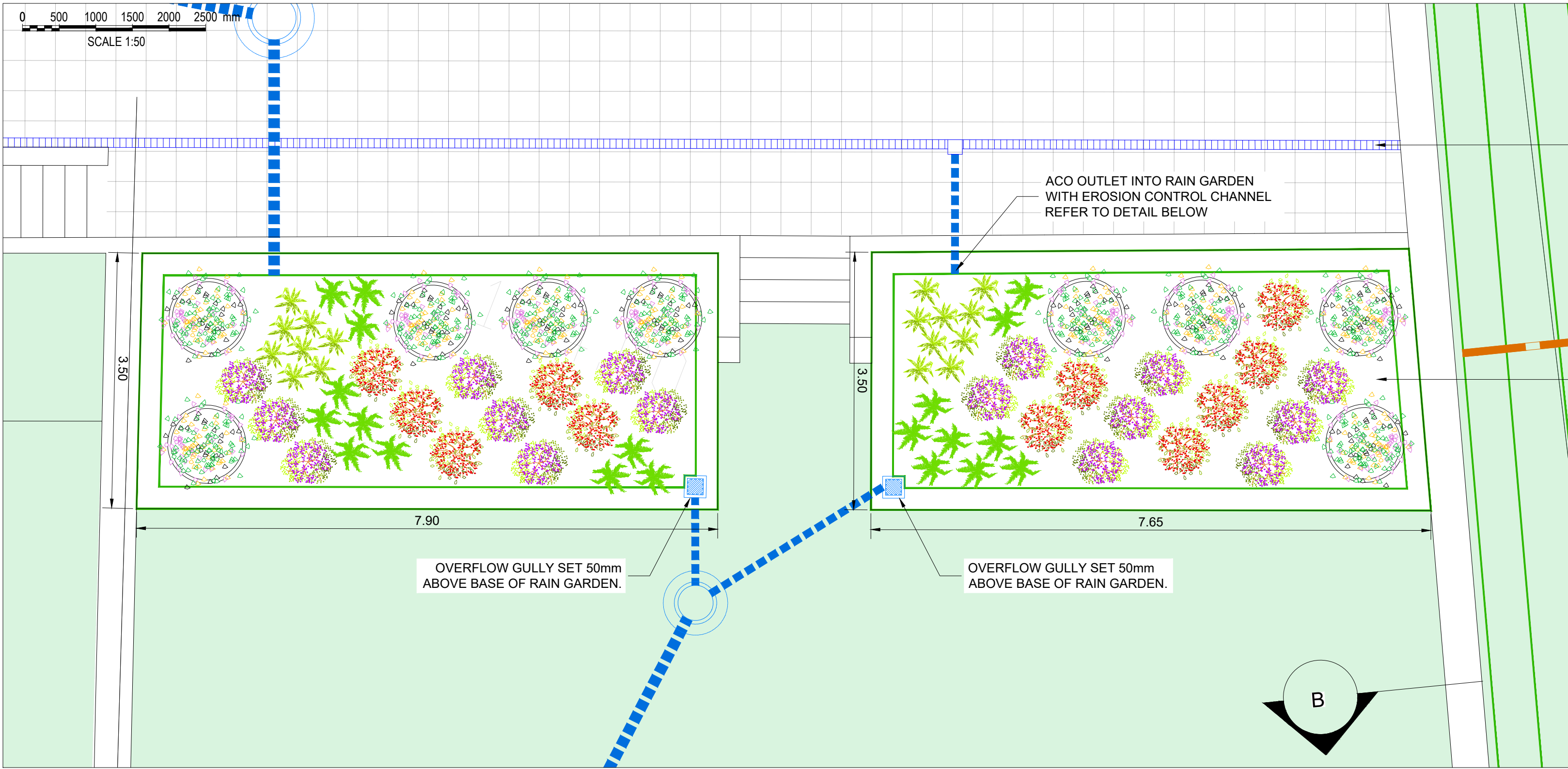
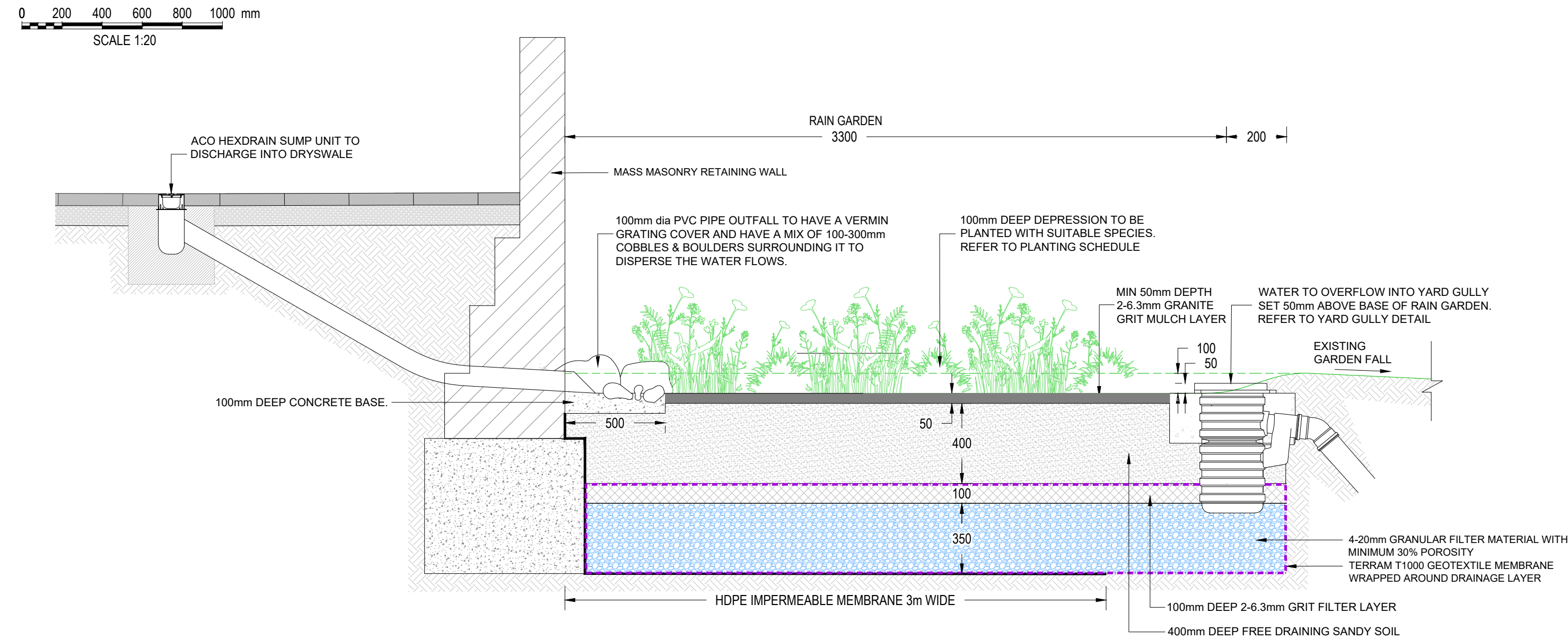




