each dam has one 250mm emergency U-pipe through it (see Annex 10 Map 9 Drg 008B) If the dams were just made of peaty sand, they wouldn’t hold water in the drain, so the eastern end of D1 should have L8 interlocking steel trench sheets, protruding ca 0.5 to 0.75m into the N and S bank and sunken 900mm into the sand. The U-pipe would require a hole cutting/burning in the trench sheets, and the u-pipe cementing round to make a water-proof seal.  
        
       Material to construct the 6m-long eastern dam D1(OS 349864 335947) (Annex 4 and Annex 11 Maps 3 and 10) will be obtained locally from the N-S part of the excavation of the new channel so will be predominantly sand. Material for D2(OS 349773 335889) and D3 (OS 349708 335848) should be peat obtained locally from shallow borrow pits with gently sloping sides, moved to location by the excavator or tracked dumpers. At 3m long, Dam D2 requires 4.5 cum of peat, so would require a scrape of 3.5 x 3.5 m x 0.5m depth The 6m long Dam D3 the dam would need ca 12cum - so need a scrape of 5 x 7 m x 0.5m deep. Grass cover should be removed from the marked area of the scrape down to bare peat, 0.5m of peat with chamfered sides should then be taken and the grass sods replaced.
   3. Levels.  
      The invert of the existing drain runs from 87.03m A.O.D. at the E-W culvert under the Roundthorn track at chainage 0 on Annex 5 Map 4 (Drg 003A) to 86.56m A.O.D. at the N-S Whixall Main Drain at chainage 210. The regraded channel will run from 87.18m A.O.D. at chainage 15 to 86.99m A.O.D. at chainage 208. This is much higher than the level of the Whixall Moss Main Drain which lies at ca 86.56m A.O.D. at chainage 210.  
        
      The eastern two-thirds of the fields S.38.3 and S.38.4 is level and lies above 87.5mA.O.D. and the western third again is level but lies noticeably below this contour (yellow line on Annex 11 Map 10) so back-floods in wet conditions in winter.
   4. Spoil.  
      To save covering the deeper peaty soil of the SAC, Annex 7 and 8 Maps 5 and 6\_1 and 6\_2 (Drgs 004B and 005B\_1 and 005B\_2) and Annex 11 Map 10 show most of the spoil will be excavated and piled in a row on the very shallow peat ca 7.5m -10m south of the new channel, until being fetched away by NE in dry conditions.   
      This 7.5m -10m gap between the new channel and spoil will allow for access for re-fencing by NE or a fencing The spreading of the spoil on the north side of the new channel will only occur from the access gate to west to the hedge (see CS2 on Annex 6 Map 5) and round the alder tree just east of CS4, Annex 11 Map 10.  
        
