Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6700/2022/1
Works approval holder	Tellus Holdings Ltd
ACN	138 119 829
Registered business address	Level 10 Suite 2, 151 Castlereagh Street, SYDNEY NSW 2000
DWER file number	DER2021/000678
Duration	13/12/2022 to 13/12/2027
Date of issue	13/12/2022
Premises details	Sandy Ridge Facility Crown lease O289974 granted by the State of Western Australia to Tellus Holdings Ltd in respect of Lot 510 on Deposited Plan 413497, Whole Volume 3169 Folio 365 Mining lease M16/574 held by Tellus Holdings Ltd 102.5 km north of Great Eastern Highway, via Access Reserve 44102, Boorabbin WA 6429

Prescribed premises category description (Schedule 1, ***Environmental Protection Regulations 1987***)	**Assessed production / design capacity**
Category 61: Liquid Waste Facility	100,000 tonnes (combined) per annual period
Category 61A: Solid Waste Facility	
Category 65: Class IV secure landfill site	280,000 tonnes (combined) per annual period
Category 66: Class V intractable landfill site	

This works approval is granted to the works approval holder, subject to the attached conditions, on 13 December 2022, by:

Abbie Crawford

Digitally signed by Abbie Crawford
Date: 2022.12.13 09:55:22 +08'00'

Abbie Crawford
A/MANAGER, WASTE INDUSTRIES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
13/12/2022	W6700/2022/1	Works approval granted.

Interpretation

In this works approval:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:

(i) if dated, refers to that particular version; and

(ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The works approval holder must:
   (a) construct the infrastructure and/or equipment;
   (b) in accordance with the corresponding design and construction requirements; and
   (c) at the corresponding infrastructure location;

as set out in Table 1.

Table 1: Infrastructure design and construction requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Stormwater catchment and retention	- Constructed in accordance with the *Project Quality Management Plan (QMP) – Sandy Ridge Development Project - Cell 2,3,4* (Tellus Holdings Ltd, June 2022) and the *Management Standard – Cell #2 Project - Design & Construct General Specification TSR2-4-PO-04700-EG-SPC-001* (Tellus Holdings Ltd, April 2022) - Surface water diversion channels installed to divert water away from waste cells and to the sediment pond as depicted in Figure 2 in Schedule 1 and in Figures 3, 5 and 6 in Schedule 2.	Constructed in the location shown in Figures 1 and 2 (Schedule 1)
2.	Stockpile storage areas	- Constructed in accordance with the *Project Quality Management Plan (QMP) – Sandy Ridge Development Project - Cell 2,3,4* (Tellus Holdings Ltd, June 2022) and the *Management Standard – Cell #2 Project - Design & Construct General Specification TSR2-4-PO-04700-EG-SPC-001* (Tellus Holdings Ltd, April 2022) - Detailed by the construction arrangement depicted in Figure 3 in Schedule 2.	Constructed in the location shown in Figure 2 (Schedule 1)

Critical containment infrastructure

2. The works approval holder must:
   (a) construct the critical containment infrastructure;
   (b) in accordance with the corresponding design and construction requirements; and
   (c) at the corresponding infrastructure location,

as set out in Table 2.

