



# Works Approval

Works approval number	W6893/2024/1
Works approval holder	Mid West Ports Authority
Registered business address	298 Marine Terrace GERALDTON WA 6530
DWER file number	INS-0002728
Duration	11/06/2024 to 11/06/2027
Date of issue	11/06/2024
Date of amendment	15/04/2025
Premises details	Geraldton Port – Lease 11 Truck Unloader 298 Marine Terrace GERALDTON WA 6530  Legal description - Part of Lot 503 on Deposited Plan 57801 As defined by the premises map and coordinates in Schedule 1.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )	Assessed production / design capacity
Category 58: Bulk material loading or unloading: premises on which clinker, coal, ore, ore concentrate, or any other bulk granular material (other than salt) is loaded onto or unloaded from vessels by an open materials loading system.	28,800 tonnes per day (cumulative); and 10,512,000 tonnes per annual period (cumulative)
Category 58A: Bulk material loading or unloading: premises on which salt is loaded onto or unloaded from vessels by an open materials loading system.	

This amended works approval is granted to the works approval holder, subject to the attached conditions, on 15 April 2025, by:

Tanya Johnston

**A/MANAGER, RESOURCE INDUSTRIES  
INDUSTRY REGULATION (STATEWIDE DELIVERY)**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

## Works approval history

Date	Reference number	Summary of changes
11/06/2024	W6893/2024/1	Works approval granted.
15/04/2025	W6893/2024/1 (APP-0028009)	Amendment to remove conditions relating to construction noise emissions.

## 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:

### Construction phase

#### Infrastructure and equipment

1. The works approval holder must:
  - (a) construct and/or install the infrastructure and/or equipment;
  - (b) in accordance with the corresponding design and construction / installation requirements; and
  - (c) at the corresponding infrastructure location, as set out in Table 1.

**Table 1: Design and construction / installation requirements**

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Truck unloader facility and conveyor system	<ol style="list-style-type: none"> <li>1. Must be fully enclosed structure with roller doors equipped on both ends for truck access;</li> <li>2. Conveyor CV402 must be installed within enclosed conveyor tunnel;</li> <li>3. Must be constructed in general accordance with Schedule 2: Construction drawings, Figure 3, Figure 4, Figure 5, Figure 6, and Figure 7; and</li> <li>4. Soil must be wetted down prior to and during excavation, handling, and stockpiling of soil to minimise dust liftoff.</li> </ol>	Labelled as 'New Truck Unloader – Enclosed Structure', as shown in Schedule 1: Maps, Figure 2.
	Baghouse dust extraction system	<ol style="list-style-type: none"> <li>1. Baghouse system must be installed with a designed collection efficiency of 99% or higher, capable of filtering dust particles down to a maximum emission of 25 mg/m<sup>3</sup> or less;</li> <li>2. Must be equipped with ventilation fan and automated filter cleaning system to maintain airflow; and</li> <li>3. Must be installed in accordance with manufacturer specifications and in general accordance with Schedule 2: Construction drawings, Figure 8 and Figure 9.</li> </ol>	Labelled as 'Dust Extraction Baghouse (Noise and Dust)', as shown in Schedule 1: Maps, Figure 2.
2.	Washdown water filtration system	<ol style="list-style-type: none"> <li>1. Must consist of sumps to collect washdown water generated from truck unloader facility and be connected to a buffer tank installed on hardstand for washdown water storage;</li> <li>2. Must be equipped with filtration membrane and ultraviolet sterilisation systems capable of removing suspended solids and disinfecting washdown water, respectively;</li> <li>3. Filtration membrane system must be equipped</li> </ol>	Labelled as 'Water Filtration Plant, as shown in Schedule 1: Maps, Figure 2.

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location
		<p>with automated cleaning capabilities;</p> <ol style="list-style-type: none"> <li>Must consist of a recycle water tank to store filtered washdown water and a sludge tank for filter sludge;</li> <li>Buffer tank, recycle water tank and sludge tank must be equipped with high-level alarm and high-high-level interlock; and</li> <li>Must be installed in accordance with manufacturer specifications.</li> </ol>	

2. The works approval holder must undertake the construction activities in accordance with the corresponding activity requirements for managing dewatering effluent as set out in Table 2.

**Table 2: Dewatering effluent management during construction activities**

Construction activities	Activity requirements	Activity location
Installation of dewatering spears and pipelines	<ol style="list-style-type: none"> <li>Dewatering pipeline must be double-skinned or banded to contain potential spills or leaks.</li> </ol>	Within the premises boundary, as depicted in Schedule 1: Maps, Figure 2.
Dewatering of groundwater	<ol style="list-style-type: none"> <li>Extent of soil excavation below the water table must be retained using sheet piling methodology prior to commencement of dewatering;</li> <li>Dewatering pipeline must be inspected at least once daily;</li> <li>Dewatering effluent must be pumped to a settling tank prior to disposal; and</li> <li>Settling tank must be equipped with a water level indicator.</li> </ol>	
Discharge of dewatering effluent	<ol style="list-style-type: none"> <li>Dewatering effluent may only be discharged to the environment: <ol style="list-style-type: none"> <li>at the dewatering effluent discharge location, as shown in Schedule 1: Maps, Figure 2; and</li> <li>after settling within a settlement tank.</li> </ol> </li> <li>Laboratory analysis of dewatering effluent, monitored in accordance with condition 3, must be scheduled for a turnaround time of three days (or less), with the laboratory certificate of analysis assessed against the limits specified in condition 3 within 12 hours of receipt;</li> <li>Discharge of dewatering effluent must be ceased as soon as practicable if there is an exceedance of limit, as specified in condition 3, where discharge may only recommence once dewatering effluent parameter concentrations comply with the limits specified in</li> </ol>	Labelled as 'Dewatering effluent discharge location', as depicted in Schedule 1: Maps, Figure 2.

Construction activities	Activity requirements	Activity location
	condition 3; and 4. Volume of dewatering effluent discharged must be measured.	

3. The works approval holder must monitor dewatering effluent for concentrations of the parameters listed in Table 3:
- (a) at the corresponding monitoring location;
  - (b) in the corresponding unit;
  - (c) at the corresponding limit of reporting (or less);
  - (d) at the corresponding averaging period;
  - (e) at no less than the corresponding frequency; and
  - (f) must not exceed the corresponding limit,
- as set out in Table 3.