      Make 5m gaps in the spoil heap every 25m as necessary to allow drainage through it until it is moved.
6. Ecology and Wildlife  
   1. The Ecology Report “280623.PEA - Reeves Field Whixall Moss - PEA Report (August'23) FINAL SEC38 V2 DEC23” has been commissioned by NE from Pearce Environmental Consultants, (document 2.1), which highlighted the value of Reeves’ Fields for water voles, great-crested newts, bats, breeding birds possibly including owls, potentially reptiles - common lizards and adders, otters and insects and made recommendations as to how to carry out the works to mitigate the effects on these species. This report is available on request.
   2. The immediate impacts for species are summarised below;
      1. • Bats – conserve the hedgerow boundary and trees; although they provide a low suitability they provide a suitable area for additional roosting facilities.
      2. • Nesting Birds – NE to provide a scheme to ensure a sensitive re-vegetation programme and suitable grassland management. Works to be carried out outside the bird breeding season. If owls are breeding, works would need to be carried out after the end of August.
      3. • Amphibians and Reptiles – Suitable Risk Avoidance Measures are to be followed
      4. • Badger – Suitable Risk Avoidance Measures are to be followed
      5. • Water Vole – There are water voles in the area and suitable habitats; however, it is considered that there is not a requirement for a licence to displace water voles for development projects from Natural England (NE); provided an avoidance mitigation strategy is adopted and adhered to.
      6. The exact location of the dams and shallow scrapes will be set to avoid any water vole burrows. Work will commence in September after any owls have finished breeding
7. Access and Highways
   1. The site is accessed by car by driving west along the south side of the canal from Platt Lane Bridge to Roundthorn Bridge, Whixall, as shown on Annex 1 Map 1a, Annex 9 Map 8 and Annex 11 Map 10, then crossing the bridge and parking in the layby north-east of the bridge. Machinery will be driven either from Manor House across the Moss (Annex 9 Map 8) or driven from Manor House along the south of the canal and then off-loaded at the Roundthorn bridge layby. It will then be tracked northwards up the track to section 38 and in through the gate in the south-east corner following the line shown on Annex 11 Map 10.
   2. Existing field gates will be used during the scheme construction phase.
   3. Disruption to the users of the unadopted stretch of the Track leading north from Roundthorn Bridge during the construction phase must be avoided where possible. This track is part of the NNR Mosses Trail so is intermittently used by NNR visitors. Additional construction vehicle movements will be limited to delivery of materials for the scheme such as pipes and machinery, and delivery and collection of machinery for the construction phase.   
      Contractor’s vehicles will park in section 38.5 (Annex 2 Map 1c and Annex 9 Map 8), south of the application site or in the Natural England layby car park at OS350103 335732 or in the small car park in the South-east corner of section 38.5 at OS349951 335842, 180 m north of Roundthorn Bridge. Machinery, which is likely to comprise one tracked excavator and one or two tracked dumpers, will need to be dropped off at Manor House NNR Base at SJ505366 and tracked across the Moss as shown in Annex 9. Any welfare unit will be taken along Canalside, south of the canal to the Roundthorn Bridge layby as it cannot be tracked across the Moss and can be placed in the field in the south-east corner of Section 38.5. Welfare facilities will be confirmed on the site visit.
8. **Timing**  
   The work is planned to be carried out in September 2024 after the bird nesting season when ground conditions are sufficiently dry. If owls are breeding no work can start until after end of August.
9. **Site Visit**  
   It is compulsory to have visited the Site with Nathan Brake, NE’s Reserve Manager on or before 20th August 2024 at 9:00 am. Submissions where the Contractor has not visited with the Reserve Manager will be automatically disqualified.
10. Work Requirement and Method of the Construction Works
    1. Duties under CDM Regulations
11. review Pre-Construction Information
12. Prepare a Construction Phase Plan (CPP)
13. Ensure that the CPP and RAMS are approved before commencement of the Work.
14. Supervise work in terms of accuracy and workmanship.
15. Hold twice-weekly meetings with NE and the CDM/Supervising engineer when on-site, to update on progress, and by other communication means as necessary.
16. Alert NE as to any major required variations and agree costed written modifications with the CDM/Supervising engineer and NE’s Reserve Manager.
17. Provide “As built” information to CDM/Supervising engineer.
18. The Contractor will be responsible for immediately reporting any accidents involving either their personnel or the public to the Natural England’s Senior Reserve Manager. All incidents involving the public, however minor, are reportable under RIDDOR.

**REVIEW COMPLETION DATES\*.   
  
Site visit for Construction Tenderers - Tuesday 20th August 2024 9:00am**

**Clarification of questions - Wednesday 21 August 2024 11:30am  
 Deadline for submissions - Tuesday 27th August 9:00am**

**The Construction Contractor is to be appointed in W/c August 26th 2024.   
Preconstruction and CDM meeting - 3 September 2024**

