

TfA Ref: 19297

20 December 2024

Stormwater & Oily Water Management Statement

Proposed 24 hour Unmanned Truck Refuelling Facility at 310 Moama Street, Hay South NSW 2711

This Stormwater & Oily Water Management statement has been prepared with respect to the proposed unmanned truck refuelling facility located at the abovementioned location formally described as Lot 2 DP1212081 and aims to summarise the proposed stormwater and oily water management strategy.

All areas of the facility where transfer of hydrocarbons occur (unloading/loading) and/or potential spills may occur will be managed as follows:

- Dispensing of fuel for the trucks will occur in concrete bunded areas. Stormwater runoff and any spillage that may occur during the dispensing of fuel will be captured by grated gully pits located at the centre of the bunded areas and directed to an Enviro OE30 full retention oily water separator via underground pipe network for hydrocarbon removal. This unit is compliant with the requirements of EN-858-1 "Class 1" oil/water separators. Treated water from the Enviro OE30 unit will be then discharged to the site's stormwater network.
- The Enviro OE30 device is a fully integrated in-line device capable of removing pollutants including oils from run-off. The device does not require any power, utilising the energy of the water flow to separate and contain pollutants for periodical removal by evacuation equipment. The internal surface can be inspected and washed as required, whilst screens can be removed and cleaned if and as required.
- The device has a design service life of 100 years for fixed parts and 25 years for replacement parts. The Enviro OE30 unit claims a performance which can reach reductions of 95% for Gross Pollutants (GP), a 90% of Suspended Solids (TSS), a 97% of Total Phosphorous (TP), a 85% of total Nitrogen (TN), a 99.95% of total Hydrocarbons and 8,000 litres of Oil containment capacity. Hydrocarbon retention occurs in a separate chamber which operates as a best practice oil and grease arrestor.
- The OE30 will be fitted with an oil alert probe for oil spill detection and maintenance monitoring which includes an alarm panel for remote mounting. The alarm is triggered when hydrocarbon build-up accumulates, allowing the removal by a licensed contractor when required.
- Under normal operation, the Enviro OE30 unit will discharge treated stormwater with a total petroleum hydrocarbons (TPH) content below 5ppm (mg/L).

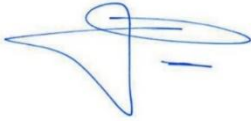
Stormwater surface runoff from the balance of the site will be directed into the existing network of channels within the verge of University Road (western boundary) and Sturt Highway (northern boundary). Runoff from the northern and eastern boundaries of the site will flow as sheet flow towards the western boundary, where it will be conveyed to the verge of University Road and collected by table drains. Treated water from the oily-water separator will also be discharged into the existing table drain within the verge of University Road.

A landscape buffer strip will be provided along the street frontage of University Road to aid with the removal of nutrients and suspended solids present in the stormwater runoff.

We believe that the proposed oily water and stormwater treatment systems will ensure the highest level of protection against fuel spills and incorporate water sensitive urban design measures to significantly improve the quality of the stormwater discharged from the site. To clarify the operation of the proposed system, refer to **Appendix A** for the proposed conceptual stormwater and oily water management plan and to **Appendix B** for the Enviro OE30 unit details.

Should you require any clarification regarding the information provided please do not hesitate to contact the undersigned.

Kind regards,



Juan D. Avella

Director – Civil/ Structural Engineering
BEng MBA MIEAust CPEng NER
For and on behalf of TfA Project Group.

Appendices A- Conceptual Stormwater & Oily Water Management Plan
 B- Enviro OE30 information