**Table 3: Dewatering effluent monitoring**

Monitoring point reference	Monitoring point location	Parameter	Unit	Limit of reporting	Averaging period	Frequency	Limit
Dewatering effluent discharge location	As depicted in Schedule 1: Maps, Figure 2.	pH <sup>1</sup>	pH unit	----	Spot sample	No less than every seven days, where there is a discharge of dewatering effluent.	----
		Electrical conductivity <sup>1</sup>	µS/cm	----			----
		Total dissolved solids <sup>1</sup>	mg/L	----			----
		PFOS <sup>2</sup>	µg/L	As listed in Schedule 3: Monitoring parameters, Table 7.			2.7
		PFOA <sup>2</sup>					632
		PFAS, as listed in Schedule 3: Monitoring parameters, Table 7. <sup>2</sup>					----
		Metals, as listed in Schedule 3: Monitoring parameters, Table 7. <sup>2</sup>					mg/L

Note 1: In-field non-NATA accredited analysis permitted.

Note 2: NATA-accredited analysis required.

## Compliance reporting

4. The works approval holder must within 60 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 to condition 3; and
  - (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.
5. The Environmental Compliance Report required by condition 4, must include as a minimum the following:
  - (a) certification by a suitably qualified engineer that the item 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;
  - (c) photographic documentation for each item of infrastructure or component of infrastructure specified in condition 1;
  - (d) summary of activities undertaken in accordance with the activity requirements specified in condition 2;
  - (e) monitoring results undertaken in accordance with condition 3, including any record of an exceedance of limit specified in condition 3 and management actions taken; and
  - (f) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

## Environmental commissioning phase

### Environmental commissioning requirements

6. The works approval holder may only commence environmental commissioning of an item of infrastructure identified in condition 7 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 4 of this works approval.
7. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 4 may only be carried out:
  - (a) in accordance with the corresponding commissioning requirements; and
  - (b) for the corresponding authorised commissioning duration.

**Table 4: Environmental commissioning requirements**

Item	Infrastructure	Commissioning requirements	Infrastructure location	Authorised commissioning duration
1.	Truck unloader facility and conveyor system	1. Commissioning of microwave beam sensor system, automatic roller doors (including compressible door seals), alarm system, hopper and vibrating feeders,	Labelled as 'New Truck Unloader – Enclosed Structure', as shown in	120 calendar days in aggregate.

Item	Infrastructure	Commissioning requirements	Infrastructure location	Authorised commissioning duration
		conveyors, and transfer chute; and  2. Visual monitoring for fugitive dust must be undertaken during commissioning (where material is being handled).	Schedule 1: Maps, Figure 2.	
	Baghouse dust extraction system	1. Commissioning of dust extraction points (including installation and flanges), dust extraction fan, automated filter cleaning system, and filter unit hopper (including fittings and flanges); and  2. Visual monitoring for fugitive dust must be undertaken during commissioning (where material is being handled).	Labelled as 'Dust Extraction Baghouse (Noise and Dust)', as shown in Schedule 1: Maps, Figure 2.	
	Washdown water filtration system	1. Commissioning of spray nozzle on conveyor system, spray system solenoid valves, washdown water hoses, washdown water sump collection system, storage tanks (including tank level instruments) and associated pipelines;  2. Water quality analysis of at least pH and total suspended solids must be undertaken to assess efficacy of washdown water filtration system; and  3. Visual inspection for loss of containment, overflow, spills, and leaks must be undertaken during commissioning (where water is being processed).	Labelled as 'Water Filtration Plant, as shown in Schedule 1: Maps, Figure 2.	

### Compliance reporting

8. The works approval holder must submit to the CEO an Environmental Commissioning Report within 60 calendar days of the completion date of environmental commissioning for each item of infrastructure specified in condition 7.
9. The Environmental Commissioning Report required by condition 8 must include, as a minimum, the following:
  - (a) a summary of the environmental commissioning activities undertaken, including timeframes and amount of bulk material unloaded;
  - (b) environmental performance of each item of infrastructure or equipment as constructed or installed, including an assessment of any monitoring or testing

undertaken against the intended design of the item of infrastructure or equipment; and

- (c) where they have not been met, measures proposed to meet the manufacturer's design specifications and/or the conditions of this works approval, as well as timeframes for implementing the proposed measures.

## Time limited operations phase

### Commencement and duration

- 10.** The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 12 when the Environmental Commissioning Report for that item of infrastructure, as required by condition 8, has been submitted by the works approval holder.
- 11.** The works approval holder may conduct time limited operation for an item of infrastructure specified in condition 12:
- (a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 10 for that item of infrastructure; or
  - (b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 11(a).

### Time limited operations requirements

- 12.** During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 5 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirements set out in Table 5.

**Table 5: Infrastructure and equipment requirements during time limited operations**

Item	Infrastructure	Operational requirements	Infrastructure location
1.	Truck unloader facility and conveyor system	1. Roller doors must be closed during material handling.	Labelled as 'New Truck Unloader – Enclosed Structure', as shown in Schedule 1: Maps, Figure 2.
	Baghouse dust extraction system	1. Must be operational during material handling; and 2. Must be maintained in accordance with manufacturer specifications.	Labelled as 'Dust Extraction Baghouse (Noise and Dust)', as shown in Schedule 1: Maps, Figure 2.
	Washdown water filtration system	1. Must be operated and maintained in accordance with manufacturer specification; and 2. Slurry waste must be stored at sludge tank (or any other fully contained unit) until offsite disposal.	Labelled as 'Water Filtration Plant, as shown in Schedule 1: Maps, Figure 2.



## Compliance reporting

13. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations for each item of infrastructure specified in condition 12, or within 90 calendar days before the expiration of the works approval, whichever is sooner.
14. The works approval holder must ensure that the report required by condition 13 includes the following:
  - (a) a summary of the time limited operations, including timeframes and amount of bulk material unloaded;
  - (b) the environmental performance of each item of infrastructure or equipment constructed or installed against condition 12 of the works approval; and
  - (c) where the environmental performance of an item of infrastructure or equipment has not been met, measures proposed to meet the manufacturer's design specifications and/or the conditions of this works approval, as well as timeframes for implementing the proposed measures.

## Records and reporting (general)

15. 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.
16. 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, 2 and 7;
  - (b) any maintenance of infrastructure that is performed in the course of complying with condition 12;
  - (c) monitoring programmes undertaken in accordance with condition 3; and
  - (d) complaints received under condition 15.
17. The books specified under condition 16 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 6 have the meanings defined.

