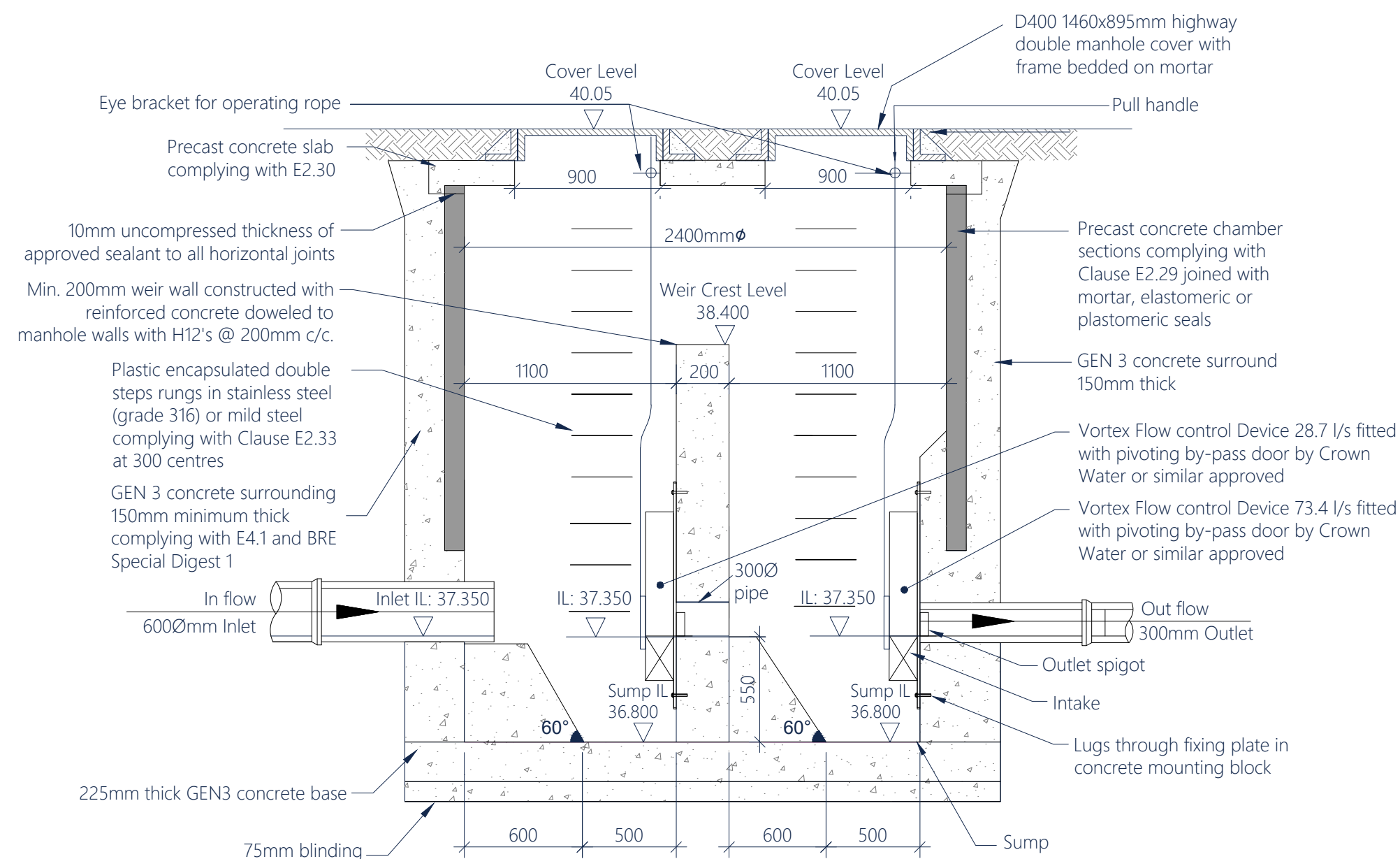