Table 2: Critical containment infrastructure design and construction requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Cell 2	- Constructed in accordance with the *Project Quality Management Plan (QMP) – Sandy Ridge Development Project - Cell 2,3,4* (Tellus Holdings Ltd, June 2022) and the *Management Standard – Cell #2 Project - Design & Construct General Specification TSR2-4-PO-04700-EG-SPC-001* (Tellus Holdings Ltd, April 2022) - Detailed by the construction arrangement depicted in Figures 3, 5 and 6 (Schedule 2). - Size to be no greater than 92 metres wide x 257 metres long x 30 metres deep. - The bottom of the waste cell to be a minimum of 5 metres above the underlying unweathered granite bedrock. - After the completion of controlled blasting (if required) and prior to excavation of the cell, an Air Dome is to be installed over the cell and is to remain in place during the remainder of construction.	Constructed in the location shown in Figures 1 and 2 (Schedule 1)
2.	Cell 4	As for Cell 2.	Constructed in the location shown in Figures 1 and 2 (Schedule 1)
3.	Cell 3	As for Cell 2.	Constructed in the location shown in Figures 1 and 2 (Schedule 1)
4.	Air Dome	- Constructed in accordance with the *Project Quality Management Plan (QMP) – Sandy Ridge Development Project - Cell 2,3,4* (Tellus Holdings Ltd, June 2022) and the *Management Standard – Cell #2 Project - Design & Construct General Specification TSR2-4-PO-04700-EG-SPC-001* (Tellus Holdings Ltd, April 2022) - Larger than the footprint of the excavated waste cell. - Inflated dome-shaped fabric structure, reinforced with cables. - Constructed in such a way that water from precipitation will not pool on the fabric. - Constructed using a fabric that is: o fire-retardant; and o anti-wicking, as measured by a "wicking of coated cloth" test	Installed over the active waste cell. Waste cell locations are to be constructed in the location shown in Figures 1 and 2 (Schedule 1)

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		performed in accordance with ASTM D 751 *Standard Test Methods for Coated Fabrics*. - Fitted with entry and exit doorway airlock. - Detailed by the construction arrangement depicted in Figure 4 (Schedule 2).	

Compliance reporting

3. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:

   (a) undertake an audit of their compliance with the requirements of condition 1; and

   (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

4. The Environmental Compliance Report required by condition 3, must include as a minimum the following:

   (a) certification by a suitably qualified Geotechnical Engineer, or suitably qualified Mechanical Engineer , as the case requires, that the items of infrastructure or component(s) thereof, as specified in condition 1 have been constructed in accordance with the relevant requirements specified in condition 1;

   (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

   (c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Critical containment infrastructure

5. The works approval holder must within 30 calendar days of the Critical Containment Infrastructure identified by condition 2 being constructed:

   (a) undertake an audit of their compliance with the requirements of condition 2; and

   (b) prepare and submit to the CEO a Critical Containment Infrastructure Report on that compliance.

6. The Critical Containment Infrastructure Report required by condition 5 must include as a minimum the following:

   (a) certification by a suitably qualified Geotechnical Engineer, or suitably qualified Mechanical Engineer, as the case requires, that each item of critical containment infrastructure or component thereof, as specified in condition 2, has been built and installed in accordance with the requirements specified in condition 2;

   (b) as constructed plans and a detailed site plan showing the location and dimensions for each item of critical containment infrastructure or component thereof, as specified in condition 2;

   (c) photographic evidence of the installation of the infrastructure; and

(d) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Records and reporting

7. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

   (a) the name and contact details of the complainant, (if provided);

   (b) the time and date of the complaint;

   (c) the complete details of the complaint and any other concerns or other issues raised; and

   (d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.

8. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

   (a) the works conducted in accordance with conditions 1 and 2;

   (b) any maintenance of infrastructure that is performed in the course of complying with conditions 1 and 2; and

   (c) complaints received under condition 7.

9. The books specified under condition 8 must:

   (a) be legible;

   (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

   (c) be retained by the works approval holder for the duration of the works approval; and

   (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 3 have the meanings defined.

Table 3: Definitions

Term	Definition
Air Dome	Retractable waste cell roof canopy and rail system installed over an operational waste cell, as described in condition 2.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
condition	a condition to which this works approval is subject under section 62 of the EP Act.
critical containment infrastructure	means the items of infrastructure listed in condition 0.
Critical Containment Infrastructure Report / "CCIR"	means a report to satisfy the CEO that works of critical containment infrastructure have been constructed in accordance with the works approval.
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.