**Table 6: Definitions**

Term	Definition
annual period	a 12-month period commencing from 1 January until 31 December of the same year.
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 <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V Division 3 of the EP Act.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
environmental commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other environmental factors.
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	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	Environmental Protection Regulations 1987 (WA).
NATA	means National Association of Testing Authorities.
PFAS	refers to per- and polyfluoroalkyl substances.

Term	Definition
PFOA	means perfluorooctanoic acid.
PFOS	means perfluorooctanesulfonic acid.
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.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
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.

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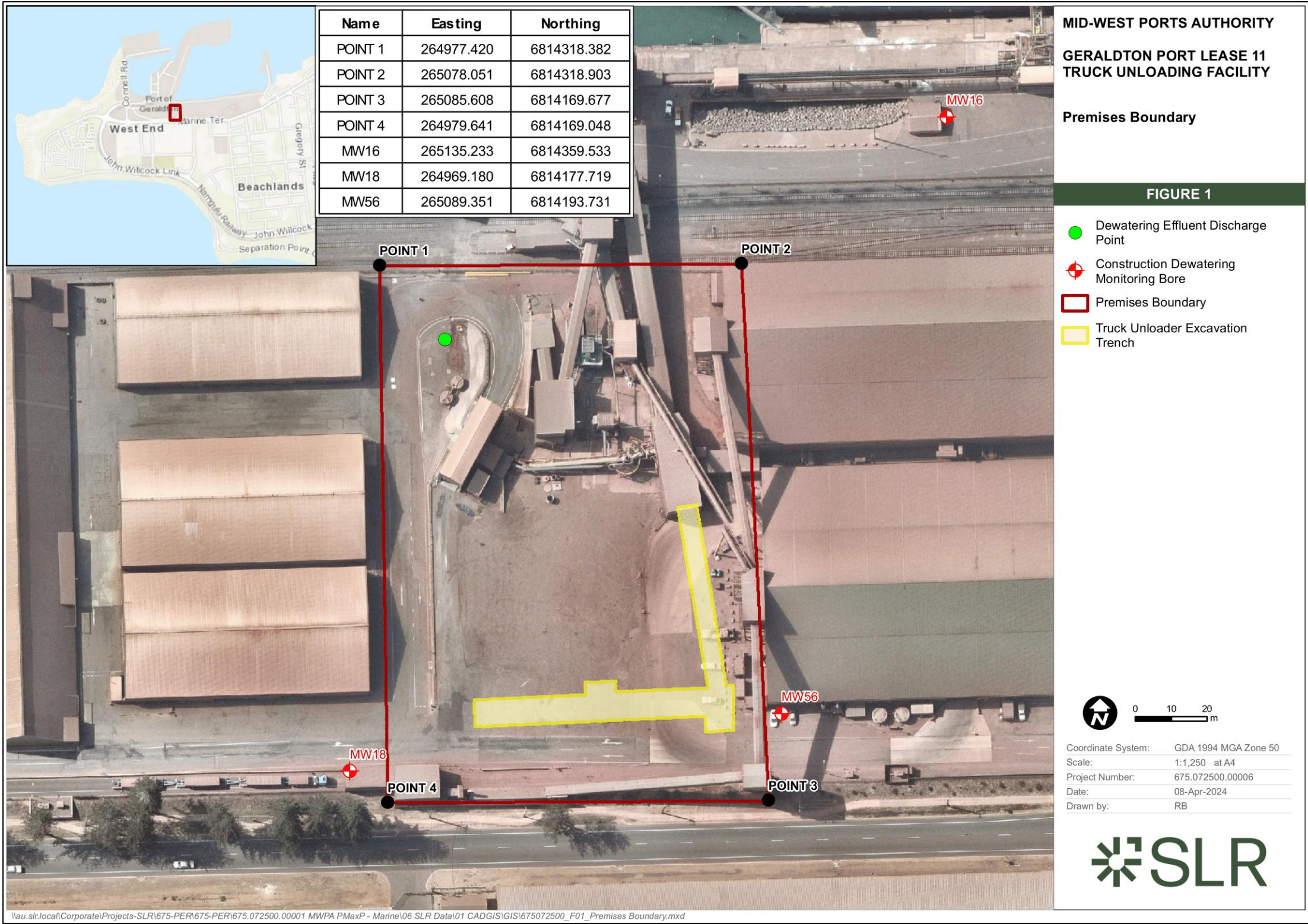
**END OF CONDITIONS**



