



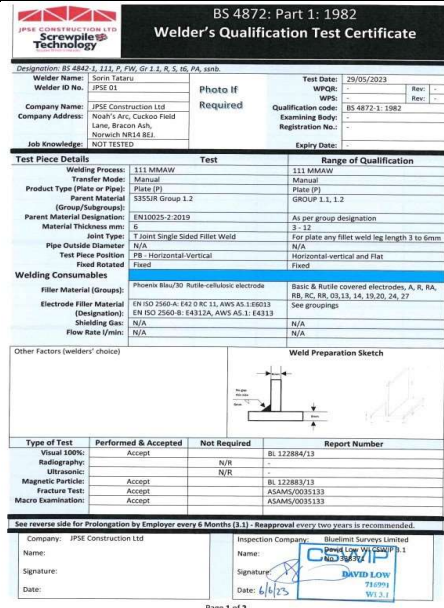
## Site : The Chocolate Factory Wood Green London

### Method Statement: ScrewPiling

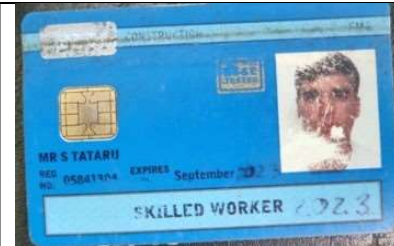
RA Ref No: MS01

| Assessor      | Job Title            | Assessment Date | Review Dates / Initials   |     |
|---------------|----------------------|-----------------|---------------------------|-----|
| Mark Atkinson | Construction Manager | 22/01/2024      | Prior to works commencing | MDA |



|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |                                                                                      |                                                           |
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| No. | General Arrangements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                      |                                                           |
| 1   | <b>Brief Description of the Woks</b><br>JPSE [John Plummer Sustainable Engineering] Ltd Method Statement for the design, manufacture, and installation of 100No Screw piles for then new Cholctae Fatcor Development, Wood Green London. Works are designed, materials manufactured and installed by JPSE Ltd in accordance with the JPSE design and warranty provisions within the main contract. The Client has been appointed as Principal Contractor for the project and has provided welfare facilities on site. |                                                                                     |                                                                                      |                                                           |
| 2   | <b>Key Personnel</b><br>Design<br>Pre-Construction<br>Construction<br>Site Supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                 | John Plummer<br>Barry Heyne<br>Mark Atkinson<br>Sorin Tataru                        | Design Director<br>Construction Director<br>Construction Manager<br>Site Supervisor  | 07908 419724<br>07944944899<br>07763432230<br>07821620162 |
| 3   | <b>Core Competencies</b><br>3.1 JPSE [John Plummer Sustainable Engineering] Ltd hold the following corporate certification                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |   |                                                           |
| 3.2 | JPSE Directors hold Directing Safety training certification and Construction Manager is a member of IOSH.                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                     |                                                                                      |                                                           |
| 3.3 | JPSE Site Supervisor holds CITB SSSTS, Welding, Excavator training certification.                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |                                                                                      |                                                           |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                                           |
| 3.4 | JPSE Site Worker hold CSCS Certification                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     |                                                                                      |                                                           |
|     | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Card Number                                                                         | Exp Date                                                                             | Card                                                      |

|  |               |        |            |                                                                                                                                                                                                  |
|--|---------------|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Ion Savin     | 338626 | 16/05/2028 |  <p>ION SAVIN<br/>General Construction Site Labourer<br/>GQA Ref: 338626<br/>Card Expiry: 16/05/2028</p>       |
|  | Andrei Chitac | 338601 | 16/05/2028 |  <p>ANDREI CHITAC<br/>General Construction Site Labourer<br/>GQA Ref: 338601<br/>Card Expiry: 16/05/2028</p>  |
|  | Andrei Savin  | 338604 | 16/05/2028 |  <p>ANDREI SAVIN<br/>General Construction Site Labourer<br/>GQA Ref: 338604<br/>Card Expiry: 16/05/2028</p>   |
|  | Dan Caraman   | 338611 | 16/05/2028 |  <p>DAN CARAMAN<br/>General Construction Site Labourer<br/>GQA Ref: 338611<br/>Card Expiry: 16/05/2028</p>   |
|  | Roman Petras  | 338662 | 16/05/2028 |  <p>ROMAN PETRAS<br/>General Construction Site Labourer<br/>GQA Ref: 338662<br/>Card Expiry: 16/05/2028</p> |