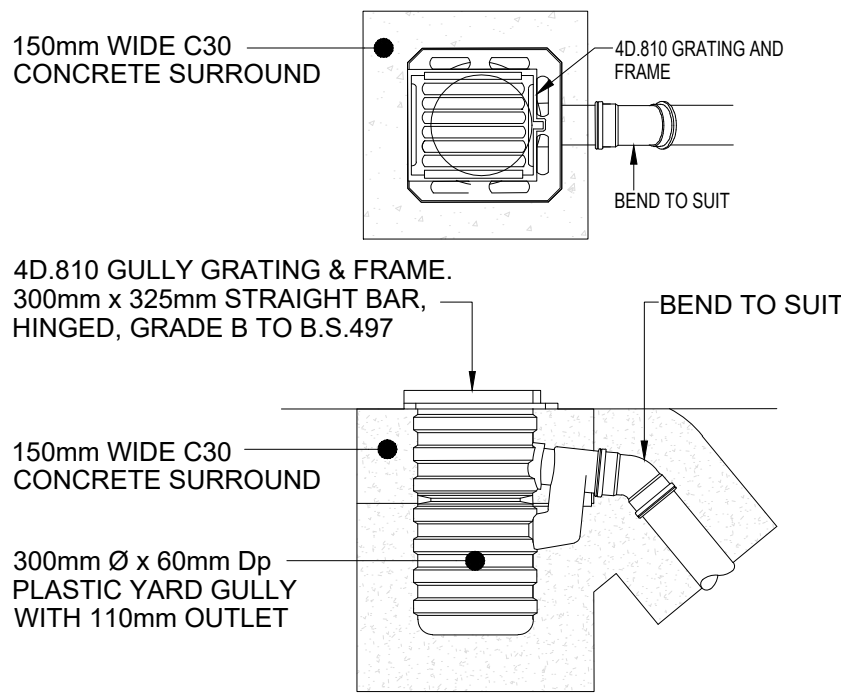
RG1.1 - GENERAL ARRANGEMENT

SCALE 1:50



RAIN GARDEN DETAIL

SCALE 1:20



OVERFLOW - YARD GULLY DETAIL

NOT TO SCALE

ACO HEXDRAIN CHANNEL DRAIN SET THE WIDTH OF THE SHARED DRIVE TO BE LOCATED COLLECT PART OF HIGHWAY RUN OFF.

