RWE

Battery Installation Construction Method Statement



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1. Introduction

This Battery Installation Construction Method Statement (BICMP) has been prepared by RWE in relation to the proposed scheme Wick Farm (application N° 20/06840/FUL) located at Land North of Melksham Substation, Near Melksham, Wiltshire. This BICMP has been prepared to discharge condition 18 of the Decision Notice issued by Wiltshire Council.

Condition 18 Decision Notice states the following:

> *"No development shall commence on site until reporting and drawings containing build details of the location, manufacturer, size and designs for the proposed batteries, and details showing the final location, construction method and flood risk impact of the cable trenches have been submitted and approved by the Local Planning Authority in consultation with Network Rail. The development shall thereafter be carried out in accordance with the approved details.*
>
> *Reason: To ensure the development does not affect the stability of the cutting slope adjacent to the railway."*

2. Scope of the BICMP

The BICMP, has been prepared to indicate how batteries will be installed onsite, identifying the different safety measures that are put in place. Additionally, details showing the size, the final location of the proposed batteries and a technical note regarding flood risk impact of the cable trenches can be found in the appendices.

The Batteries used for this project are enclosed in containers, which is solution ready to be connected. Once they are on the ground, we will proceed to connect them to mid voltage cables which will then in turn be connected to the inverters onsite.

Specific RWE responsibilities

a. Provide a Site Specific Safety Induction for all RWE employees involved in the operation. This induction is to include emergency warning and evacuation procedures.

b. Provide an assessment of the site in accordance with The Control of Substances Hazardous to Health Regulations 2002 (COSHH). Any substances or conditions likely to be hazardous to health must be identified in time for suitable precautions to be arranged.

c. Agree any specialised lifting equipment in writing prior to cranes arrival on site.

3. Arrival on site

Before any work including the rigging of the cranes commences, RWE must ensure that all preparatory work as identified in this method statement have been completed. Any induction necessary for the site will be arranged and conducted by RWE, during which all possible hazards will be identified and the evacuation routes and procedures advised. Emergency arrangements are to be conveyed to the team.

Crane assembly/disassembly for installation of batteries

The crane will be driven/reversed onto the site and manoeuvred into the operating position detailed on the sketch or drawing number 1. The crane will then be set up in accordance with the crane manufacturer's manual, during which time the client and crane supervisor will ensure the set up area is cordoned off to prevent non-essential personnel entering the rigging area.

1. Mark out position of the base machine using road-marking paint.
2. Ensure the erection area is cleared sufficiently to permit the safe assembly of the crane.
3. Drive / reverse the base machine into the working position.
4. Raise Main Boom just clear of support rest.
5. Extend outriggers to full outrigger base; unload outrigger floats from the storage area and place under outrigger jacks.
6. Unload & position outrigger mats.
7. Extend outrigger jacks.
8. Line & level the crane.
9. Disconnect hookblock from front bumper travel position, raise Main Boom into working position. Deactivate all slewing locks.

10. Slew main boom to the rear of crane. Activate all slew locks to prevent the main boom slewing.

11. Extend hydraulic rams & connect counterweight to superstructure.

12. Deactivate all slewing locks.

13. Offload the correct capacity hookblock & position within the radius of the crane

14. Lower main boom to lower hookblock on to ground.

15. Disconnect hoist rope anchor and un-reeve hook block.

16. Slew & lower Main Boom over the hook block. Lower off main hoist releasing enough hoist rope to reeve the hookblock. Reeve hook block with required falls of rope.

17. Install rope anchor and connect to either hook block or boom head depending on capacity required. Connect over hoist chandelier and check for correct operation.

18. Check all pins & clips are in place.

19. Raise main boom to operating position. Extend telescopic boom to operating length and pin.

20. Check all safety devices and limit switches are operating correctly.

21. Crane ready for work.

Notes
• This Rigging Procedure is to indicate the general operations performed by the crane operator to place the crane in a working condition. It is not intended to replace the Operating Manual. The operators of the crane are specifically trained in the assembly and disassembly procedures and are provided with an Operating Manual that defines in more detail the exact procedures that they were trained in and must follow.
• Disassembly is the reverse of the above procedure.
• The above is supplied for information purposes only.
• All non-essential personnel should keep out of the working area during assembly, operation and disassembly of
the crane.

4. Lifting operations/methodology – Safe system of work

The crane(s) together with associated labour and tackle will arrive on site at: 08:00

1. Upon arrival, all personnel and tackle documentation shall be made available to the client

2. The client will conduct a site specific safety induction for all RWE employees involved in the

operation. This induction is to include emergency warning and evacuation procedures.

3. Lift supervisor will meet the client representative and carry out a toolbox talk with all personnel involved in

the lifting operation. When this has been completed, all involved in the lifting operation must sign the register.

4. Crane to manoeuvre into position, under the supervision of the lift supervisor, as shown on drawing SV009875 which is included within the method statement.

5. Crane will rig up the main boom as per manufacturer's instruction manual.

6. Upon completion of rigging crane, the operator will telescope the main boom out to 18.9m.

7. Operator will hoist down hook block to ground level.

8. Any additional lifting equipment and relevant certification supplied by the client, will be inspected by the crane supervisor prior to any lifts taking place.

9. Lifting tackle for executing lift will be placed on hook and checked as correct by Lift Supervisor.

10. Hook of crane will then be hoisted into the air.

11. The crane will now be slewed over the load to be lifted and the lifting tackle attached by the slinger/banksman.

12. Access to attach the lifting tackle is via a footed ladder, wearing the safety harness with inertia reel connected to the hook block.

13. Lift supervisor will now instruct operator by means of hand signals/radio to slowly hoist up to take the slack out of the tackle

14. Lift supervisor will now "plumb" boom head of crane vertically above lift.

15. Tag lines will now be attached to lift, tag lines must be non-conductive. Never work under the load, stay clear until the load is at work level. Always walk forward when controlling the load with a tag line.

Never wrap the tag line around your hand or body. Make sure that you cannot get tangled in the tag line if the load moves suddenly.