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|     | Sorin Tataru                                                                                                                                                                                                                                                                                  | 5841304 | 30/09/2023 |   |
|     | Mark Atkinson                                                                                                                                                                                                                                                                                 | 1275642 | 31/03/2027 |  |
| 4   | <b>Sequence of Work</b>                                                                                                                                                                                                                                                                       |         |            |                                                                                     |
| 4.1 | After undergoing a Site Induction and Site Orientation delivered by the Principal Contractor the first delivery of materials will be offloaded onto Site. JPSE delivery driver will wear Site PPE when on site. This delivery will bring to site tools and equipment required for the scheme. |         |            |                                                                                     |
| 4.2 | Lifting Equipment checks will be carried out and the Excavator used to offload the Steel Off on site.<br>After the load has been off loaded the vehicle will be leave site.                                                                                                                   |         |            |                                                                                     |
| 4.3 | Steel deliveries to site will arrive by a Hiab Lorry to as close to the work zone as possible.                                                                                                                                                                                                |         |            |                                                                                     |
| 4.4 | Materials will be off-loaded and stored on site.                                                                                                                                                                                                                                              |         |            |                                                                                     |
| 5   | <b>Phasing Sequence</b>                                                                                                                                                                                                                                                                       |         |            |                                                                                     |
| 5.1 | A surveyor will set out the ScrewPile using metal pins to identify the positions.                                                                                                                                                                                                             |         |            |                                                                                     |
| 5.2 | The client will ensure that all known service/piles etc are identified to JPSE before commencing work on site.<br>The JPSE Site Supervisor will conduct a CAT Scan of each Pile position before works commence.                                                                               |         |            |                                                                                     |
| 5.3 | In conjunction with the detailed construction program, the JPSE Installation Team will install the structure in defined following sequence                                                                                                                                                    |         |            |                                                                                     |
| 5.4 | During the works the Client will be required to install the under slab drainage pipes and install scaffold edge protection [Dates to be agreed] [NB: these days may vary due to weather conditions this time of the year]                                                                     |         |            |                                                                                     |

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| 6   | <p>This method statement is to be read in conjunction with the following JPSE Risk Assessments-</p> <ul style="list-style-type: none"> <li>• RA01 Using a portable disc cutter/grinder</li> <li>• RA02 Unloading delivery vehicles</li> <li>• RA07 Using handheld power tools</li> <li>• RA10 On-Site Welding</li> <li>• RA12 Using Podium Steps</li> <li>• RA13 Lifting with Excavator</li> <li>• RA14 Installing ScrewPiles</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                            |
| 7   | <p><b>Training &amp; Induction</b></p> <p>7.1 JPSE Site Workers holds the following training certification-</p> <ul style="list-style-type: none"> <li>• Manual Handling</li> <li>• Abrasive Wheel</li> <li>• Low Level Working at Height</li> <li>• Use of Power Tools</li> <li>• Use of Fire Extinguishers</li> </ul> <p>7.2 JPSE Site Supervisor hold-</p> <ul style="list-style-type: none"> <li>• Emergency First Aid</li> <li>• NPORS Excavator</li> <li>• Telescopic Fork Lift</li> </ul> <p>7.3 All Site Workers will undergo the -</p> <ul style="list-style-type: none"> <li>• Site Induction Briefing &amp; Orientation delivered by JPSE Management</li> </ul> <p>7.4 The JPSE Site Supervisor will be when deliver Induction and Toolbox Talk information to those whose first language is not English.</p> |                                                                                     |                                                                                                                            |
| 8   | <p><b>ScrewPiling</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                            |
|     | <p>Image: Excavator inserting ScrewPiles</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | <p>Image: Screwpiles set to depth</p>  |
| 8.1 | <p>ScrewPiles and the Pile Head will be delivered to site on a 4x4 Trailer and off loaded close to the work zone.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                                                                                            |
| 8.2 | <p>Delivery vehicles will be 'Banked' into the site by JPSE Site Supervisor and parked up in the designated area.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                                                                                            |

