

Tween Bridge Solar Farm

2.9 Indicative Layouts and Cross Section Plans

**Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms
and Procedure) Regulations 2009**

APFP Regulation 5(2)(o)

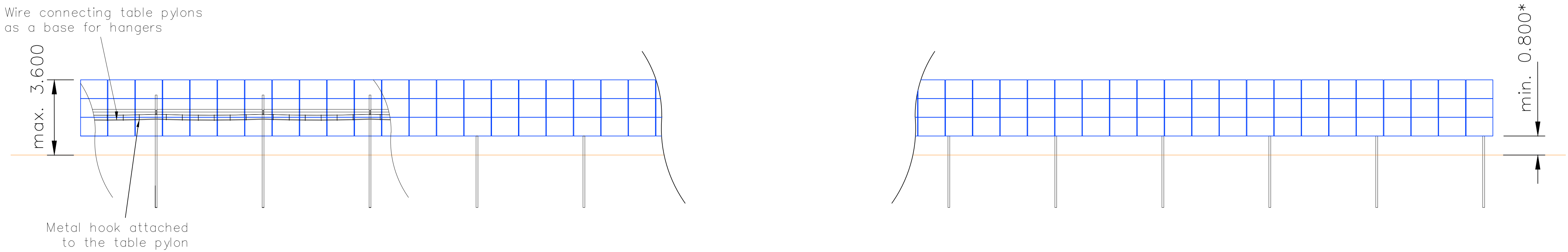
Document Reference: 2.9

August 2025

Revision 1

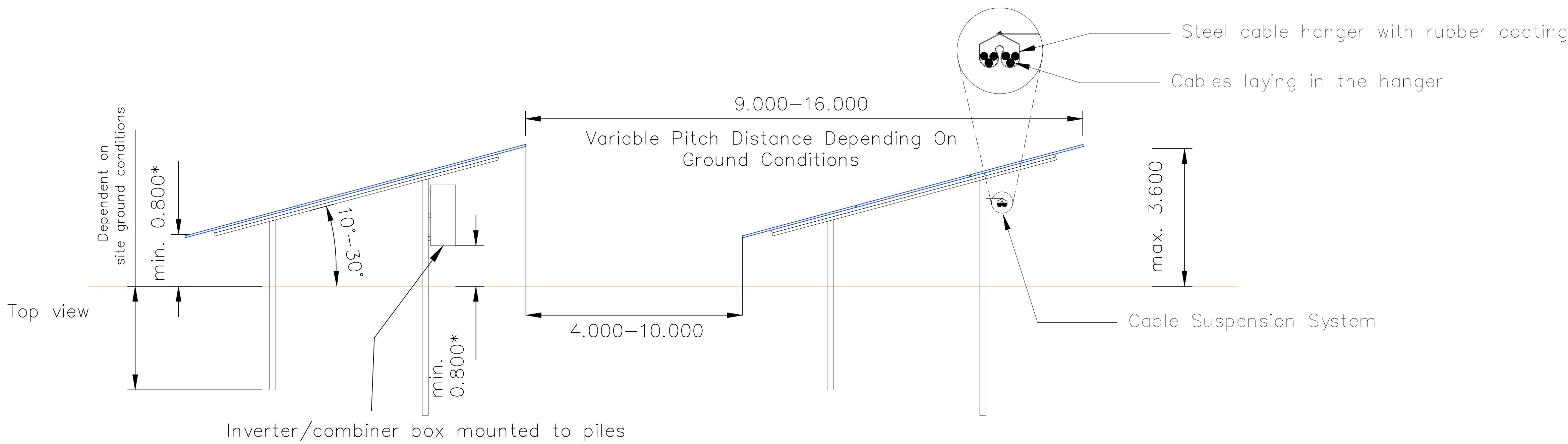
Table front view – 3 modules in portrait

Table back view – cable suspension system



*To be raised at least 100mm above 1in1000 year flood levels

Table side view



*To be raised at least 100mm above 1in1000 year flood levels

Notes:
1. All details are indicative only.
2. Dimensions are in metres unless stated otherwise.

Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical 3P Fixed Table - Piled

Coordinate System: N/A
Projection: N/A
Datum: N/A

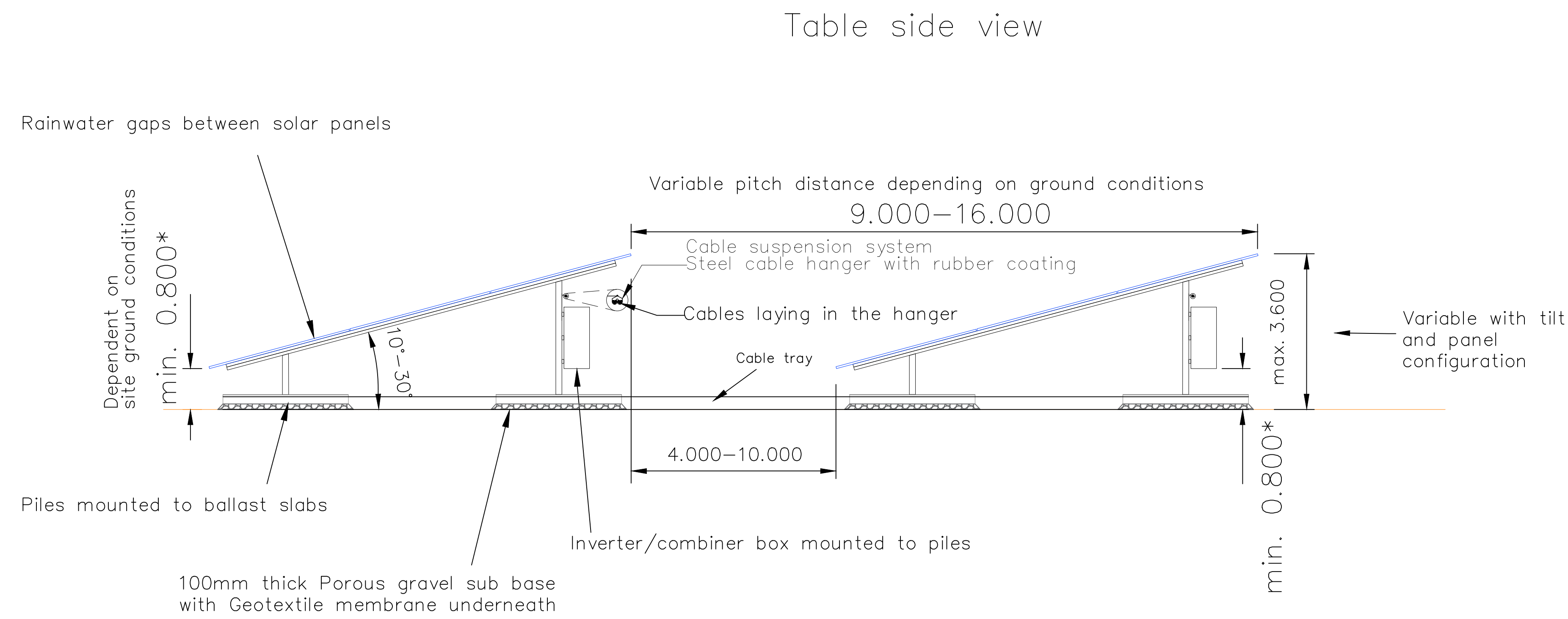
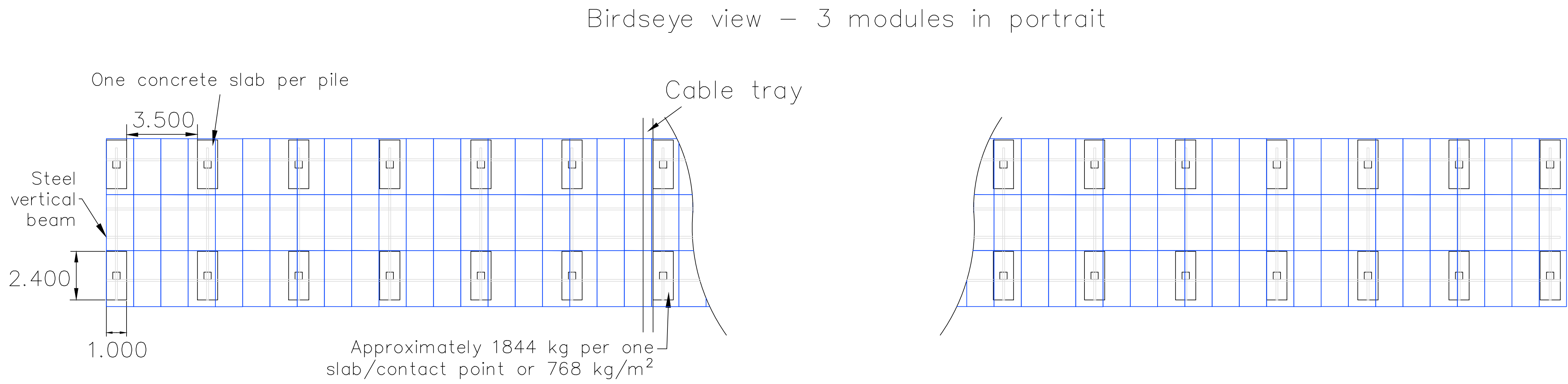
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Paper Size: A0
Sheet: 1 of 21

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Document Ref: 2.9
Revision: 1

PINS Number: EN010148
Drawing Status: DCO Application

Drawn: MP
Checked: AD
Approved: MB
Date: 18/08/2025



*To be raised at least 100mm about 1in1000 year flood levels

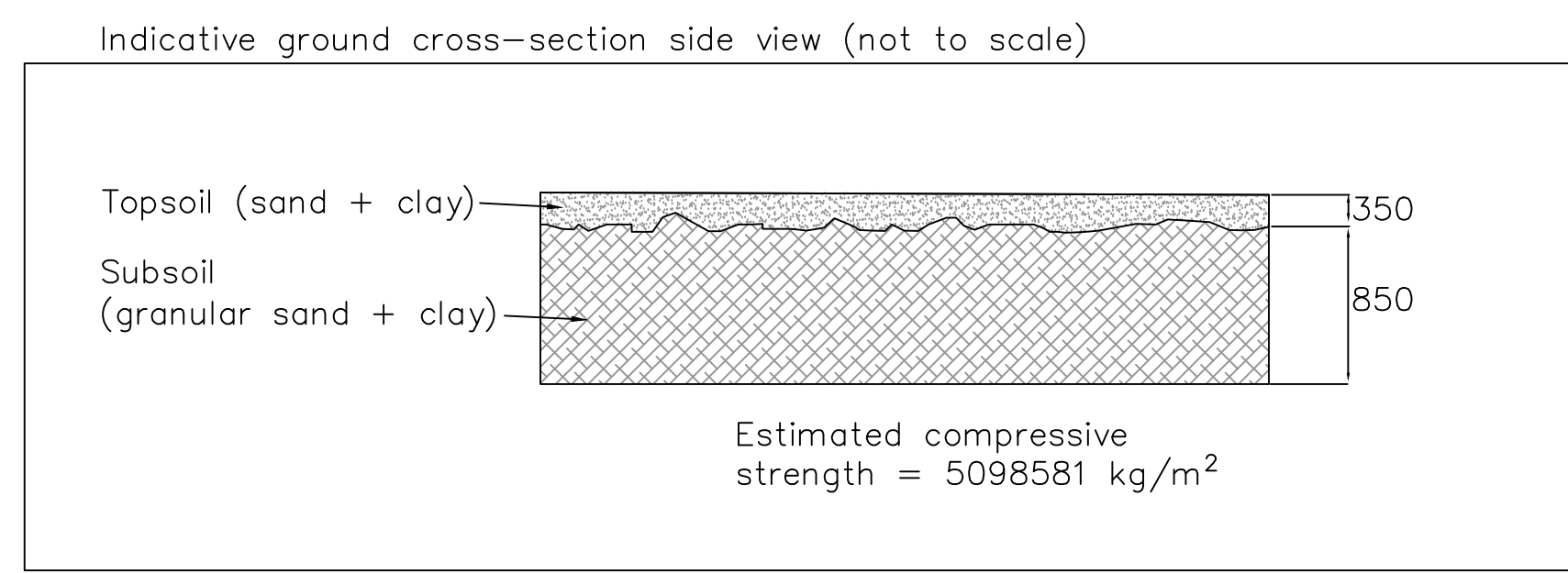


Table 1: Approximate constituents of a contact point

| Item name | Weight [kg] |
|------------------------------|-------------|
| 15 PV Panels | 420 |
| PV frame for 15 panels | 45 |
| Solar inverter for 15 Panels | 90 |
| Shingle layer | 379 |
| Concrete slab | 1000 |
| TOTAL weight | 1844 |

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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical 3P Fixed Table - Ballasted