Term	Definition
suitably qualified Geotechnical Engineer	means a person who: a) holds a Bachelor of Engineering recognised by the Institute of Engineers; and b) has a minimum of five years of experience working in a supervisory area of geotechnical engineering; and c) is employed by an independent third party external to the works approval holder's business; or is otherwise approved in writing by the CEO to act in this capacity.
suitably qualified Mechanical Engineer	means a person who: a) holds a Bachelor of Engineering recognised by the Institute of Engineers; and b) has a minimum of five years of experience working in a supervisory area of mechanical or structural engineering; and c) is employed by an independent third party external to the works approval holder's business; or is otherwise approved in writing by the CEO to act in this capacity.
waste	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

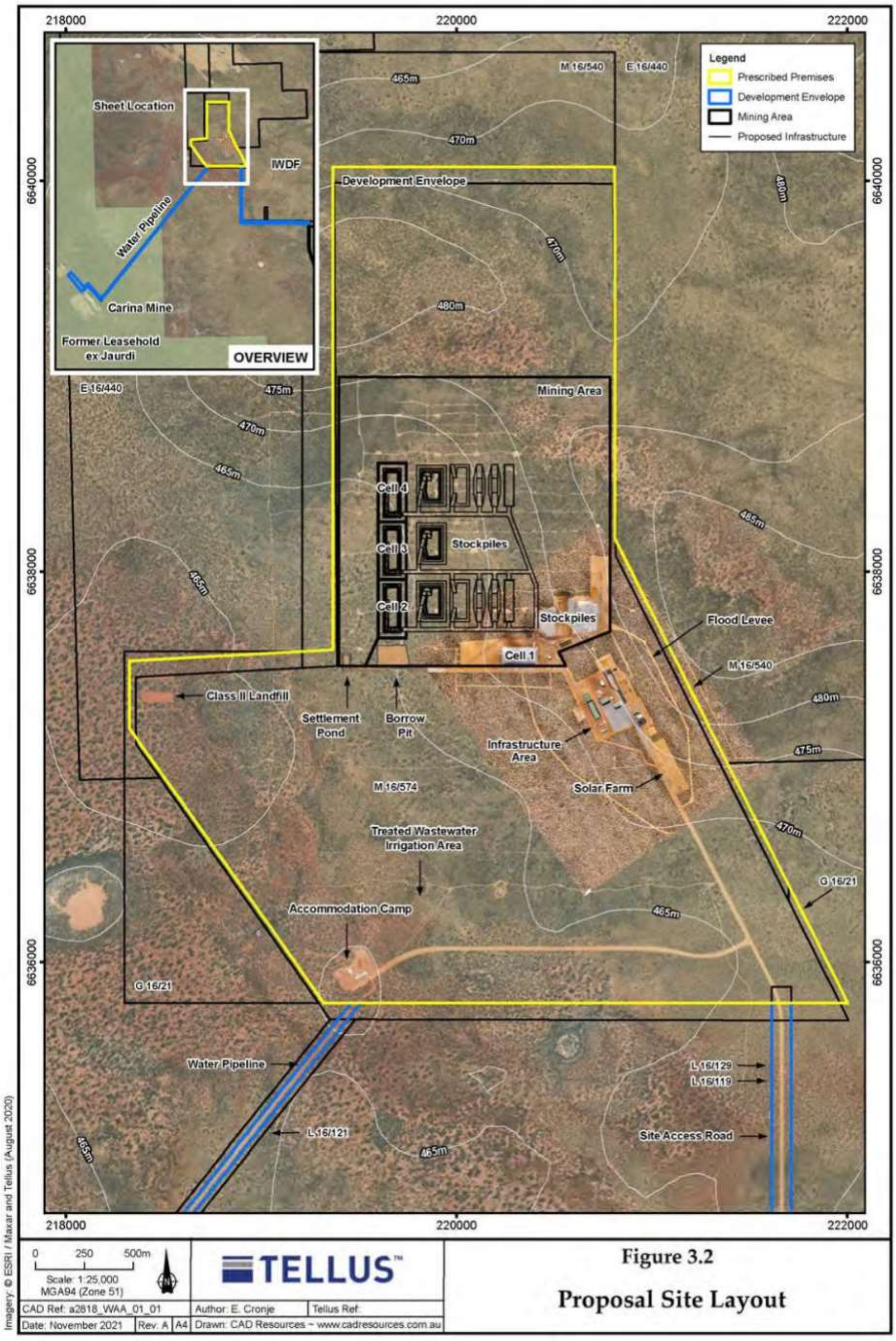