16. The Lift supervisor will now instruct the operator to hoist up item clear – STOP – then check load is level and secure, if not lower the load to ground and reposition the lifting tackle.

17. Lift supervisor to instruct operator to hoist, as required, until clear of obstructions. Lift supervisor will then instruct the operator to slew crane (right/left) and hand over instructions for the lift to the slinger/banksman.

18. Slinger/banksman will now instruct operator to carry out motions required to lower lifted item into the position detailed by the client.

19. Operations will cease once item is just landed to enable client to check position and orientation of item.

20. Once client has confirmed position, slinger/banksman will instruct operator to lower off all weight of lifted item, noting that the responsibility for securing the item down to prevent movement or instability lies with the Client.

21. The Lifting tackle will now be released from item.

22. Slinger/banksman will instruct the operator to hoist up until lifting equipment is clear of all obstructions.

23. Slinger/banksman will now instruct operator to slew crane (left/right).

24. Slinger/banksman will now issue instructions to operator to hoist down over next item to be lifted.

Under no circumstances should the crane be moved for lifting purposes without the crane supervisor being in attendance.

5. General wind management requirements

Predicted high wind procedure

a) Where the weather forecasts predict high wind, attention must be given to the effect of wind speed on the material being lifted as well as the differential of wind speed (usually forecast at 10m high).

b) When forecast wind speeds are higher than the permitted speeds listed for the lifting equipment and its loads the Appointed Person (or in his absence the Lifting Supervisor) will brief the Lifting Team on what can be lifted and when. Decisions made should be recorded.

c) The AP (or in his absence the Lifting Supervisor) will monitor the evolution of the wind speed during the period and will adapt the periods of lifting according to the current situation.

d) Any decisions to suspended lifting operations given by the AP (or in his absence the Lifting Supervisor) will be enforced immediately. This also applies when this instruction comes from the lifting equipment operator.

e) Each derating, suspension and recommencement of lifting MUST be recorded and communicated to all the lifting team by the Lifting Supervisor. Signatures are required from all lifting team members on site for each briefing/re-briefing.

The Project/site Manager (and AP if not on site) must be kept up to date of developments at all times.

Unpredicted high wind procedure

a) In the event of unpredicted wind speed are higher than permitted for the lifting equipment or its load, immediate consideration (after having momentarily stopped the lifting operation) must be given by the AP (or the Lifting Supervisor or ultimately the appliance operator) to suspend lifting operations.

b) To do so, the latest up to date weather forecast must sought and be reviewed, to see if more wind gusts have been predicted since the days weather forecast was downloaded and briefed to the lifting team. According to the actual conditions and new forecast, the AP (or the Lifting Supervisor in his absence) will decide to stop the lifts or to continue lifting (including 15min recess (ref paragraph c)).

c) Should no predicted wind gusts be forecast, lifting operations are to be suspended for at least 15 minutes after which time if no further gusts have occurred and none are reported/predicted lifting operations can continue, only if authorised by the Appointed Person.

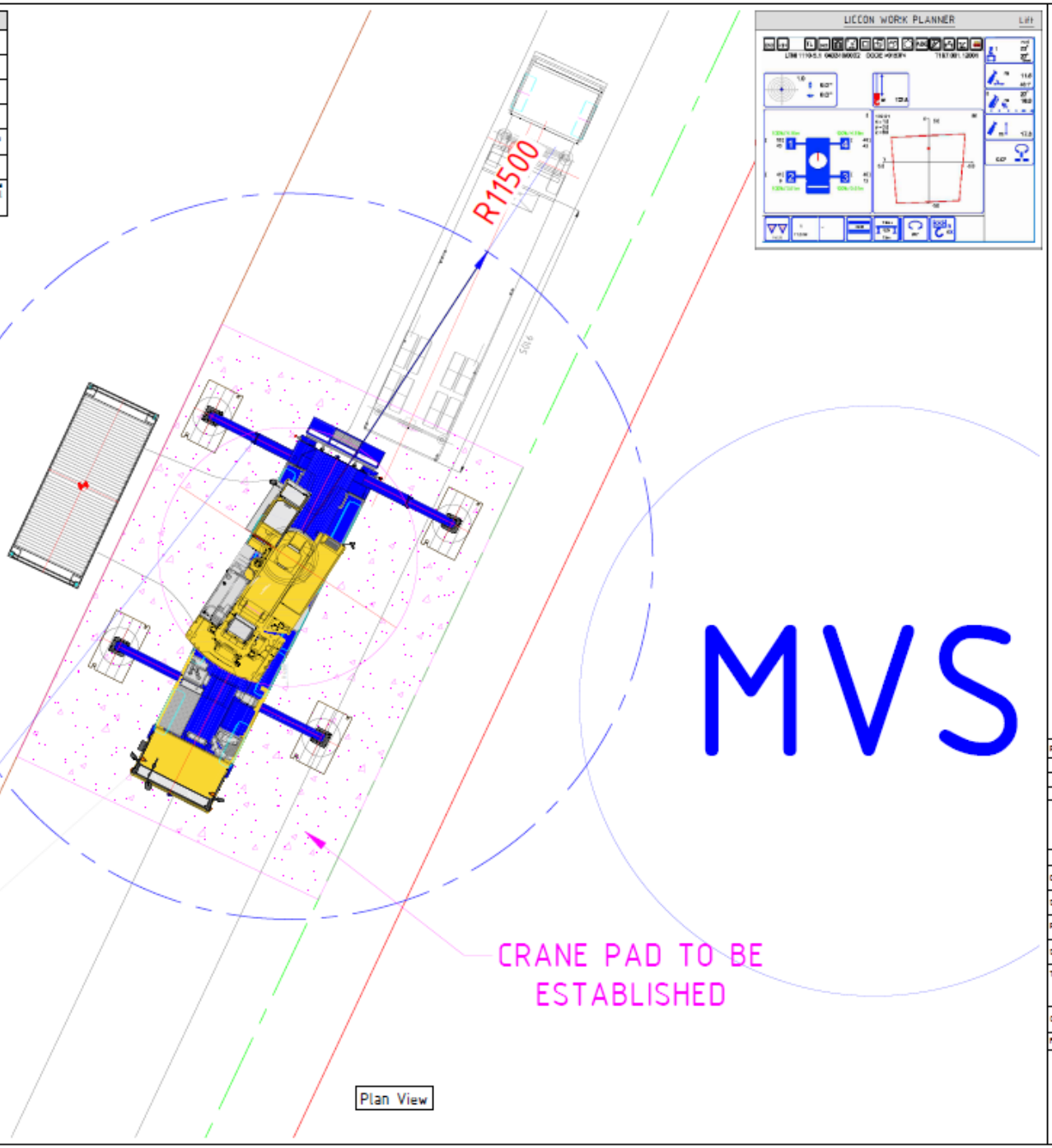
d) If further gusts occur within the 15 minute period, lifting operations must remain suspended and cannot continue until a 15 minute clear period has passed and the weather forecast has been consulted again and further gusts are identified or predicted.

