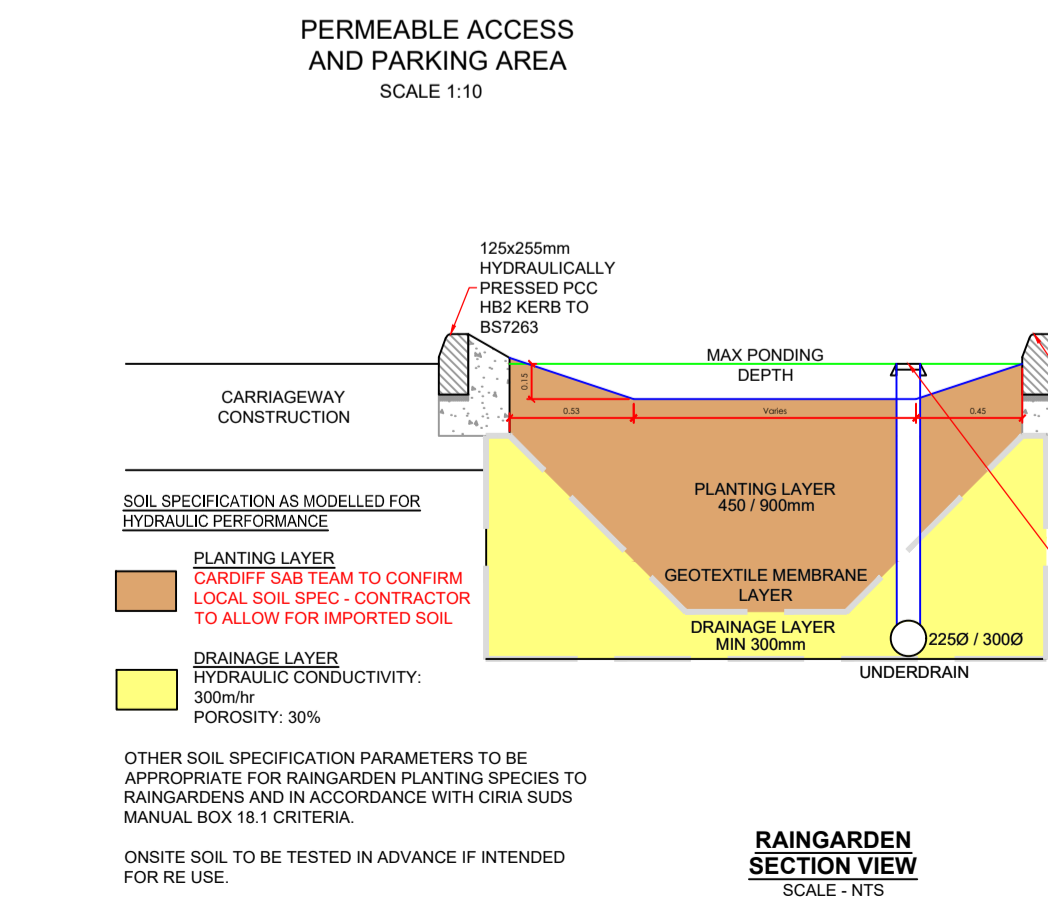
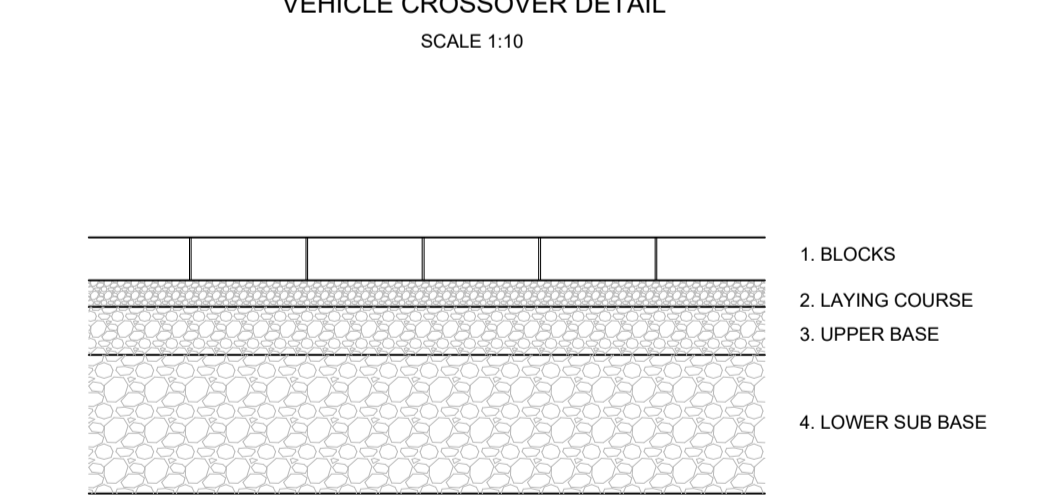