Schedule 1: Maps

Premises map

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





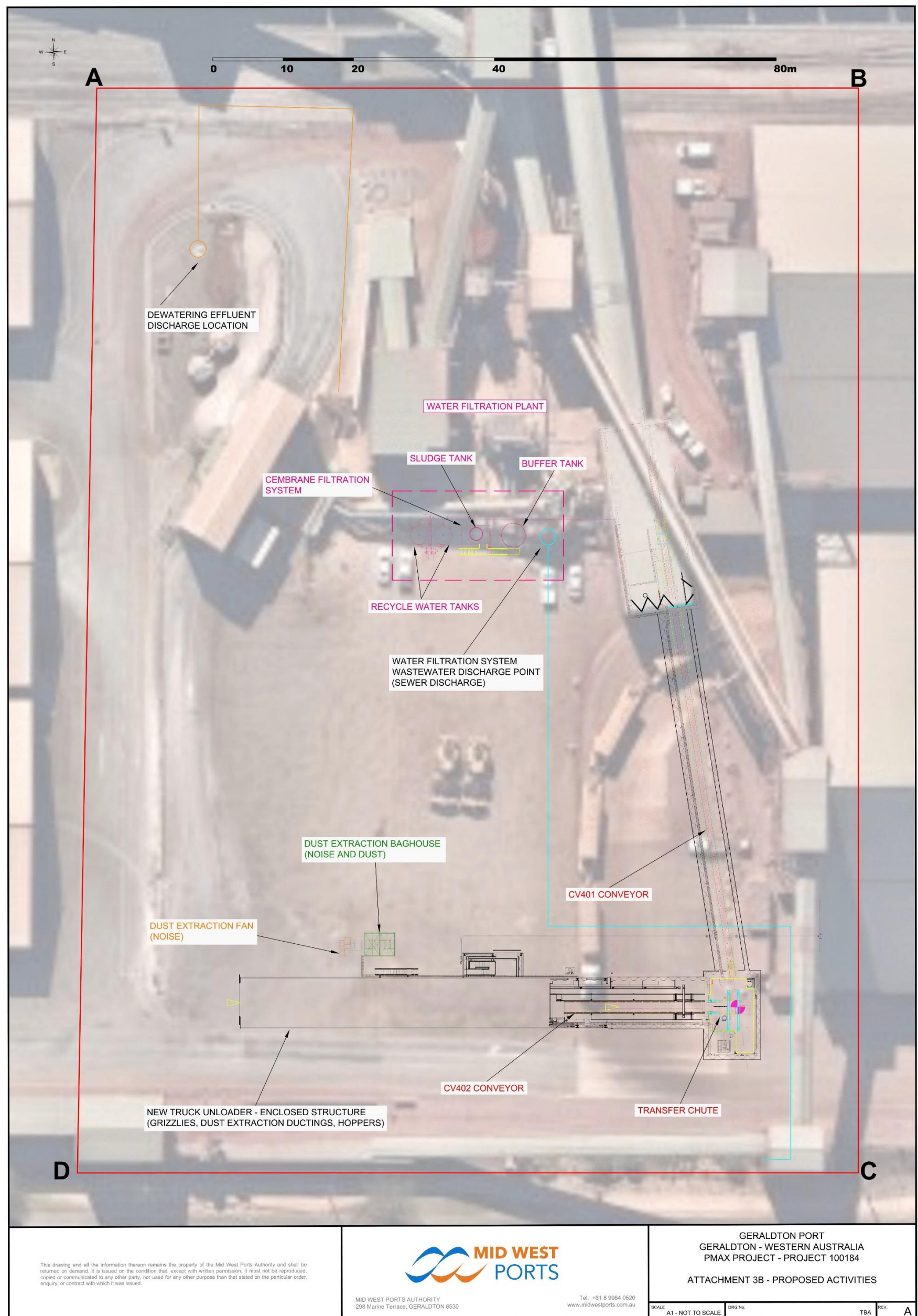


Figure 2: Site layout and dewatering effluent discharge location

Schedule 2: Construction drawings

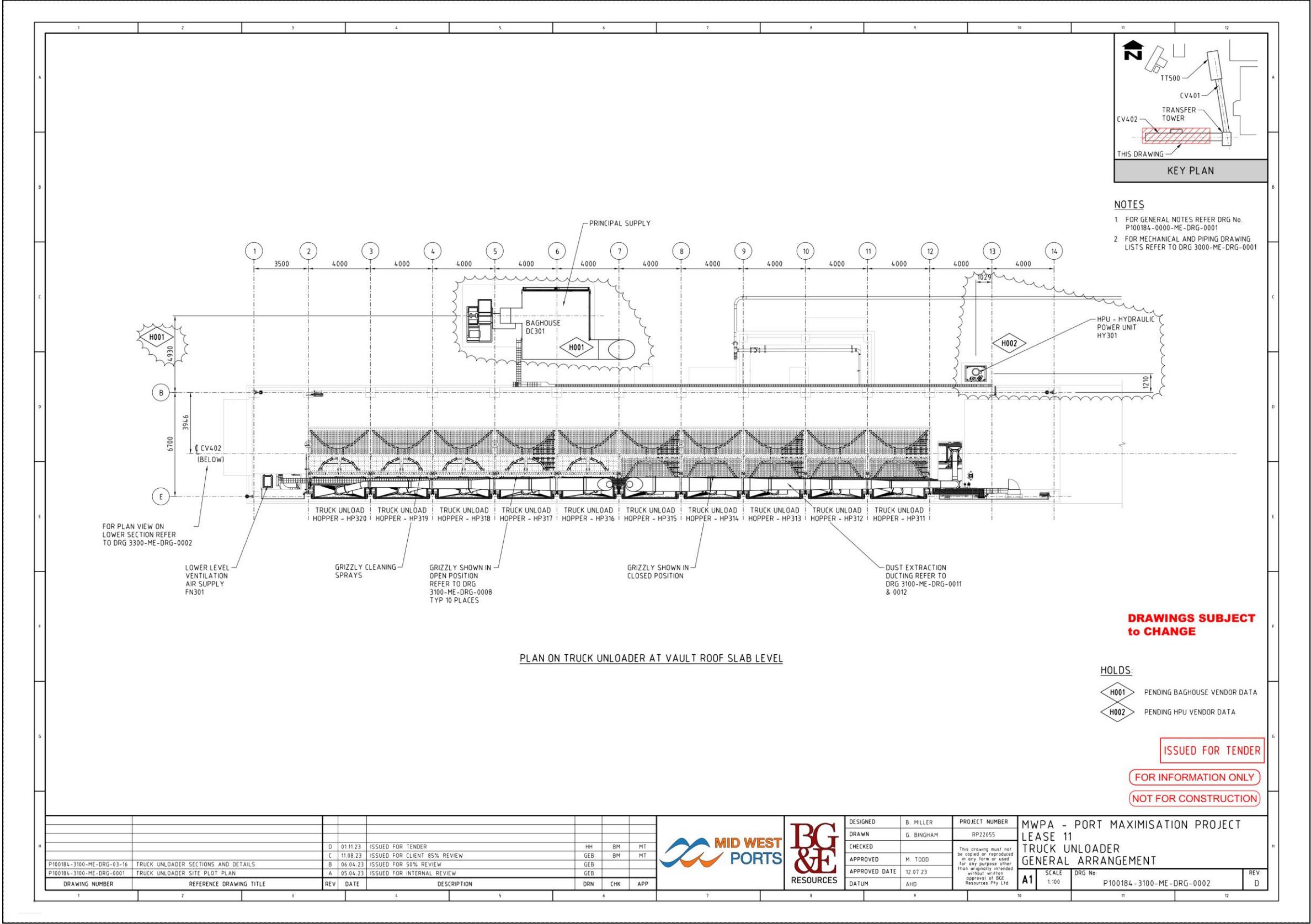


Figure 3: Construction drawing for truck unloader – general arrangement

W6893/2024/1 (Date of Amendment: 15 April 2025)  
IR-T05 Works approval template (v6.0) (September 2022)