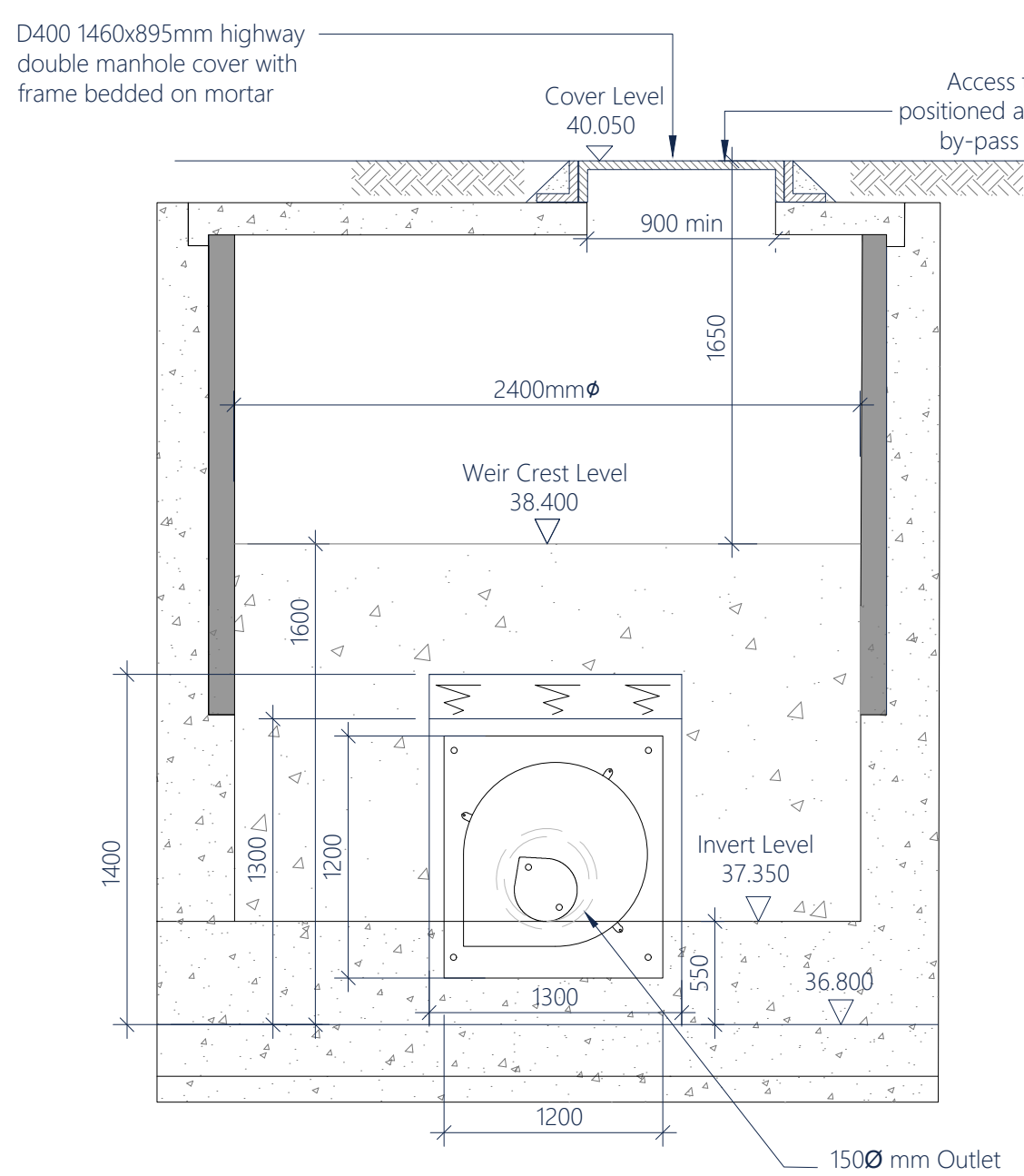