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| 8.3  | The Delivery Driver [Wearing PPE] will report to the Site Office and receive a site orientation and proceed to un strap the load.                                                                                                |                                                                                              |                                                                                           |                                                                                    |
| 8.4  | JPSE Site Supervisor will complete the Excavator Pre-Use Check Sheet, checking the lifting accessories, examination certificates to ensure they are in date and the equipment is visually inspected to ensure it is safe to use. |                                                                                              |                                                                                           |                                                                                    |
| 8.5  | A team of 3 persons will be on site to install the ScrewPiles                                                                                                                                                                    |                                                                                              |                                                                                           |                                                                                    |
| 8.6  | An 8t Excavator will be used to install the ScrewPiles which will have a Pile Torque Head fitted to the Excavator Quick Hitch device.                                                                                            |                                                                                              |                                                                                           |                                                                                    |
| 8.7  | The Pile Head is then attached to the Excavators hydraulic hoses.                                                                                                                                                                |                                                                                              |                                                                                           |                                                                                    |
| 8.8  | After the Pile Head is attached all workers will stand clear whilst the Operator carries out a QH roll test.                                                                                                                     |                                                                                              |                                                                                           |                                                                                    |
| 8.9  | The Excavator will be driven into the workzone.                                                                                                                                                                                  |                                                                                              |                                                                                           |                                                                                    |
| 8.10 | ScrewPiles will be manually lifted by at waist height by 2 persons to the front of the Excavator and attached Torque Head by 2No. through-bolts.                                                                                 |                                                                                              |                                                                                           |                                                                                    |
| 8.11 | The Excavator operator will raise the ScrewPile and position it over the pile-pin.                                                                                                                                               |                                                                                              |                                                                                           |                                                                                    |
| 8.12 | The Operator will then proceed to screw the ScrewPile into the ground.                                                                                                                                                           |                                                                                              |                                                                                           |                                                                                    |
| 8.13 | When each the 2m ScrewPile sections has been wound into the ground, the Torque Head Bolts will be removed and the next ScrewPile section bolted to the lower ScrewPile with 3No Bolts and tightened up using impact wrench.      |                                                                                              |                                                                                           |                                                                                    |
| 8.14 | The Torque Head will be re-attached to the ScrewPile with 2No bolts and the next section wound into the ground.                                                                                                                  |                                                                                              |                                                                                           |                                                                                    |
| 8.15 | This operation will be repeated until the ScrewPile reaches the design depth/torque.                                                                                                                                             |                                                                                              |                                                                                           |                                                                                    |
| 8.16 | This operations will be repeated until all ScrewPiles are installed.                                                                                                                                                             |                                                                                              |                                                                                           |                                                                                    |
| 8.17 | ScrewPiles will be cut down to size, using 110v Disc Cutter.                                                                                                                                                                     |                                                                                              |                                                                                           |                                                                                    |
| 8.18 | Top Hats will be positioned on the ScrewPile                                                                                                                                                                                     |                                                                                              |                                                                                           |                                                                                    |
| 8.19 | Cut off ScrewPiles will be removed from site and taken back to the JPSE factory for recycling.                                                                                                                                   |                                                                                              |                                                                                           |                                                                                    |
| 8.20 | General waste etc' will be placed in the designated site skips.                                                                                                                                                                  |                                                                                              |                                                                                           |                                                                                    |
| 9    | <b>Safety Notes : Guiding The Pile Head</b>                                                                                                                                                                                      |                                                                                              |                                                                                           |                                                                                    |
|      | 9.1 Never put fingers into the Pile Head or Pile Shaft Bolt Holes.                                                                                                                                                               | 9.2 Never place your hand on top of the Piles whilst the Head is been lowered onto the Shaft | 9.3 When guiding the Head onto the Pile, place the palm of the hand flat against the head | 9.4 Insert at least 2No Bolts through the Pile Head & Pile. NB. Bolts not required |