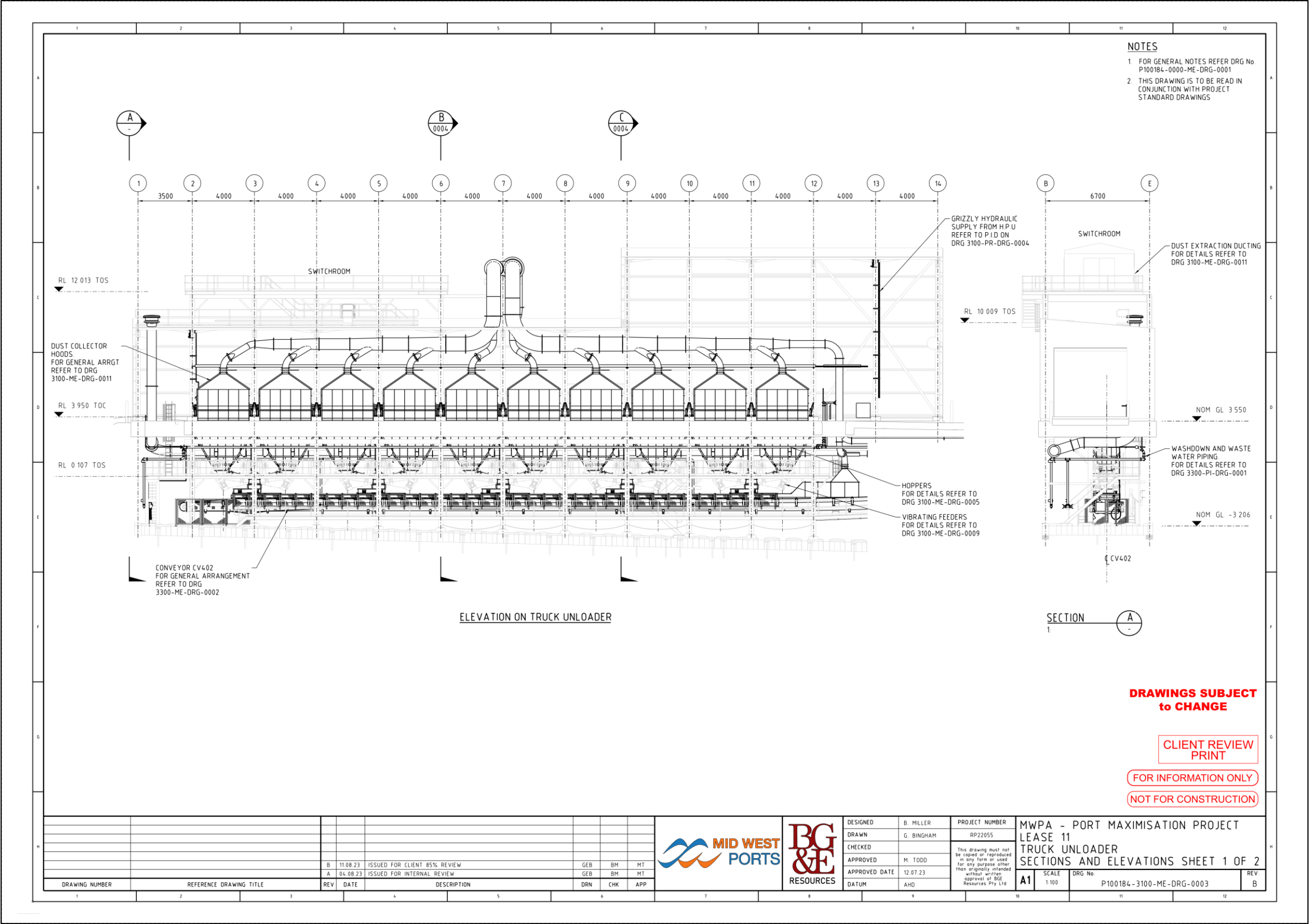


Figure 4: Construction drawing for truck unloader – elevation

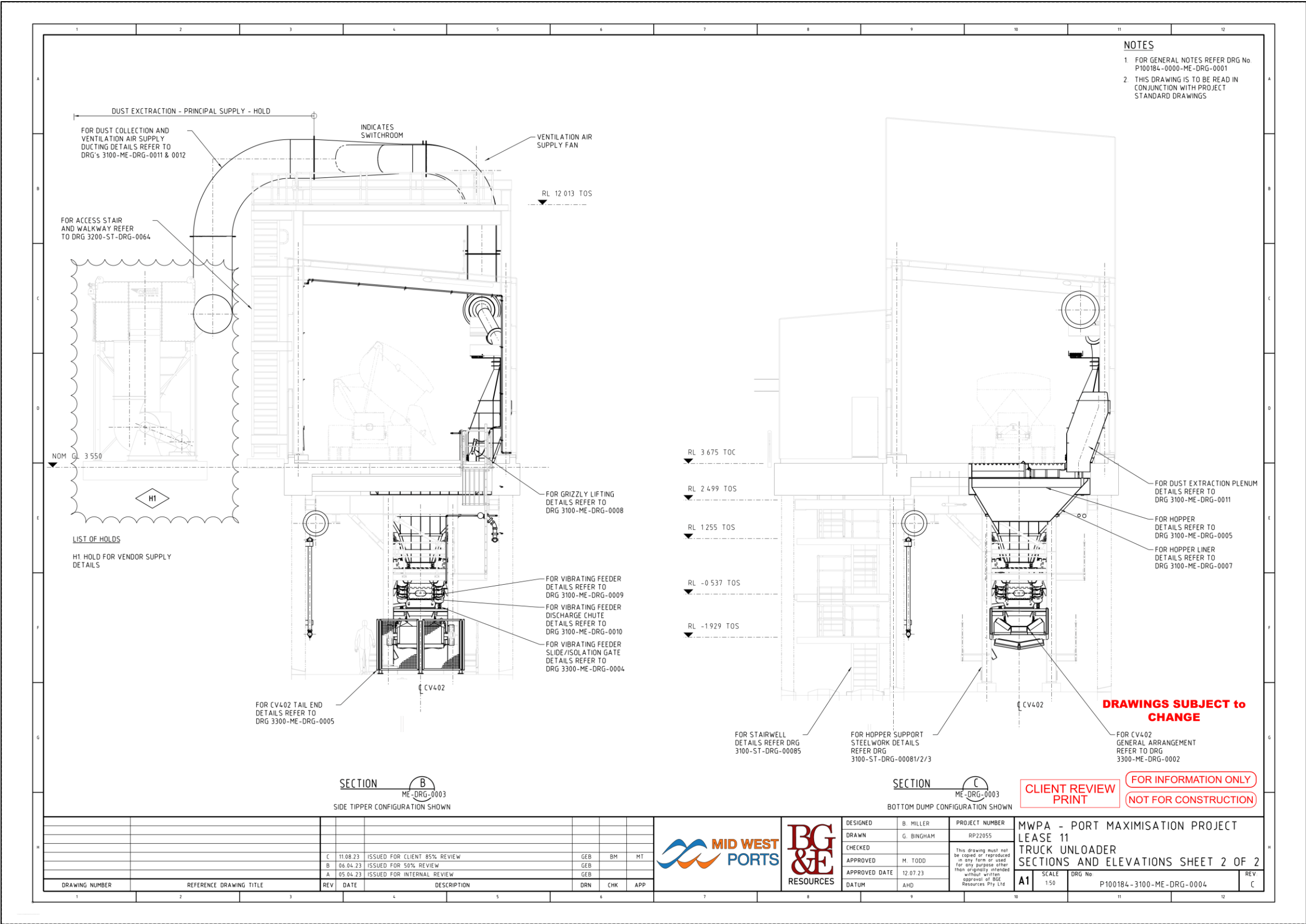


Figure 5: Construction drawing for truck unloader – cross sections