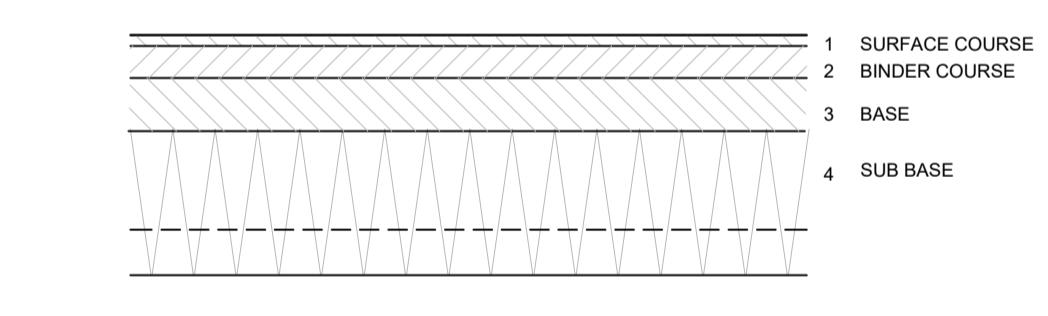
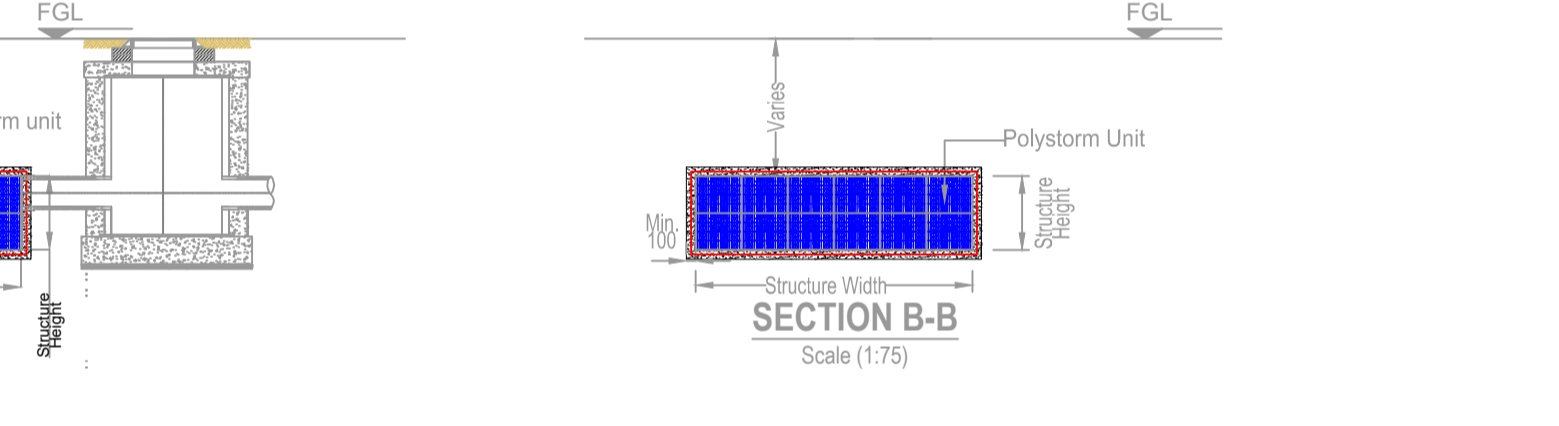
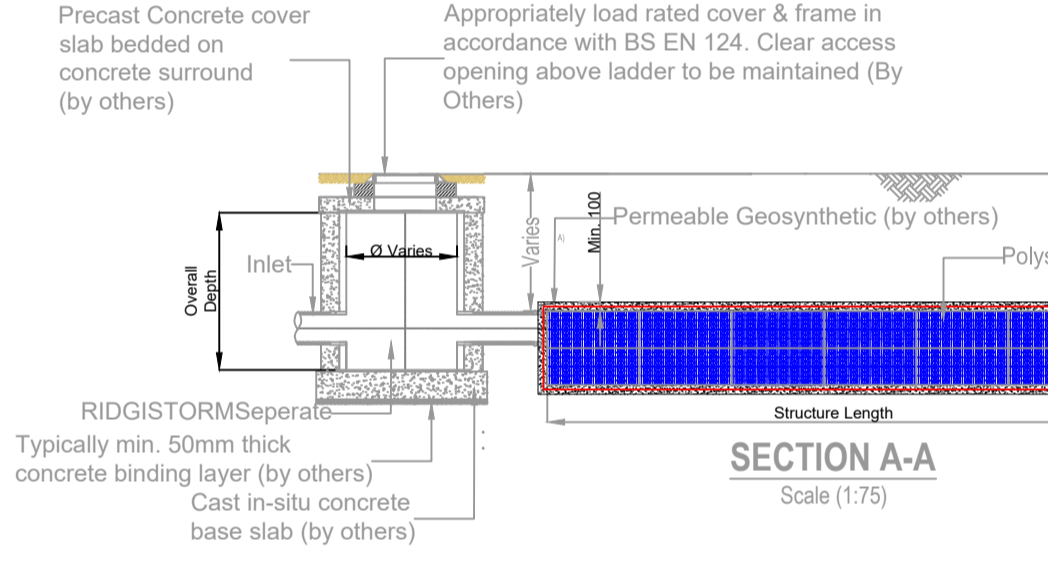
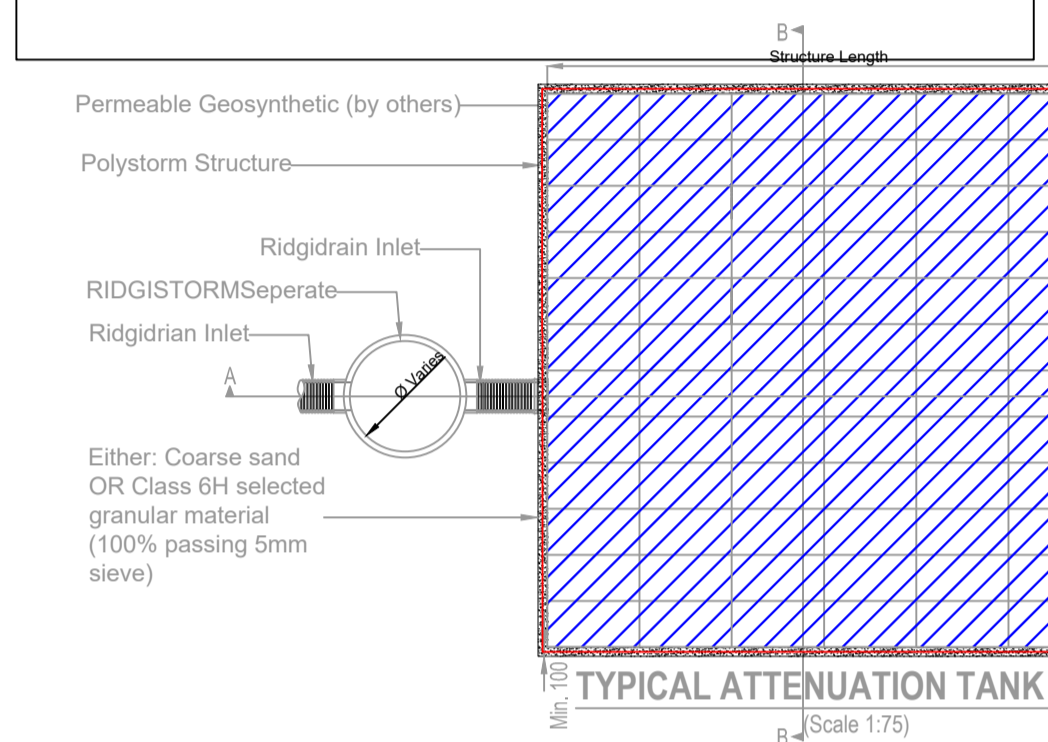


DRAINAGE PHILOSOPHY
SURFACE WATER

- DRAINAGE PROPOSALS ARE ILLUSTRATIVE OF DESIGN INTENT AND REMAIN SUBJECT TO DETAILED DESIGN AND SAB APPROVAL
- GROUND INVESTIGATION UNDERTAKEN BY TERRA FIRMA (REF 13601, MAY 2016) DETERMINED THE UNDERLAIN GROUND CONDITIONS UNSUITABLE TO SUPPORT INFILTRATION
- DISCHARGE RATES TO BE RESTRICTED TO GREENFIELD RATES BY FLOW CONTROL WITH APPROPRIATE ON-SITE ATTENUATION MEASURES.
 - SITE SPECIFIC GREENFIELD RATES BY FEH / REFH2 METHOD;
 - CARDIFF COUNCIL DEFAULT MINIMUM 2.5l/s & Q100: 6.00l/s/Ha
 - APPLIED ON A PRO-RATA BASIS TO HARDSTANDING CONTRIBUTING AREAS WITH STORAGE PROVIDED TO CATER FOR THE Q100+40%cc STORM EVENT
- VARIETY OF SUDS FEATURES TO BE INTEGRATED INCLUDING RAINGARDENS, BIORETENTION FEATURES AND PERMEABLE PAVING TO PROVIDE DRAINAGE FUNCTION AND PROMOTE AMENITY AND BIODIVERSITY VALUES
- PROPOSED LEVELS INDICATIVE OF DESIGN INTENT AND PRINCIPLES OF FALLS REQUIRED FOR SUDS FEATURES TO ACT IN CASCADE / SEQUENCE AND REMAIN SUBJECT TO DETAILED DESIGN.
- EXISTING WATERCOURSE TO BE UTILISED IN SURFACE WATER STRATEGY. WATERCOURSE TO BE SURVEYED & CLEANED AND CONNECTIONS WILL BE SUBJECT TO OWC APPROVALS.
- PROPOSED SURFACE WATER STRATEGY WILL REQUIRE SOME ALTERATIONS TO PROPOSED BOUNDARY FEATURES ON SITE PLAN TO ALLEVIATE SOME 'LANDLOCKED' AREAS. (SEE NOTES ON PLAN). FURTHER ENHANCEMENTS TO THE SURFACE WATER STRATEGY MAY BE POSSIBLE WITH FURTHER CHANGES.

- FOUL**
- PROPOSED DEVELOPMENT TO DRAIN FOUL DISCHARGE TO EXISTING DCWW PUBLIC SEWERAGE NETWORK ON PLOT FOUL DRAINAGE OMITTED FOR CLARITY SUBJECT TO DCWW APPROVALS; S104 AND S106 AGREEMENTS REQUIRED
 - PHASE 1 (WILLOWBROOK NORTH) FOUL DRAINAGE SOLUTION WILL BE UTILISED AND ALREADY HAS AN AGREED SECTION 104 IN PLACE



NOTES

REV	DESCRIPTION	RE	RE	DATE
P1	FIRST ISSUE	RE	RE	25.09.24

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CLIENT: **WATES**

PROJECT TITLE: **WILLOWBROOK SOUTH**

DRAWING TITLE: **ENGINEERING LAYOUT STRATEGY**

DRAWN	CHECKED	APPROVED	DATE	SHEET SIZE/SCALE	GRAYS JOB NO.
NC	RE	RM	25.09.2024	1:500@A1	10156

SUITABILITY	SO	REVISION	P1
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DRAWING NUMBER: **10156-GRY-XX-XX-DR-C-004**