

28/07/2022

K25 Productions PTY LTD

LEVEL 32
580 GEORGE STREET,
SYDNEY NSW 2000
AUSTRALIA

ATTENTION: Charlie Revai & David Watts

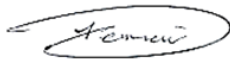
**STRUCTURAL DESIGN CERTIFICATE FOR
TEMPORARY STRUCTURES**

PROJECT: The Fall Guy
STRUCTURE: 135m (L) x 18m (H) Container Wall with Timber Framing
LOCATION: P5 Sydney Olympic Park Car Park - Hill Road and, Holker St, Sydney
Olympic Park NSW 2127
DURATION: 3rd October 2022 – 28th February 2023

We Event Engineering, being professional Chartered Structural Engineers within the meaning of the National Construction Code (NCC) of Australia, confirm that we have been appointed as the engineers responsible for the Structural Certification of the above project. We certify that the design, subject to the limitations listed within this certificate, is in accordance with the relevant provisions of the standard building codes of Australia, accepted engineering practice and principles and the design methods for *Temporary Demountable Structures* as per the *Guidance on Procurement, Design and Use of Temporary Demountable Structures* (Institution of Structural Engineers, 2017).

We advise that the maximum design 3 second wind gust speed for the above structure is 37m/s, in accordance with the minimum requirements set forth by AS1170.2:2011 (Clause 2.3) Should the wind speed approach this speed, the safety steps identified within this certificate must be implemented.

We note that this certification is effective only for the dates specified and that further review and certification will be required if the design is modified in any way. This certificate shall not be construed as relieving any other party of their responsibilities, liabilities or contractual obligations. This certificate is applicable only for this installation and relies upon all other risk assessments, WHS requirements and job safety statements associated with this project.



Damian Ferrari
B.Eng (Civil) (Hons)
B.Env.Sc
STRUCTURAL ENGINEER



Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAust CPEng NER 3468223 (Civil & Structural)
APEC Engineer IntPE(Aus) RPEQ 14767
PE 657 (Civil Engineer)
SENIOR ENGINEER