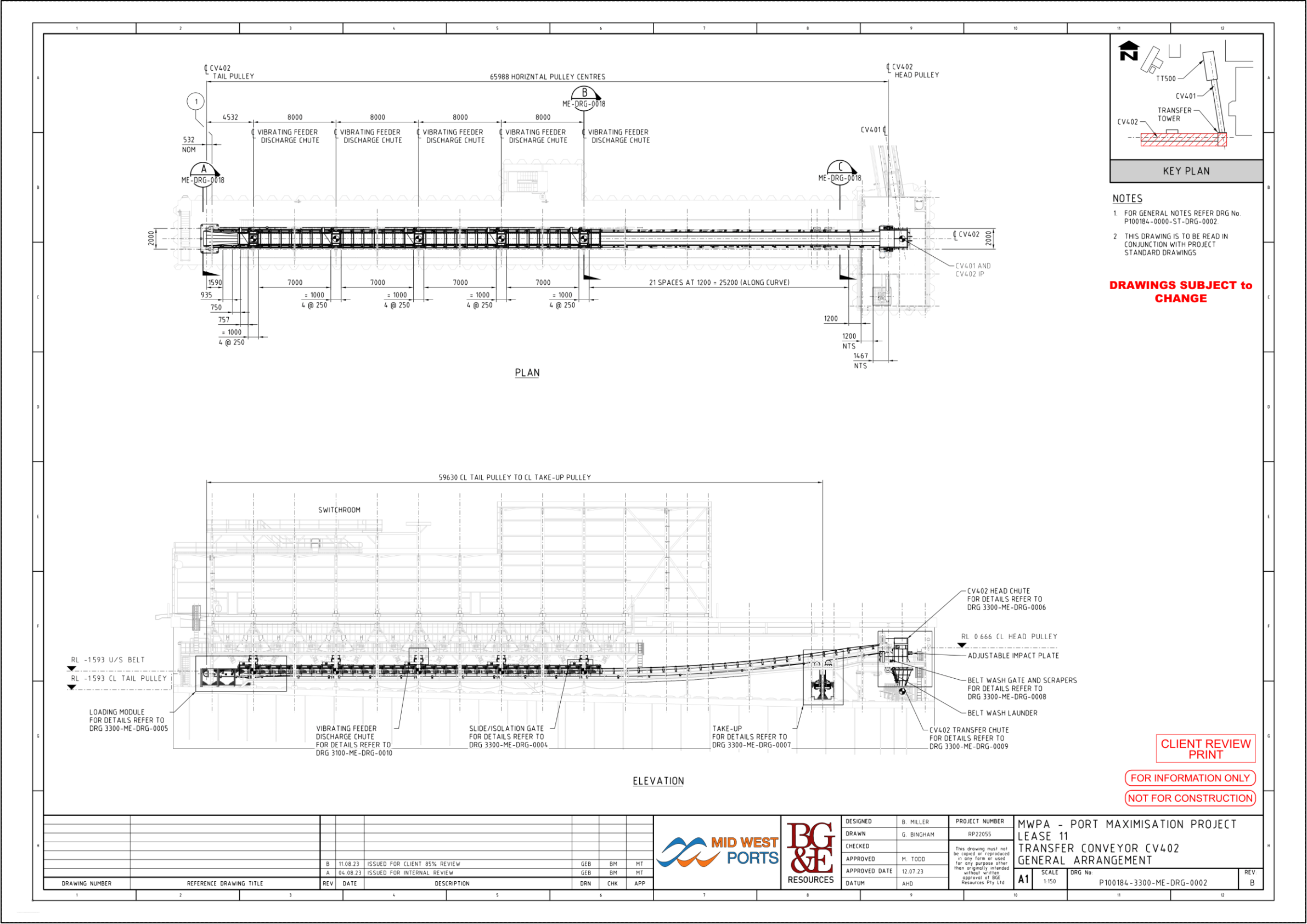


Figure 6: Construction drawing for conveyor CV402 – general arrangement

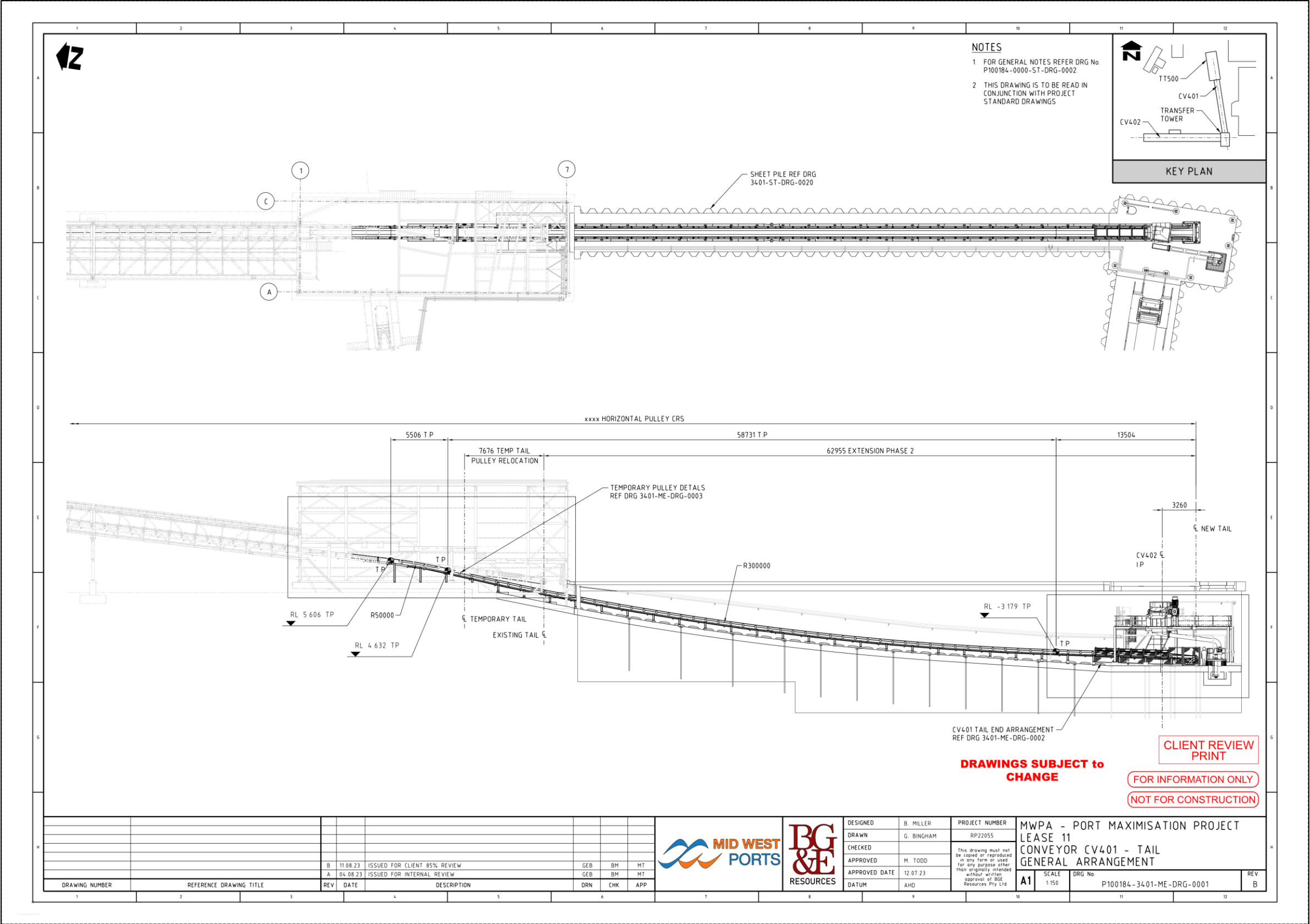


