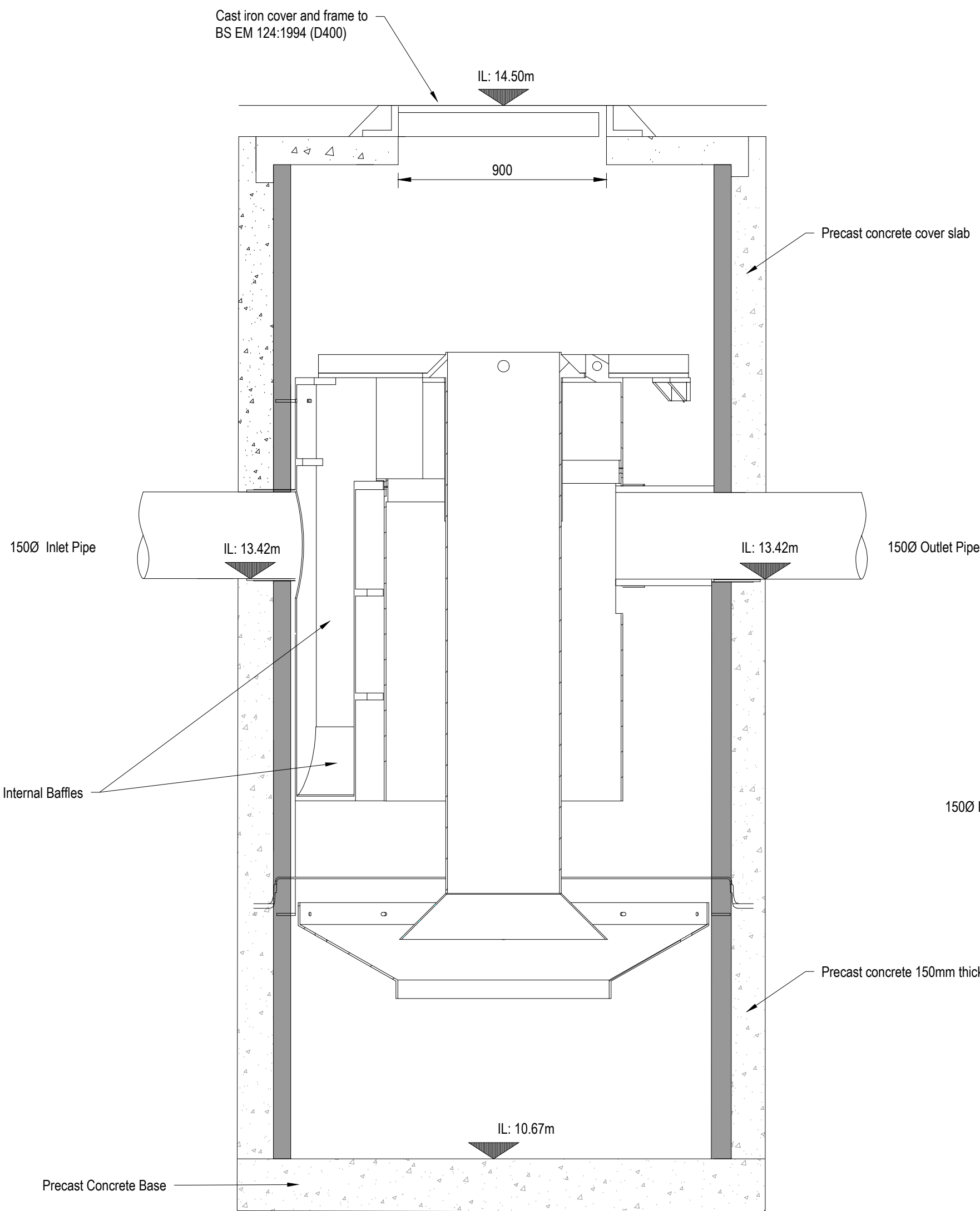