**Works to be completed by 11th Oct 2024, if September 9th start.**

* 1. This contract to be completed by 18th Oct 2024 (subject to any agreed extension in exceptional circumstances).   
     This contract comprises the following main work elements:
* **Excavation of some a 210 m-long open channel.** The open channel lengths will have a 1.0m bed width with 1:1 side-slopes (see Annex 2 Drawings Map 002 – Map 010).
* **Damming of upper length of existing course of Whixall Manor Drain.** Damming of the drain will take place at 3 sites (D1, 6m long, D2 3m long, and D3 at 6m long to allow NNR ATVs and excavator to cross. The first dam (D1) will be positioned immediately downstream of the upper end of the Diversion and the final dam will be upstream of the entry point into the Whixall Moss Main drain. D1 dam will utilise surplus peat from the first 12m-long excavation of the Diversion. Dams D2 and D3 will use peat from shallow borrow pits, see 5.2 above. Each will incorporate a U-pipe to control water levels (see Annex 2: Map 9, Drawing 008B for typical details). Exact dam locations may be varied by the Ecological Clerk of Works if there are rare species issues.
* **all the above items are Permanent structures and have received Ordinary Watercourse Consent from Shropshire Council**.

**Drawing set (13 no.)**

Drawings in showing residual risks will be given to the successful contractor.  
Residual risks are shown on Annex 3 Map 11a in compliance with CDM requirements.

|  |  |  |  |
| --- | --- | --- | --- |
| Annex  Number | Map Number | Title | Availability |
| Annex 1 | Map 1a | Location Plan – NNR Section 38 | pdf |
| Annex 2 | Map 1c | WMD Diversion Completion Plan - Access points, drains and dams photo locations | pdf |
| Annex 3 | Map 2 | Drg No 001 Location Plan | pdf/cad |
| Annex 4 | Map 3 Drg No 002B | Position of Sections and Setting Out Details Revised | pdf/cad |
| Annex 5 | Map 4  Drg No 003 | Long Section | pdf/cad |
| Annex 6 | Map 5  Drg No 004B | Cross sections CS 1-4 | pdf/cad |
| Annex 7 | Map 6\_1  Drg No 005B\_1 | Cross sections 5-6 | pdf/cad |
| Annex 8 | Map 6\_2  Drg No 005B\_2 | Cross sections 7-8 | pdf/cad |
| Annex 9 | Map 8 | Access to site | pdf |
| Annex 10 | Map 9  Drg No 008 | Dam and Overflow Pipe Details | pdf/cad |
| Annex 11 | Map 10 | Whixall S38 Diversion Completion air photo V5 | pdf |
| Annex 12 | Map 11a | Residual Risk Alerts | pdf |
| Annex 13 | Table 11b | Residual Risk Alerts Key | pdf |
| Annex 14 | Map 11c | Water supplies meters troughs stoptaps | pdf |
|  |  |  |  |

**General**

* The works are all **permanent works associated with the remediation of the S.38 Reeves’s Fields Restoration Scheme.**
* The Employer **Natural England,** Fenn’s, Whixall & Bettisfield Mosses National Nature Reserve, Manor House, Moss Lane, Whixall, Whitchurch, Shropshire, SY13 2PD.
* Natural England Contract Project Officer is Dr Joan Daniels.
* The CDM Co-ordinator/Site Supervisor is X **of Y**
* A site meeting at the start of works will be held between the contractor, an NE representative, and the site supervisor on Tuesday September 3rd at 10:00

**Outputs**

Key Deliverables

|  |  |  |  |
| --- | --- | --- | --- |
| Reference | Deliverable | Responsible Party | Date of completion |
| a. | **Excavation of a ca. 210 m-long open channel as shown In Maps 2 to 10** | Complete by 13th September unless otherwise agreed by the Reserve Manager |  |
| b. | **Damming of upper length of existing course of Whixall Manor Drain as shown on Maps 3, 9 and 10** | Complete by 20th September unless otherwise agreed by the Reserve Manager |  |
| c. | **As built survey** | Complete by 24th September unless otherwise agreed by the Reserve Manager and give to the Supervising Engineer |  |

**SITE ACCOMMODATION AND WELFARE AND MATERIALS**

If required a works welfare unit can be sited in the Roundthorn Bridge layby car park or in the south-east corner of section 38.5. See **Annex 1**, Map 1a.