Coordinate System: N/A
Projection: N/A
Datum: N/A

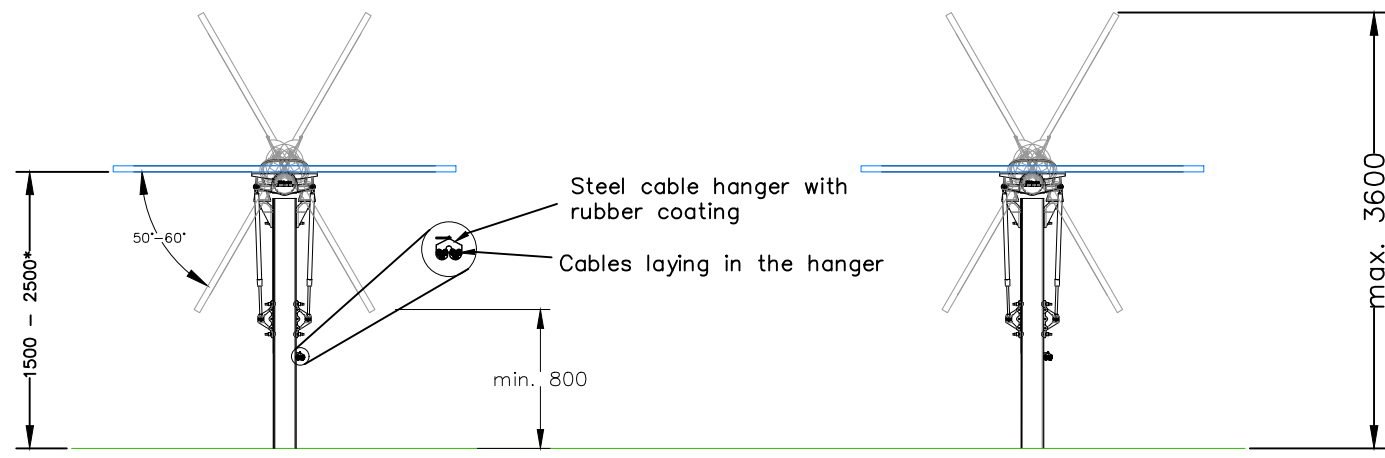
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Paper Size: A0
Sheet: 2 of 21

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Table front view – 1 module in portrait



*To be raised at least 100mm above 1in1000 year flood levels

Table side view – 1 module in portrait

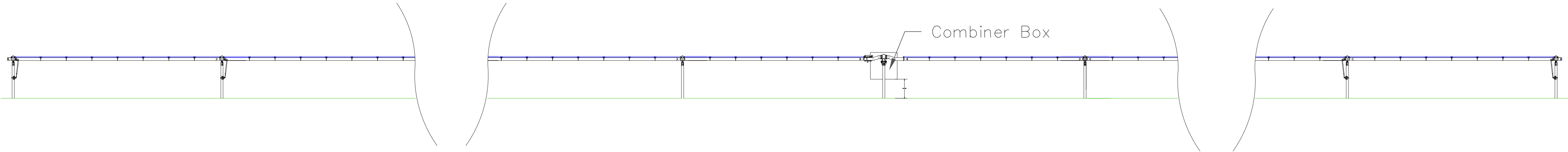
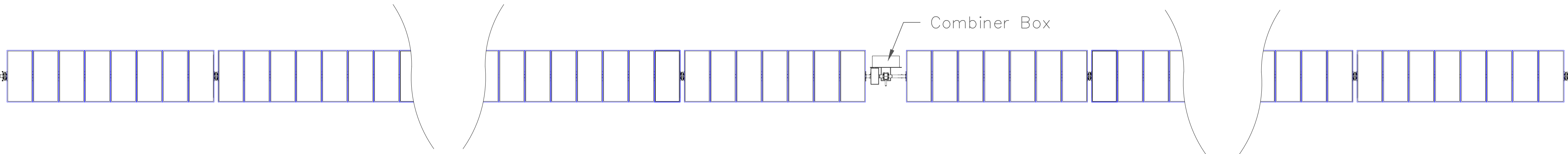


Table top view – 1 module in portrait



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Tween Bridge Solar Farm

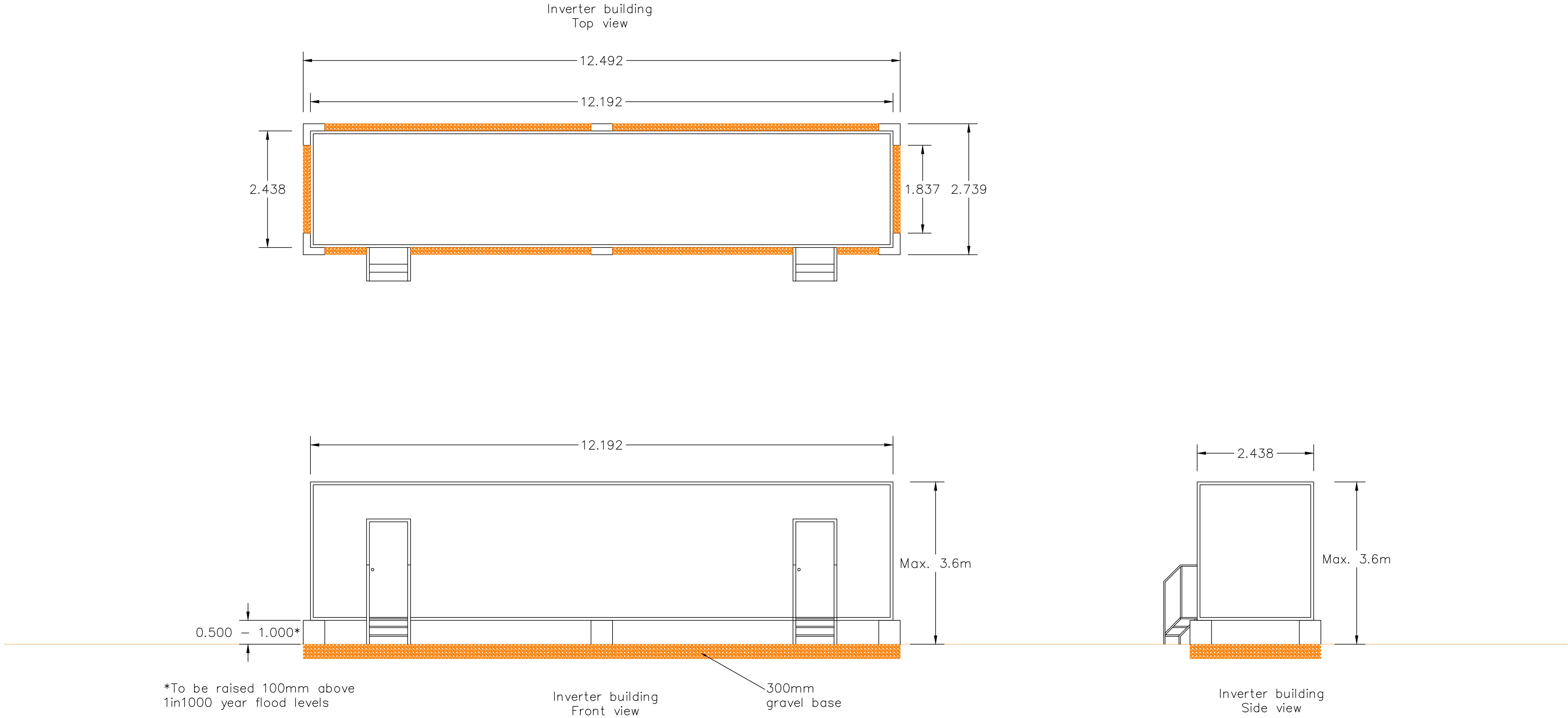
Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical 1P Tracker Table - Piled

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:100 Paper Size: A0 Sheet: 3 of 21



Document Ref: 2.9 Revision: 1
PINS Number: EN010148 Drawing Status: DCO Application
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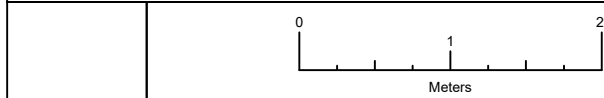


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- Notes:
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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Inverter Building

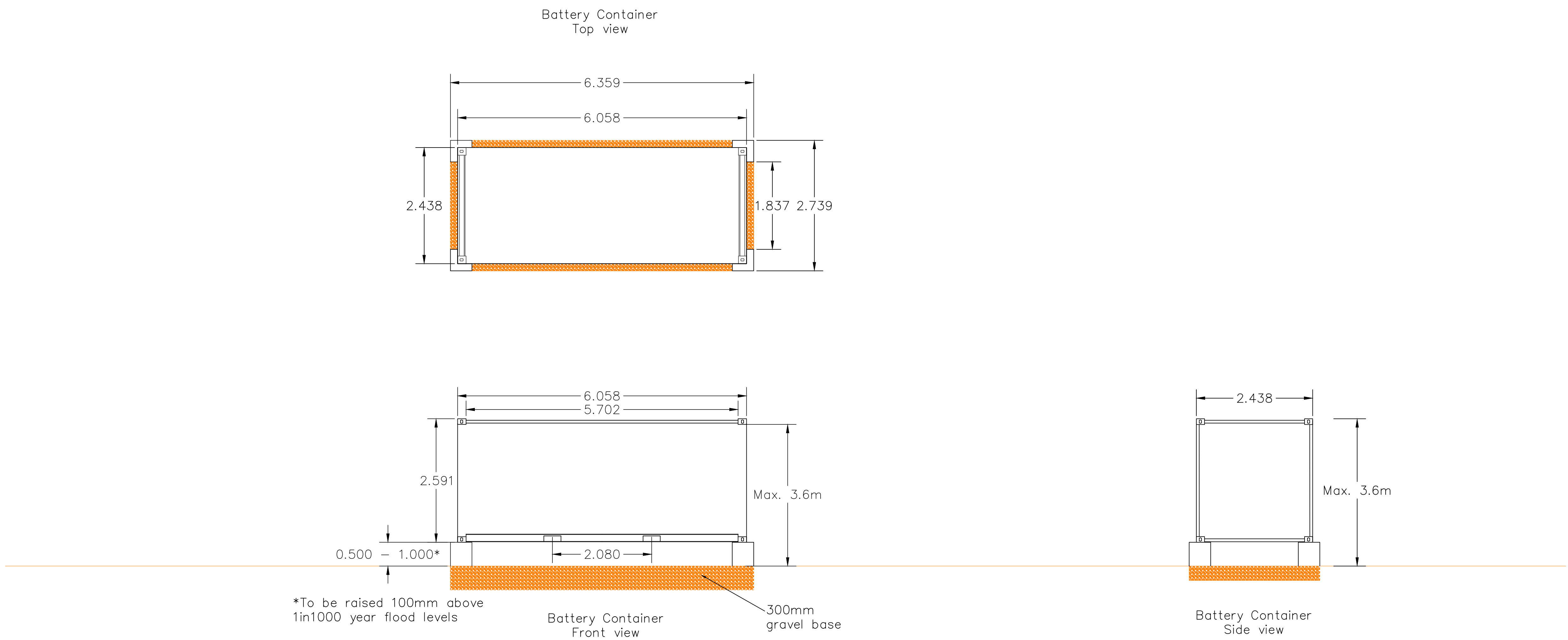


Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:50 Paper Size: A0 Sheet: 4 of 21

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Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Battery Container

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:50 Paper Size: A0 Sheet: 5 of 21

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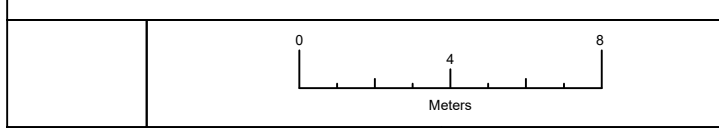
- LEGEND
- Fence
 - Access Gate
 - CCTV
 - Access Track
 - Parking
 - Site Office
 - Spares Container
 - Water Tank
 - Inverter
 - BESS Container

- Notes:
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 - Water tanks to provide a minimum of 228m³ water capacity.