RAIN GARDEN SET 1.5m FROM PLOT 1 HOUSE. SOUTHEAST FACING IN PARTIAL SHADE BY BUILDING.

TO BE PLANTED WITH SPECIES RECOMMENDED BY RAIN GARDEN GUIDE (<https://raingardens.info>)

MIN 4 DIFFERENCE SPECIES PLANTED IN GROUPS OF 2-3 per m². TO ENSURE THE BED IS FULL SHOULD ANY OF THE PLANTS NOT THRIVE.

RECOMMENDED SPECIES:

9 No. CULVERS ROOT - (Veronicastrum Viginicum)

16 No. BELLFLOWERS - (Campanula Glomerata)

11 No. MONBRETIA - (Crocosmia)

20 No. ZEBRA GRASS - (Miscanthus Sinensis)

17 No. YELLOW FLAG - (Iris pseudacorus)

REFER TO DRAINAGE STRATEGY REPORT FOR MORE INFORMATION.

GROUND PREPARATION:

- EXCAVATION TO B.S.8000 PART 1:1989. EXCAVATION MATERIAL TO BE REMOVED OFF-SITE. GOOD QUALITY SITE WON MATERIAL TO BE STORED AND REUSED. TOPSOIL STRIP TO BE REUSED.
- LANDSCAPE AREAS TO HAVE A MIN DEPTH OF 300mm OF GOOD SOIL BELOW GRASS AREA.
- SHRUB EXCAVATION 300x300x300mm DEPTH. BACKFILL SHRUB PITS WITH TOPSOIL INCLUDING MELCOURT TOPGROW PEAT FREE PLANTING COMPOST OR SIMILARLY APPROVED AT A RATE OF 1.0m³/20m³
- CULTIVATE ALL LANDSCAPE AREAS TO A LOOSE AND FRIABLE TILTH SUITABLE FOR GRASS SEEING OR PLANTING. COLLECTING AND REMOVING ALL SITE STONES, BUILDERS' RUBBLE AND OTHER DELETERIOUS MATERIAL OVER 50mm IN DIMENSION.

SOILS:

- SOIL USED IN PLANTING AREAS TO BE A MULTIPURPOSE TOPSOIL COMPLIANT WITH THE BS3882:2015. THE MULTIPURPOSE TOPSOIL CAN EITHER BE NATURAL OR MADE FROM A MIXTURE OF COMPOST, SAND AND SUBSOIL. SOIL USED IN SUDS FEATURES ARE REQUIRED TO MEET THE FILTRATION SPECIFICATION SET OUT BELOW. ADVICE FROM A SOIL OR LANDSCAPE SCIENTIST SHOULD BE CONSIDERED TO ENSURE THAT SOILS ACHIEVE THE DESIRED PLANT GROWTH AS WELL AS BEING SUITED TO THE SPECIFIC SUDS FUNCTIONS PROPOSED.

FILTRATION SOIL SPECIFICATION:

- THE SATURATED HYDRAULIC CONDUCTIVITY (PERMEABILITY) OF THE SOIL, WHICH IS TO BE CHECKED IN SITU USING THE SINGLE RING INFILTRATION TEST METHOD TO BS EN ISO 22282-5:2012 SHOULD BE BETWEEN 100mm/hr AND 300mm/hr OR CONFIRMED BY THE SUPPLIER. THE TOTAL POROSITY SHOULD BE >30% WHEN TESTED IN ACCORDANCE WITH BS 1377-2:1990

TRANSITION LATER/GEOTEXTILE SEPARATOR LAYERS:

- TO ENSURE THAT SOIL PARTIALS ARE NOT WASHED FROM ONE LATER TO ANOTHER A TRANSITION LATER OR GEOTEXTILE SEPARATOR IS TO BE USED. UNLESS STATED OTHERWISE PERMEABLE MEMBRANES WILL BE USED UNDER THE SUDS SYSTEMS TO ENSURE INTERCEPTION CAN BE MEET ON SITE. REFER TO DRAINAGE DETAILS FOR MEMBRANE SPECIFICATIONS.