1. REFERENCED STANDARDS

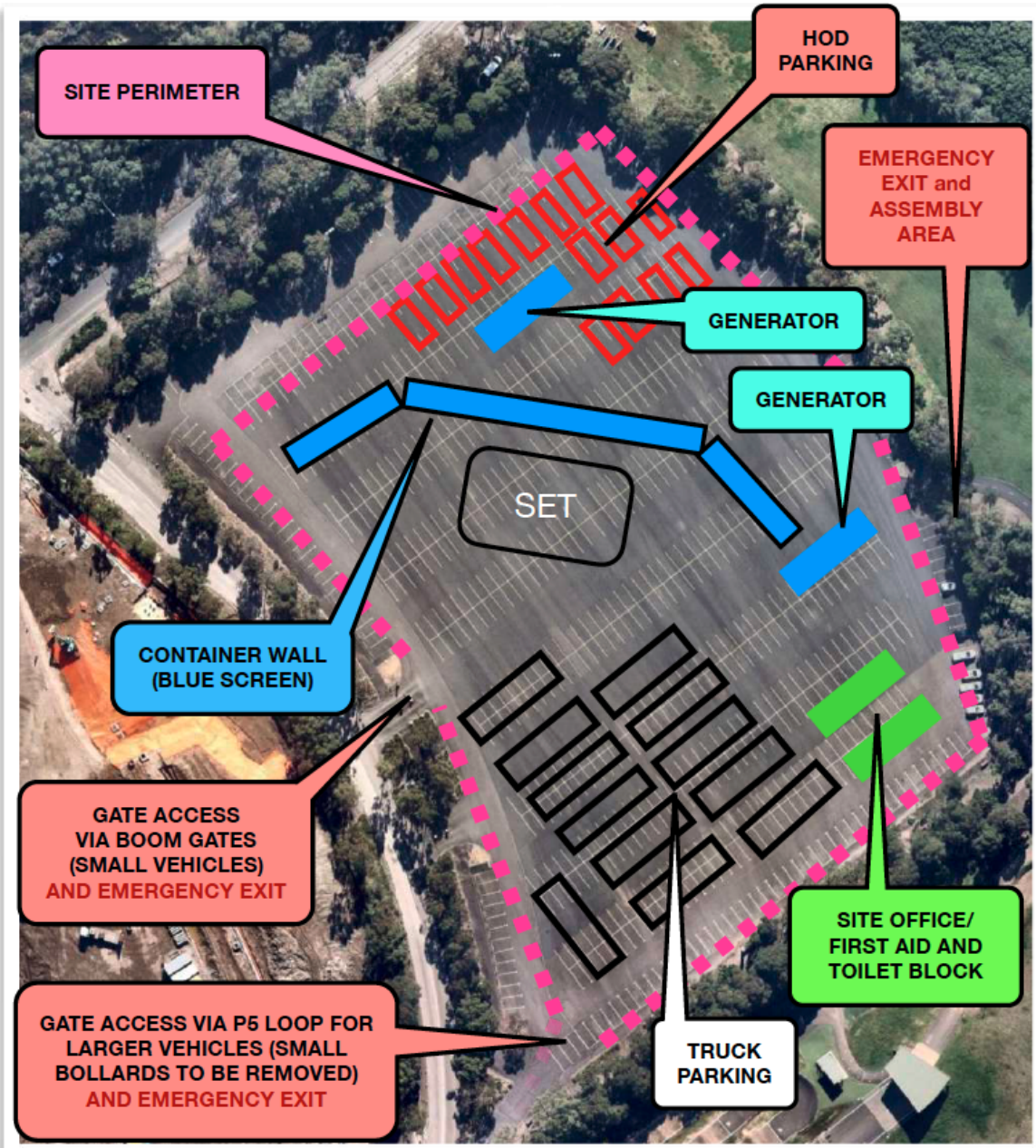
- 1.1. **ABCB:2015** Temporary Structures Standard;
- 1.2. **AS1170.0:2002** General principles;
- 1.3. **AS1170.1:2002** Permanent, imposed and other actions;
- 1.4. **AS1170.2:2011** Wind actions;
- 1.5. **AS1720.1:2010** Timber structures;