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Figure 2.9: Indicative Layout and Cross Section Plans

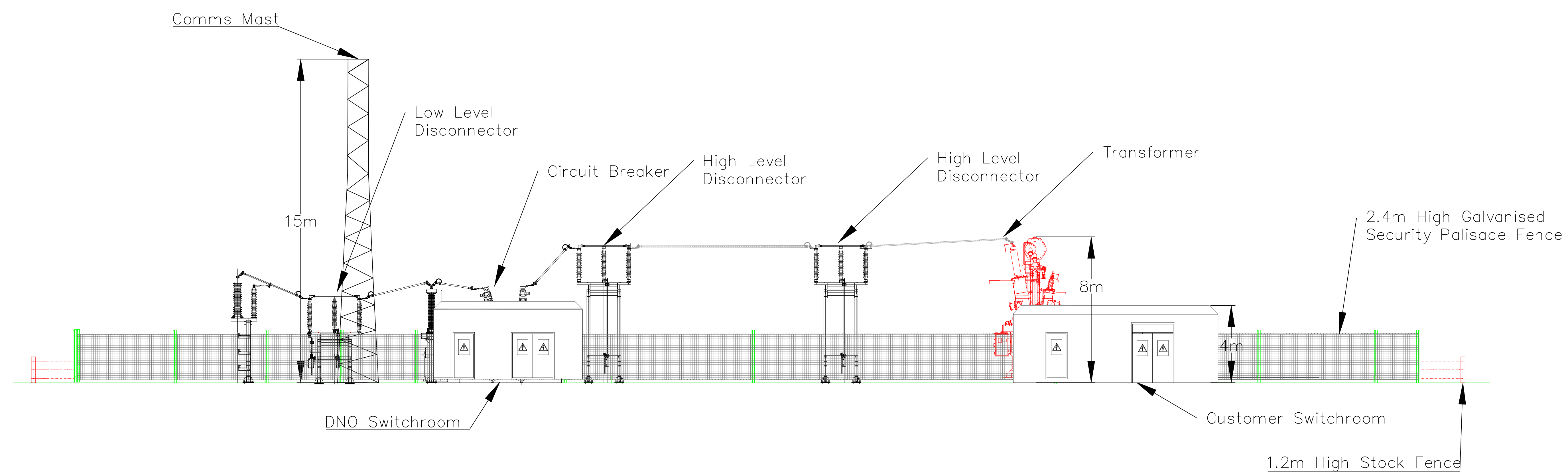
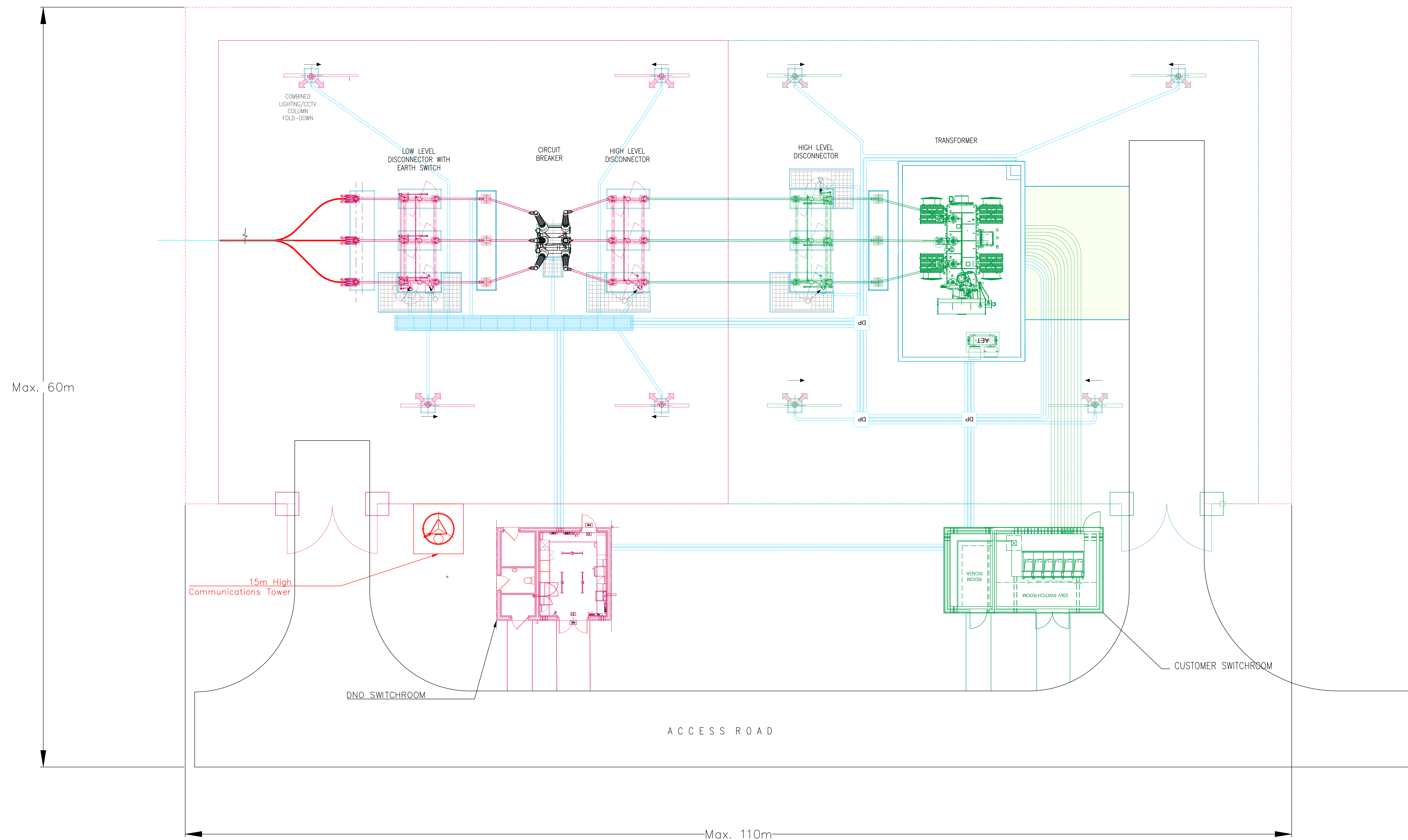
Drawing Ref: Typical 100MW BESS Layout



Coordinate System: N/A
Projection: N/A
Datum: N/A
Scale: 1:200
Paper Size: A0
Sheet: 6 of 21

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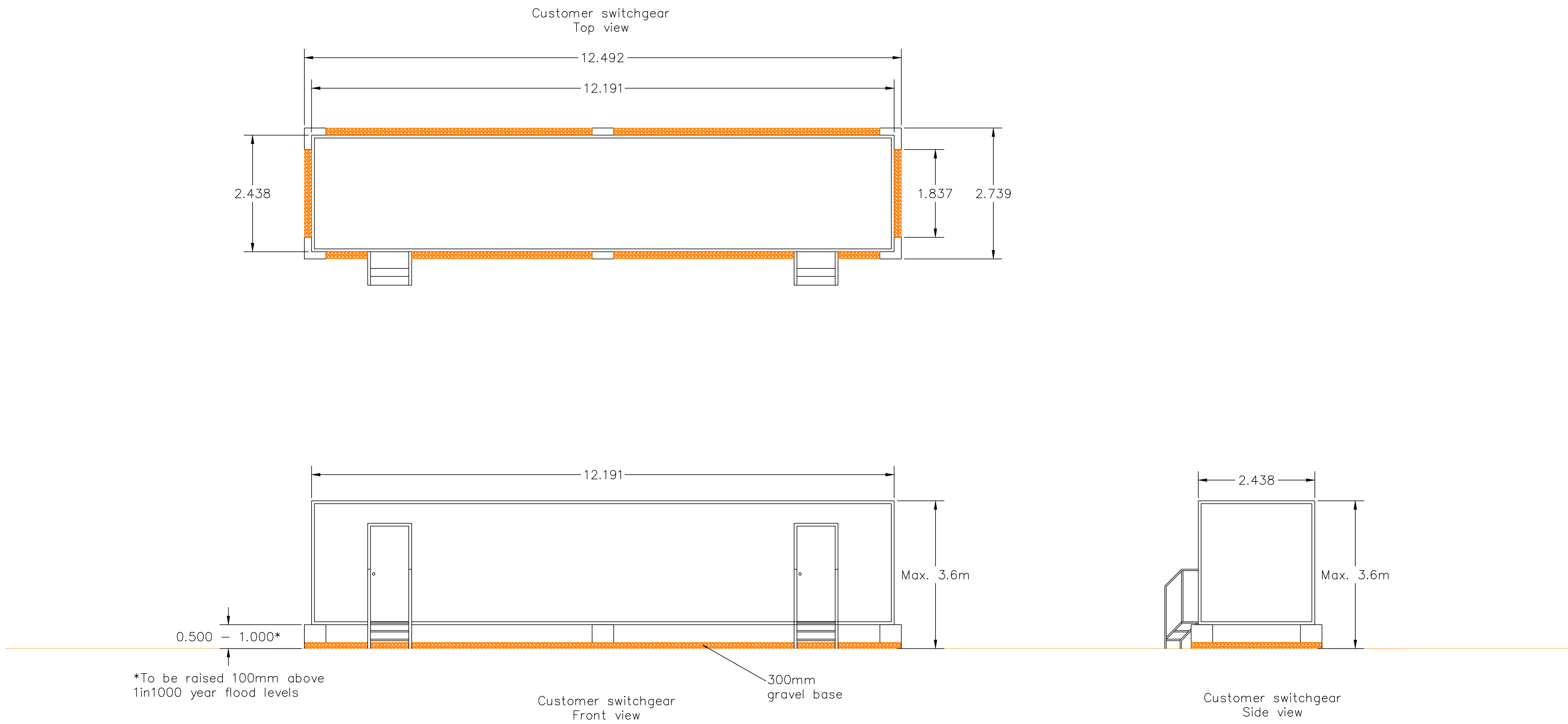
Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Single TX Substation

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:100 Paper Size: A0 Sheet: 7 of 21

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Document Ref: 2.9 Revision: 1
PINS Number: EN010148 Drawing Status: DCO Application
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Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Customer Switchgear

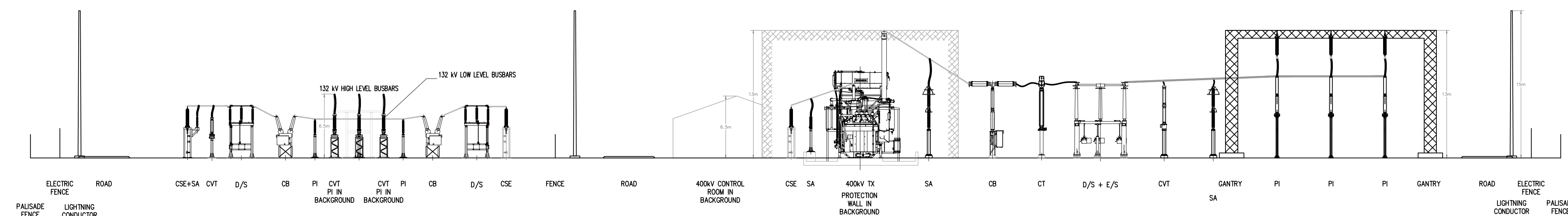
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Scale: 1:50
Paper Size: A0
Sheet: 8 of 21

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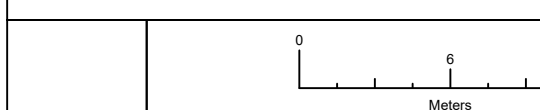
A diagram of a cone with a horizontal cross-section. The cross-section is a circle, and the cone's surface is represented by two lines meeting at a point (the apex) above the circle. A horizontal line segment connects the center of the circle to the apex, representing the height of the cone.



Notes:

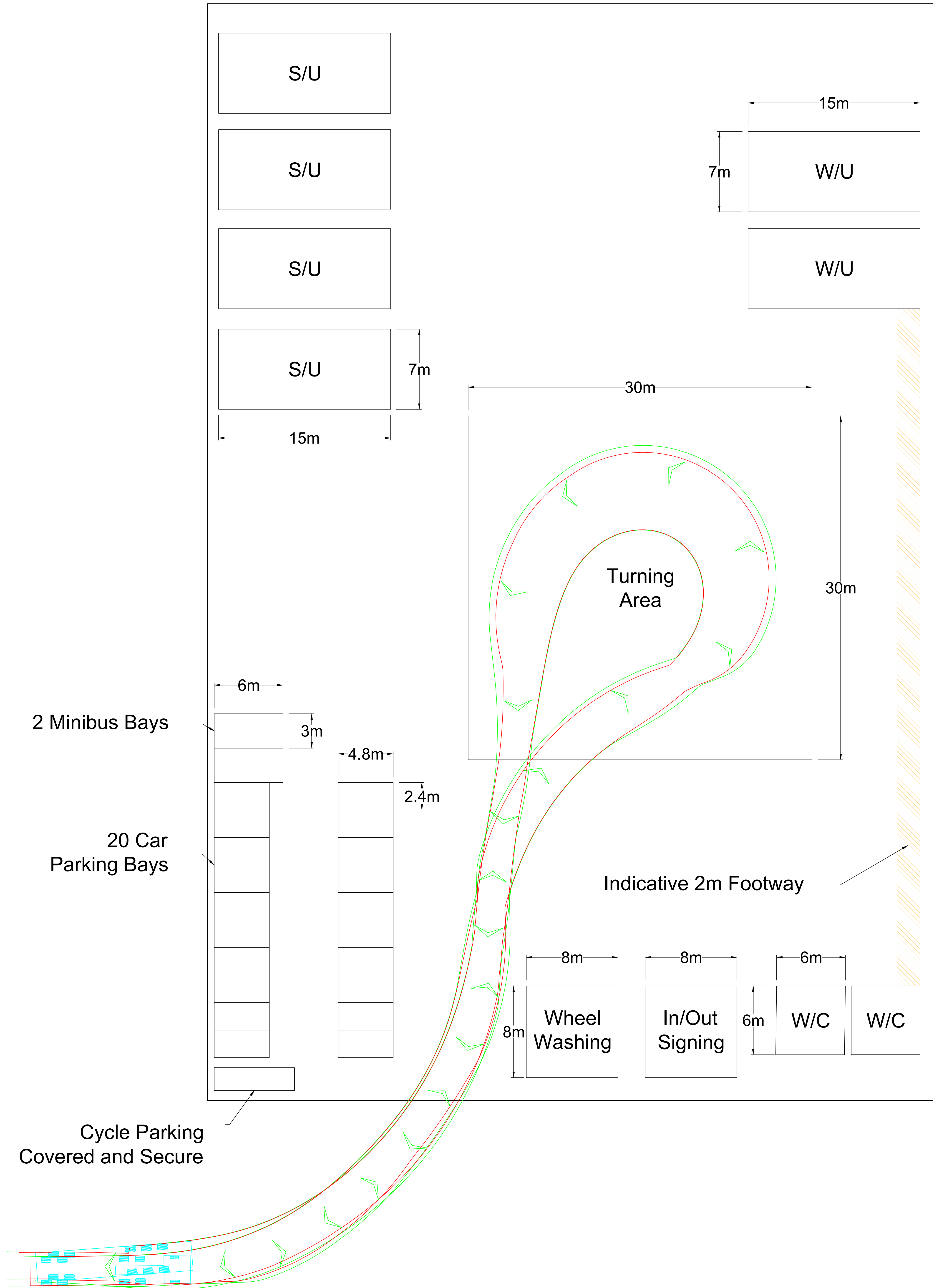
1. All details are indicative only.
2. Dimensions are in metres unless stated otherwise.
3. Subject to detailed design.