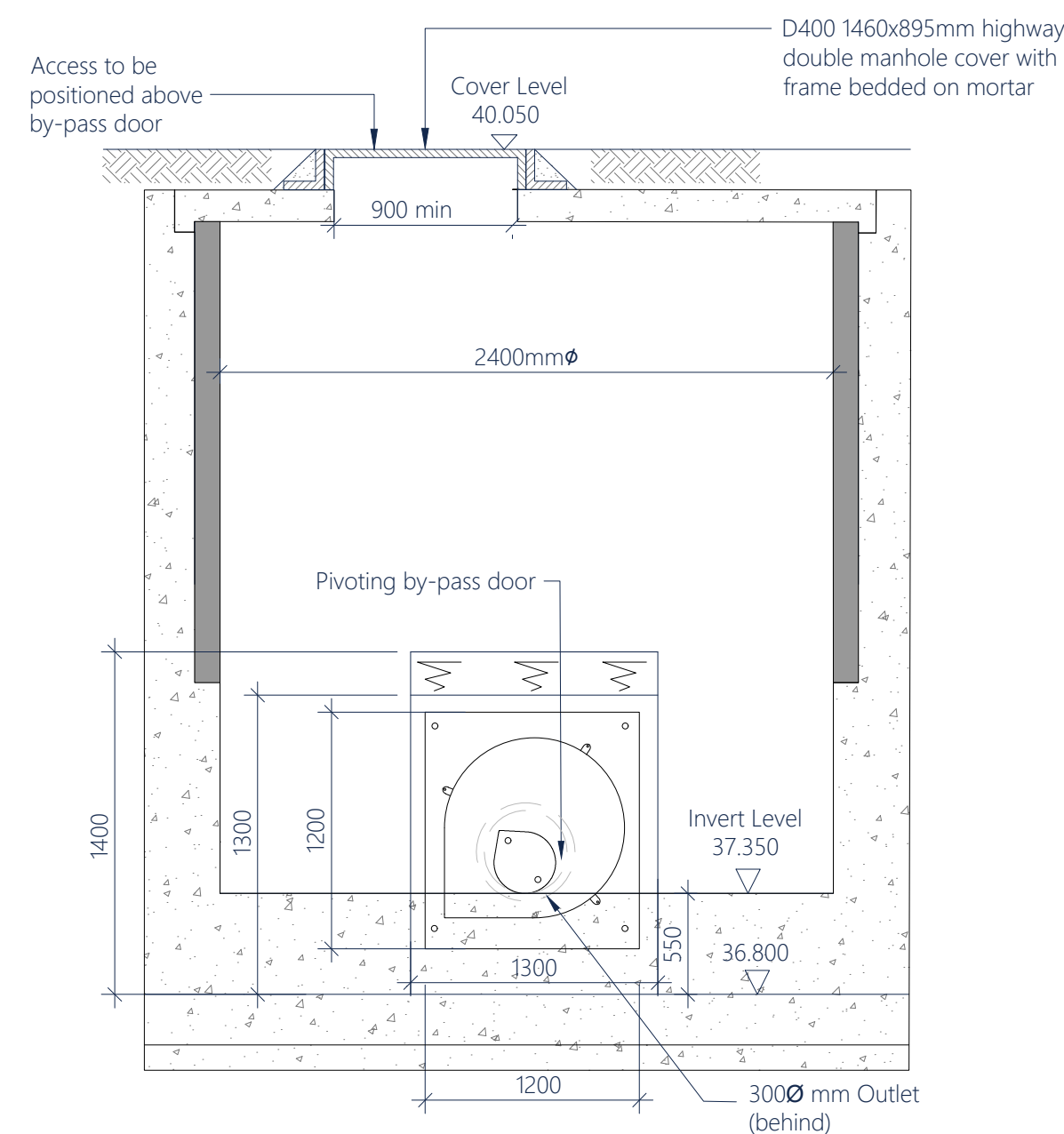