- 1.6. **AS3600:2018** Concrete Structures;
- 1.7. **AS4100:1998** Steel Structures;
- 1.8. **IStructE:2017** Temporary Demountable Structures.

2. ATTACHMENTS

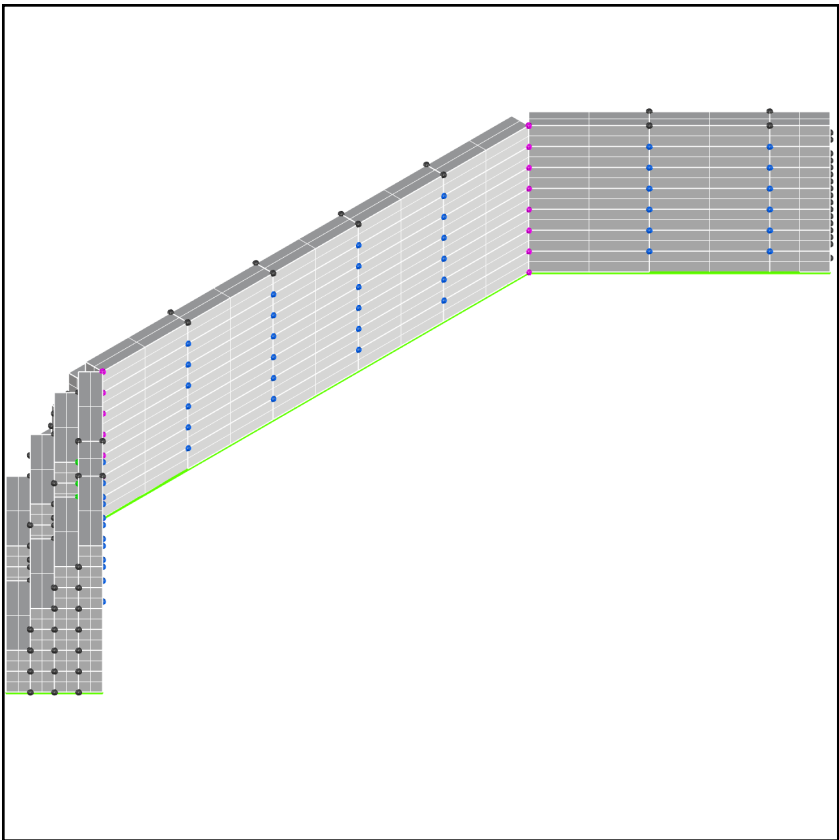
Att. No.	Title Reference	Issued By	No. Pages
1	Fall Guy Container Wall - 220728-EE22 463-FG-CW REV A	Event Engineering	2