Figure 2.9: Indicative Layout and Cross Section Plan
Drawing Ref: Typical 400kV Substation



| | | |
|---|----------------|----------------|
| Coordinate System: N/A Projection: N/A Datum: N/A | | |
| Scale: 1:300 | Paper Size: A0 | Sheet: 9 of 21 |

| | | | | |
|----------------------|-------------|--------------|-----------------------------|--|
| Document Ref: 2.9 | | | Revision: | |
| PINS Number EN010148 | | | Drawing Status: DCO Applies | |
| Drawn: MP | Checked: AD | Approved: MB | Date: 19/08/2025 | |



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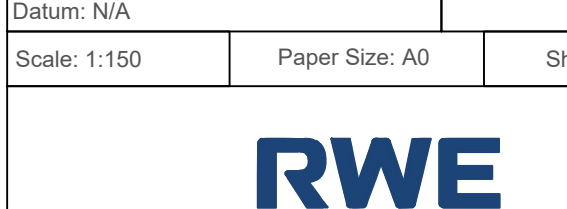
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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Construction Compound

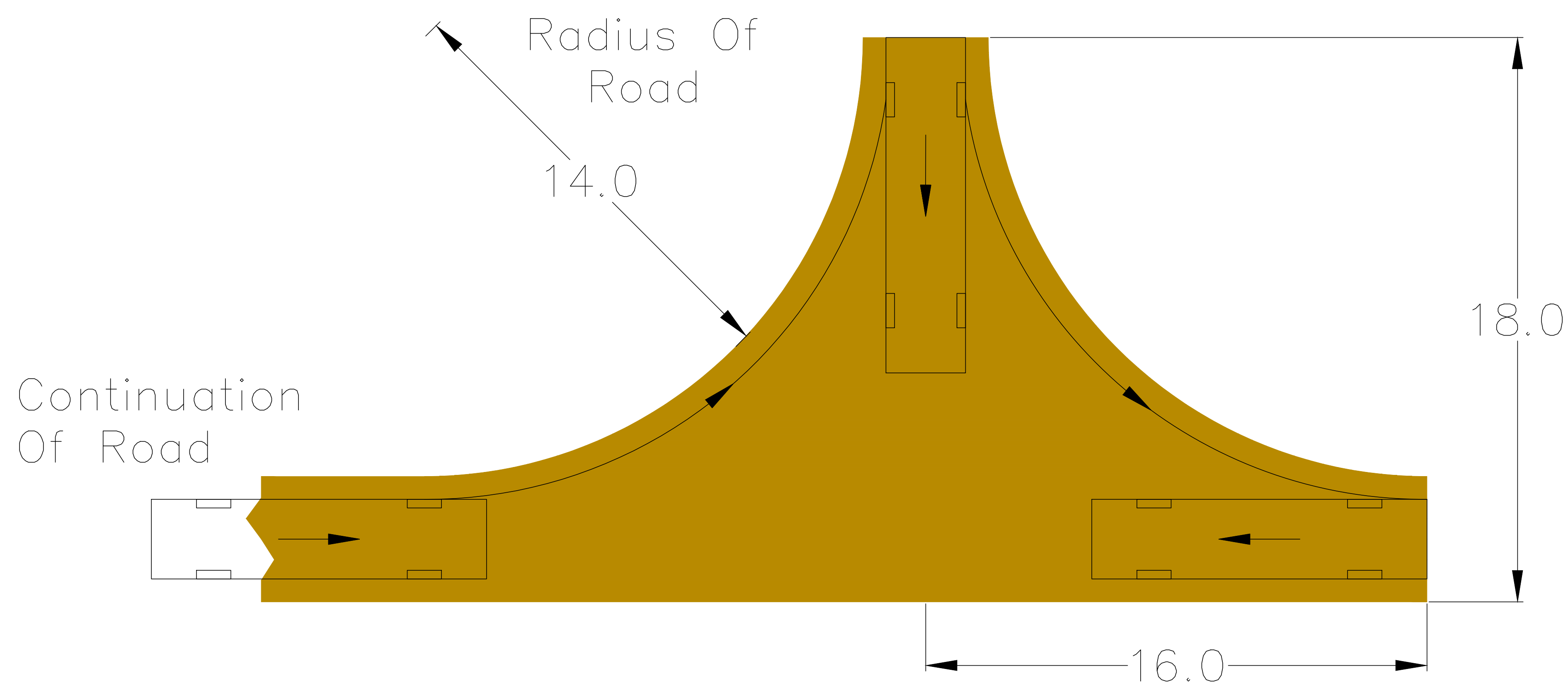
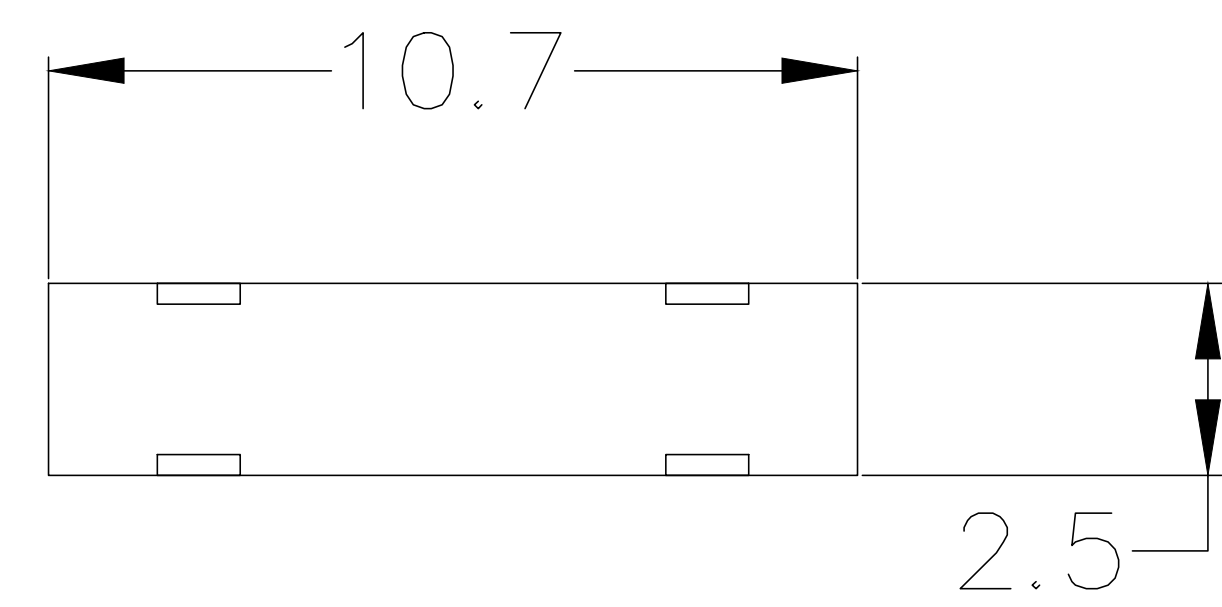
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Sheet: 10 of 21

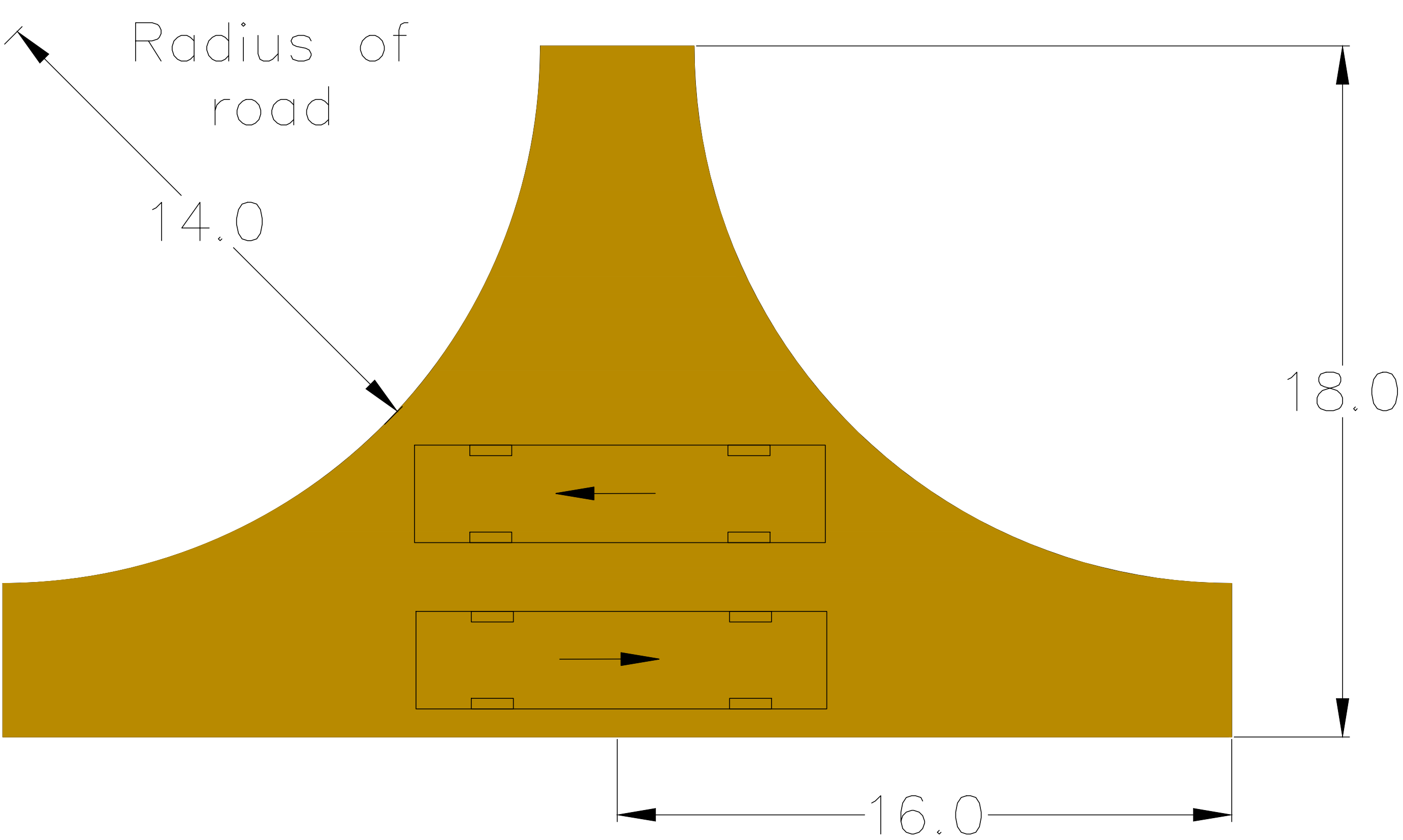


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Fire Engine
Dimensions



Hammer Head Turning
Example



Hammer Head Passing
Place Example

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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Hammerhead Turning