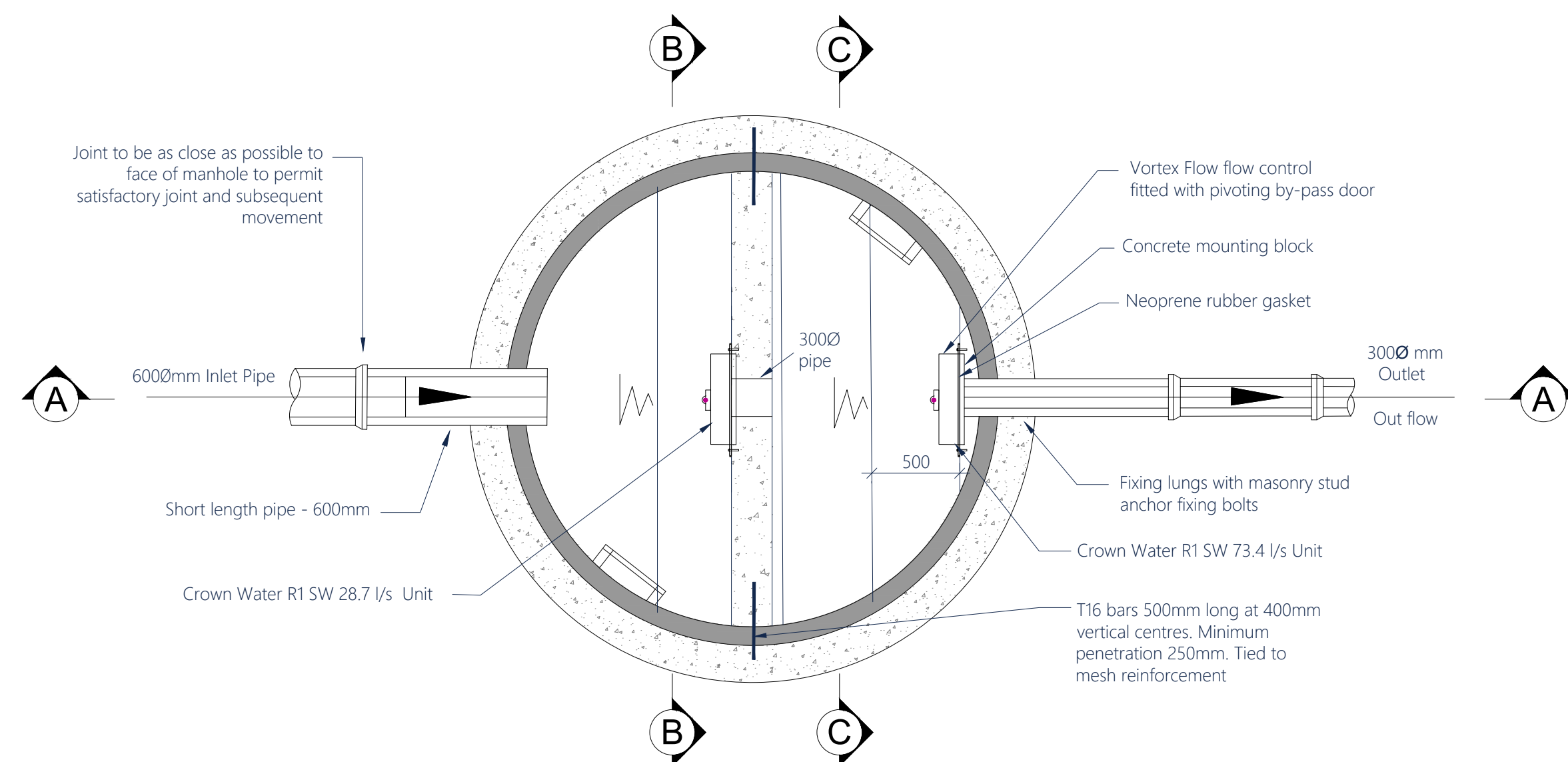
COMPLEX CONTROL CHAMBER - SECTION A - A



COMPLEX CONTROL CHAMBER -
SECTION B - B



COMPLEX CONTROL CHAMBER -
SECTION C - C



COMPLEX CONTROL CHAMBER DETAIL REFER TO MANHOLE S10 COM

Complex Control Chamber Detail Table						
Manhole	Internal Manhole size	Flow Control Device	Design Head	Design Flow	Diameter	Invert Level
S10 COM	2400Ø	Crown Water R1 SW	0.700m	28.7 l/s	241mm	37.350m
		Crown Water R1 SW	2.100m	73.4 l/s	293mm	37.350m

