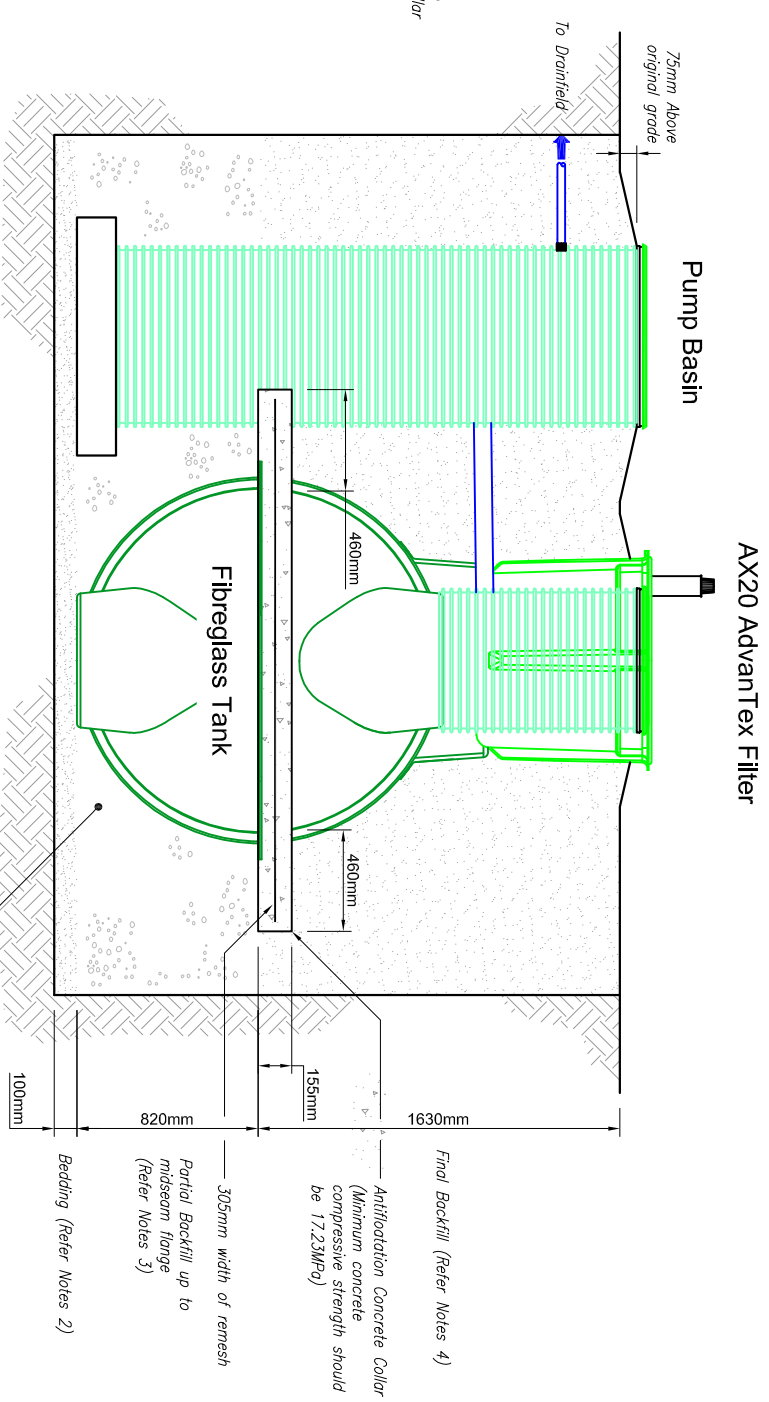


**Plan**



**Side Elevation**

**Notes:**

**1, Determine whether an Anti-buoyancy Collar is needed**

If groundwater is present or if there is any other condition that is likely to cause the tank to become buoyant, you may need to pour a reinforced concrete concrete collar around the tank as supplemental ballast.

If backfill material used is cohesive (cohesive soils include clayey silt, sandy clay, silty clay, clay and organic clay), no supplemental ballast should be necessary.

If the backfill material used is noncohesive (soils include gravel, sand, or silt with little or no clay content) no supplemental ballast is necessary as long as the minimum depth of bury is 792mm. For tanks set more shallowly, you'll need to add a concrete collar.

**2, Bedding**

At least 100mm thick of compacted sand, pea gravel or other granular material less than 10mm in diameter overlying a firm, compacted and uniform base.

Do not set the tank directly on boulders or rock edges. If sand bedding is used, lightly moisten the sand to compact it, but do not saturate it; or the underlying soil may become unstable.

**3. Partial Backfill**

Backfill material should have a uniform gradation and be free of stones larger than 64mm diameter. 15mm or smaller crushed rock or pea gravel is required. Do not use sand. If use flowable concrete material instead of granular material, the layering and compacting steps are not necessary.

Place a 400mm layer of backfill, using a mechanical compactor, thoroughly compact the fill, especially in the haunch zone, to minimize settlement and to provide support for the tank walls.

**4, Final Backfill and Grading**

Complete the remaining backfill and compaction above the midseam flange to the finish grade in maximum 610mm layers. Place the backfill material gently if you poured a concrete collar that day.

Flowable concrete material may be used above the midseam for the backfill, as can native soil if it does not contain rocks.

Make sure the risers extend a minimum of 75mm above the original grade to allow for settling and to ensure drainage away from risers.

Backfill and compact around the inlet and outlet fittings by hand.



GRAPHIC SCALE (m)