Coordinate System: N/A
Projection: N/A
Datum: N/A

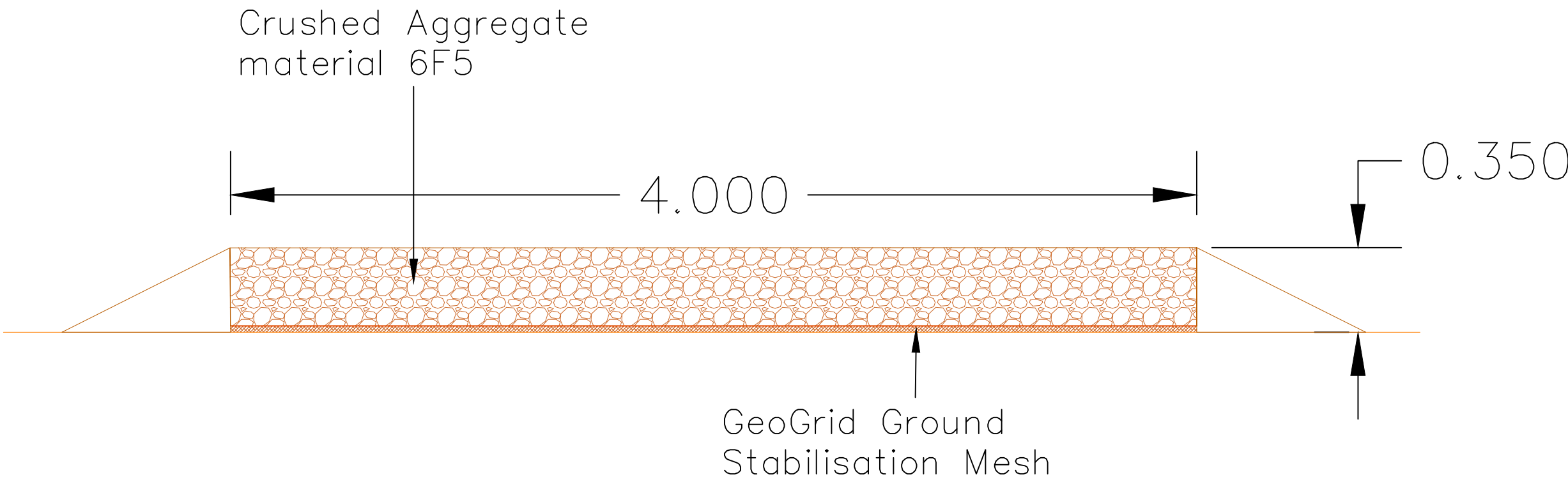
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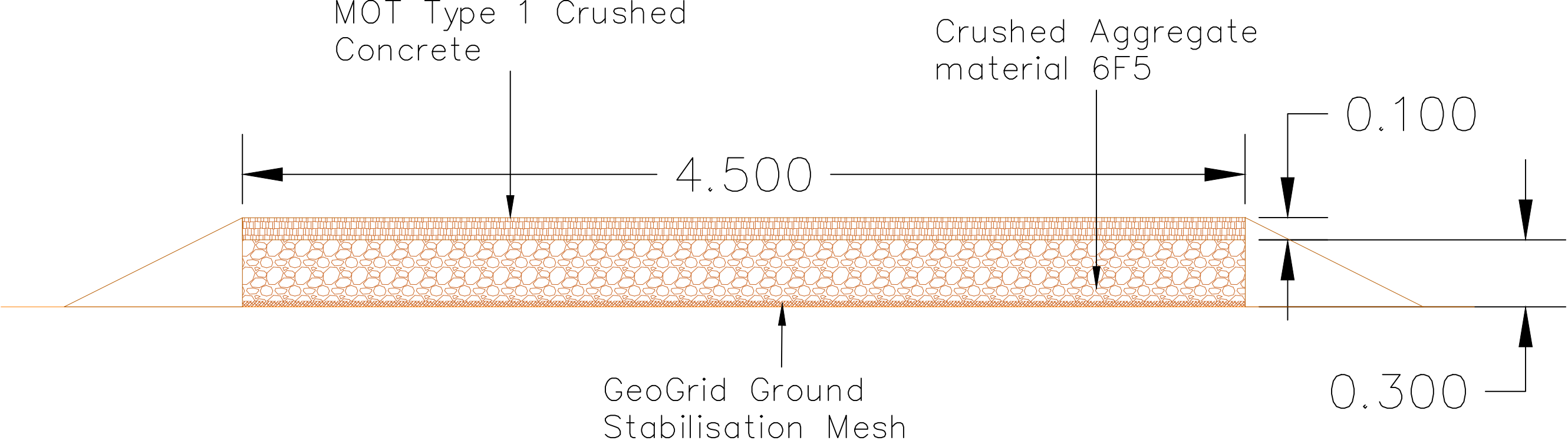
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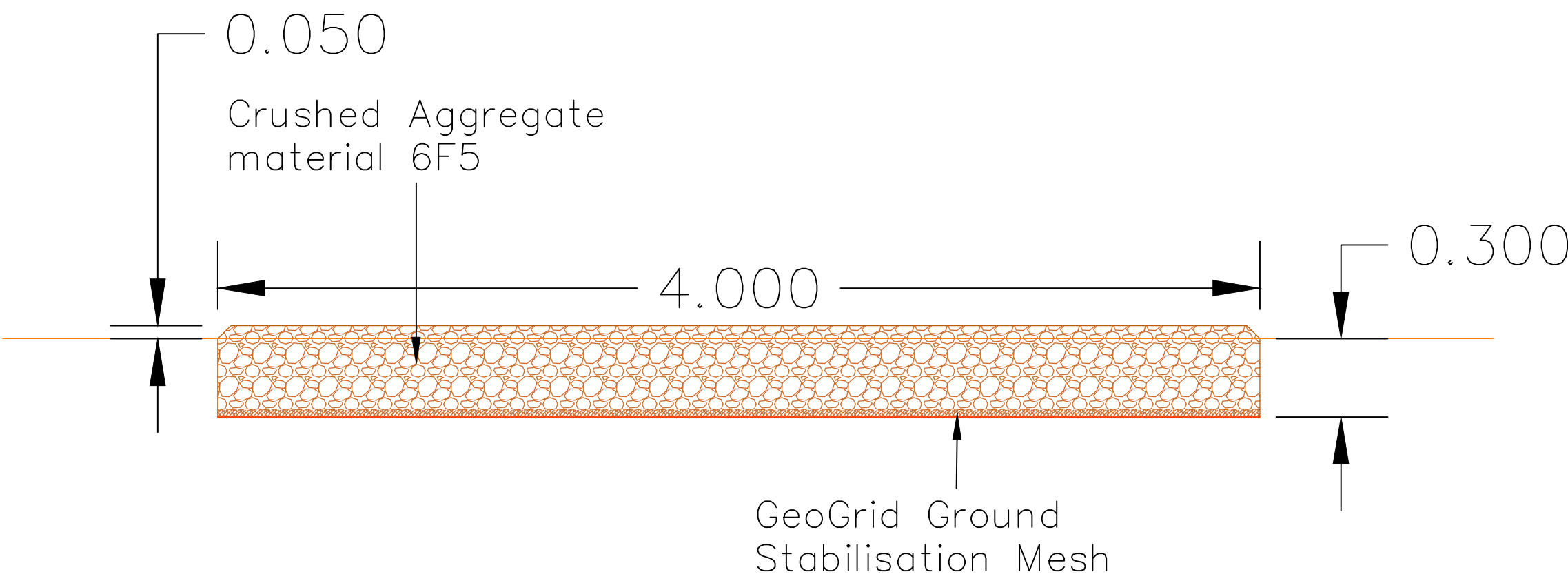
Drawn: MP Checked: AD Approved: MB Date: 19/08/2025



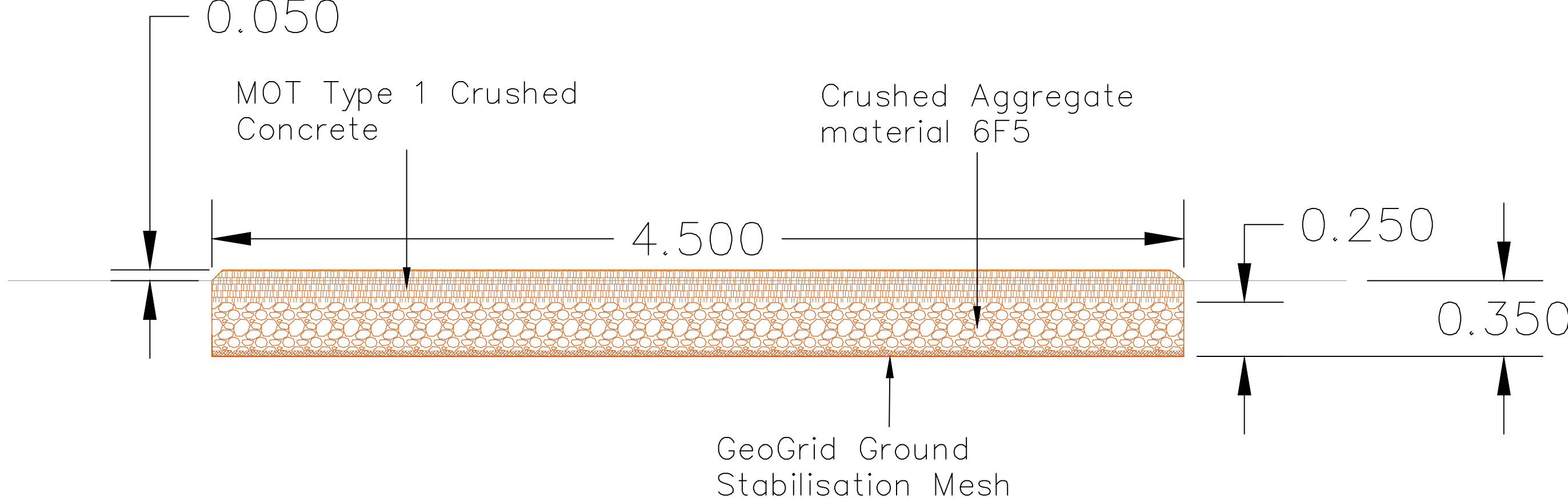
Alternative No-dig (Non-intrusive) access track



Alternative No-dig (Non-intrusive) DNO access track



Typical access track cross section



Typical DNO access track cross section

See Note 3 for information on cross section of car parks

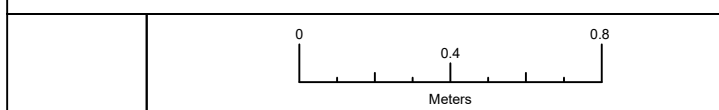
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 3. Car parks will follow the same cross section as the access track but will not be limited to a width of 4-4.5m

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Figure 2.9: Indicative Layout and Cross Section Plans

