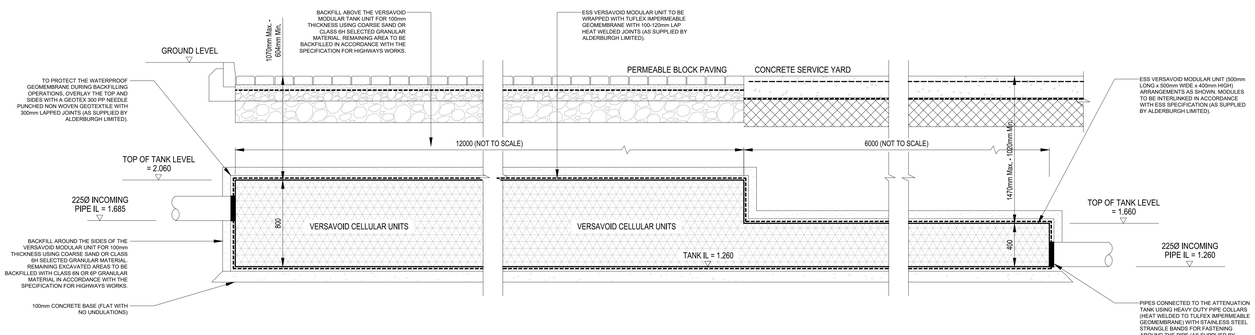


NOTES

DETAILS ARE BASED ON ESS VERSAVOID UNITS. ALTERNATIVE PRODUCTS MAY BE ACCEPTABLE SUBJECT TO HDR REVIEW AND APPROVAL.

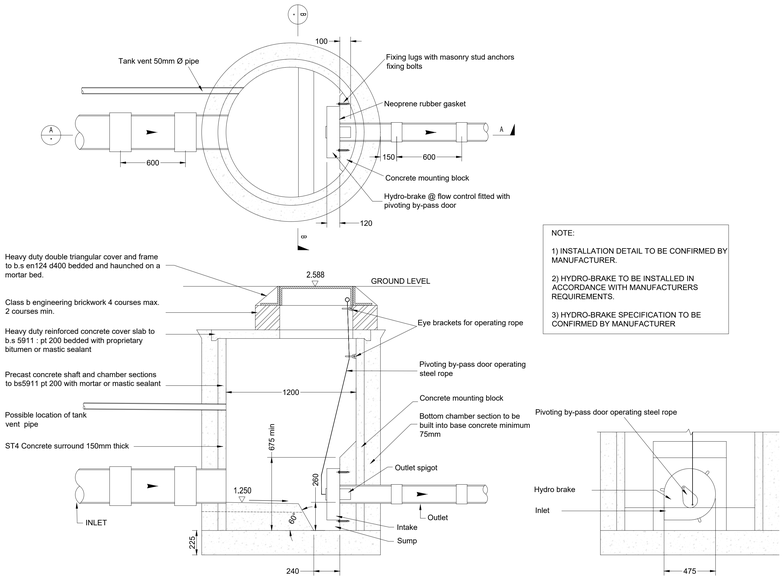
THE CHOICE OF SUITABLE UNIT TYPE (VERSAVOID LITE/CORE/PLUS OR OTHER) WILL DEPEND ON COVER, OVERALL DEPTH AND SURFACE LOADING CONDITIONS. SEEK MANUFACTURER'S ADVICE.

SUBMIT PROPOSALS TO HDR FOR APPROVAL PRIOR TO PLACING ANY ORDER.

MODULES REQUIRE 450mm MINIMUM BACKFILL COVER BEFORE DRIVING OVER WITH SMALL EXCAVATORS OR BOBCAT.

TYPICAL SECTION THROUGH VERSAVOID STORAGE TANK - SIDE VIEW

(Scale 1:20)



NOTE:

1) INSTALLATION DETAIL TO BE CONFIRMED BY MANUFACTURER.

2) HYDRO-BRAKE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

3) HYDRO-BRAKE SPECIFICATION TO BE CONFIRMED BY MANUFACTURER

SECTION A-A

SECTION B-B

HYDRO-BRAKE TYPICAL INSTALLATION DETAIL

HYDRO-BRAKE TYPE : MD-SHE-0068-2000-0960-2000

(Scale 1:20)

General Notes

1. Ductile iron manhole covers and frames to be in accordance with BS EN 124 and to the following load class;
class E600 - service yards
class D400 - carriageways and service roads
class C250 - car parks and car park access roads
class B125 - pavements and landscaped areas
class A15 - internal areas (refer also to architect's specification)

2. Heavy duty concrete cover slabs to be used with class C250, D400 & E600 manhole covers.
Light duty concrete cover slabs to be used with class A15 & B125 manhole covers.