All materials are to be supplied by Natural England (Client) apart from cement for sealing round the pipe in Dam D1. Unless otherwise agreed the Contractor will be required to collect and transport the materials from the Fenn’s, Whixall & Bettisfield Mosses National Nature Reserve Base, Manor House, Moss Lane, Whixall, Whitchurch, Shropshire, SY13 2PD to designated temporary stockpile areas on the site, as agreed with the Reserve Manager**.**Staff at NE are to be notified in advance of any materials that are to be collected from the NNR Base. Contact Nathan Brake [Nathan.Brake@naturalengland.org.uk](mailto:Nathan.Brake@naturalengland.org.uk) 07880 462288 or Pete Bowyer [peter.bowyer@naturalengland.org.uk](mailto:peter.bowyer@naturalengland.org.uk) 07974 784795 to arrange collection.  
   
**Permitted Site Access routes**

During the course of the works a maximum speed limit of 15 mph will be imposed on the unsurfaced lengths of Moss Lane and leading to Mountain View at Roundthorn Bridge, which the Contractor’s plant and transport will adhere to, and they must give way to vehicles of local residents.

The Contractor shall be allowed access to the site as detailed in **Annex 9, Map 8** and at such times as may be considered necessary by the Supervising Engineer. A key to locked gates will be provided to the successful contractor and Supervising Engineer.

The Contractor shall carry out whatever temporary works and erect such signs that are necessary to construct and maintain access for the use of vehicles during the Contract period and shall reinstate the accesses to their original condition, unless otherwise directed by the Engineer, on completion of the Works.

The Contractor shall allow for the making good of any surfaces damaged because of their access requirements to the site.

**Underground and overhead Services**

The location of underground and above ground services, are based on receipt of information returned by the Statutory Undertakers, included Statutory Undertaker and Utility Survey Plans of this Contract in **Annex 12 to 14,** Map11a, Table 11b and Map 11c Residual Risks Alerts, and information from local land owners for private supplies**.** All services will need to be confirmed by the Contractor on site prior to commencing construction works,

**Site investigations**

The site is owned by Natural England (**Annex 1** Map 1a). The names of relevant adjoining properties referred to below are shown on this map.

**Annex 11** Map 10 indicates the presence of peat throughout the site, see 4.3 above.

Weather conditions need to be constantly monitored and items of work planned in accordance with predicted forecasts. In addition, the choice of tracked plant with low bearing pressure is essential when working in deeper peat areas to avoid becoming “bogged down” and the need for rescue of equipment which is expensive and also can be extremely damaging to the peat body.

**Utilities and Apparatus**

Prior to commencing works on site, it shall be the responsibility of the Contractor to satisfy themselves that all utilities on site have been located, identified, disconnected, and diverted as required, prior to commencing work in the area. For further details refer to **Annex 12 to 14.** Map 11a and 11c and table 11b.

Notable utilities and services identified within the general vicinity of the site work area are as follows:

* Scottish Power Energy Network – underground high and low voltage
* BT Open Reach – overhead and underground
* Severn Trent - underground

Other below ground or overhead services may be present within the extents of the works. It is the Contractor’s responsibility to locate all services and utilities prior to commencing any excavation.

**Public access**

The Contractor shall ensure that unambiguous signage of all pedestrian routes and access points on or adjacent to the works are clearly defined at all times.  
The track leading **north** from Roundthorn Bridge forms part of the NNR Mosses Trail.

**Interface with other contractors**

No other Contractors are known at this time.

**Pre-construction health and safety information**

The employer places great emphasis on the application of the Construction (Design and Management) Regulations 2015 (CDM 2015) to this project. As part of the award process, the tenderer will be required to provide information to Natural England containing evidence of the competency to conform to CDM 2015. The pre-construction Health and Safety Information will be supplied to the successful contractor by the CDM/supervising engineer prior to the commencement of the works.

Provide an Outline Construction Phase Health and Safety Plan.