Drawing Ref: Typical Access Track

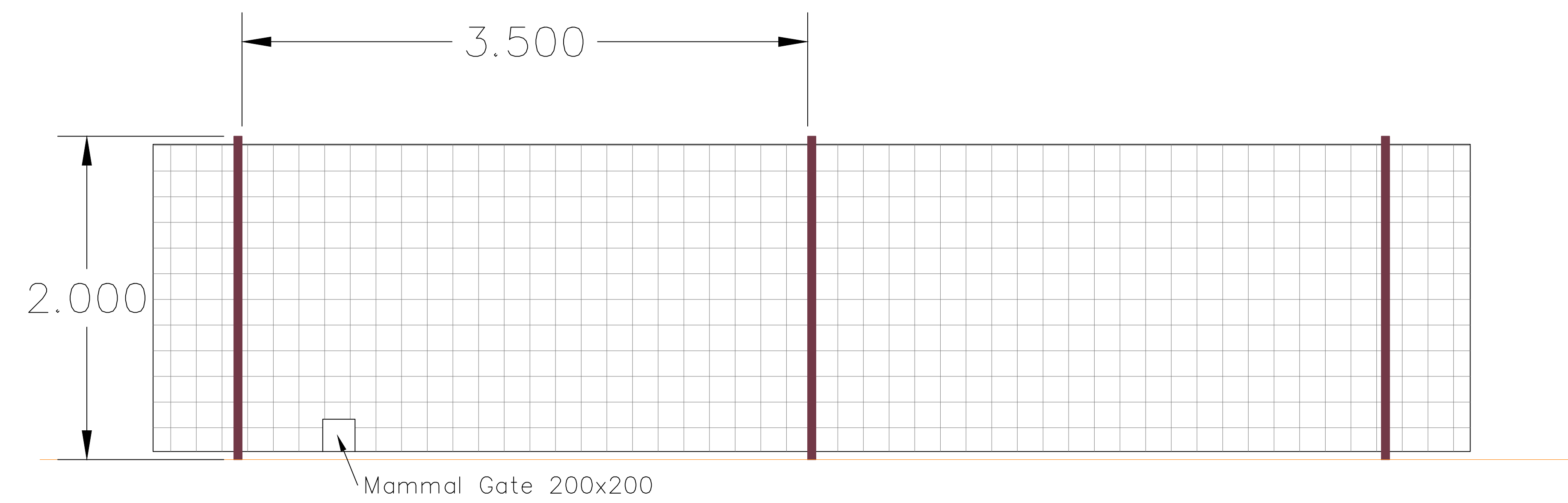


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Datum: N/A

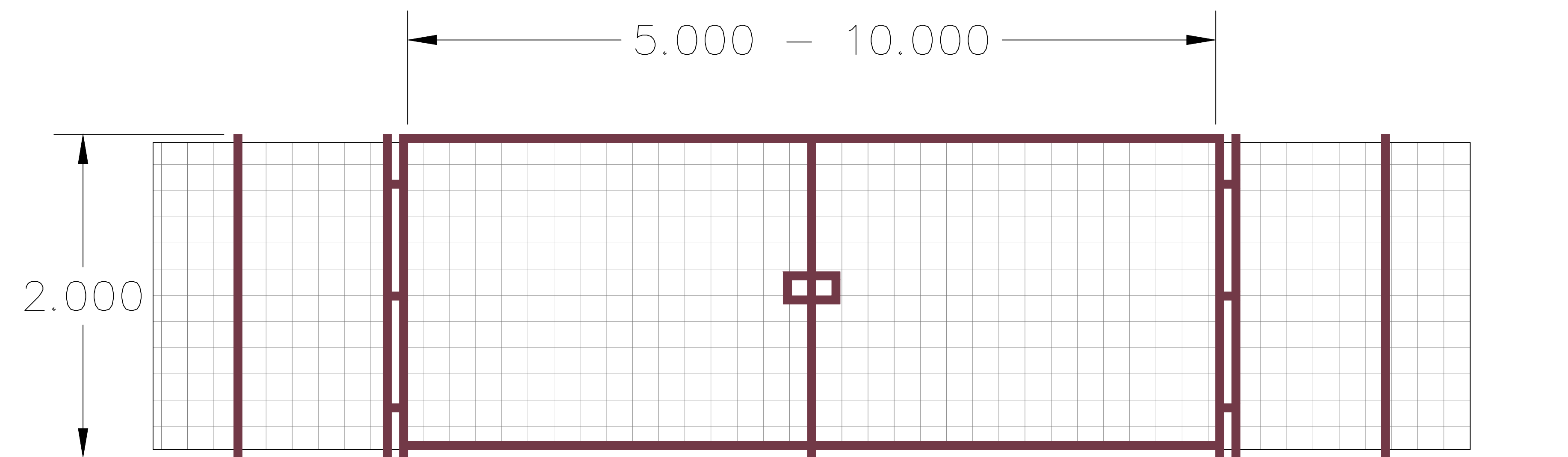
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Document Ref: 2.9 Revision: 1
PINS Number: EN010148 Drawing Status: DCO Application
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Timber post & wire fence



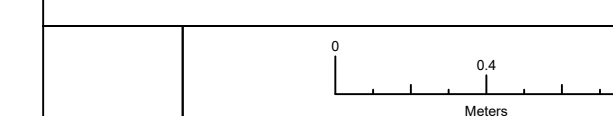
Timber post & wire gate

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- Notes:
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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Fence & Gate Details

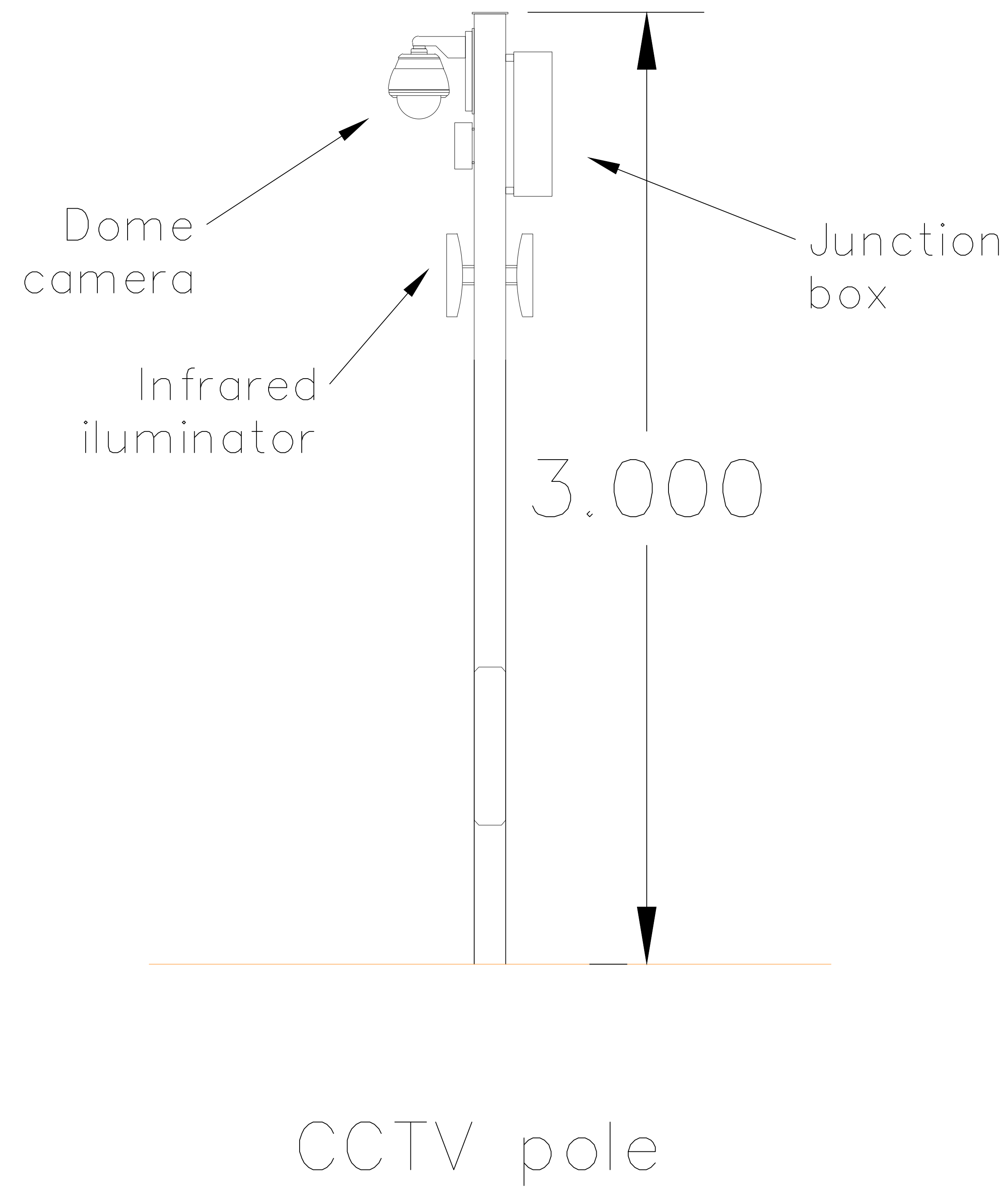


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Projection: N/A
Datum: N/A

Scale: 1:20 | Paper Size: A0 | Sheet: 13 of 21

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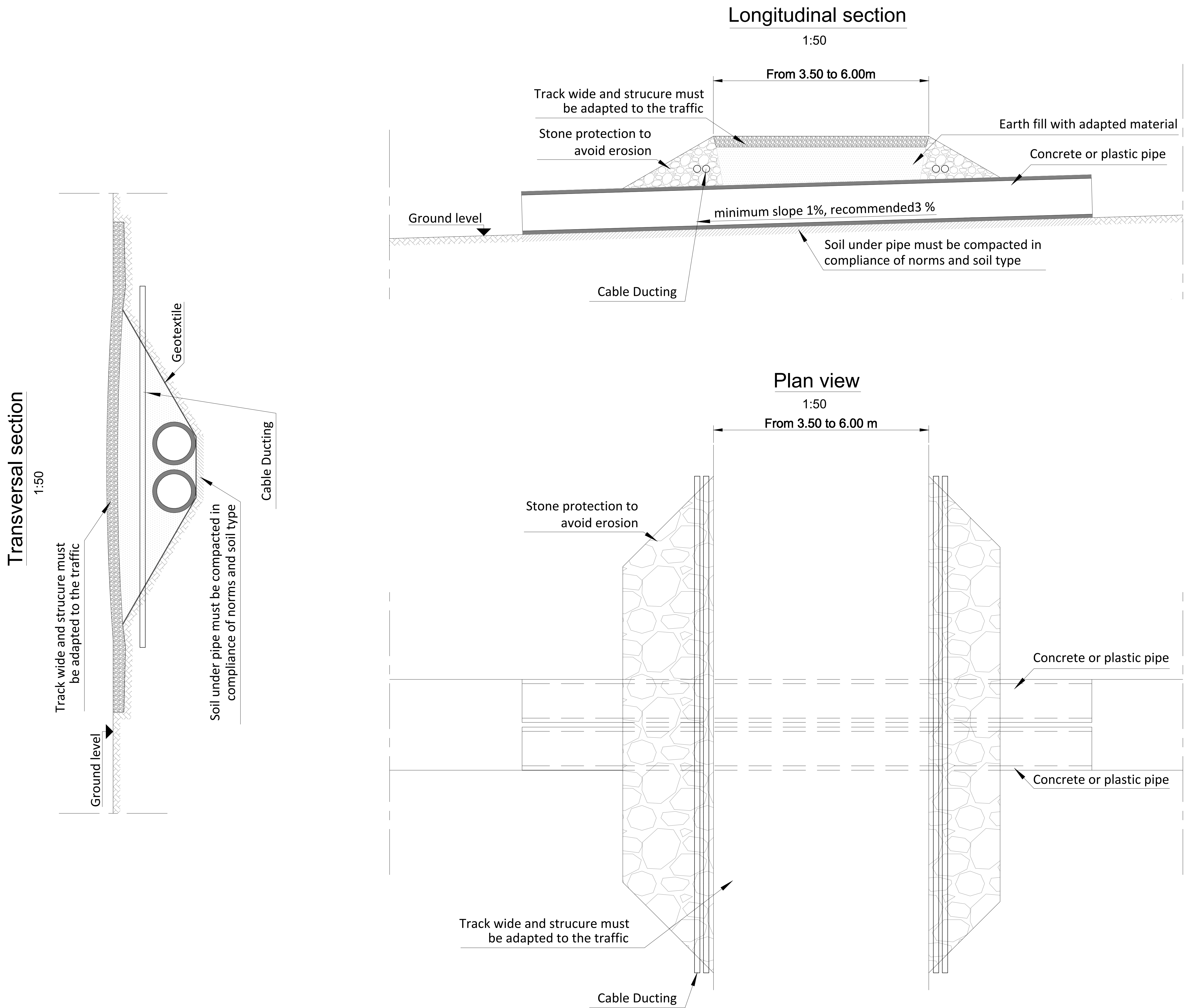
Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical CCTV Details

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:10 Paper Size: A0 Sheet: 14 of 21

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PINS Number: EN010148 Drawing Status: DCO Application
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Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Culvert Crossing

Coordinate System: N/A
Projection: N/A
Datum: N/A

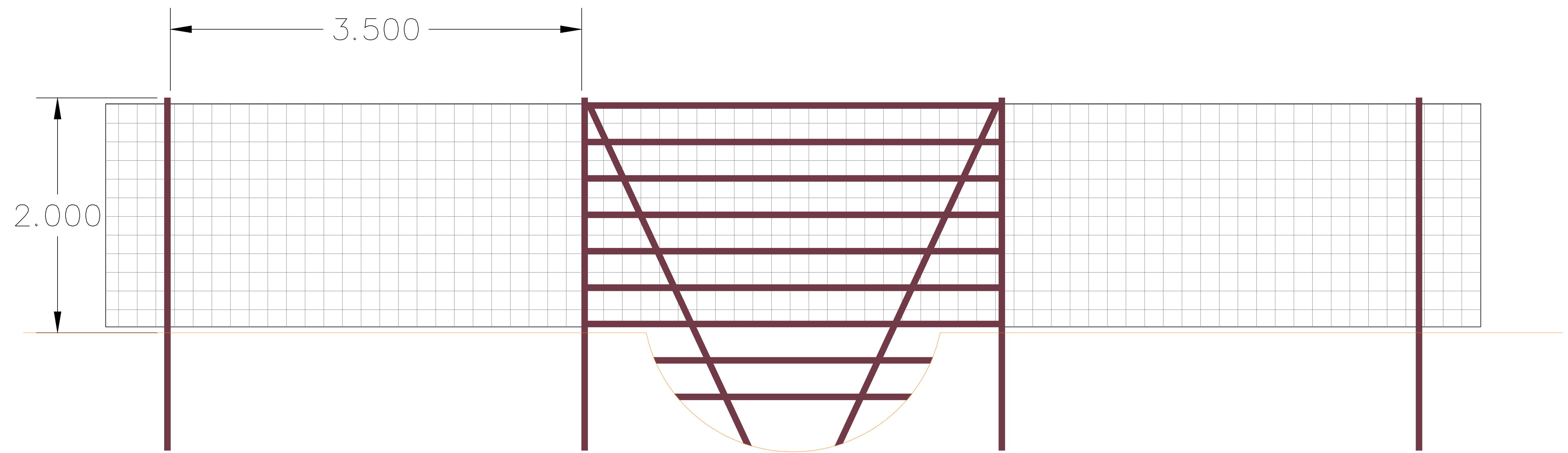
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Sheet: 15 of 21

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Document Ref: 2.9
Revision: 1

PINS Number: EN010148
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Checked: AD
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Timber post & wire fence – ditch crossing
Not to be used for IDB drains

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1. All details are indicative only.
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 3. Fence crossing not to be used for IDB drains.

Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Fence Detail - Ditch Crossing

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:20

Paper Size: A0

Sheet: 16 of 21

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PINS Number: EN010148

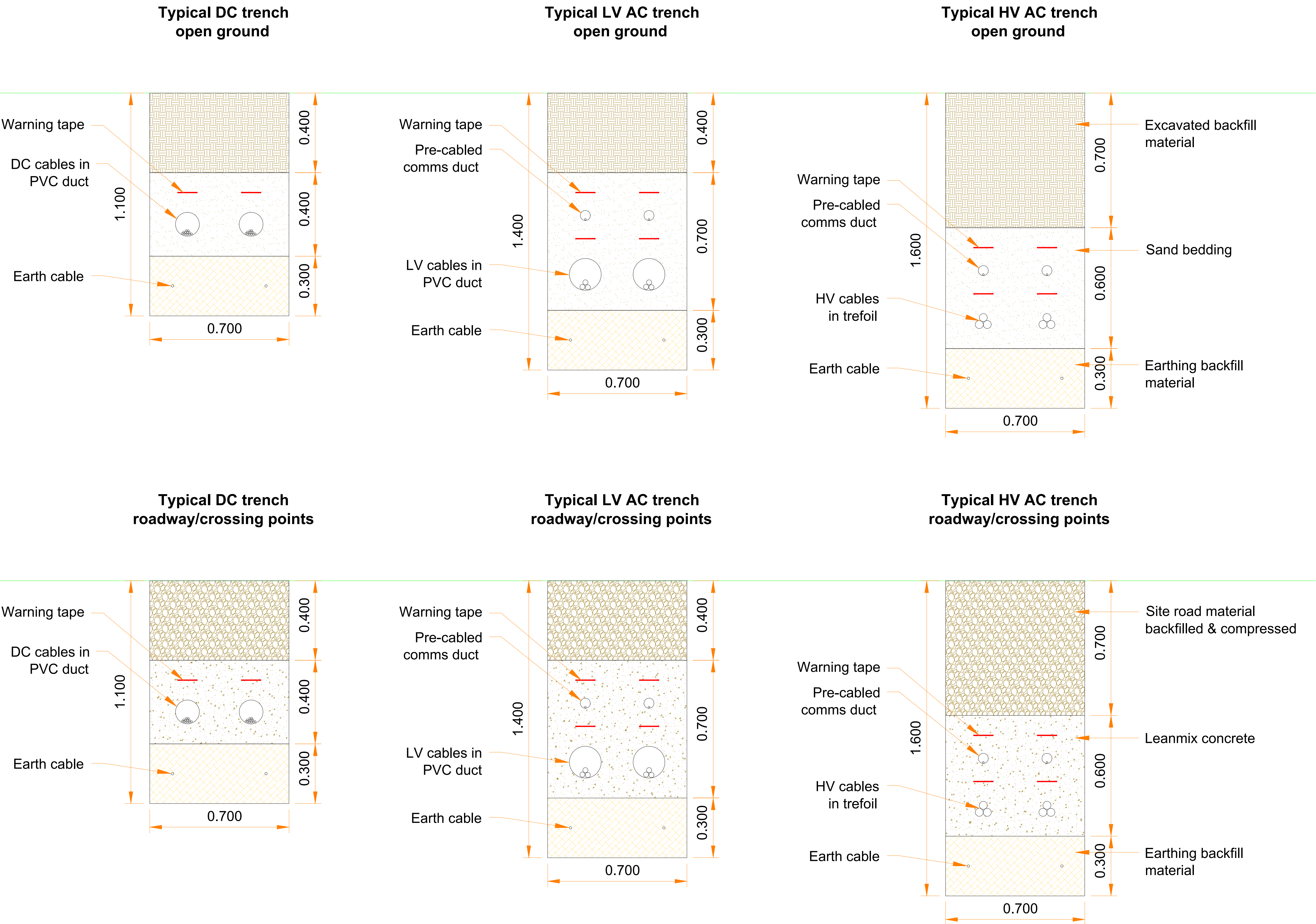
Drawing Status: DCO Application

Drawn: MP

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Approved: MB

Date: 18/08/2025



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Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Cable Trench

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:10 Paper Size: A0 Sheet: 17 of 21

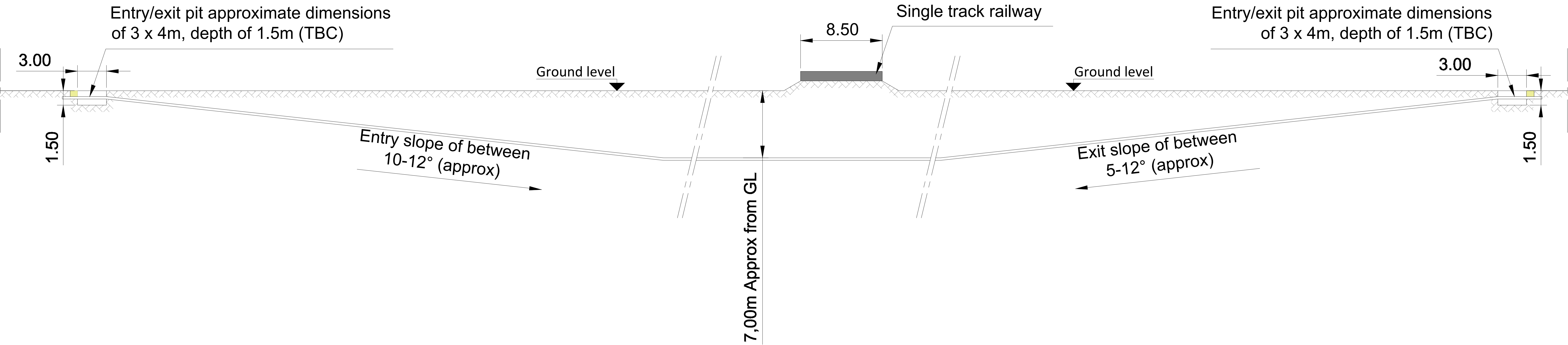
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Document Ref: 2.9 Revision: 1

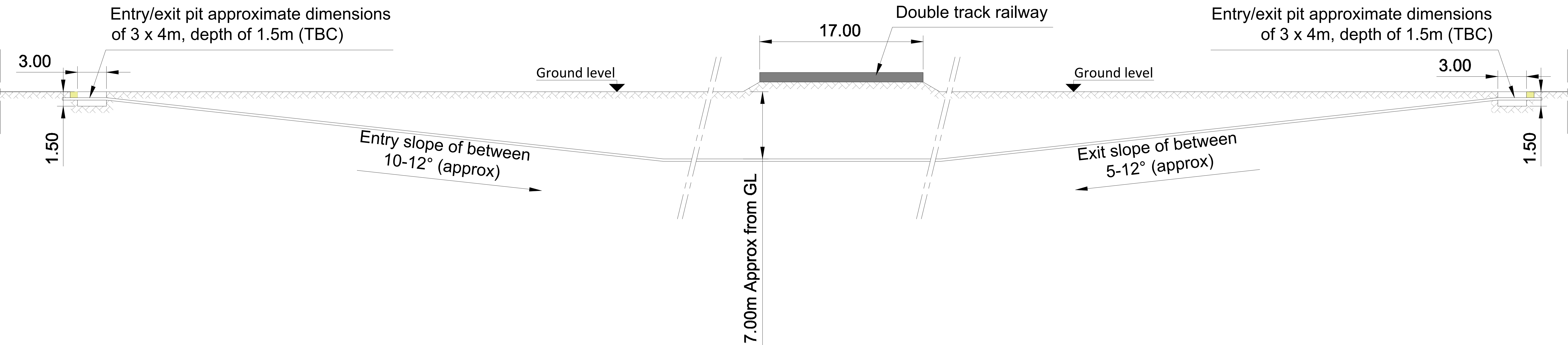
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Non-Intrusive Cable Crossing – Single Track Railway



Non-Intrusive Cable Crossing – Double Track Railway



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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Railway Cable Crossing

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:175
Paper Size: A0
Sheet: 18 of 21

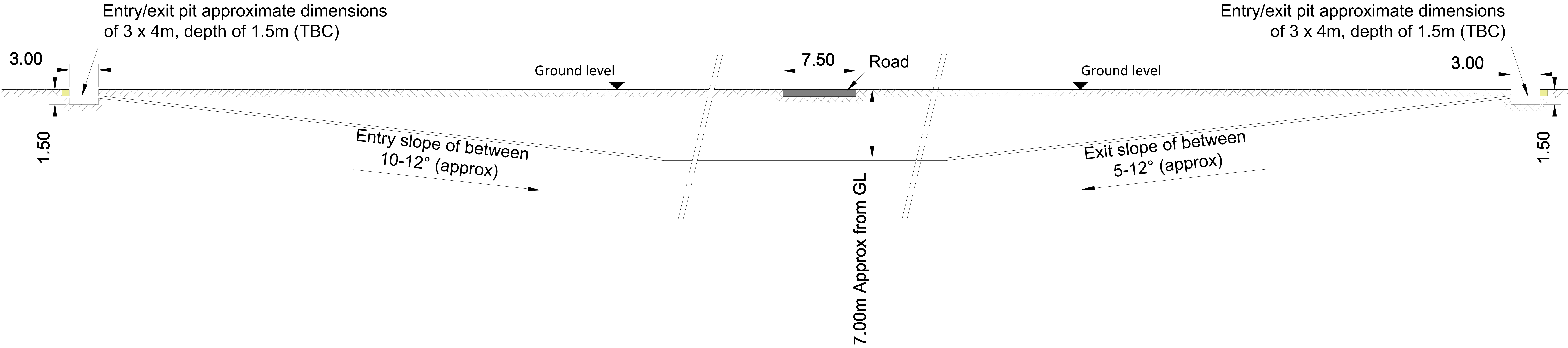
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Document Ref: 2.9
Revision: 1

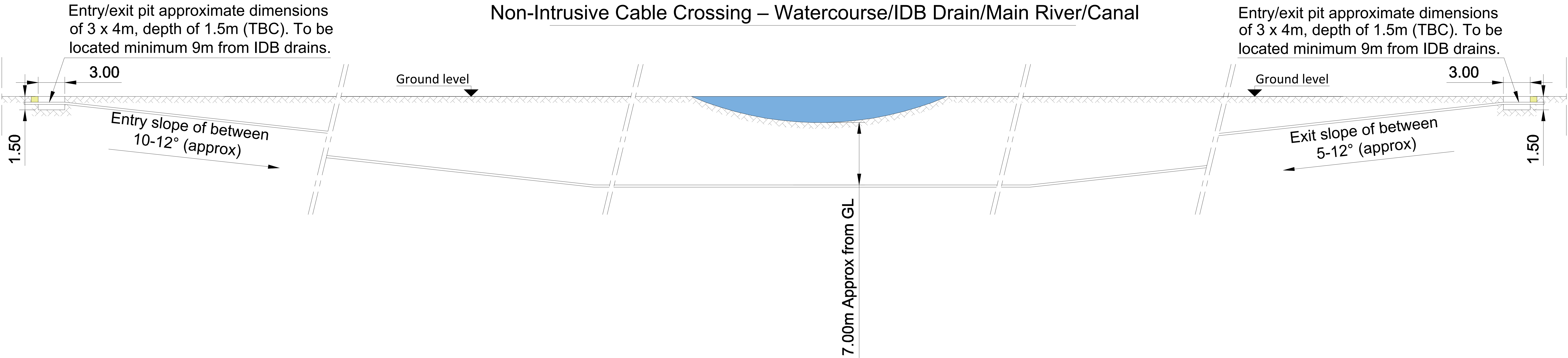
PINS Number: EN010148
Drawing Status: DCO Application

Drawn: MP
Checked: AD
Approved: MB
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Non-Intrusive Cable Crossing - Road



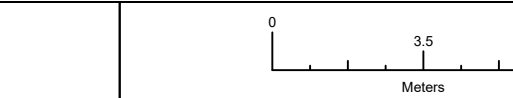
Non-Intrusive Cable Crossing – Watercourse/IDB Drain/Main River/Canal



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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Non-Intrusive Cable Crossing