Figure 7: Construction drawing for conveyor CV401 extension – general arrangement

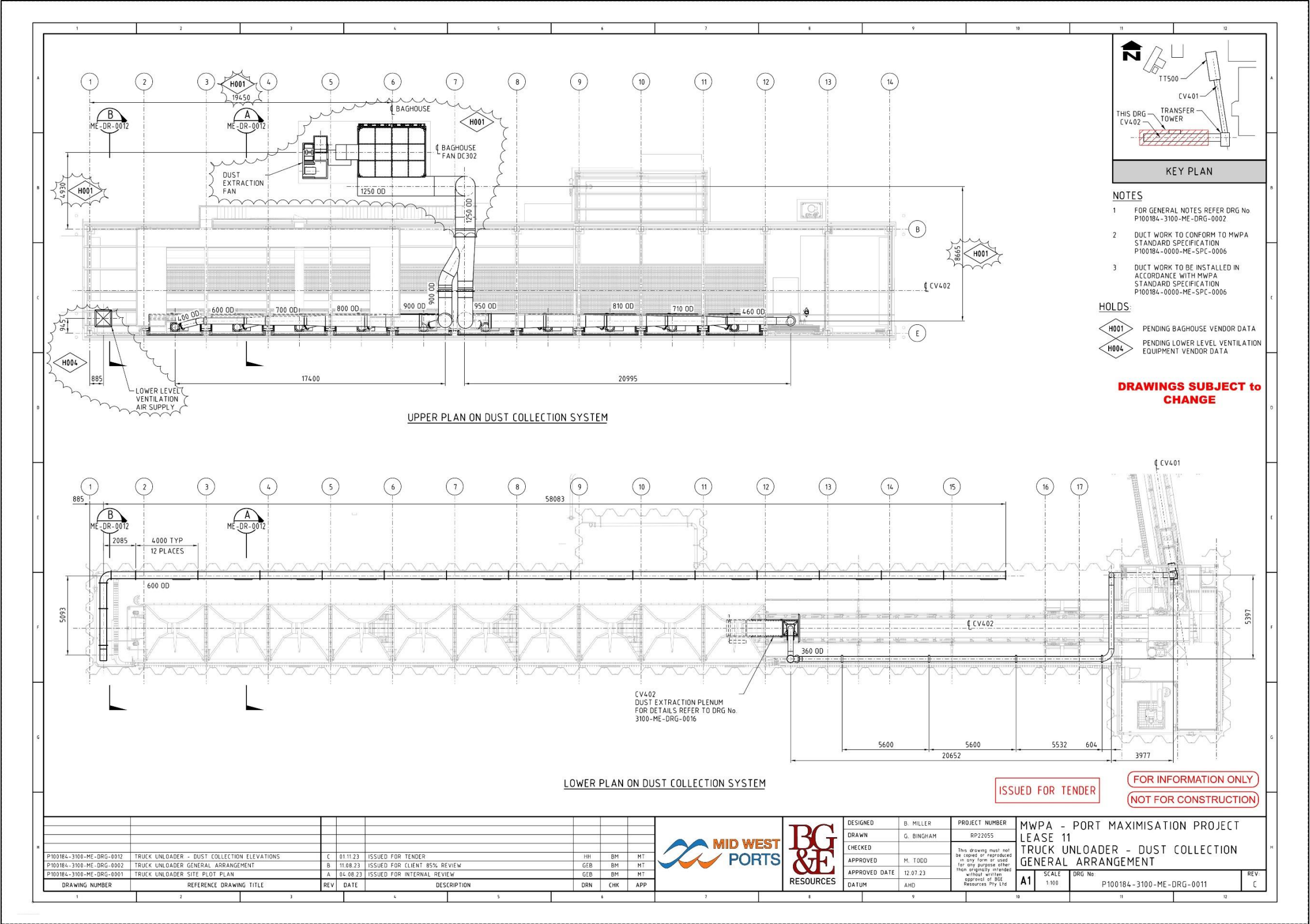


Figure 8: Construction drawing for baghouse dust extraction system – general arrangement