**Limitations of the Plan.**

The Health and Safety Plan prepared by the CDM/supervising engineer is based initially on the information provided by the Employer and the Project Manager.

A hazard identification has been prepared and incorporated into the Health and Safety Plan and is based on design assumptions and methods of construction foreseen.

This hazard identification will be provided in the pre-construction Health and Safety plan provided to the successful contractor.

Additional hazards may be identified by the Contractor, and these should be included in a construction phase Health and Safety Plan

Health and Safety Files.

A Health and Safety file available relating to these works will be required to be produced by the CDM/supervising engineer

Hazards.

Hazards identified in the design and which cannot be avoided are identified on drawings which will be supplied to the successful contractor - Annex **3 to 11. Annex 12** shows hazards on the route to the Works site and nearby.

All necessary precautions are to be taken to ensure the safety of the general public and the protection of adjacent boundaries during the construction works in respect of:

* Access and egress to the working area along line of footways/footpaths
* Overhead and underground services;
* Works adjacent to the public highway;
* Works adjacent to boundary/ retaining walls;
* Site clearance;
* Street lighting columns;
* Restrictive working width;
* Noise/ vibration restrictions;
* Materials;
* Use of generators and electrically operated plant;
* Electrical works;
* Weather.

It is anticipated that the Contractor’s management will co-operate with the CDM/Supervising Engineer in identifying and resolving any problem with the design, and in value engineering and risk management, to ensure the safe and efficient conduct of the works.

Excavation

The Contractor's Health and Safety Plan should include details of how excavation work will be undertaken.

The Contractor shall designate earthmoving areas and require all personnel to wear high visibility clothing in those areas.

Plant

All operators of plant and vehicles shall have been appropriately trained and the Contractor shall provide the Client with such certification or other evidence of such training as part of the quotation.

The Contractor shall supply the Client with documentary evidence to demonstrate that all statutory requirements for certification of plant, machinery and equipment have been implemented. Certification shall be provided for all lifting machines (including excavation) and lifting tackle.

The Contractor will include in their Health and Safety Plan details of their preventative maintenance procedures.

The Contractor must use tracked plant with low ground bearing pressure in recognition of the poor ground conditions within the bog.

Vehicular Movement and Pedestrian Safety

The Contractor shall include in their Health and Safety Plan details of the protective and preventative measures to be adopted to ensure that plant and vehicle movements can be safely undertaken.

Temporary Site Welfare Units.

The successful Contractor will be responsible for the location, security and safe storage of all temporary site welfare units and well-stocked first aid arrangements.

The successful Contractor shall develop and maintain systems for monitoring visitors to the works, and providing for issue of safety helmets, jackets and the like to visitors, and provide written proposals concerning the general Health and Safety Management of the site.

Health and Safety Legislation.

The Contractor and any works subcontractors are required to implement the requirements of all current health and safety legislation.

Employer Health and Safety Requirements and Site Rules.

The successful Contractor shall comply with the requirements of the Supervising Engineer as set out in this document and at all times diligently observe and apply the provisions of the Health and Safety Plan.

The Client's and CDM/ Supervising Engineer's Safety Officer may visit the site at any time and shall be afforded unrestricted access to the works.

Copies of the Contractor's Safety Officer's inspection reports are to be provided for the Engineer at each site progress meeting.

If the Contractor fails to take appropriate remedial action to failures or defaults in site operations or methods of site organisation noted verbally or in writing by the Safety Officers or the Supervising Engineer; the matter may be reported to the Health and Safety Executive.

The Contractor is to:

* submit names of sub-contractors for approval,
* issue written instructions for sub-contractors to commence works,
* ensure compliance, by any sub-contractor working on the site, with the requirements of the Health and safety plan.

None of the matters will relieve the Contractors of their statutory duties or obligations.

Risk Assessment.

Risk assessments will be carried out in accordance with current legislation requirements and will be required to substantiate safety method statements.

Method Statements.

The successful Contractor and any appointed subcontractors will prepare detailed and specific method statements (RAMS) where required and before commencing work.

Safety Training.