Coordinate System: N/A
Projection: N/A
Datum: N/A

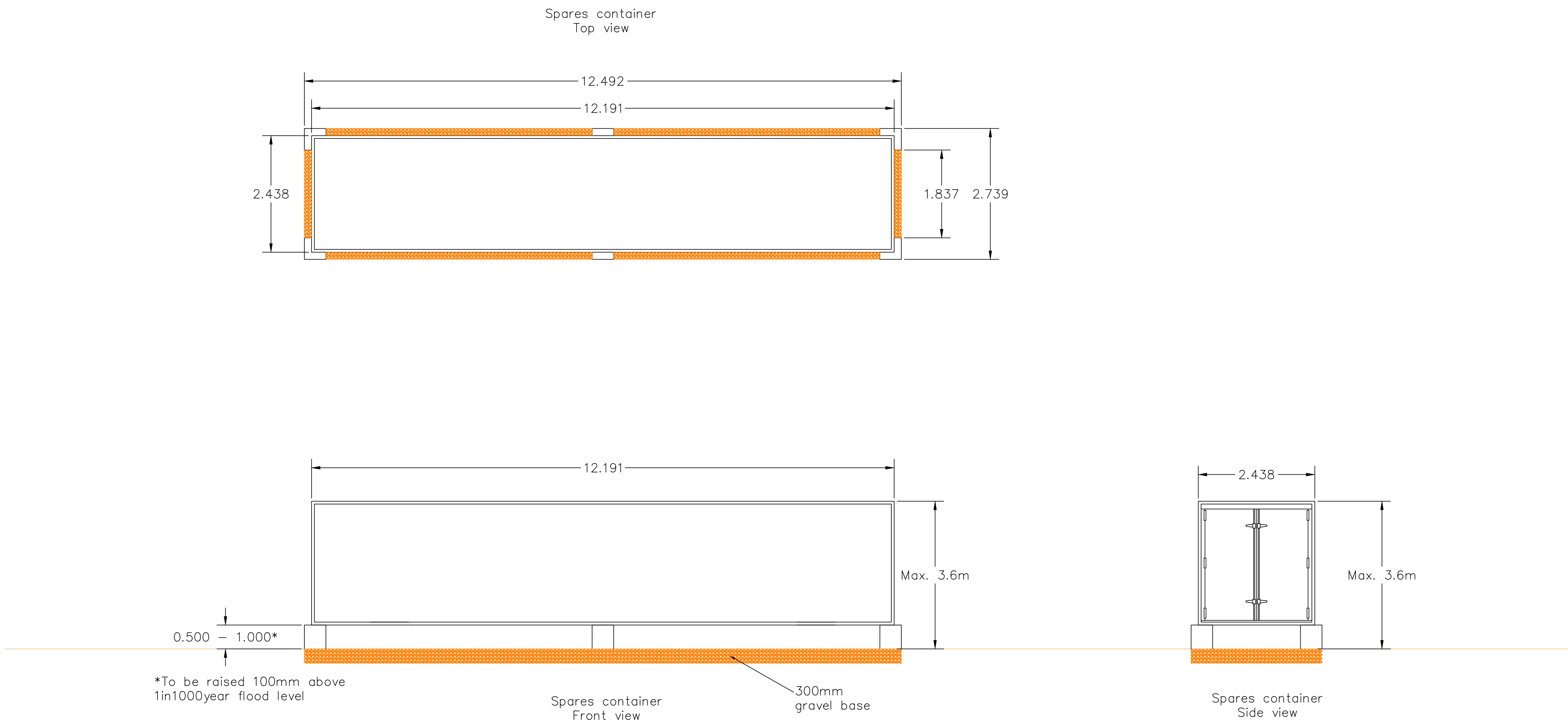
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Sheet: 19 of 21



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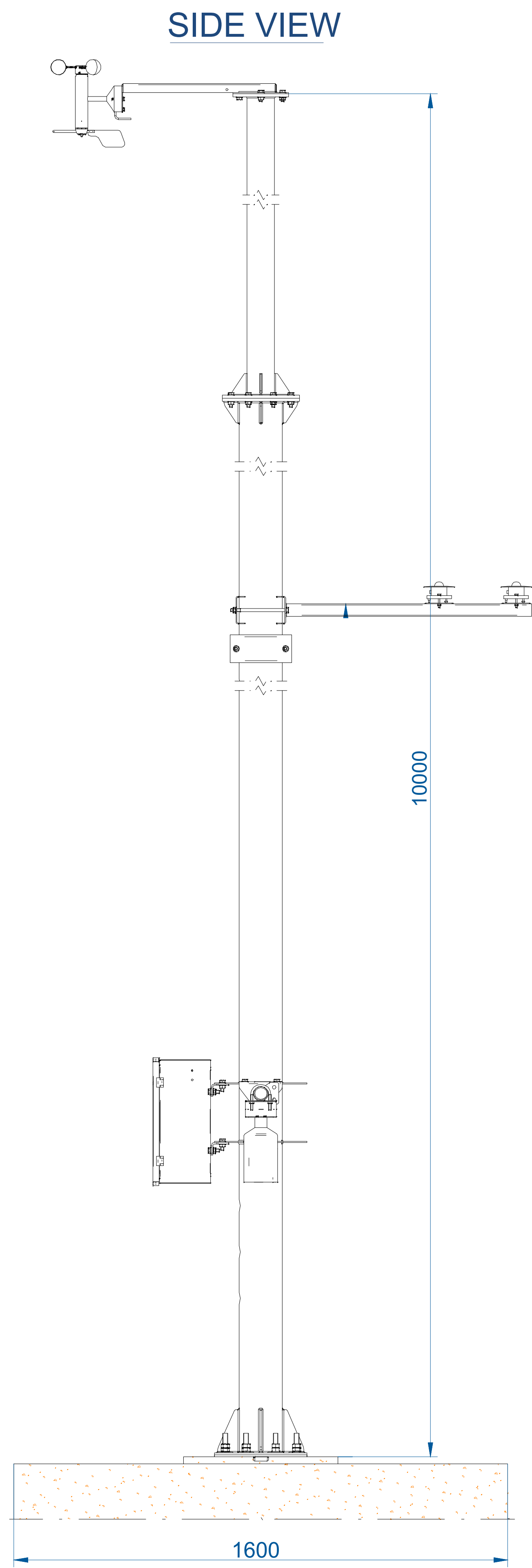
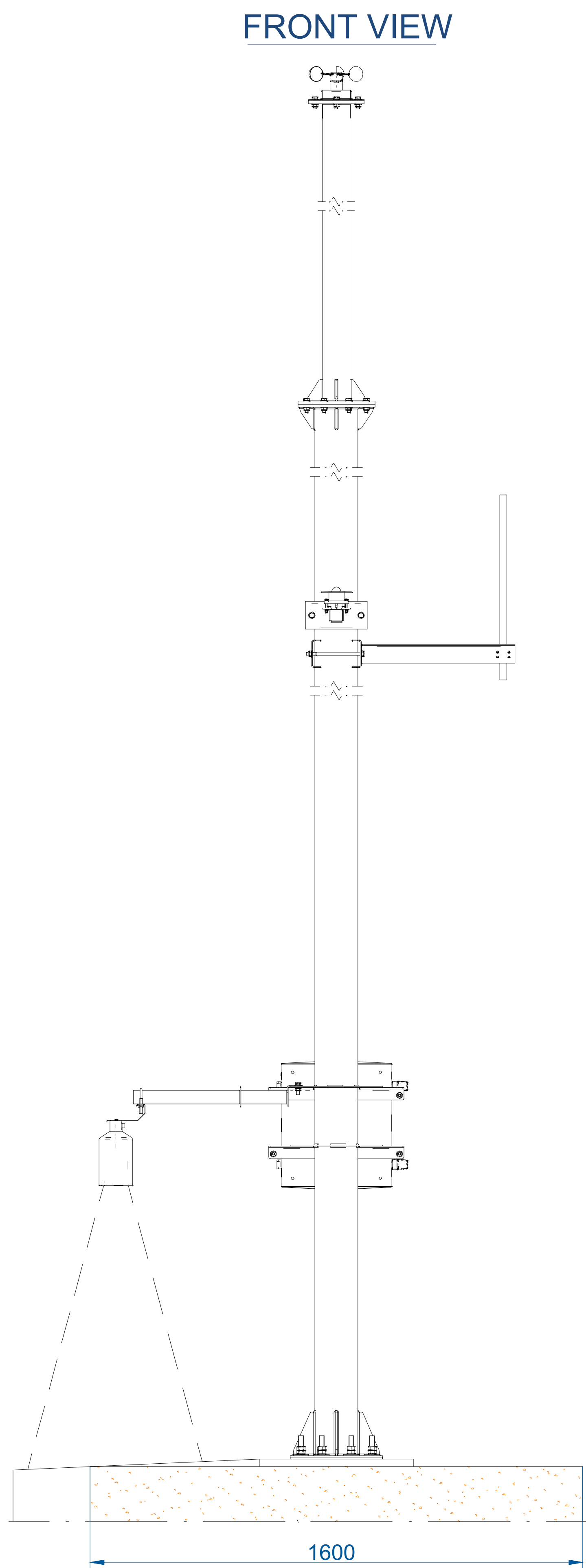
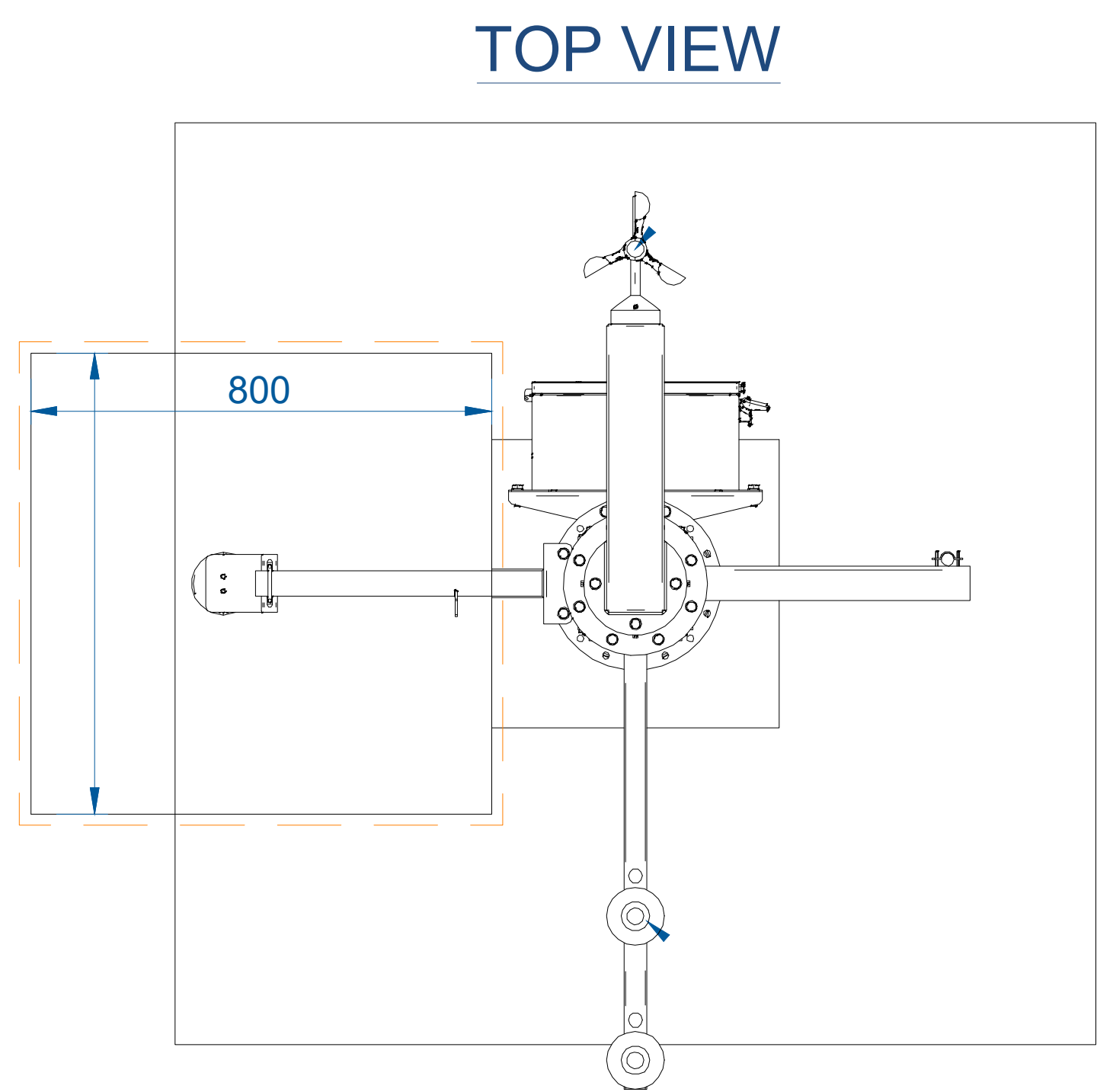
Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Spares Container

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:50
Paper Size: A0
Sheet: 20 of 21

RWE

Document Ref: 2.9
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Tween Bridge Solar Farm

Figure 2.9: Indicative Layout and Cross Section Plans
Drawing Ref: Typical Weather Station

Coordinate System: N/A
Projection: N/A
Datum: N/A

Scale: 1:10 Paper Size: A0 Sheet: 21 of 21

RWE

Document Ref: 2.9 Revision: 1

PINS Number: EN010148 Drawing Status: DCO Application

Drawn: MP Checked: AD Approved: MB Date: 18/08/2025