APPENDIX A



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(HEAD OFFICE)**

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MELBOURNE

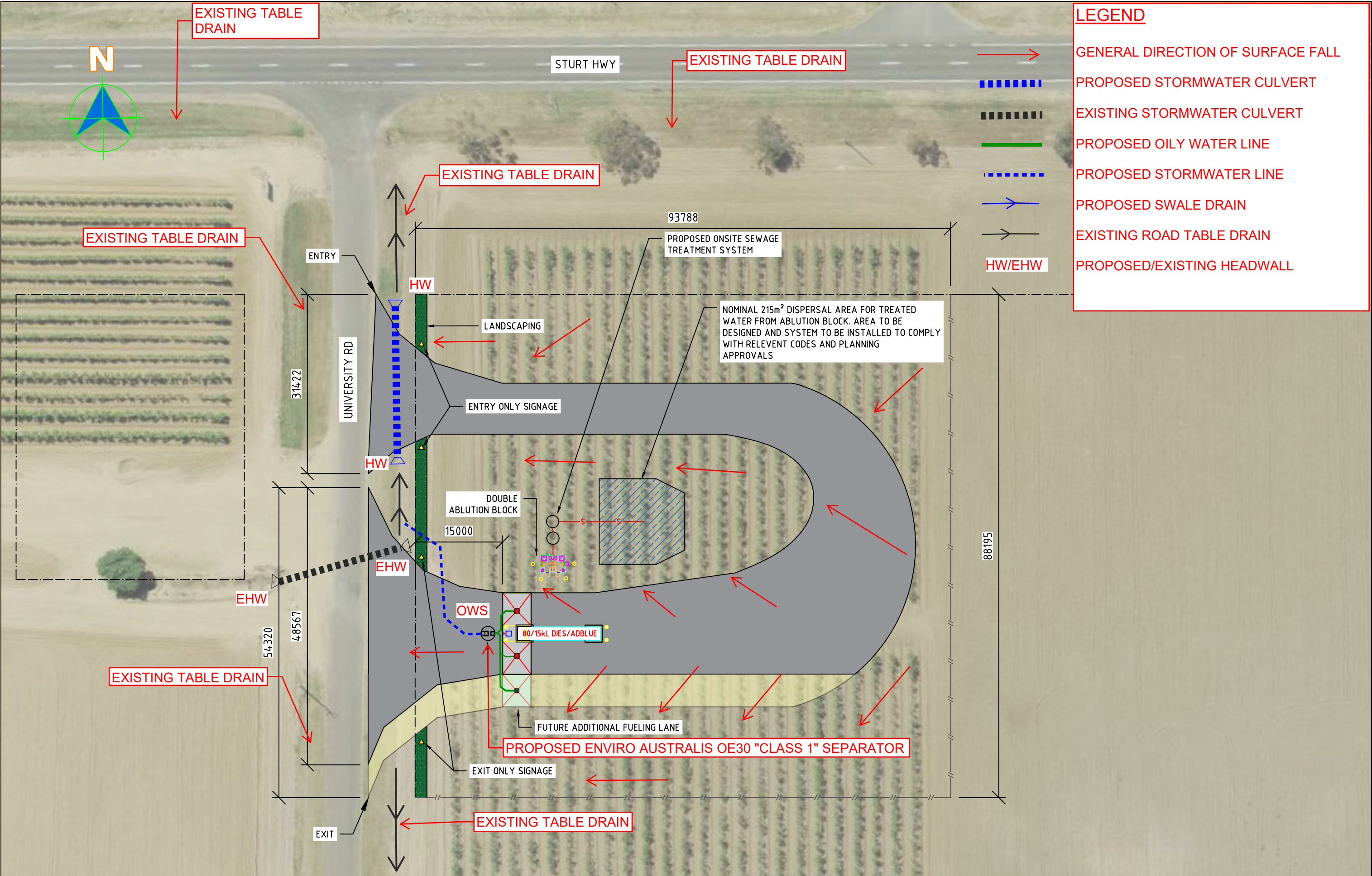
Suite 125
757 Bourke Street
Docklands VIC 3008

VIC Phone: +61 3 9640 0206
Website: www.tfa.com.au

PERTH

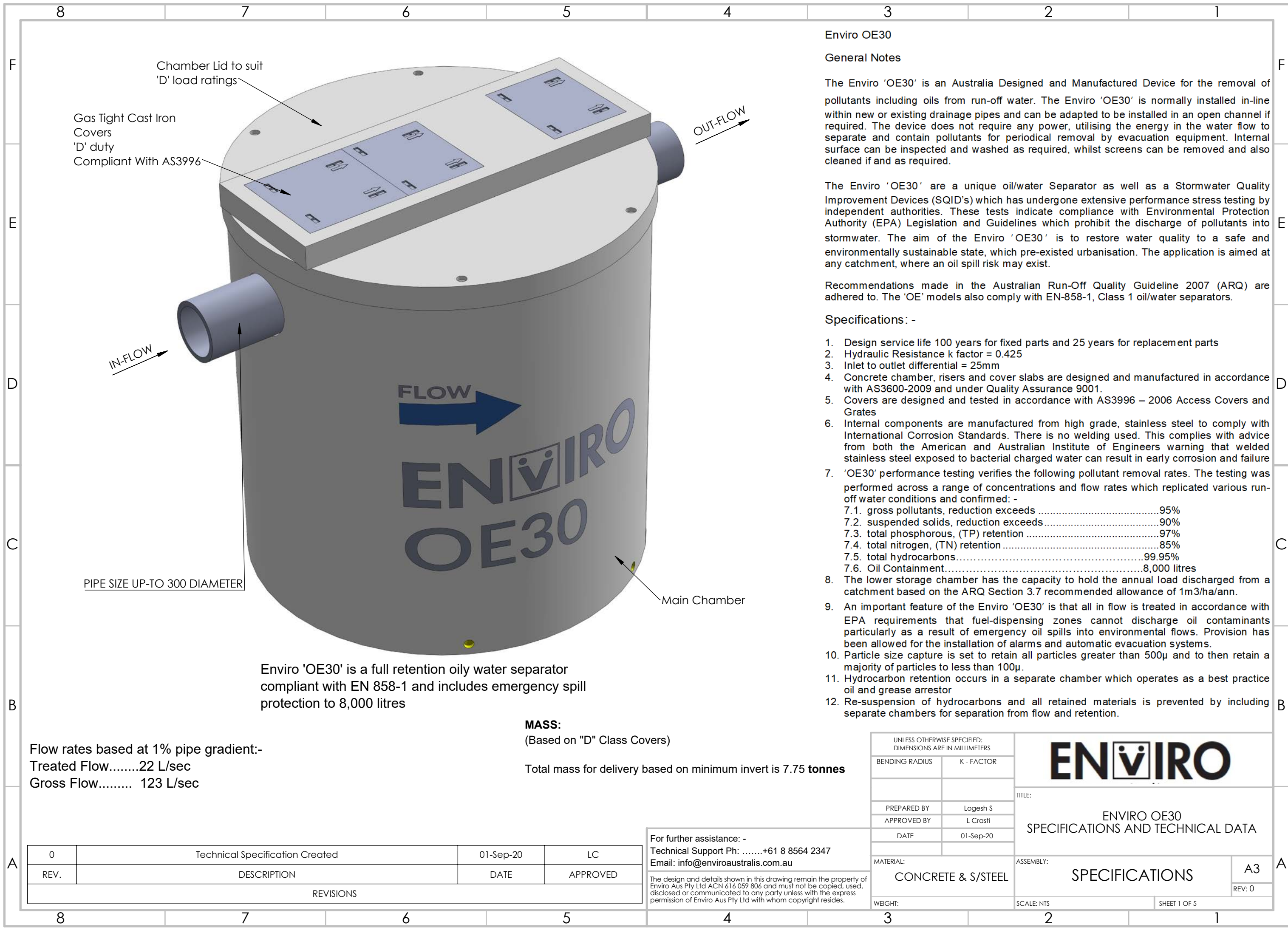
Level 3
1060 Hay Street
West Perth WA 6005

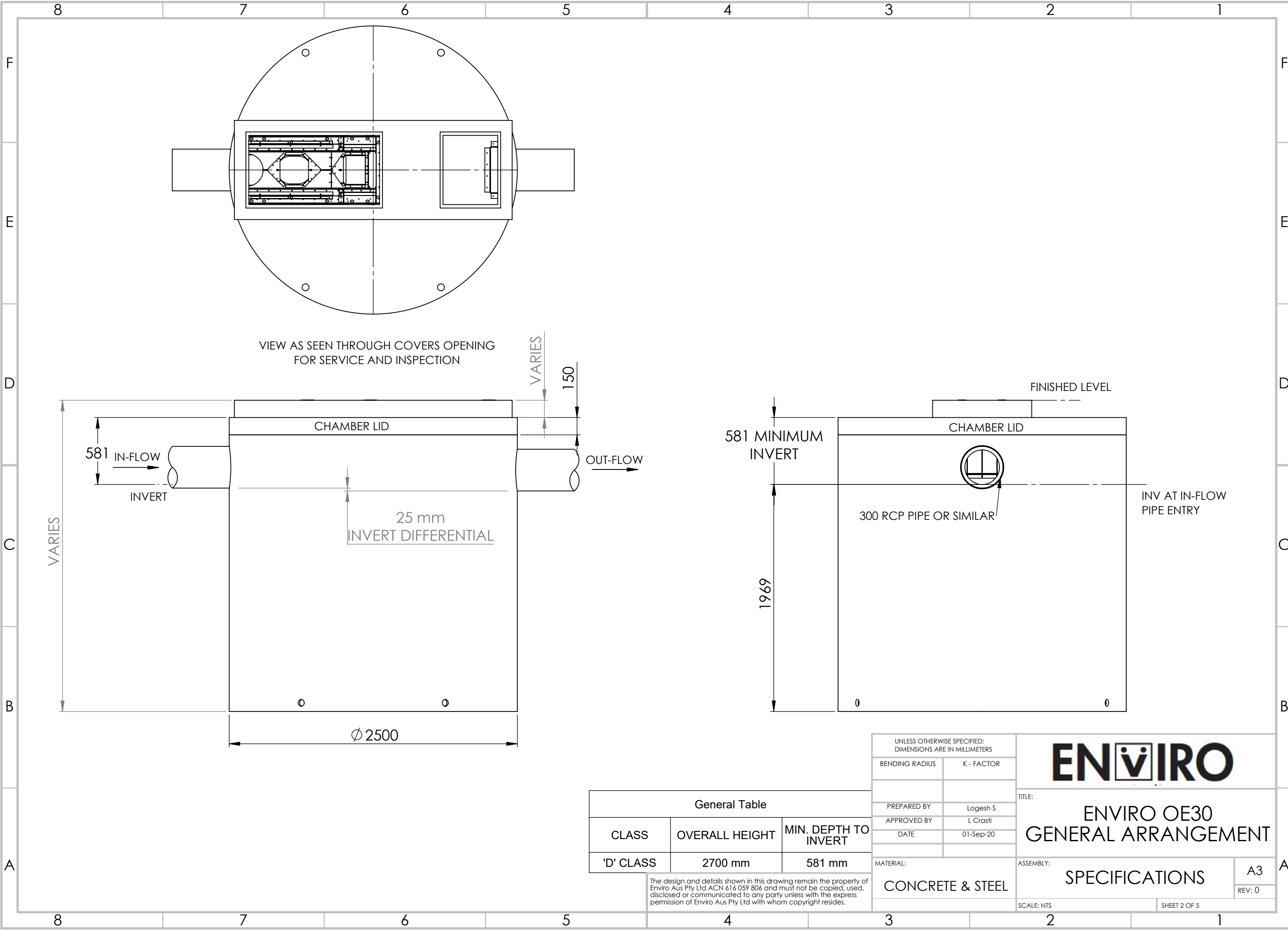
WA Phone: +61 8 9480 0430
ABN: 34 612 132 233



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	DRAWN LD			DATE CREATED	DRAWING NO.	REV D	
				19.12.2024			
A1 SCALE 1:250		A3 SCALE 1:500		SHEET			