e) Each wind gust, suspension and recommencement of lifting MUST be recorded and communicated to all the lifting team by the Lifting Supervisor. Signatures are required from all lifting team members on site for each briefing/re-briefing.

The Site Manager (and AP if not on site) must be always kept up to date of developments.

Drawing N°1

DRAWING NOTES	
1	Client to ensure that the access and working area is cleared sufficiently to accommodate the crane and transport.
2	Client to ensure a suitable hard standing and level area to be provided to support all crane and transport loads imposed.
3	The weight and c.o.g of the load shown has been assumed and is subject to approval from the client prior to start of work.
4	The rigging shown is subject to availability and it may be necessary to substitute components for suitable alternatives.
5	Client is responsible for the structural integrity of the load to be lifted.
6	The client is to identify and confirm the suitability of the lift points to be utilised during the lift of the load.
7	The ground bearing pressure figure is based on the worst case scenario. This figure can be reduced if required using additional outrigger mats.



MVS

MAIN CRANE DATA (DIN ISO 75%)	
Crane Model:	LTM 1110
Lifting Configuration:	T
Outrigger Base Lentres:	7.9 x 8.3 m
Counterweight:	29.00 te
Main Boom Length: (x.x)	18.0 m
Telescopic Sections:	0+0+0+0+4.5+4.5 No
Adaptor:	X m
Jib Length: (x.x)	X m
Hookblock Type: (SWL)	22 te
Outrigger Mats:	1.2 m
Additional Mats:	X m

LIFT DETAILS - CRITICAL LIFT	
Item To Be Lifted:	
Radius:	11.50 m
Item Weight:	22.00 te
Lifting Tackle:	0.40 te
Lifting Beam:	0.00 te
Stowed Fly / Superlift Rod:	0.60 te
Hookblock:	0.46 te
Total Lift Weight:	23.46 te
Gross Capacity:	27.40 te
(%) Of Capacity:	85.62 %

OUTRIGGER LOAD / MAT INFORMATION					
Max Outrigger Force:				52.00	te
Weight Of Mat(s):				0.27	te
Max Force: (Incl. Weight Of Mat)				52.27	te
Standard Mats: (Dia.)	1.20	AREA	=	1.13	m²
Standard Mats: (L x W)	0.00	x 0.00	=	0.00	m²
Additional Mats: (Additional)	2.00	x 1.20	=	2.40	m²
Max. G B P: (Dia.)				46.21	te/m²
Max. G B P: (L x W)				####	te/m²
Max. G B P: (Additional)				21.70	te/m²

LIFT INFORMATION	
Lift 1	0.00 te
Lift 2	0.00 te

MAX. OPERATING WIND SPEED

11.2 m/s

(Subject To Wind Surface Area)

Rev	Date	Detail	Drawn	Chkd	Appr

Original Size A3 / Do Not Scale

Client: RWE

Site:

Project: Battery Install

Scale: 1:X Status: PRELIMINARY

Title: Offloading and Installing Battery to concrete plinth

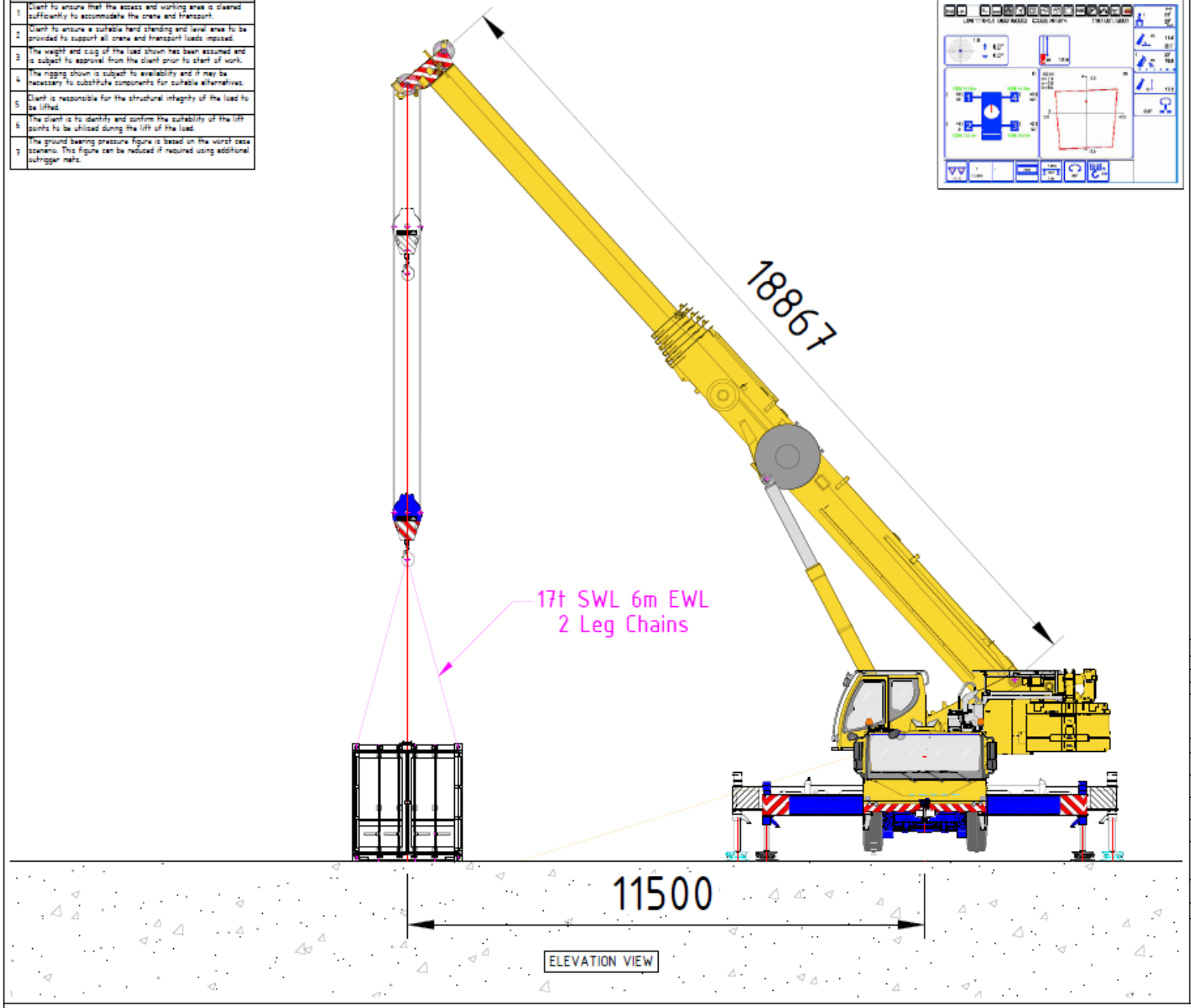
CAD No: Sheet Number: Rev:

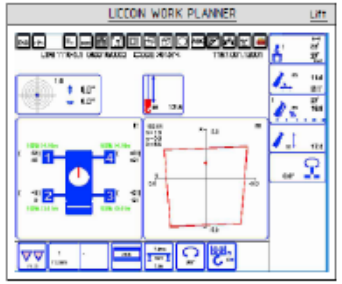
File Location:

RWE

Drawing N°2

DRAWING NOTES	
1	Client to ensure that the access and working area is cleared sufficiently to accommodate the crane and transport.
2	Client to ensure a suitable hard standing and level area to be provided to support all crane and transport loads imposed.
3	The weight and c.o.g of the load shown has been assumed and is subject to approval from the client prior to start of work.
4	The rigging shown is subject to availability and it may be necessary to substitute components for suitable alternatives.
5	Client is responsible for the structural integrity of the load to be lifted.
6	The client is to identify and confirm the suitability of the lift points to be utilised during the lift of the load.
7	The ground bearing pressure figure is based on the worst case scenario. This figure can be reduced if required using additional outrigger mats.





MAIN CRANE DATA (DIN ISO 75%)		
Crane Model:	LTM 1110	
Lifting Configuration:	T	
Outrigger Base Centres:	7.9 x 8.3 V	m
Counterweight:	29.00	te
Main Boom Length: (x.xR)	18.9	m
Telescopic Sections:	0+0+0+0+46+46	%
Adaptor:	X	m
Jib Length: (x.xR)	X	m
Hookblock Type: (SWL)	22	te
Outrigger Mats:	1.2	m
Additional Mats:	X	m

LIFT DETAILS - CRITICAL LIFT		
Item To Be Lifted:	Transformer	
Radius:	11.50	m
Item Weight:	22.00	te
Lifting Tackle:	0.40	te
Lifting Beam:	8.00	te
Stowed Fly / Superlift Rad:	0.60	te
Hookblock:	0.46	te
Total Lift Weight:	23.46	te
Gross Capacity:	27.40	te
(%) Of Capacity:	85.62	%

OUTRIGGER LOAD / MAT INFORMATION						
Max Outrigger Force:					52.00	te
Weight Of Mat(s):					0.27	te
Max Force: (Incl. Weight Of Mat)					52.27	te
Standard Mats: (Dia.)	1.20	AREA		=	1.13	m²
Standard Mats: (L x W)	0.00	x	0.00	=	0.00	m²
Additional Mats: (Additional)	2.00	x	1.20	=	2.40	m²
Max. G B P: (Dia.)					46.21	te/m²
Max. G B P: (L x W)					####	te/m²
Max. G B P: (Additional)					21.70	te/m²

LIFT INFORMATION		
Lift 1	0.00	te
Lift 2	0.00	te

MAX. OPERATING WIND SPEED
11.2 m/s (Subject To Wind Surface Area)

Rev	Date	Detail	Drawn	Chkd	Appr

Original Size A3 / Do Not Scale

Client: RWE

Site:

Project: Battery Install

Scale: 1:X | Status: PRELIMINARY

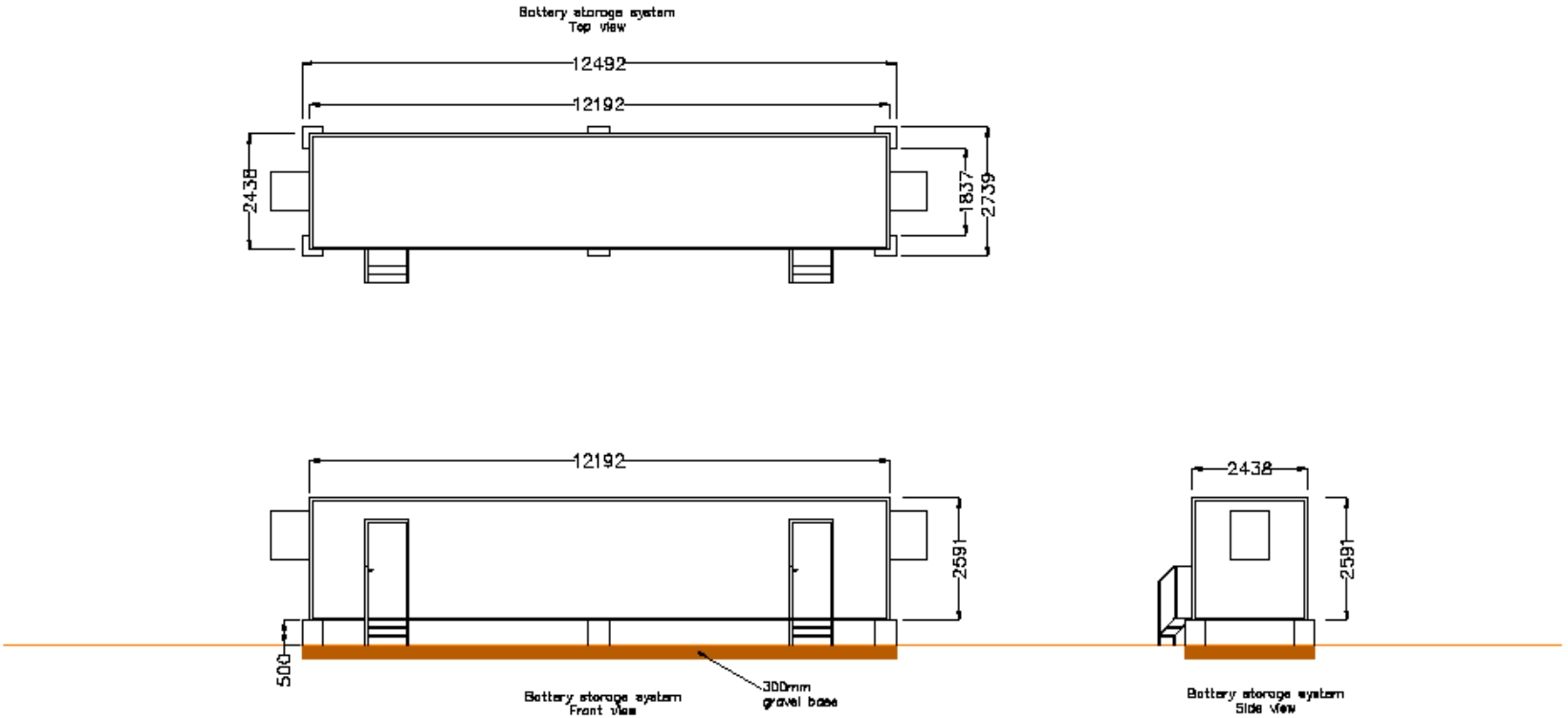
Title: Offloading and Installing Battery to concrete plinth

CAD No: | Sheet Number: | Rev:

File Location:

RWE

APPENDICES



SCALE A3 @ 1:100

0 1000 2000 3000 4000 5000

N

REVISIONS:
– Initial design

NOTES:
–

JBM SOLAR

DATE: 14 May 2020

TITLE:
Battery Storage System Details 1

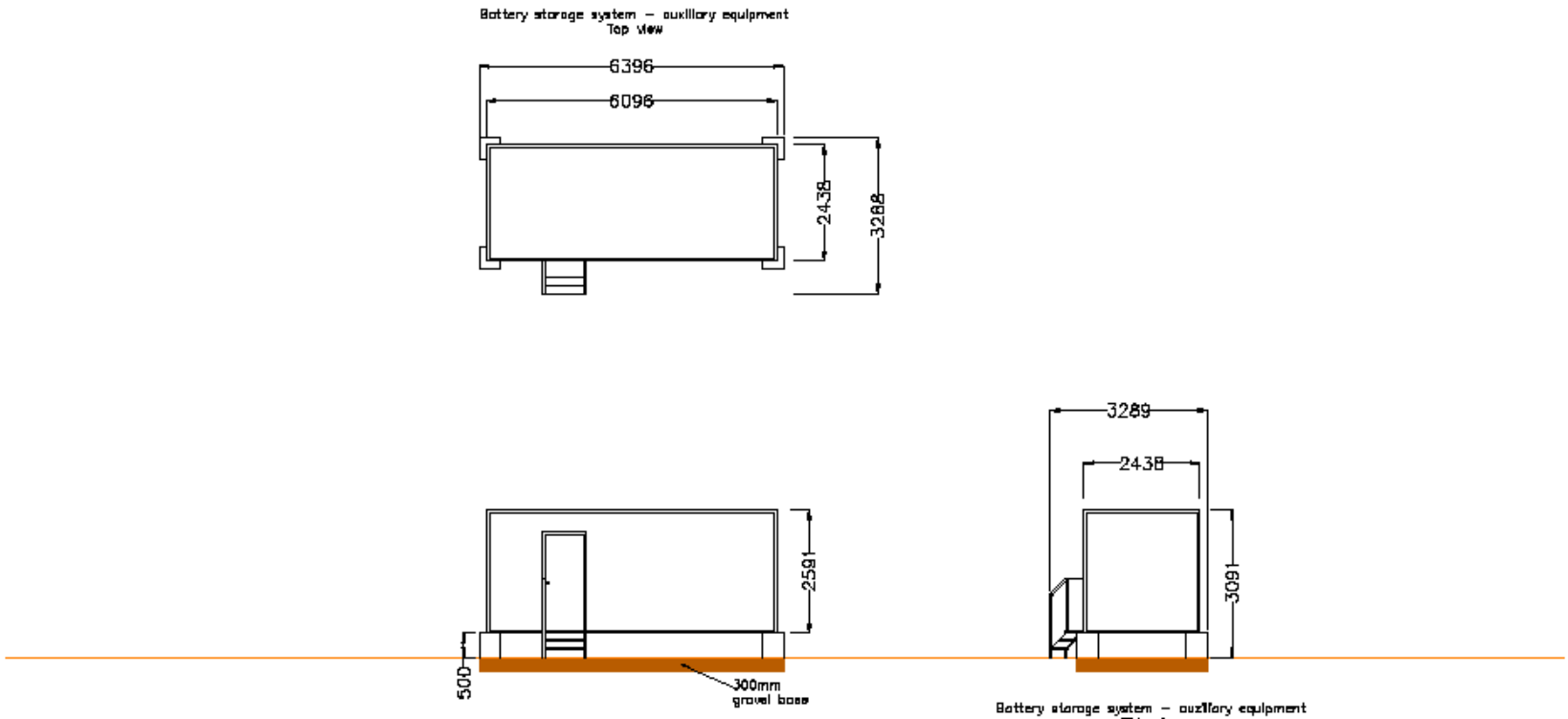
PROJECT TITLE:
Wick Farm

LOCATION:
SN15 2LU

CONFIGURATION:
–

REV: A

FILENAME: Typical Battery Storage System Details 1.dwg



SCALE A3 @ 1:100

0 1000 2000 3000 4000 5000

N

REVISIONS:
– Initial design

NOTES:
–

JBM SOLAR

DATE: 14 May 2020

TITLE:
Battery storage system – auxiliary equipment Details

PROJECT TITLE:
Wick Farm

LOCATION:
SN15 2LU

CONFIGURATION:
–

REV: A

FILENAME: Typical Battery Storage System Details 2.dwg

PLANTING SPECIFICATION

These implementation and maintenance guidelines are for planning purposes only to indicate the level of workmanship to be specified and do not constitute a detailed specification.

1. GENERAL

1.1. All landscape operatives will be appropriately trained, certified and qualified to undertake the tasks required. When required, the relevant certificates will be made available for inspection. All work is to be carried out in accordance with the relevant British Standards, Codes of Practice and Legislation.

1.2. All plants shall conform to BS 3936 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE.

1.3. Planting shall not be carried out when the ground is waterlogged, frost bound or during periods of cold drying winds. All bareroot planting stock will be kept covered until actually planted in order to minimise water-loss and prevent the roots from drying out. Tree handling, storage and planting shall be in accordance with BS 8545 Chapters 9 to10 and Annexes E to F.

1.4. The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

1.5. A minimum intervention approach will be used in terms of weed control. In areas of transplant tree/shrub or ornamental shrub planting this is to be achieved by using mulch mats and hand-weeding. Weed killer and other chemicals will be used as little as possible on site. Spot removal of weeds will be carried out by hand removal as necessary.

2. TREE PLANTING

Ground Preparation and Tree Pit Excavation

2.1. Where necessary remove existing weeds by hand. Chemical removal using a glyphosate based herbicide will be avoided unless large areas need clearing – following which allow a suitable period to elapse, as recommended by the manufacturer, for the herbicide to take effect.

2.2. Tree pits of at least 75mm diameter greater than the root system and no deeper than the rootball / container depth are to be excavated and the sides well scarified to prevent smearing. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.

2.3. During excavation of the pit, the soil dug should be placed to one side separating topsoil and subsoil as far as is practical.

Tree Planting

2.4. Trees shall be planted as per the planting arrangement as set out on the planting plan and plant schedule.

2.5. The typical rooting depth for trees is 900mm. The first 300mm shall be made up of topsoil; it shall be ensured that a suitable subsoil provides the remainder of the minimum rooting depth.

2.6. The root system of the tree should be wetted prior to planting. The tree should be planted at the correct depth taking into account the position of the root flare and the finished level - the rootball or root stem transition should be level with the existing host soil or surface. The base of the rootball should typically sit on subsoil, for larger rootballs the subsoil will sit around the lower portion of the rootball.

2.7. Tree pits should be backfilled with the excavated topsoil, if the original topsoil is not available or deemed unsuitable, a multi-purpose topsoil should be used. Any subsoil excavated should be discarded and the subsoil depth (beyond 300mm deep) backfilled with a high sand content subsoil. Backfill should be added gradually, in layers of 150mm to 230mm depth, ensuring the tree is held upright At each stage the fill should be firmed in to eliminate all air pockets under and around the root system, but with care being taken not to excessively compact the soil. The final layer should not be consolidated.

2.8. General-purpose slow release fertiliser (at the rate of 75gm/m2) and Tree Planting and Mulching Compost at the rate of [20litres/m2] are to be incorporated into the top 150mm of topsoil during final cultivations.

2.9. Selected standard trees will be protected from rabbit and deer damage by fitting appropriate tree guards.

2.10. All extra heavy standard size trees are to be double staked with 75mm dia stakes. Stakes should be driven at least 300mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc. and should typically be one third the height of the tree stem above ground.

2.11. Staked trees shall be secured to stakes with suitable proprietary rubber tree ties and spacers.

2.12. Immediately after planting, but before applying the below bark mulch, all trees should be saturated to field capacity.

2.13. Ornamental composted bark mulch will be spread to a depth of 75mm across a 0.8m dia circle around individual trees, ensuring that the root flare and base of the stem, along with any ground cover plants, are not buried.

3. HEDGEROW PLANTING

Ground Preparation

3.1. Where necessary existing weeds will be treated with a glyphosate-based herbicide and a suitable period allowed to elapse, as recommended by the manufacturer, for the herbicide to take effect.

3.2. All extraneous matter such as plastic, wood, metal and stones greater than 50mm diameter will be removed from site to a registered waste disposal facility.

Planting

3.3. The planting arrangement shall be as set out in the plant schedule on the relevant planting plan.

3.4. Bare-root hedge plants shall be notch planted in a double staggered row at the rate of 5 plants per linear metre (using L- shaped notches) using spades of a design suitable for this purpose. The notches must be vertical and deep enough for the roots to hang freely, with the transplant being planted so that the root collar is exactly level with the ground surface. The notch must then be closed and the soil will be well firmed round the roots in line with the guidelines as set out in BS 4428 (1989).

3.5. Container-grown hedge plants will be planted into a pit dug 1.5x the diameter of the root mass, with the bottom and sides of the planting pit broken up to aid root expansion. The plants will be planted so that the root collar is exactly level with the ground surface.

3.6. All bare-root hedge planting stock will be protected from rabbit damage using approved proprietary 600mm clear plastic spiral guards, supported with 0.9m 12/14lb canes as advised by the manufacturer.

3.7. All container-grown shrubs will be protected from rabbit damage using approved proprietary 600mm plastic shrub shelters, supported with 0.9m x 32 mm x 32mm softwood stakes as advised by the manufacturer.