Figure 1: Map of the boundary of the prescribed premises

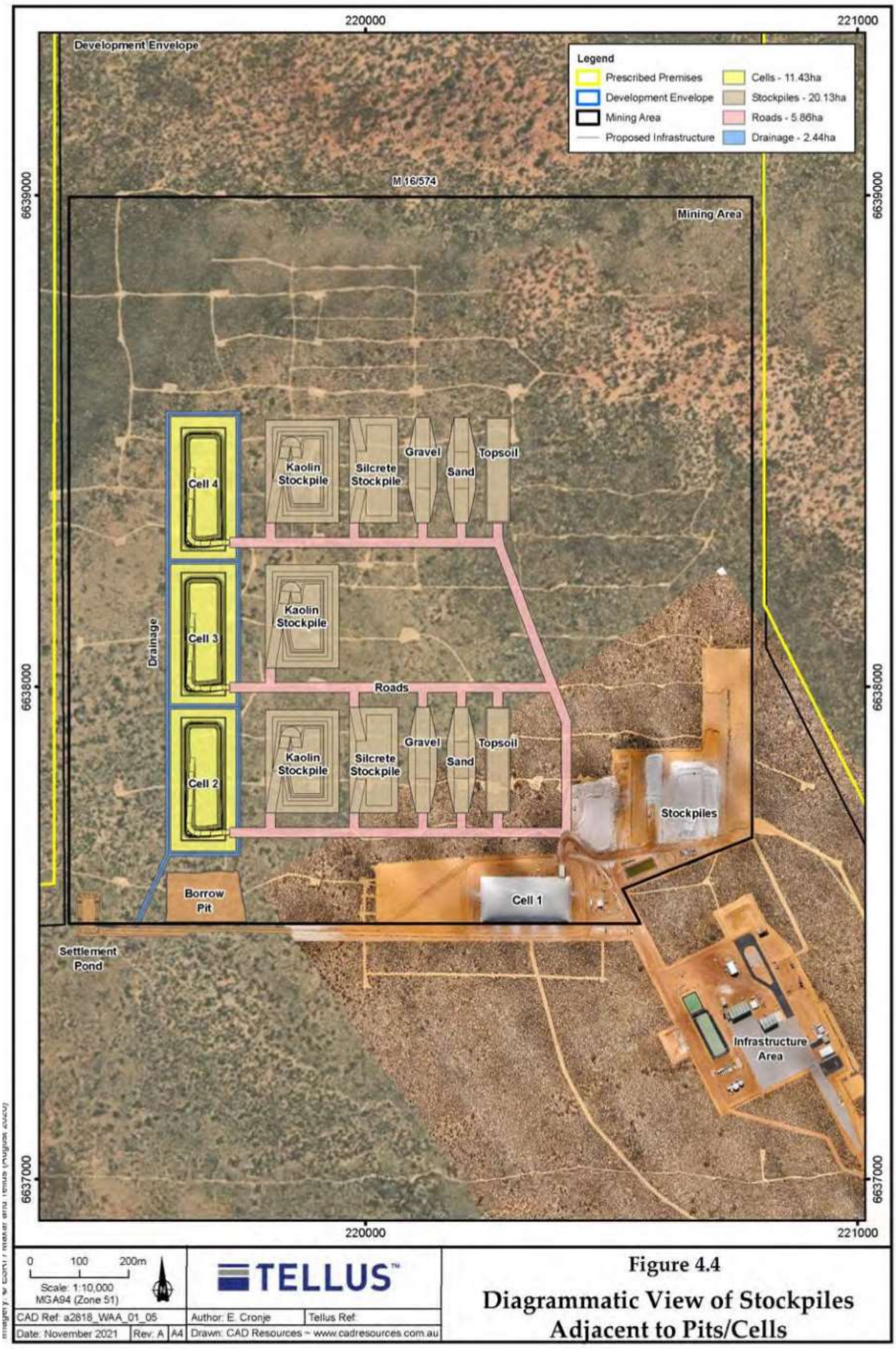

Figure 2: Infrastructure detail

Schedule 2: Infrastructure detail

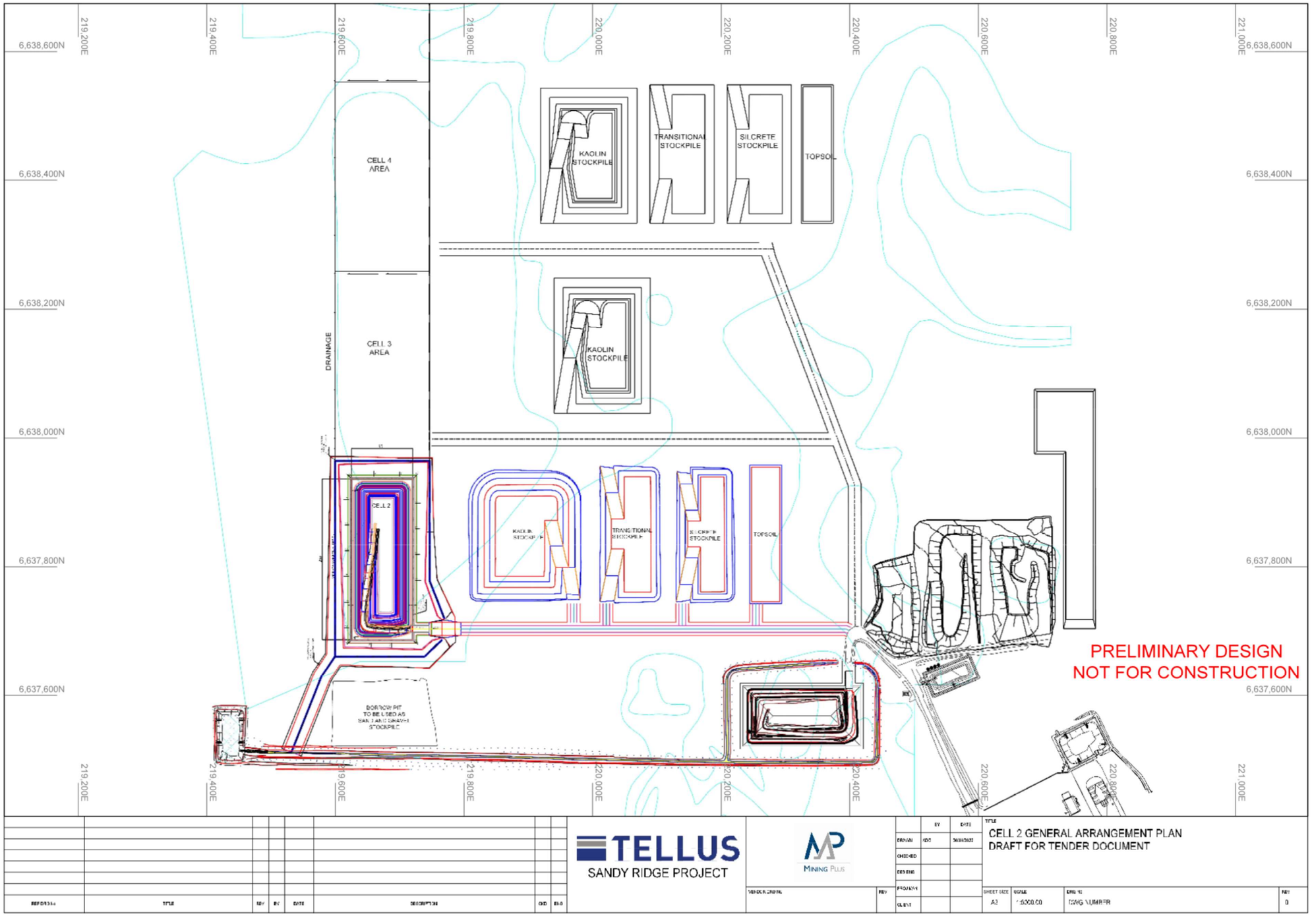

Figure 3: General arrangement plan