APPENDIX B



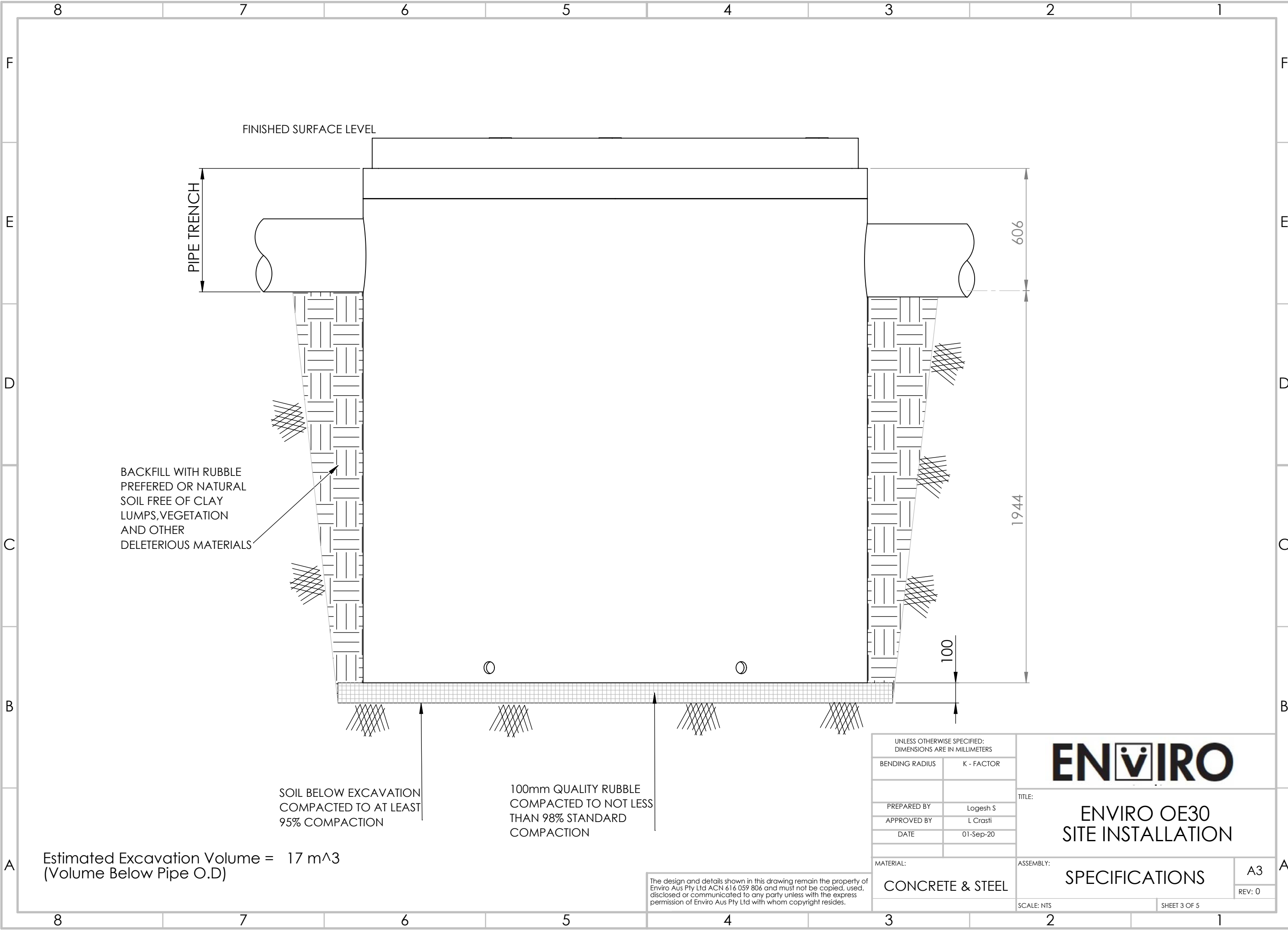


General Table		
CLASS	OVERALL HEIGHT	MIN. DEPTH TO INVERT
'D' CLASS	2700 mm	581 mm