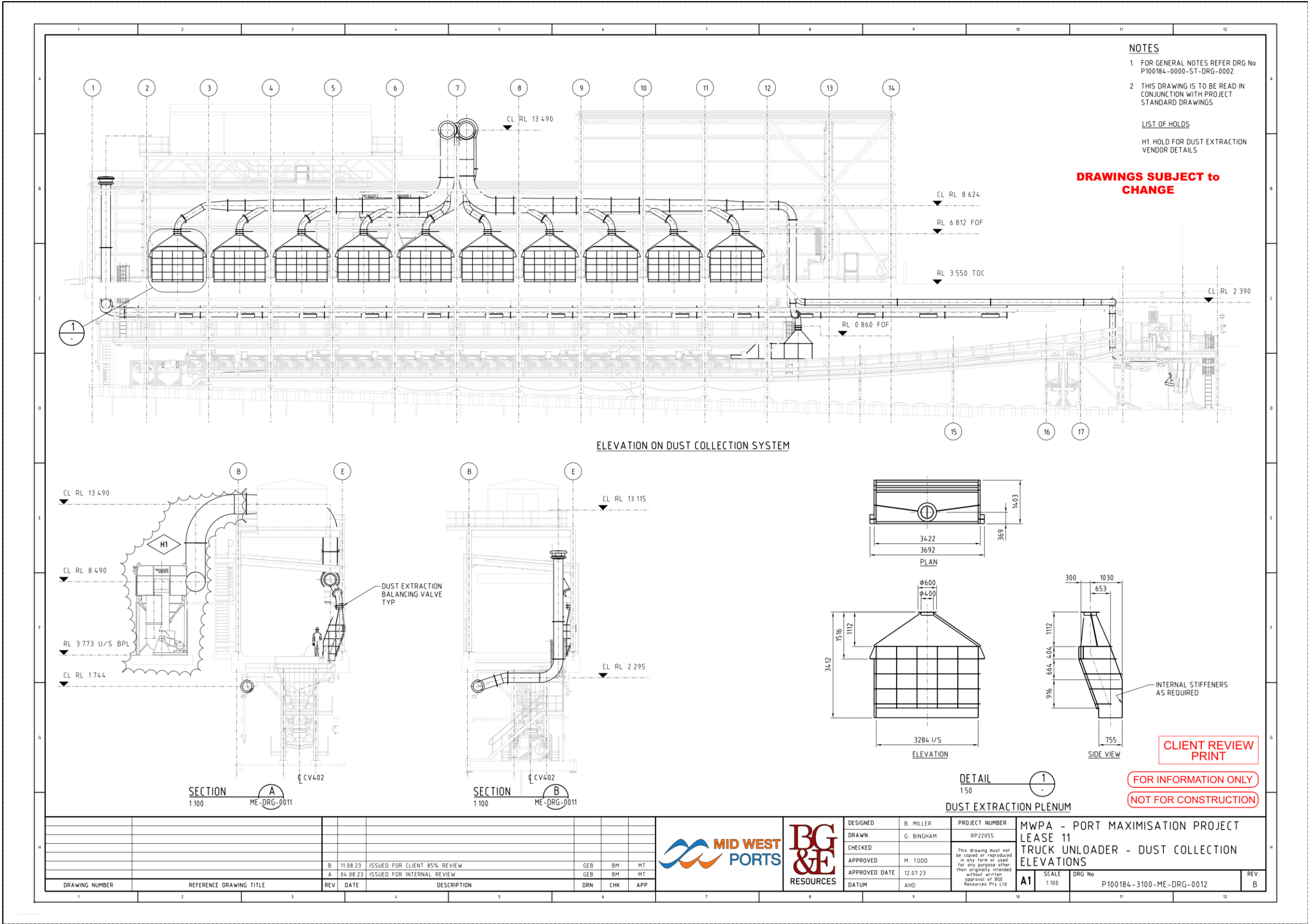


Figure 9: Construction drawing for baghouse dust extraction system – elevation and cross sections

## Schedule 3: Monitoring parameters

Table 7: Dewatering effluent monitoring parameters

Monitoring parameter	Limit of reporting
<b>PFAS (28 compounds):</b> <u>Perfluoroalkyl sulfonic acids</u> <ol style="list-style-type: none"> <li>1. Perfluorobutane sulfonic acid (PFBS);</li> <li>2. Perfluoropentane sulfonic acid (PFPeS);</li> <li>3. Perfluorohexane sulfonic acid (PFHxS);</li> <li>4. Perfluoroheptane sulfonic acid (PFHpS);</li> <li>5. Perfluorooctane sulfonic acid (PFOS)<sup>1</sup>;</li> <li>6. Perfluorodecane sulfonic acid (PFDS);</li> </ol> <u>Perfluoroalkyl carboxylic acids</u> <ol style="list-style-type: none"> <li>7. Perfluorobutanoic acid (PFBA);</li> <li>8. Perfluoropentanoic acid (PFPeA);</li> <li>9. Perfluoroheptanoic acid (PFHpA);</li> <li>10. Perfluorohexanoic acid (PFHxA);</li> <li>11. Perfluorooctanoic acid (PFOA)<sup>1</sup>;</li> <li>12. Perfluorononanoic acid (PFNA);</li> <li>13. Perfluorodecanoic acid (PFDA);</li> <li>14. Perfluoroundecanoic acid (PFUnDA);</li> <li>15. Perfluorododecanoic acid (PFDoDA);</li> <li>16. Perfluorotridecanoic acid (PFTrDA);</li> <li>17. Perfluorotetradecanoic acid (PFTeDA);</li> </ol> <u>Perfluoroalkyl sulfonamides</u> <ol style="list-style-type: none"> <li>18. Perfluorooctane sulfonamide (FOSA);</li> <li>19. N-methyl perfluorooctane sulfonamide (MeFOSA);</li> <li>20. N-ethyl perfluorooctane sulfonamide (EtFOSA);</li> <li>21. N-methyl perfluorooctane sulfonamidoethanol (MeFOSE);</li> <li>22. N-ethyl perfluorooctane sulfonamidoethanol (EtFOSE);</li> <li>23. N-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA);</li> <li>24. N-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA);</li> </ol> <u>Fluorotelomer sulfonic acid</u> <ol style="list-style-type: none"> <li>25. 4:2 fluorotelomer sulfonic acid (4:2 FTS);</li> <li>26. 6:2 fluorotelomer sulfonic acid (6:2 FTS);</li> <li>27. 8:2 fluorotelomer sulfonic acid (8:2 FTS);</li> <li>28. 10:2 fluorotelomer sulfonic acid (10:2 FTS).</li> </ol>	0.01 µg/L or lower.
<b>Metals (dissolved):</b> <ol style="list-style-type: none"> <li>29. Copper (Cu);</li> <li>30. Lead (Pb);</li> <li>31. Nickel (Ni);</li> <li>32. Zinc (Zn).</li> </ol>	----

Note 1: Parameter already specified in Table 3.