- GENERAL NOTES:
1. DO NOT SCALE FROM THIS DRAWING.
 2. ALL PRIVATE DRAINAGE SHALL BE IN ACCORDANCE WITH BS8303 AND RELEVANT SECTIONS OF APPROVED DOCUMENT H OF THE BUILDING REGULATIONS AND BS EN 752.
 3. ALL ADAPTABLE SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST EDITION OF BS EN 12056 SECTOR GUIDANCE - DESIGN & CONSTRUCTION CODE GUIDANCE.
 4. THE CONTRACTOR IS TO CHECK THE LEVEL OF EXISTING SERVICES BEING USED AS OUTFALLS OR CROSSING PROPOSED DRAINAGE RUNS PRIOR TO LAYING ANY PIPES. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
 5. ALL CONNECTIONS FOR FOUL DRAINAGE SHALL BE 100mm UNLESS NOTED OTHERWISE. ALL CONNECTIONS WHEN LAID SHALL BE PLUGGED, PROTECTED AS NECESSARY AND MARKED WITH A STAKE FOR FUTURE USE.
 6. ALL CONNECTIONS FOR STORM DRAINAGE SHALL BE 150mm UNLESS NOTED OTHERWISE. ALL CONNECTIONS WHEN LAID SHALL BE PLUGGED, PROTECTED AS NECESSARY AND MARKED WITH A STAKE FOR FUTURE USE.
 7. FOR PRIVATE DRAINS WHERE COVER TO PIPES IS LESS THAN 900mm IN VEHICULAR AREAS OR 800mm IN OTHER AREAS PROTECTION IN THE FORM OF TYPE Z BEDDING SHALL BE USED.
 8. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS LINTELS ARE TO BE PROVIDED OVER, UNDER AND ABOVE PIPES SHALL BE PROVIDED WITH 150mm THICKNESS OF GRANULAR MATERIAL. WHERE DRAINS PASS WITHIN OF BUILDINGS THE WALL FOUNDATION SHALL BE TAKEN DOWN BELOW THE INVERT OF THE PIPE.
 9. ALL GULLIES AND RAINWATER DOWNPIPES CONNECTED DIRECTLY TO DRAINS ARE TO BE RODDABLE.
 10. ALL GULLIES TO BE TRAPPED.
 11. ALL DRAINAGE SHALL BE LAID UPSTREAM AND EACH RUN BETWEEN MANHOLES SHALL BE LAID COMPLETE PRIOR TO BACKFILLING. WHERE THIS IS NOT PRACTICAL TRAIL HOLES OR OTHER MEANS OF IDENTIFYING THE LINE AND LEVEL OF SERVICES SHALL BE CARRIED OUT PRIOR TO WORKS COMMENCING.
 12. INTERNAL FOUL DRAINAGE TO BE LAID AT A MINIMUM GRADIENT OF 1 IN 40 IN ACCORDANCE WITH BS830.
 13. THE FIRST MANHOLE UPSTREAM FROM THE CONNECTION POINT TO THE (EXISTING) PUBLIC SEWER SHOULD, WHEN CONSTRUCTED BE FITTED WITH A TEMPORARY SCREEN IN ORDER TO PREVENT DEBRIS ENTERING THE PUBLIC SEWER. THE SCREEN SHOULD NOT BE REMOVED UNTIL IMMEDIATELY PRIOR TO THE OCCUPATION OF THE PREMISES TO BE SERVED BY THE SEWER.
 14. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE.
 15. SETTING OUT TO BE CONFIRMED BY THE ARCHITECT.
 16. ALL INTERNAL FOUL DRAINAGE TO BE TRAPPED AND OR HAVE DOUBLE SEALED MANHOLE LIDS AS REQUIRED TO COMPLY WITH BUILDING REGS.
 17. ALL EXISTING DRAINAGE LEVELS, DIAMETERS & LOCATIONS NEED TO BE CHECKED ON SITE PRIOR TO ANY DRAINAGE WORKS, AND ANY DISCREPANCIES NEED TO BE REPORTED BACK TO THE ENGINEER.
 18. COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
 19. ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN 124. MANHOLE COVERS WITHIN BLOCK PAVED AREA AND BUILDINGS SHALL BE RECESSED. COVER STRENGTHS TO BE:
 - CLASS E600 IN AREAS OF HEAVY LOADING (IE HGV AREAS)
 - CLASS D400 IN TYPICAL TRAFFICKED AREAS
 20. ALL CONCRETE TO DRAINAGE, MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE ON AGGRESSIVE GROUND. REFERS TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
 21. ALL MANHOLES, PIPE TRENCHES ETC. TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS 6F1-6F5 (CAPPING MATERIAL) TO (SHW) TABLE 6F1 & COMPACTED IN ACCORDANCE WITH TABLE 6F4.
 22. ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING. USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
 23. ALL PIPELINES SHALL BE SUBJECT TO A POST COMPLETION JET & CCTV SURVEY WITH VIDEO FOOTAGE & PDF REPORT IN LINE LATEST VERSION OF THE WRC MANUAL OF SEWER CLASSIFICATION.
 24. SITE SPECIFIC NOTES
 25. SURFACE WATER RUNOFF FROM THE YARD TO DRAIN INTO FOUL WATER SEWER DUE TO RISKS OF POLLUTANTS AND INFECTIOUS MATERIAL, THIS IS SUBJECT TO A DRAFT EFFLUENT CONSENT FROM SEVERN TRENT WATER.
 26. IN THE EVENT OF A FIRE, PEN CLOSERS ON ALL PIPES DISCHARGING TO THE FIRE FIGHTERS ARE TO BE INSTALLED IN ORDER TO PREVENT CONTAMINATED WATER FROM BEING DISCHARGED. ANY WATER USED TO FIGHT FIRES WILL BE CONTAINED ONSITE AND DISPOSED OF AS HAZARDOUS WASTE.
 27. THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL, SEWERAGE UNDERTAKER AND THE ENVIRONMENT AGENCY. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT RISK.

00	FIRST ISSUE	TP	03/03/23
REV:	DESCRIPTION:	BY:	DATE:

STATUS: **TENDER**

CLIENT: SRCL Ltd

SITE: SRCL, KNOWSLEY, MERSEYSIDE

TITLE: DRAINAGE CONSTRUCTION
DETAILS SHEET 3



SCALE AT A1: NTS	DATE: 03-03-23	DRAWN: TP	CHECKED: WW
PROJECT NO: 21-305	DRAWING NO: 90-125-3		REVISION: 00