Maintenance during first growing season

3.8. All dead, dying or diseased hedge plants will be replaced with plants of similar size and species. If the failure of the plant is due to disease and the disease is considered likely to re-occur then an alternative species may be used as replacement if agreed with the LPA.

3.9. The planting area will be kept weed free throughout the maintenance period using approved herbicides in April, June and August

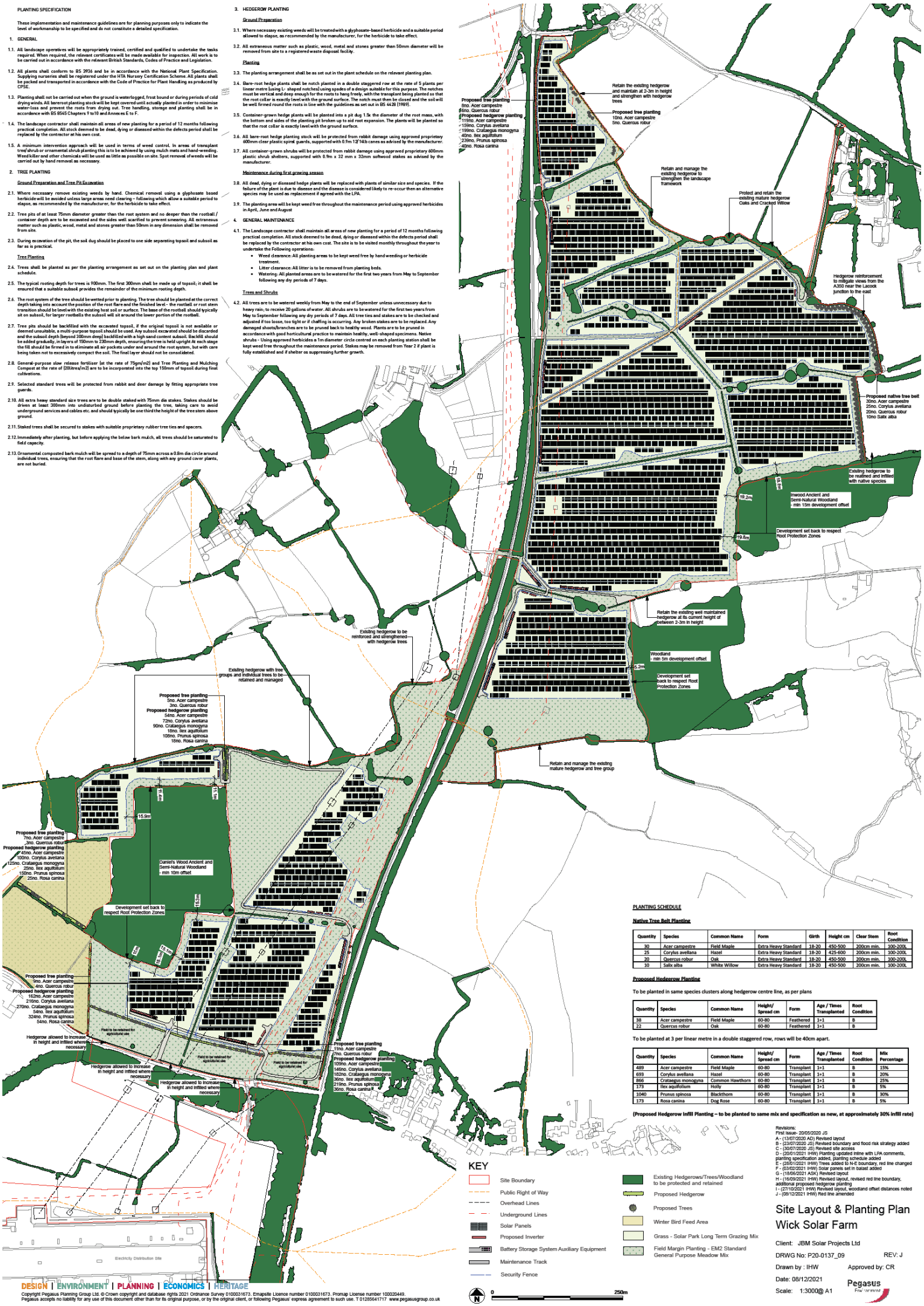
4. GENERAL MAINTENANCE

4.1. The Landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost. The site is to be visited monthly throughout the year to undertake the Following operations:

- Weed clearance- All planting areas to be kept weed free by hand weeding or herbicide treatment.
- Litter clearance- All litter is to be removed from planting beds.
- Watering- All planted areas are to be watered for the first two years from May to September following any dry periods of 7 days.

Trees and Shrubs

4.2. All trees are to be watered weekly from May to the end of September unless unnecessary due to heavy rain; to receive 20 gallons of water. All shrubs are to be watered for the first two years from May to September following any dry periods of 7 days. All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chaffing is occurring. Any broken stakes are to be replaced. Any damaged shoots/branches are to be pruned back to healthy wood. Plants are to be pruned in accordance with good horticultural practice to maintain healthy, well-shaped specimens. Native shrubs - Using approved herbicides a 1m diameter circle centred on each planting station shall be kept weed free throughout the maintenance period. Stakes may be removed from Year 2 if plant is fully established and if shelter os suppressing further growth.



PLANTING SCHEDULE

Native Tree Belt Planting

Quantity	Species	Common Name	Form	Girth	Height cm	Clear Stem	Root Condition
30	Acer campestre	Field Maple	Extra Heavy Standard	18-20	450-500	200cm min.	100-200L
25	Corylus avellana	Hazel	Extra Heavy Standard	18-20	425-600	200cm min.	100-200L
20	Quercus robur	Oak	Extra Heavy Standard	18-20	450-500	200cm min.	100-200L
10	Salix alba	White Willow	Extra Heavy Standard	18-20	450-500	200cm min.	100-200L

Proposed Hedgerow Planting

To be planted in same species clusters along hedgerow centre line, as per plans

Quantity	Species	Common Name	Height/ Spread cm	Form	Age / Times Transplanted	Root Condition
38	Acer campestre	Field Maple	60-80	Feathered	1+1	B
22	Quercus robur	Oak	60-80	Feathered	1+1	B

To be planted at 3 per linear metre in a double staggered row, rows will be 40cm apart.