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		ENVIRO	
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		TITLE: ENVIRO OE30 GENERAL ARRANGEMENT	
PREPARED BY	Logesh S		
APPROVED BY	L Crasti		
DATE	01-Sep-20		
MATERIAL: CONCRETE & STEEL		ASSEMBLY: SPECIFICATIONS	
		A3	
		REV: 0	
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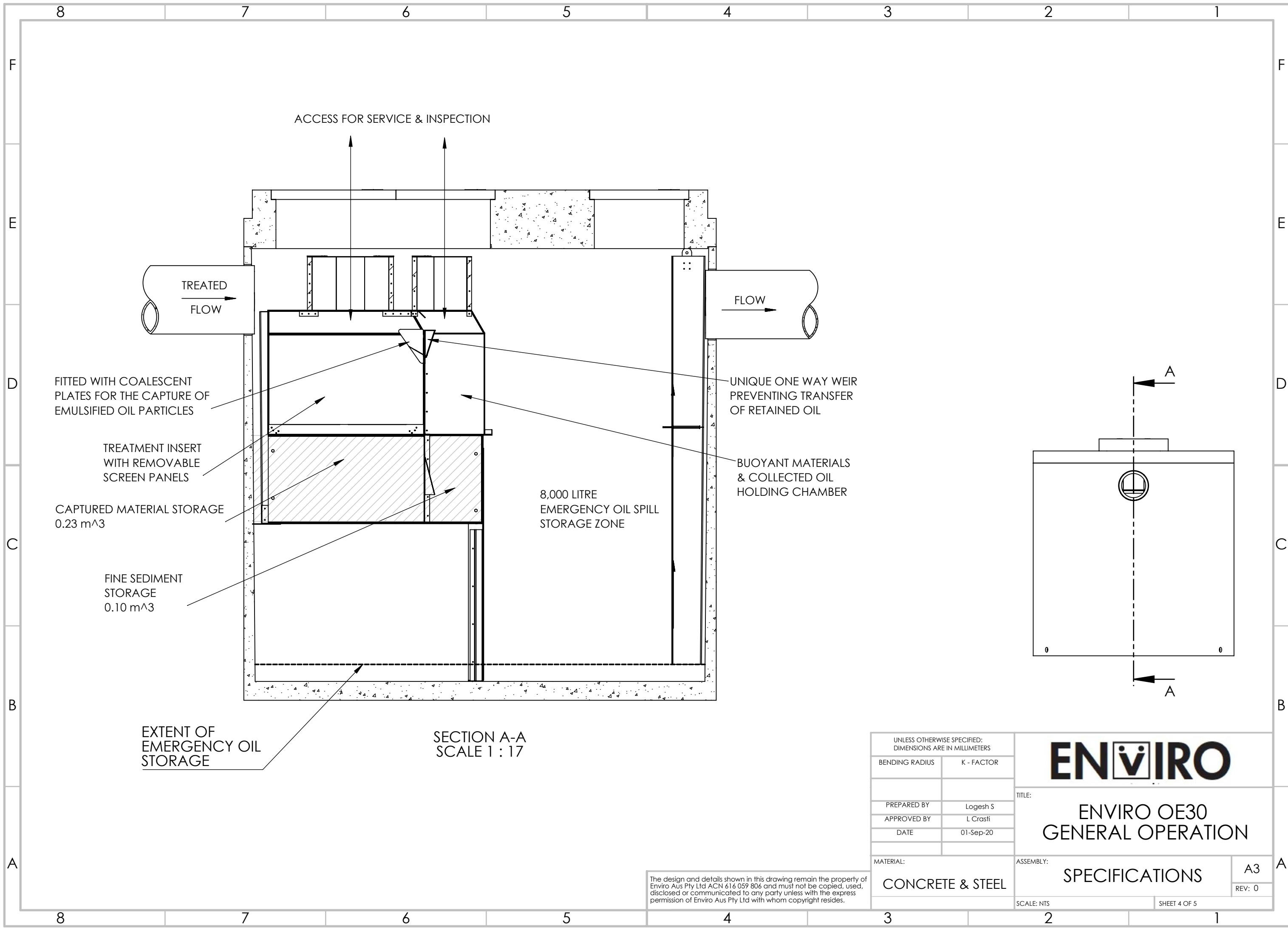