10 Personnel Protective Equipment

|      |                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|      |                                          | <p>JPSE Personnel will wear, at all times, whilst working on the Construction Site</p> <ul style="list-style-type: none"> <li>• Safety Helmet</li> <li>• Hi Visibility waist/coat En20471</li> <li>• Safety Footwear En20345</li> <li>• Hand Protection [gloves] En388</li> </ul> <p>Additional PPE will be worn in accordance with the Risk Assessment</p> <ul style="list-style-type: none"> <li>• Eye Protection En166</li> <li>• Hearing Protection [SNR29] En352</li> <li>• Safety Harness En361</li> <li>• Respiratory Protection [FFP3] En149</li> </ul> |
| 11   | <b>Manual Handling</b>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11.1 | ScrewPiles will be manufactured in 2m lengths and weight 35kg; these piles will be                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11.2 | carried to the point of installation by two persons.                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11.3 | LGS Frame will be delivered to site 'flat packed' in bundles weighing no more than 45kg;                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11.4 | this permits two workers to carry the bundle of steel and after the panel has been 'made-up' lifted into position safely. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      | Other components i.e. TopHats etc. weight less than 20kg and can                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      | Steel Foundation Beams will be placed into position via the Excavator.                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| 12   | <b>Noise &amp; Vibration</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |
| 12.1 | Whilst using the Impact Wrenches and Screwdriver the user will wear hearing protection. NB: Hearing protection is not required when inserting screws into the Frame.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |
| 12.2 | <p>Makita Impact Wrench are used to tighten the nuts &amp; bolts up connecting the steel beams together with a vibration magnitude <math>10\text{m/s}^2\text{A}(8)</math> and a Makita Screwdriver is used to fixed LGS Framing and Sheathing/Plywood Boards with a vibration magnitude <math>4\text{m/s}^2\text{A}(8)</math></p> <ul style="list-style-type: none"> <li>It takes less than 10 seconds to tighten up a nut &amp; bolt <ul style="list-style-type: none"> <li>Therefore, a Site Worker can use the Impact Wrench to connect 180 bolts per day</li> </ul> </li> <li>It takes less than 3 seconds to insert a screw into the Frame <ul style="list-style-type: none"> <li>Therefore, a Site Worker can fit 3600 Screws per day</li> </ul> </li> </ul> |                                                                                      |
| 13   | <b>Hot Works</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |
| 13.1 | The JPSE Design has been carried out so that parts fit together by nuts & bolts and screws. ScrewPiles will be welded to the Ground Beams and a the JPSE Supervisor will complete a 'Hot Work' Permit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| 13.2 | JPSE will have a Fire Extinguisher on site which will be at the point of work when hot works are been carried out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| 13.3 | Hot works will cease 1hr before the end of shift and a fire check made 1 hr after ceasing Hot Works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |
| 14   | <b>ScrewPiling</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| 14.1 | 2m long ScrewPile sections will be installed using 8t Excavator at the designed positioned. Additional shafts will be placed on the driven pile until the required depth has been driven.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 14.2 | After the depth has been achieved, the Pile will be cut off to the required level and a TopHat welded to the Pile.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| 14.3 | Once the Piles have been set Steel Beams will be positioned on top forming the foundation beams. After these beams have been set these will be welded to the TopHats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |