

NOTES -CONT....

12. Where two pipelines cross with less than 300mm cover, surround each pipe with a full concrete bed and surround (class Z detail) for not less than 1m centered on the crossing and extended as required to within 150mm of the nearest flexible joint.

- 13. Selected backfill material shall consist of uniform soil, free from stones larger than 40mm, clay lumps larger than 75mm, tree roots, contaminated material. Selected backfill material is to be placed in layers not exceeding 150mm thickness. Should the excavated material be unsuitable or weather conditions affect the materials stability, then a suitable hard granular material shall be used.
- 14. No mechanical compaction of fill material shall be permitted within 300mm above the barrel/crown of the pipe.
- 15. General backfill to drainage trenches in vehicular trafficked areas above the pipe bedding detail, shall be suitably selected material (in accordance with BS: 8301 clause 5.7.6.1.) and be placed in layers not exceeding 225mm, each layer compacted to form a stable trench backfill, should the material be unsuitable or weather conditions affect the materials stability, then a hard granular material shall be used up to formation level.
- 16. All separators shall be in accordance with the environment agency document PPG3.
- 17. All below ground plastic/grp tanks shall be installed in accordance with the manufacturers instructions. They shall be provided with sufficient concrete surround to counter floatation and shall have a wall thickness adequate to resist the highest ground water level which could be encountered at their location.
- 18. All excavations in areas of high water tables and granular materials with high sand/silt contents shall be wrapped with a suitable geotechnical filter membrane to prevent migration of sands/silts. Full height clay stanks across trenches and/or at manhole locations at 25m intervals to restrict water movement along the excavation shall be provided.
- 19. Where utility/land drainage trenches etc cross over drainage trenches, the contractor shall construct an impermeable barrier to prevent groundwater infiltrating into the drainage trench.
- 20. Non-man entry access chambers shall comply with the relevant provisions of BS:EN 752-3.

A1 - Do Not Scale

that which a competent contractor should be aware.

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Contractors should refer to the residual risks contained in the CDM Pre Construction Information before carrying out any site operations and should not issue parts of this drawing without including the CDM notes and references. This information will include details of the SIGNIFICANT risks which 3E have considered beyond

NOTES -

- This drawing is to be read in conjunction with all relevant 3E, architect and M&E consultants drawings and project specifications.
- 2. All building drainage works shall be carried out in accordance with the relevant parts of BS EN:752 'Drains and Sewer Systems Outside Buildings', the current building regulations and the local authority building control specifications and requirements.
- All insitu and precast concrete products shall comply with class DS1 requirements for sulphate exposure in accordance with BRE Special Digest 1, Concrete in Aggressive Ground (2001) Part 1: Table 2.
- All precast concrete products shall comply with the relevant provisions of BS:5911 and be Kitemarked. All precast concrete pipes shall be class 120 and comply with the requirements of note 3 above.
- All vitrified clay pipes and fittings shall comply with the relevant provisions of BS EN:295 and BS 65 respectively and be Kitemarked, all pipes shall be extra strength to BS 65 or equivalent BS EN:295 pipe crushing strength and be of a sleeved system.
- All u-PVC pipes and fittings shall comply with WIS 4-35-01 and shall be kitemarked.
- Manhole covers and frames shall comply with the relevant provisions of BS EN:124, have 675x675 clear openings unless otherwise specified and be of non-rocking design without cushion inserts and be Kitemarked. Load class D400 in trafficked areas and load class B125 in footways, landscaped and pedestrian areas. where required, covers shall be recessed to receive the architects specified finish.
- B. Gully grates and frames shall comply with the relevant provisions of BS EN:124 and be of non-rocking design with captive hinge access and be Kitemarked. Load class D400 in industrial estate roads and areas carrying regular heavy traffic and load class C250 in estate roads and car parking areas. In all road locations, the grate shall be hinged on the side of the traffic direction (left hand opening).
- 9. All external rigid pipework shall be laid with a class S pipe bedding detail with 1.2m minimum cover to the pipe barrel under vehicular trafficked areas, 0.9m cover under fields and 0.6m cover under footways/gardens. Where cover is less than that stated, a class A pipe bedding detail shall be used on pipes 225dia and larger, for pipes less than 225dia use a class Z pipe bedding detail. Under buildings a class S pipe bedding detail shall be used. Where there is less than 300mm between the barrel of the pipe and the underside of the structural floor slab, the pipe shall be cast integral with the floor slab with 150mm minimum concrete surround with vertical reinforcement tied into the slab.
- 10. All u-PVC pipework shall be laid with a class T pipe bedding detail with 1.2m minimum cover to the pipe barrel under vehicular trafficked areas, 0.9m cover under fields and 0.6m cover under footways/gardens. Where cover is less than that stated a class Q pipe bedding detail shall be used.
- Where concrete protection is required to pipework, the concrete shall be discontinued at each pipe joint over the full cross section of the concrete by means of a shaped compressible filler.

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	PRECAST CONCRETE SLAB	25/01/22 Date	Revisions	F	PRELIMINARY	(ISSUE		JF Drawn	P1 Rev.	
	1260Ø WITH 600 X 600MM OPENING	Purpose of	Issue	PRE	LIMIN	IARY		Drawing Sta	tus	
	GAP BETWEEN SLAB AND RESTRICTOR CAP TO BE FOAMED FILLED	6 Benton Office Park Bennett Ave, Horbury, Wakefield t 01924 240 420 wakefield@3econsult.com WW Devonshire, 8 Devonshire Square London EC2M 4PL t 07500 121 181 Iondon@3econsult.com							Plaza Way Park Tyne 9BA	
	RESTRICTOR CAP 6D930 WITH 350MM OPENING AND SEALING RING 5000TW117								191 230 2993 econsult.com	
	-SILT TRAP SHAFT									
	150Ø INLET PIPE	Client	MR HAF	RJIT S	SINGH	DEOL				
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		PRIVATE DRAINAGE CONSTRUCTION DETAILS								
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