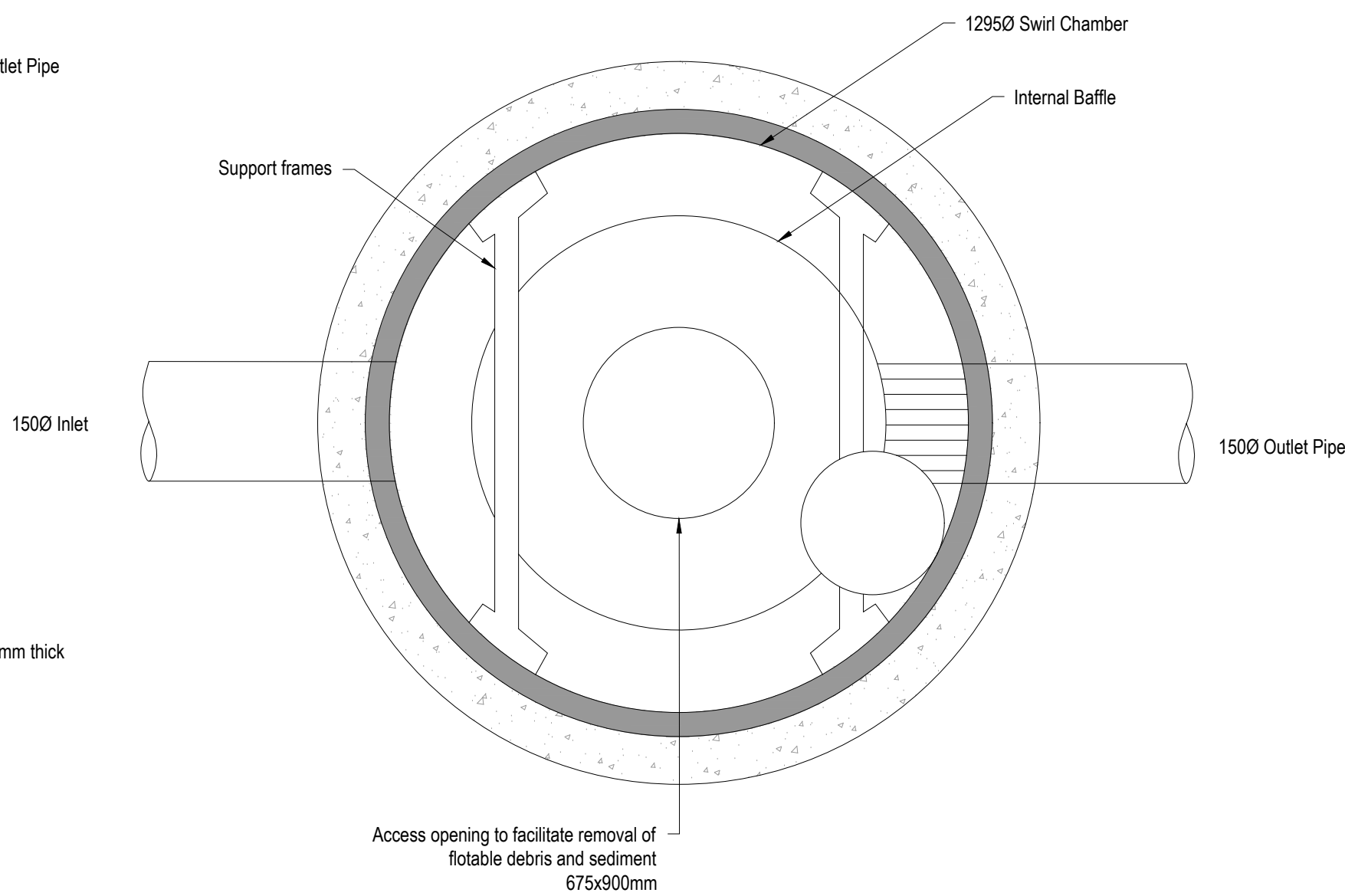


SPECIFICATION REQUIREMENTS:

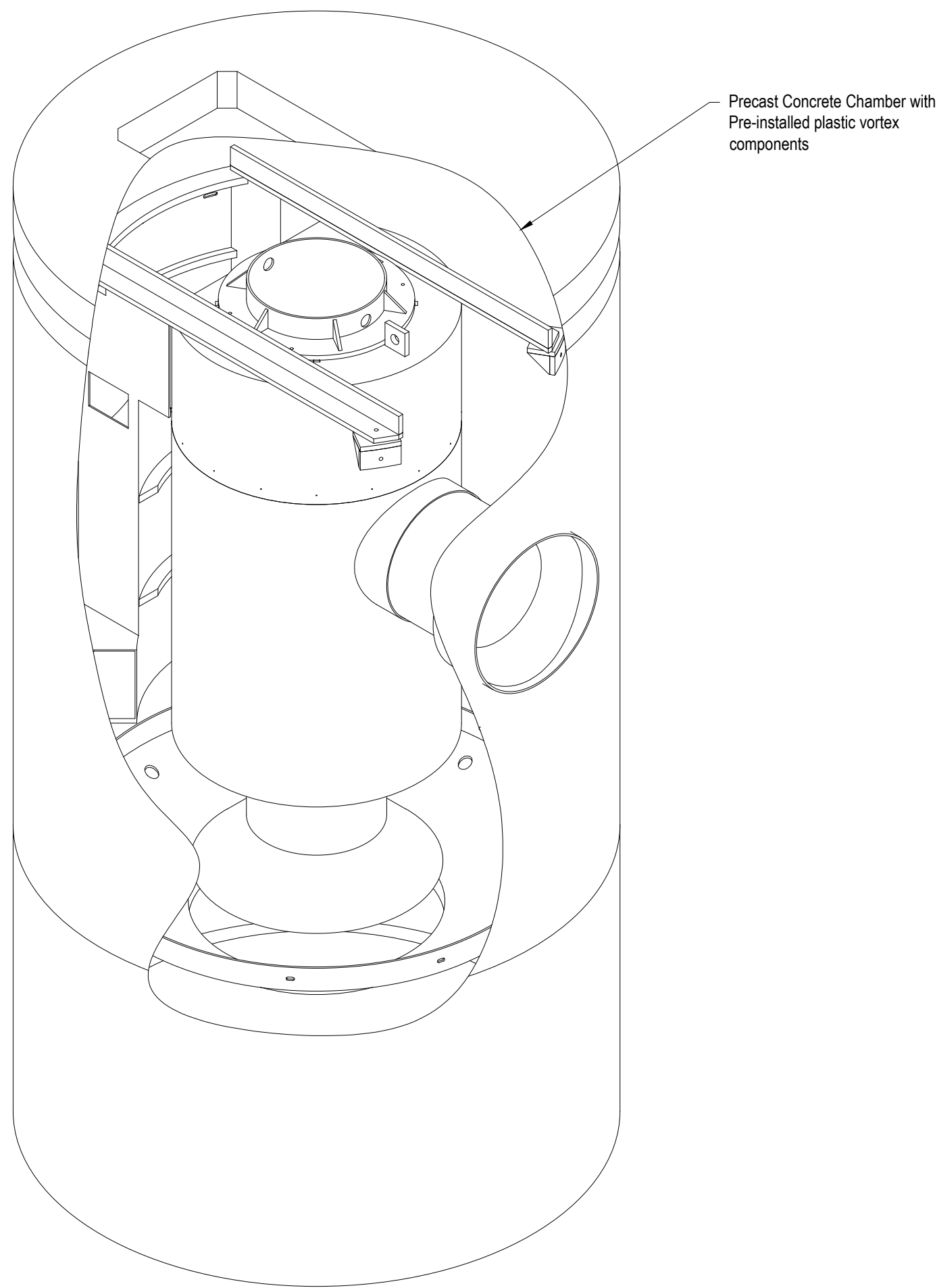
- The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
- The treatment system shall remove 80% or greater of TSS at the WQF.
- The treatment system shall treat all flows up to PTFR without bypass or loss stored pollutants.
- The Max. Headloss shall not be exceeded at PTFR with max. inlet pipe diameter.

DETAIL NOTES:

- A acceptable pipe coupler shall be used to connect the Hydrodynamic Vortex Separator Manhole's internal outlet stub to the storm drain.
- The diameter of the Hydrodynamic Vortex Separator Manhole's outlet stub is not adjustable. Any reducers required to match different stormdrain diameter must occur outside of the vortex chamber.
- The inlet pipe diameter must not be larger than the outlet pipe diameter.
- The tangential inlet pipe angle is not site specific. Refer to manhole schedules drawing.



Treatment System Specifications	
SDS Aqua-Swirl Model BYP	AS-4
Swirl Chamber Internal Diameter	1295mm
MAX Sub-out Pipe Outer Diameter BYP	660mm
Working Quality Treatment OK110 avg 110 micron	91.0 l/s
Working Quality Treatment OK110 avg 67 micron	45.0 l/s
Oil/Debris Storage Capacity	719 l
Sediment Storage	0.91 m3



INDICATIVE HYDRODYNAMIC VORTEX SEPARATOR MANHOLE

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This drawing must not be scaled. Use figured dimensions only. If in doubt ASK!
This drawing is to be read in conjunction with all relevant AKSWard drawings and specifications prefixed L251040

Notes:

- Invert levels and positions of existing drains / chambers / sewers where new connections are to be made must be checked and confirmed to the engineer prior to the commencement of any works.
- Any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected. Any structural defects shall be repaired using appropriate and approved means.
- All drainage works shall be carried out in accordance with the requirements of the Local Authority and in conjunction with all relevant British Standards, Code for Adoption and Sewerage Sector Guidance May 2021 and any Anglian Water addendums as appropriate.
- All drainage shall comply with the typical details and the requirements of BS EN 752 and Part H of the Building Regulations.
- For setting-out dimensions of SVP's, RWP's etc, refer to Architect's or Mechanical Engineer's drawings. Positions shown are indicative and subject to final design.
- All runs connecting into the public drainage network to be vitrified clay, extra length to BS EN 295 or BS65 with plain sleeved or socketed flexible joints.
- All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
- Manhole covers and frames shall be to BS EN 124 and shall be Kitemarked. Covers and frames shall be heavy duty D400 in carriageways and vehicular areas and medium duty B125 in footways and soft landscaping. All Adoptable Manhole Covers shall be heavy duty D400.
- MH covers in paved areas to have cover & frame orientated 'square' with paving to minimise cut slabs or blocks. Blocks to be bedded in epoxy resin mortar. All recessed covers shall in accordance with the FACTA specification and load ratings.
- Cover levels are to be adjusted locally to suit finished ground levels.
- All threshold drainage channels to be ACO MD100SD and general drainage channels to be ACO MD100D.
- Where new sewers are constructed within 5m of a new or existing tree the sewer shall be concrete encased against root intrusion. Refer to drainage details.
- All new drainage to be jetted and CCTV surveyed on completion and tested in for water tightness by a suitable method in accordance with Part H of the Building Regulations and the Specification. Contractor to make sure that the drainage is fully operational. Refer to drainage maintenance manual for maintenance details.
- Refer to drainage maintenance manual for maintenance requirements.
- HEALTH AND SAFETY:** The works shall be carried out by specialist competent and experienced contractors who are members of a recognised national organisation. Operatives shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.

P01	First issue for planning	MW	KL	27/05/26
Rev.	Amendment	Dm	Chkd	Date

Drg Status	PRELIMINARY	Suitability	S2
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Client **Eastleigh Borough Council**

Project **Maple Place
Chamberlayne Road, Eastleigh
SO50 5HX**

Title **Drainage Details
Sheet 3**

Scales A1 @ NTS Project No. **L251040**

Reviewed Scheme KL Date 27/05/2026

Reviewed Final - Date -

Project Ref Originator Zone Level Type Role Drg.No Rev.

MPE - AKSW-XX - XX-DR - C - 9253 - P01