All persons employed on the project must, irrespective of their status, attend a safety training induction course co-ordinated by the Contractor. All contractors will ensure that all personnel are appropriately trained for their allotted tasks.

First Aid.

The Contractor will ensure that appropriately stocked first aid facilities together with trained first-aiders are available at the site of the Works in accordance with Health and Safety (First Aid) Regulations 1991. Copies of the First Aid certification are to be provided by the successful contractor.

Health and Safety Management.

The successful Contractor will develop and operate a health and safety management system. Details of the system will be submitted to the Supervising Engineer and Project Officer.

The information submitted will contain at least the following:

* The methods of monitoring and controlling health and safety;
* A list of health and safety procedures to be included in the Health and Safety Plan;
* Information as detailed in this document;
* An organisation chart showing key health and safety personnel;
* The names and key qualifications of key personnel;
* Duties of key personnel;
* Details of how the requirements of SD 10/95 and SD 11/95 of Volume 6 of the Manual of Contract Document for Highway Works are to be met;
* Emergency procedures i.e. name of first aider, location and telephone number of local doctor and hospital.

Personal Protective Equipment.

Hearing protection must be provided by the Contractor as required by the Noise at Work Regulations 1989.

High visibility garments to BS 6629 Appendix G are to be worn by all personnel on-site.

The whole of the site will be designated a hard-hat site and head protection will be provided by the contractor.

Footwear will have steel toecaps and steel midsoles (steel side studs are not allowed). Protection for eyes, ears and respiration will be provided by the Contractor, where there is a risk of injury or damage to health.

The contractor is to provide a comprehensive store of Personal Protective Equipment (PPE) that will be maintained at suitable levels and will be readily available to all site staff at all times, for the duration of the works contract.

Pollution.

Disposal of waste on site will not be permitted. It is the Contractor’s responsibility to dispose of waste to locations licensed for the specific purpose and will be transported by licensed carriers.

Special care must be taken to avoid pollution of any Watercourse. Contractor to provide Emergency spill kits, including a boom, and use biodegradable hydraulic oils in plant where possible.

Emergency Procedures.

The successful Contractor is to develop emergency procedures. All contractors will ensure that all personnel are appropriately trained for their allocated tasks.

The successful Contractor shall ensure that a 24 hour emergency contact service is provided and signed / advertised throughout the works.

A list of local medical and emergency services shall be provided by the Contractor and should include but not limited to the following;

Accident and Emergency facilities.

Doctors surgeries

Police Station.

Ambulance Station.

Fire Station

Other Restrictions.

The successful Contractor shall ensure the works are executed in a safe and proper manner and that the needs for access are fully provided for in the Contractor’s methods of working. The Contractor is to report to the Engineer and Project Manager his proposals for dealing with them.

**Sustainability**

Natural England protects and improves the environment and is committed to reducing the sustainability impacts of its activities directly and through its supply chains. We expect the Contractor to share this commitment and adopt a sound, proactive sustainable approach in keeping with the 25 yr environmental plan/our commitments compliant with all applicable legislation. This includes understanding and reducing direct and indirect sustainability impacts and realising opportunities, including but not restricted to; resilience to climate change, reducing greenhouse gas emissions, water use and quality, biosecurity, resource efficiency and waste, reducing the risk of pollution, biodiversity, modern slavery and equality, diversity & inclusion, negative community impacts.

As a delivery partner, the successful contractor is expected to pursue sustainability in their operations, thereby ensuring the Contracting Authority is not contracting with a supplier whose operational outputs run contrary to the Contracting Authority’s objectives. The successful contractor will need to approach the project with a focus on the entire life cycle of the project

**Project Management**

3rd September 2024 at 10:00 am– Start up meeting between Reserve Manager Nathan Brake, the CDM/ Supervising Engineer's and the Contractor

Site meetings as agreed between CDM/ Supervising Engineer's, NE and the appointed contractor, as appropriate. Maximum of 2 per week.

W/C 20th September 2024 - Wash up meeting