3. DESIGN LIMITATIONS & REQUIREMENTS

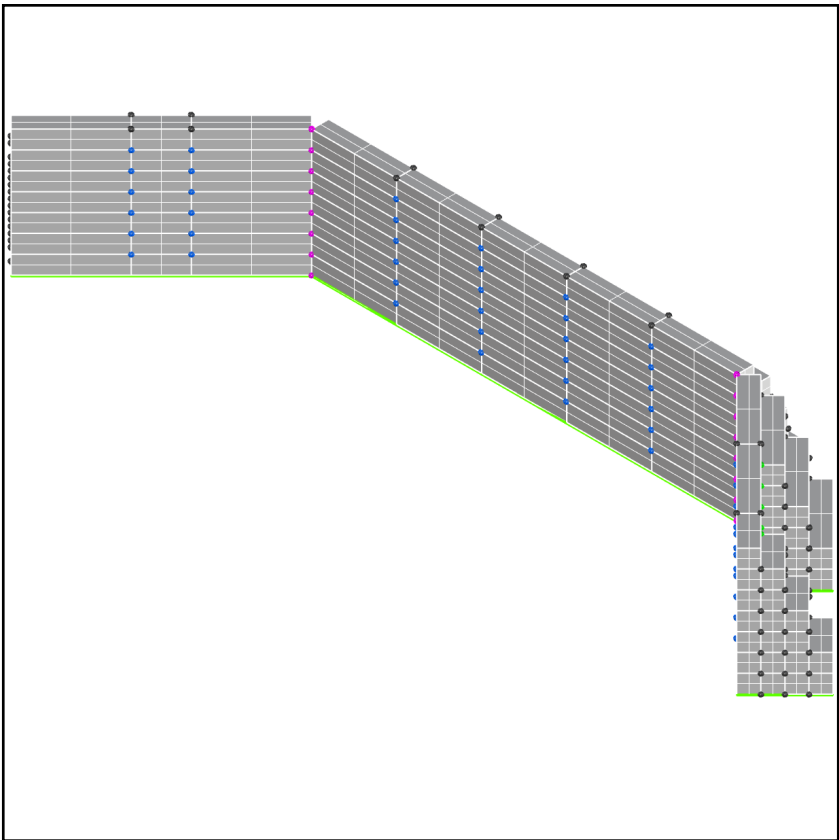
- 3.1. **Maximum Loading:**
 - 3.1.1. **Dead:**
 - 3.1.1.1. Timber cladding: 0.25kPa (25kg/m);
 - 3.1.2. **Live:**
 - 3.1.2.1. Container Roof Access: 0.75kPa (75kg/m);
- 3.2. **Minimum Ballast:** *Refer to attached drawing for ballast arrangement.*
 - 3.2.1. 175 Tonne total;
- 3.3. **Member Specifications:**
 - 3.3.1. 20 & 40-Foot Shippings with concrete levelling plinth;
 - 3.3.2. Builders plastic to be placed below concrete;
- 3.4. **Minimum Fixings:**
 - 3.4.1. Containers to be secured in accordance with attached technical drawings;
- 3.5. **Catenary Loading:** No catenaries to be fixed to structures without review and approval by engineer;
- 3.6. **Rigging:** Certified rigging technicians must install and sign-off on all rigging;
- 3.7. **Bearing Capacity:** Minimum bearing capacity shall be 150kPa;
- 3.8. **Spreader Plates:** To be provided beneath all structural support struts;
- 3.9. **Workshop Drawings:** Shall be submitted for engineer's written approval prior to any additional fabrication or further modifications;
- 3.10. **Wind Management Plan:**
 - 3.10.1. The wind speed must be measured on site by an anemometer or the nearest weather station;
 - 3.10.2. If the wind speed approaches 20m/s, personnel must go on standby to implement an evacuation;
 - 3.10.3. If the wind speed approaches 22m/s, all non-essential personnel must be evacuated;
 - 3.10.4. If the wind speed approaches 25m/s, all structures must be abandoned and all personnel moved within a permanent structure of importance level 2-4 as specified within the BCA.