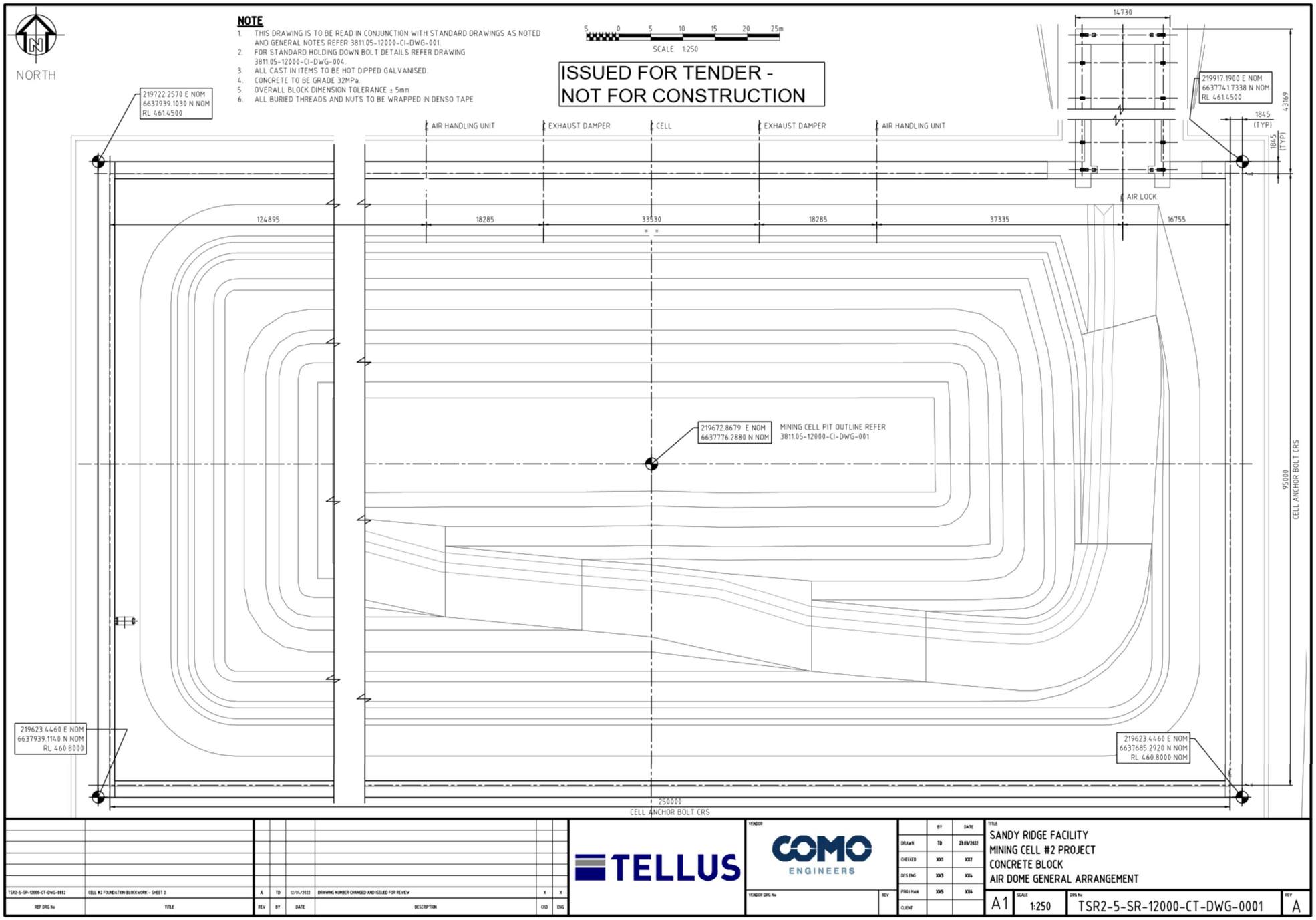

Figure 4: Air Dome general arrangement

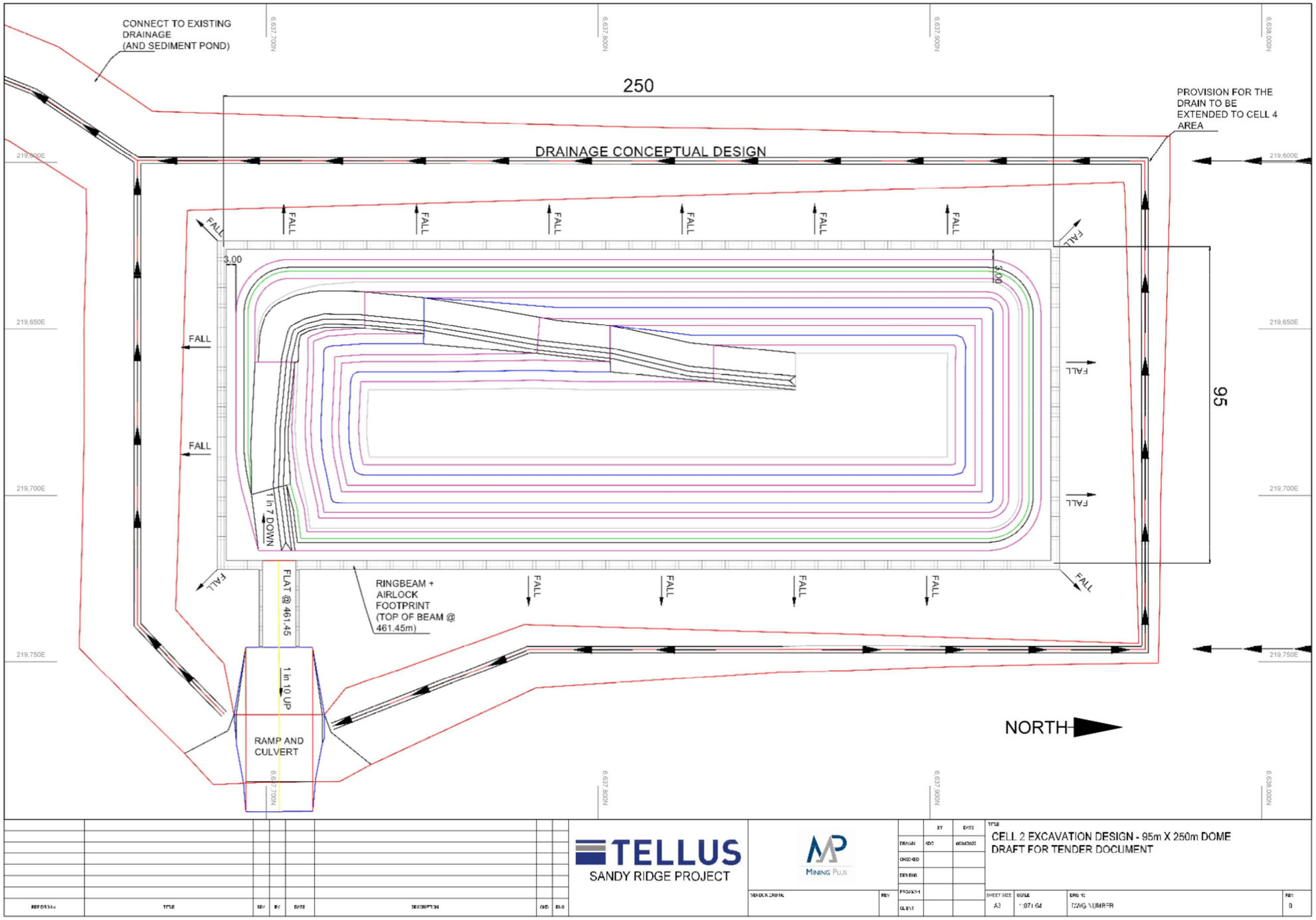

Figure 5: Cell 2 excavation design

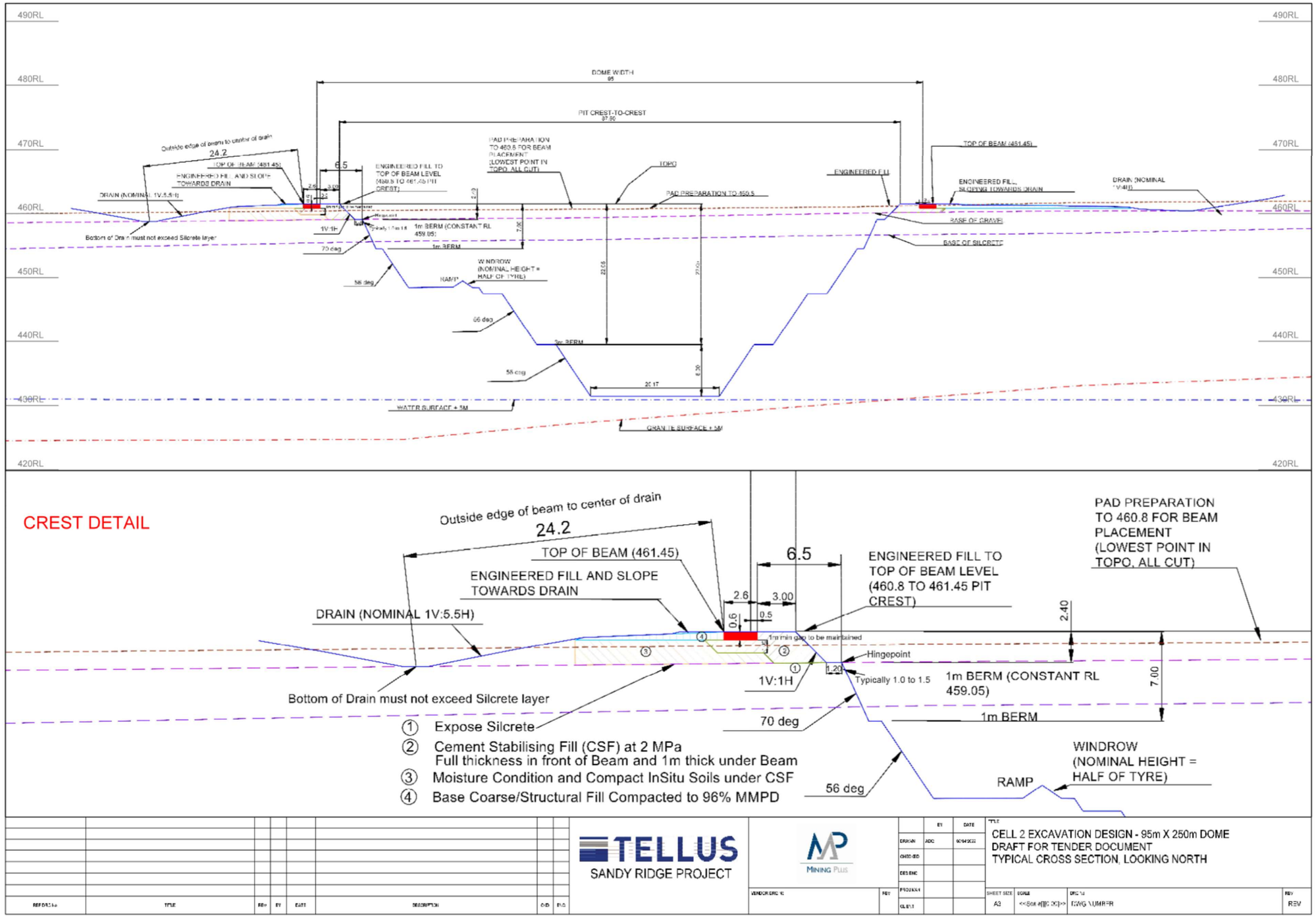

Figure 6: Cell 2 excavation design - cross section