3. Covers laid to falls of finished surfaces.

4. Inlet and outlet pipes to be laid soffit to soffit unless stated otherwise.

5. Precast concrete manholes to be in accordance with BS EN 1917 and BS 5911.

6. Ductile iron gully gratings and frames to be class D400 to BS EN 124, non-rock design with a captive end hinge set on the traffic side of the gully. Grating slots are to be perpendicular to the direction of traffic.

7. All drainage details and specifications to be in accordance with Water UK/Water Research Centre publication `Sewers for Adoption' latest edition.

8. All concrete products and in-situ concrete for use in adoptable sewerage shall utilize sulphate resisting cement in accordance with `Sewers for Adoption' latest edition.

9. The standard concrete specified on this drawing are suitable only for non-aggressive soils. Where sulphates or other aggressive chemicals are present in the ground water, the ground or in any adjacent material then sulphate resisting cement or the corresponding extra quantity of ordinary portland cement is to be used in the concrete.
All in accordance with BS EN 206-1 and BS 8500-1 & 2.

10. Chalk and limestone are not to be used as bedding or backfilling material in soils with a pH value less than 7.

11. All mortar to be class 1 (1:1/4:3) for brick manholes and benching.

12. All brickwork in connection with drainage is to be engineering brick Class B to BS 3921.

13. Manhole and gully frames to be bedded on polyester resin mortar.

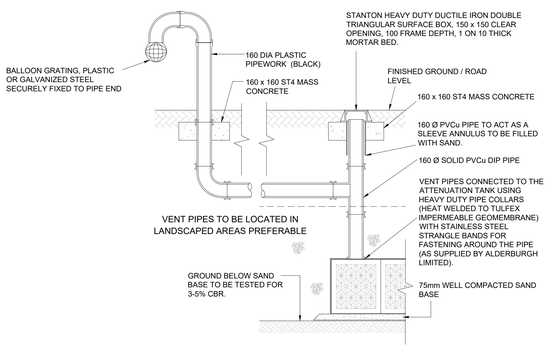
14. All ductile iron products shall display the manufacturer's name and achieve kitemark accreditation.

15. All dimensions in millimeters unless stated otherwise.



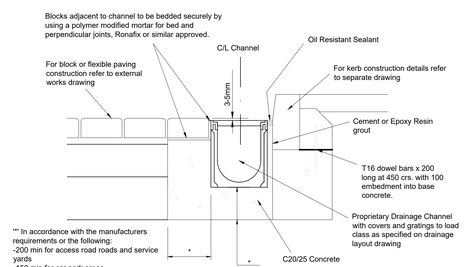
TYPICAL SECTION THROUGH VERSAVOID STORAGE TANK - FRONT VIEW

(Scale 1:20)



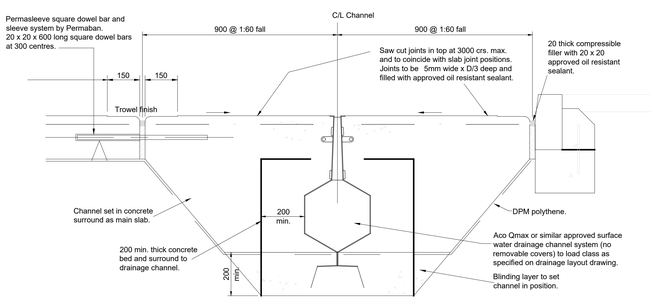
TYPICAL 160Ø DIP / VENT PIPE CONNECTION

(Scale 1:20)



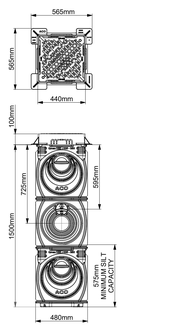
ACO ROADDRAIN DRAINAGE CHANNEL DETAIL

Scale 1:10



ACO QMAX DRAINAGE CHANNEL DETAIL

Scale 1:10



ACO QMAX 225 SILT CHAMBER WITH D400 SLOTTED COVER AND FRAME

(Scale 1:10)

Rev	Date	Description
T2	26.08.22	SECTION THROUGH VERSAVOID TANK AMENDED. ACO QMAX DETAIL ADDED. HYDROBRAKE REFERENCE ADDED.
T1	03.08.22	TENDER ISSUE.

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Project Title: **5 COMMERCE WAY, LANCING.**

Drawing Title: **TYPICAL DRAINAGE CONSTRUCTION DETAILS SHT 3 OF 3**

Purpose of Issue: Information ○ Preliminary ○ Approval ○ Tender ● Construction ○ Record Copy ○

First Issue Date	Drawn By	Scale	Checked
AUGUST 22	PG	NTS	NDH

Drawing Number: **21-008D / 303** Rev: **T2**