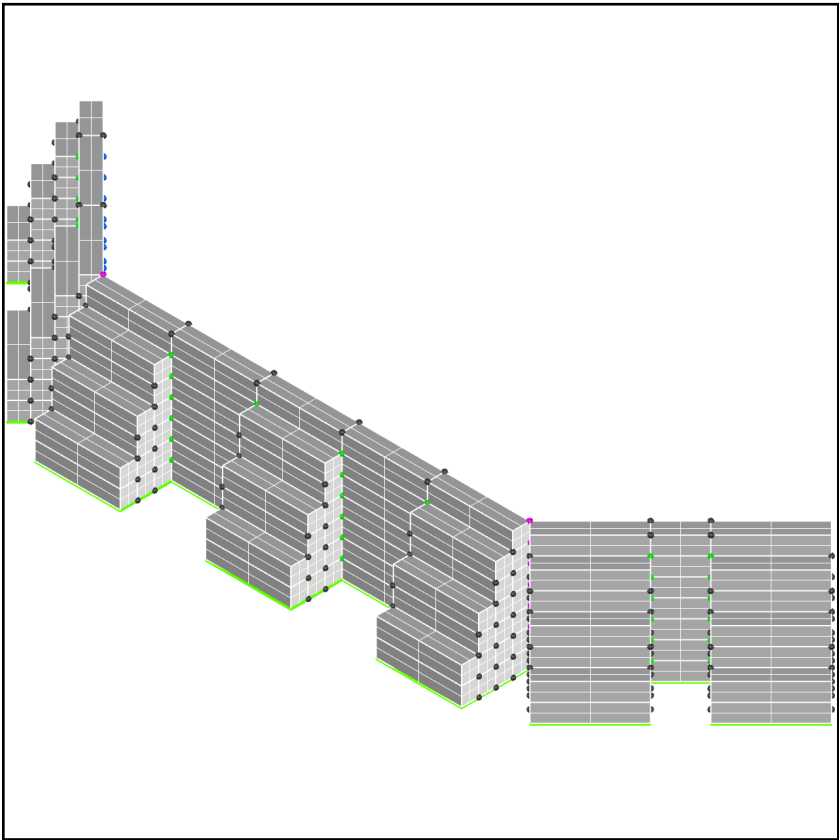
SITE PLAN



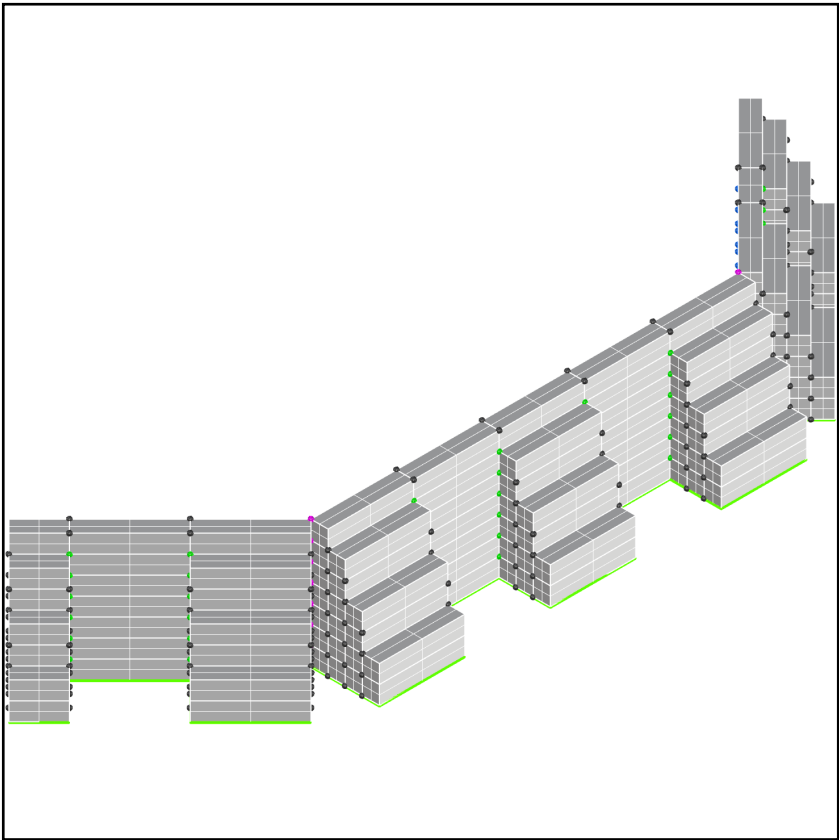
ISOMETRIC 1



ISOMETRIC 2



ISOMETRIC 3



ISOMETRIC 4

DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

EVENT
ENGINEERING

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REV.	ISSUE / AMENDMENT	BY	APP.	DATE
A	PRELIMINARY	MLS	MS	28/07/2022

DRAWN: _ _ _ M. L. SHEEHY _ _ _ 28/07/2022
DESIGNED: _ _ _ D. FERRARI _ _ _ 28/07/2022
DRG CHECK: _ _ _ M. SHEEHY _ _ _ 28/07/2022
DESIGN CHK: _ _ _ M. SHEEHY _ _ _ 28/07/2022
APPROVED: _ _ _ M. SHEEHY _ _ _ 28/07/2022

