

**NOTES**

1. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS PERIOD 300 SERIES DOCUMENTS. ANY CHANGES TO THESE DOCUMENTS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF WISC.
2. REFER TO DOCUMENT A29-CAP-HDG-00-SH-D-0025 FOR THE DRAINAGE MANHOLE AND PIPE SCHEDULE.
3. FOR WISC STANDARD DETAIL REFER TO THE FOLLOWING DRAWING: A. FOR CATCHPIT DETAIL REFER TO TYPE 7 CHAMBER (1050 CATCHPIT) DRG NO. HD0 F11.
4. INFILTRATION TANK UNITS TO BE SDS GEOLIGHT 200 WITH 500MM TRENCH.
5. INFILTRATION TANK UNITS TO BE LAD FLAT AND INSTALLED AS PER MANUFACTURERS RECOMMENDATION.

**INSTALLATION METHOD:**

1. EXCAVATE THE TRENCH TO THE REQUIRED DEPTH ENSURING THAT THE PLAN AREAS STARTLE 75MM DEEPER THAN THAT OF THE INFILTRATION TANK - MINIMUM 300MM TO ALLOW FOR COMPACTION.
2. LAY 700MM BED OF COARSE SAND/GRAVEL, LEVEL AND COMPACT. ALTERNATIVELY 75MM OF TYPE 3 AND A 25MM SAND BLINDING LAYER WOULD ALSO BE SUITABLE.
3. LAY THE GEOTEXTILE OVER THE BASE AND UP THE SIDES OF THE TRENCH.
4. LAY THE SDS GEOLIGHT UNITS PARALLEL WITH EACH OTHER IN MULTIPLE LAYER APPLICATIONS, WHEREVER POSSIBLE. CONTINUOUS VERTICAL JOINTS SHOULD BE AVOIDED. THE UNITS CAN BE LAD IN A BRICK BONDED FORMATION (IE. TO OVERLAP THE JOINTS BELOW).
5. WRAP AND OVERLAP THE GEOTEXTILE COVERING THE ENTIRE STRUCTURE.
6. LAY 100MM OF COARSE SAND BETWEEN THE TRENCH WALLS AND THE SDS GEOLIGHT UNITS AND COMPACT.
7. THE SDS GEOLIGHT UNITS AND COMPACTED GEOTEXTILE AND SAND SHOULD BE COVERED WITH SUTRABLE BACKFILL MATERIAL.
8. A STORAGE TANK MUST BE VENTED. AND IT IS RECOMMENDED THAT ONE VENT PIPE 110MM IN DIAMETER IS PROVIDED PER 7500 SQUARE METRES OF IMPERMEABLE CATCHMENT AREA ON A SITE.

**GEOTEXTILE SPEC.**

**GEOTEXTILE:**

- 300G NON-WOVEN WITH SEWN OR GLUED JOINTS.
- IT IS CRUCIAL THAT THE SPECIFIED MATERIAL WILL:
- a. WITHSTAND THE RIGOURS OF INSTALLATION
- b. RESIST PUNCTURE
- c. RESIST MAXIMAL ELONGATION STRESS AND STRAINS
- d. ASSOCIATED WITH SETTLEMENT
- e. RESIST DAMAGE FROM ROOTS, GRASSING
- f. RESIST DAMAGE FROM GROUND CONTAMINANTS
- g. REMAIN INTACT FOR THE FULL DESIGN LIFE OF THE INSTALLATION.

**BACKFILL SPECIFICATION:**

- BACKFILL TO BE COMPACTED GRANULAR MATERIAL, TYPE 10R TYPE 2). TRACKED EXCAVATORS NOT EXCEEDING 21 TONNES WEIGHT) SHOULD BE USED TO PLACED FILL OVER THE SDS GEOLIGHT UNITS
- AT LEAST 300MM OF TYPE 1 FILL SHOULD BE PLACED OVER THE UNITS BEFORE TRACKED EXCAVATOR NOT EXCEEDING 21 TONNES WEIGHT) DELIVERING THE BACKFILL ARE ALLOWED TO TRAFFIC OVER THE UNITS.
- COMPACT IN 150MM LAYERS AFTER THE INITIAL 300MM LAYER. COMPACTON PLANT SHOULD NOT EXCEED 2300KG/M WIDTH.

REV	NO	DATE	DESCRIPTION	BY	CHECKED
001	01	27.07.20	ISSUED FOR TENDER	AS	KS
002	02	27.07.20	REVISED TO REFLECT COMMENTS	AS	KS
003	03	27.07.20	REVISED TO REFLECT COMMENTS	AS	KS

**For Comment and review S3**

Purpose of Issue **S3** Status

Classification **Commercial in Confidence**

Client **West Sussex County Council**



Project **A29 Realignment Scheme**

Drawing **Typical Details for SDS Infiltration tanks**

Scale @	Drawn	Checked	Approved
A3 SHOWN	LR	AZ	KS

Project No. **27.07.20**

Drawing Identifier **CS097562**

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Revision **P03**

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