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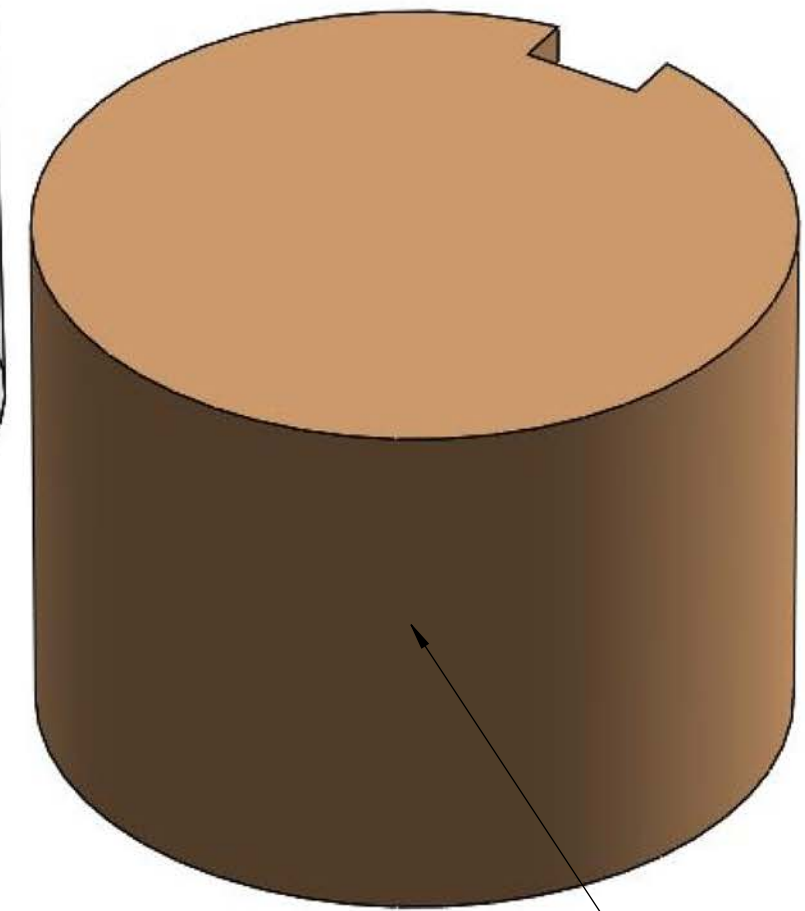
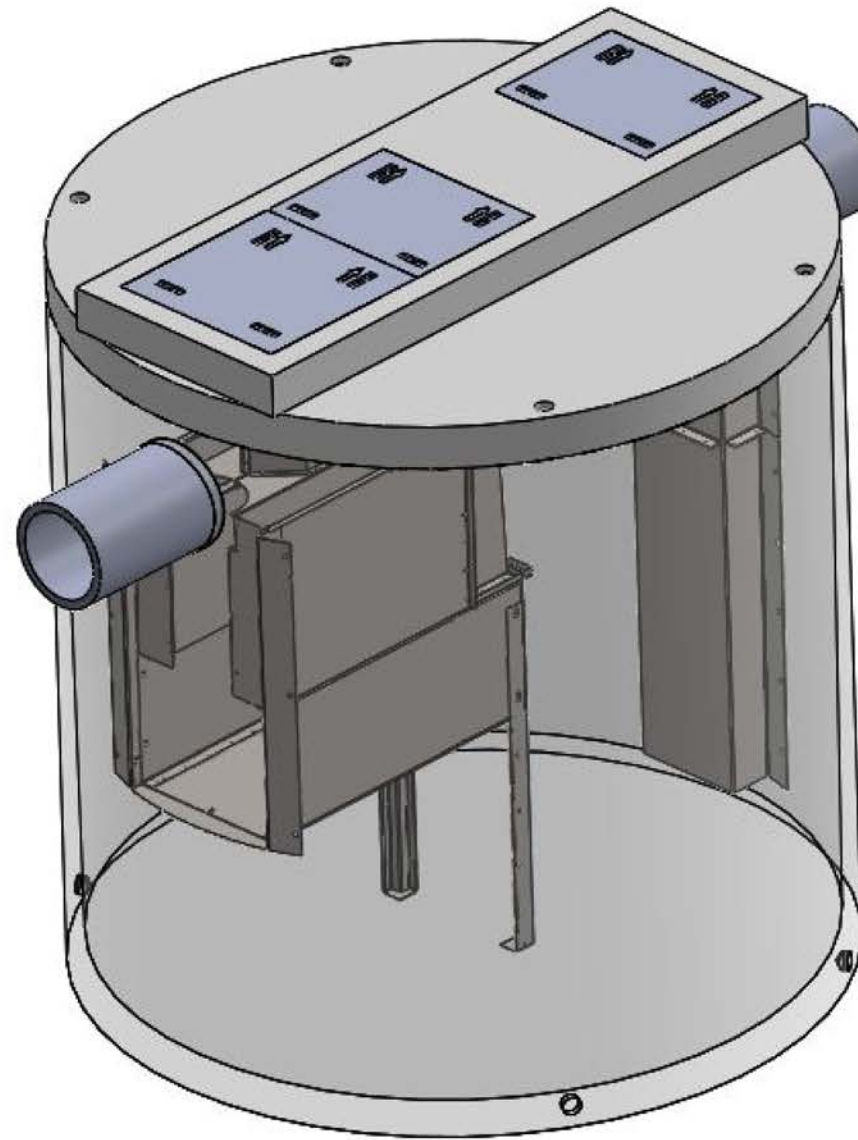
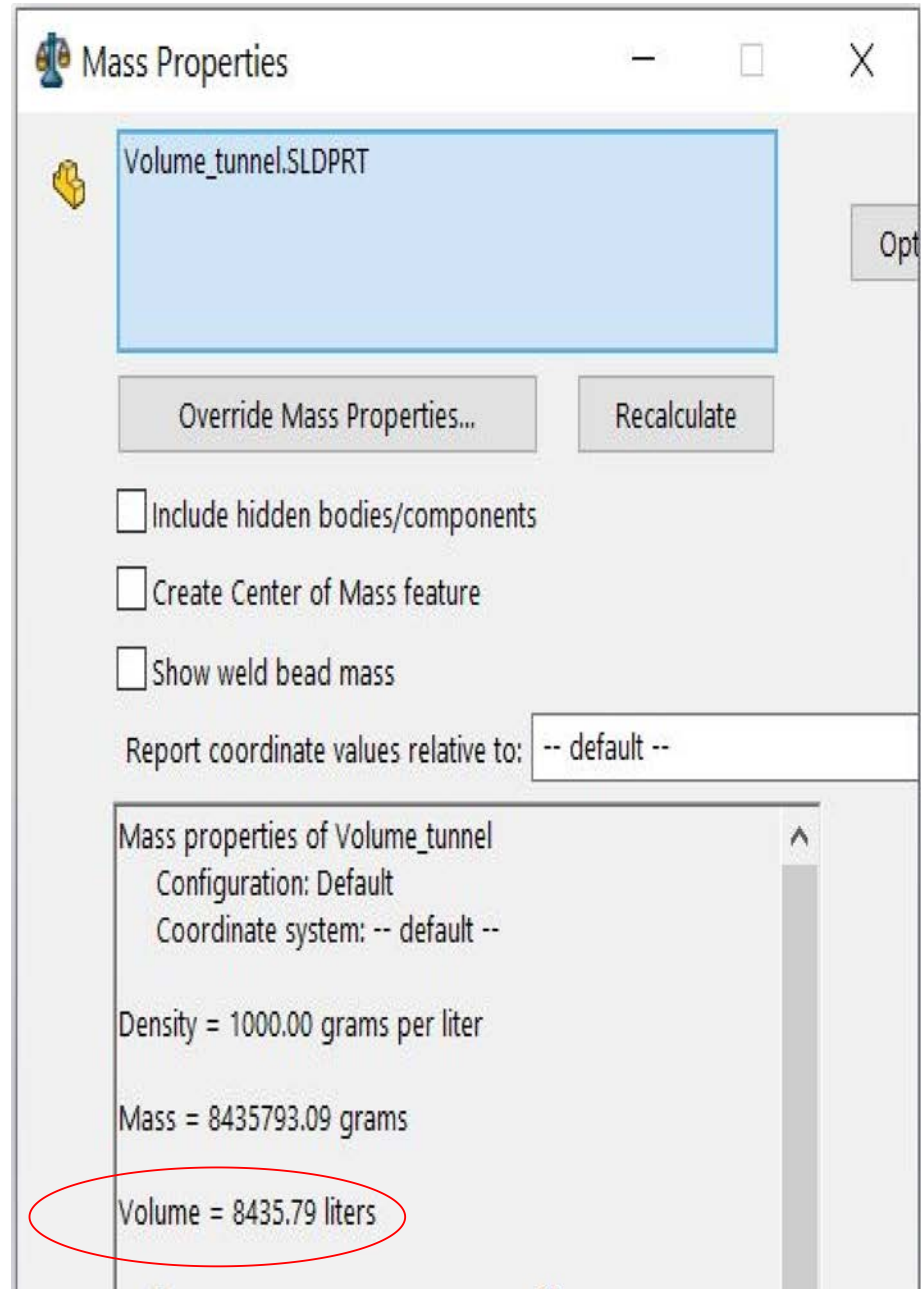


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	
BENDING RADIUS	K - FACTOR
PREPARED BY	Logesh S
APPROVED BY	L Crasti
DATE	01-Sep-20
MATERIAL:	
CONCRETE & STEEL	

ENVIRO	
TITLE: ENVIRO OE30 SITE INSTALLATION	
ASSEMBLY: SPECIFICATIONS	A3 REV: 0
SCALE: NTS	SHEET 3 OF 5

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Emergency Spill
Oil Storage Volume

NOTE:

SHAPE OF 8,000 LITRE EMERGENCY SPILL VOLUME
REMOVED FROM THE CHAMBER FOR CLARITY

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		ENVIRO	
BENDING RADIUS	K - FACTOR		
PREPARED BY	Logesh S	TITLE: ENVIRO OE30 STORAGE VOLUME	
APPROVED BY	L Crasti		
DATE	01-Sep-20		
MATERIAL: CONCRETE & STEEL		ASSEMBLY: SPECIFICATIONS	A3 REV: 0
		SCALE: NTS	SHEET 5 OF 5