CLIENT

PROJECT
FALL GUY

TITLE
SITE PLAN AND CONTAINER WALL

PRELIMINARY

SCALE AT A3
AS SHOWN

DATE
28/07/2022

JOB NO.
EE22 463

DRAWING NO.
S1.0

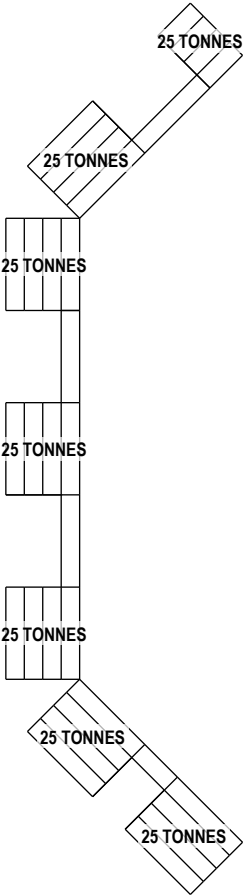
DESIGNED
MS

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MLS

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A

OUTER ARENA

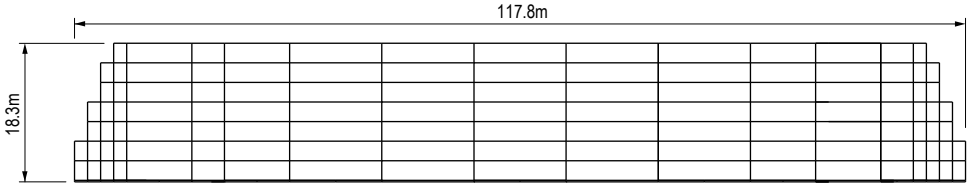
INNER ARENA



PLAN VIEW
SCALE 1:1000

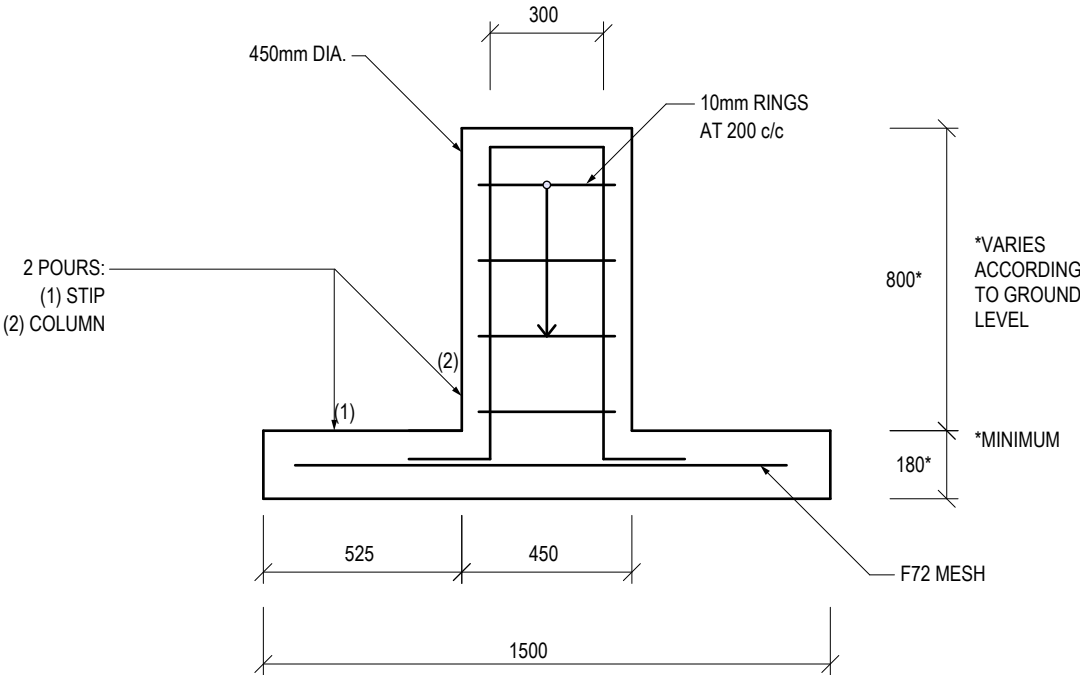
1
1.1

NOTES
- FILL BALLAST FROM OUTER CONTAINER FIRST.
- TOTAL BALLAST: 175 TONNES



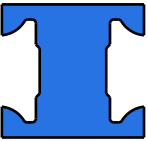
ELEVATION
SCALE 1:1000

A-A
1.1

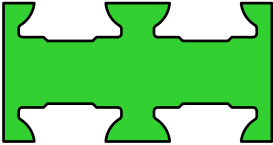


TYPICAL LEVELING DETAIL
NTS

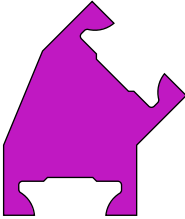
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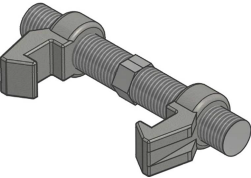
S PROFILE
20mm PLATE



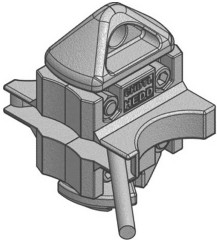
H PROFILE
20mm PLATE



45 PROFILE
20mm PLATE



BRIDGE LOCK



DOUBLE ENDED TWIST LOCK

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APPROVED:	M. SHEEHY	28/07/2022

CLIENT

PROJECT
FALL GUY

TITLE
CONTAINER WALL
BALLAST PLAN AND GENERAL ARRANGEMENT

PRELIMINARY

SCALE AT A3 AS SHOWN	DATE 28/07/2022	DESIGNED MS
JOB NO. EE22 463	DRAWING NO. S1.1	DRAWN MLS
		AMDT. A