Quantity	Species	Common Name	Height/ Spread cm	Form	Age / Times Transplanted	Root Condition	Mix Percentage
489	Acer campestre	Field Maple	60-80	Transplant	1+1	B	15%
693	Corylus avellana	Hazel	60-80	Transplant	1+1	B	20%
866	Crataegus monogyna	Common Hawthorn	60-80	Transplant	1+1	B	25%
173	Ilex aquifolium	Holly	60-80	Transplant	1+1	B	5%
1040	Prunus spinosa	Blackthorn	60-80	Transplant	1+1	B	30%
173	Rosa canina	Dog Rose	60-80	Transplant	1+1	B	5%

(Proposed Hedgerow Infill Planting – to be planted to same mix and specification as new, at approximately 30% infill rate)

KEY

- Site Boundary
- Public Right of Way
- Overhead Lines
- Underground Lines
- Solar Panels
- Proposed Inverter
- Battery Storage System Auxiliary Equipment
- Maintenance Track
- Security Fence
- Existing Hedgerows/Trees/Woodland to be protected and retained
- Proposed Hedgerow
- Proposed Trees
- Winter Bird Feed Area
- Grass - Solar Park Long Term Grazing Mix
- Field Margin Planting - EM2 Standard General Purpose Meadow Mix

0 250m

Revisions:
First Issue- 20/05/2020 JS
A - (13/07/2020 AD) Revised layout
B - (23/07/2020 JS) Revised boundary and flood risk strategy added
C - (30/07/2020 JS) Revised site access
D - (20/01/2021 IHW) Planting updated inline with LPA comments, planting specification added, planting schedule added
E - (28/01/2021 IHW) Trees added to N-E boundary, red line changed
F - (03/02/2021 IHW) Solar panels set in balast added
G - (18/06/2021 ASK) Revised layout
H - (16/09/2021 IHW) Revised layout, revised red line boundary, additional proposed hedgerow planting
I - (27/10/2021 IHW) Revised layout, woodland offset distances noted
J - (08/12/2021 IHW) Red line amended

Site Layout & Planting Plan
Wick Solar Farm

Client: JBM Solar Projects Ltd
DRWG No: P20-0137_09 REV: J
Drawn by : IHW Approved by: CR
Date: 08/12/2021
Scale: 1:3000@ A1

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Technical Note 01

Revision 00

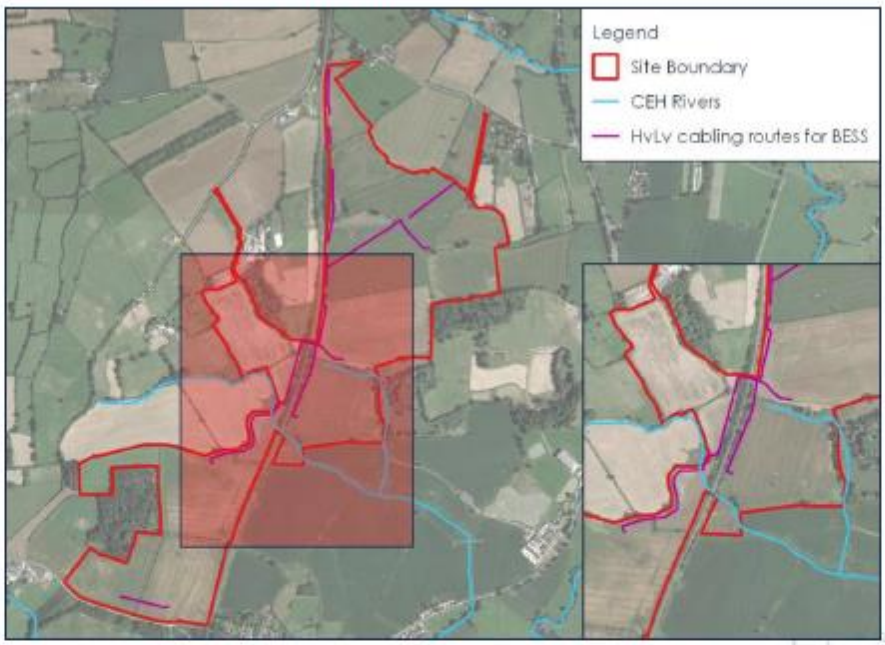
Title	Flood Risk Assessment Addendum
Job Name	Wick Solar Farm, Melksham
Job Number	22-285
Date	12th December 2023

1 BACKGROUND

1.1.1 This note assesses whether there are likely to be any flood risk implications arising from the cable route proposed to service the Wick Solar Farm.

1.1.2 The proposed cable route in relation to the local watercourse network is shown in Figure 1-1.

Figure 1-1 Cable Route and Watercourses



1.1.3 As shown by Figure 1-1, the proposed cable route has some watercourse crossings.

2 FLOOD RISK ANALYSIS

2.1.1 The cable route will be trench excavated to a maximum depth of 0.5m. The cable will be laid on a thin layer of sand at the base of the trench. The trench will be backfilled with the excavated soil.

2.1.2 Due to the re-use of excavated soil, there will be a negligible change to the permeability of the material in the trench, when compared to existing. In turn, this would negate any alteration to sub-surface flows.

2.1.3 In addition, no noticeable alteration to ground levels will result from the reinstated trench. This would result in negligible impacts on overland flows.

2.1.4 To manage the proposed watercourse crossings, the cable route should be specifically referred to in the site Construction Environmental Management Plan (CEMP), in particular the treatment of the crossings. At this stage it is envisaged that directional drilling beneath the watercourses is preferred but this will be confirmed by the CEMP and potentially subject to relevant consent from the Lead Local Flood Authority.

2.1.5 In summary, the proposed cable route is unlikely to have a noticeable impact on the local hydrology at the site.

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