DRAINAGE LAYERS:

- THE DRAINAGE LAYERS IS TO BE MORE PERMEABLE THAN THE FILTER MEDIUM AND MAY CONSIST OF FILTER DRAIN MATERIALS (COMPLIANT WITH BE EN 13242) OR SUB-BASE MATERIALS (SET OUT IN CHAPTER 20 OF THE SUDS MANUAL CIRIA 753). THE MATERIAL USED IS NOT TO CONTAIN FINE PARTICLES OR CONTAMINATE RUN OFF.

FERTILISER:

- FERTILISER COMPRISING OF ORGANIC MATERIAL TO BE USED FOR NEW PLANTING, WITH INORGANIC FERTILISERS OF THE APPROPRIATE NPK COMPOSITION ONLY USED TO ADDRESS AND SOIL NUTRIENT DEFICIENCIES. WHERE FERTILISER ARE USED WITHIN SUDS, TO REDUCE RAPID RUNOFF THEY SHOULD BE WORKING INTO THE SOIL DURING CULTIVATION, AND DUE CONSIDERATION IS TO BE GIVEN TO POTENTIAL CONTAMINATION OF THE RECEIVING WATERCOURSE.

MULCH:

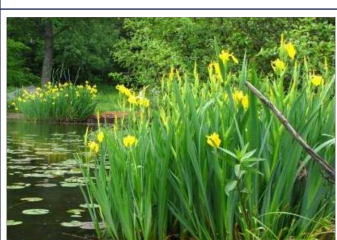
- PLANTING BEDS THAT ARE PART OF A SUDS, WHERE THE FLOW OF WATER IS ACROSS A PLANTED AREA OR WHICH IS OUTLET ABOVE GROUND, SHOULD USE GRAVEL OR PEBBLES.

GRASSED AREA:

- SUPPLY AND SPREAD PRE-SEEDING N:P:K FERTILISER (10:15:10) AT A RATE OF 30g/m²

MAINTENANCE:

- ALL LANDSCAPE AREAS TO BE MAINTAINED IN ACCORDANCE WITH B.S. 7370 PART 3:1991 AND PART 4:1993; INCLUDING WEED CONTROL.
- REPLACEMENT PLANS SUBSTITUTION SHOULD SUIT THE RECOMMEND PLANTING OR ALTERNATIVE SPECIES LISTED IN THE RAIN GARDEN GUIDANCE WHICH ARE A SIMILAR SIZE, FORM AND WATER DEMAND.
- PLANTING SHALL BE ARRANGED TO AVOID STRAIGHT LINES AND GEOMETRIC PATTERNS

PLANTING SCHEDULE				
Species	Habit	Sunlight Aspect	Photograph	Description
ZEBRA GRASS (Miscanthus Sinensis)	Perennial deciduous grass	Partial Shade (Okay)		A deciduous grass with arching, linear leaves bearing transverse bands of cream or pale yellow
BELLFLOWERS (Campanula Glomerata)	Herbaceous Perennial	Partial Shade (Okay)		Vigorous rhizomatous perennial to about 45cm tall, forming an extensive clump of erect stems bearing dark green ovate leaves, and dense terminal racemes of deep violet-blue or white, bell shaped flowers all summer
MONBRETIA (Crocosmia)	Deciduous rhizomatous perennial	Partial Shade (Okay)		A cormous, clump forming, herbaceous perennial with an upright growing habit up to 75cm tall when in flower. It has healthy, mid-green, blade-like leaves and strong, arching flower stems that bear orange and salmon-pink tubular flowers, with apricot throats, over a long period from mid to late summer
YELLOW FLAG (Iris pseudacorus)	Rhizomatous Perennial	Any (Okay)		Native yellow flowering seasonal iris that blooms between May – June and likes being near water. Located by inlets to prevent erosion.
CULVERS ROOT (Veronicastrum Virginicum)	Herbaceous Perennial	Partial Shade (Okay)		A tall, upright, herbaceous perennial to 2m with whorls of narrow, pointed leaves and branched stems topped with long spikes of tiny, white, occasionally purple or pink, flowers in summer

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
- DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.
- ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
- EXISTING DRAINAGE TAKEN FROM DCWW LOCAL RECORDS PROVIDED. THESE HAVE BEEN OVERLAID INDICATIVELY. THE SITE CONTRACTOR IS TO CONFIRM THE EXACT LOCATION OF DRAINAGE ONSITE.

rev.	drawn	chkd	approved	date	description
01	JW			22/04/24	ISSUED FOR SAB APPROVAL
Client					
PETER LINEHAM					
Project					
Y GOEDWIG, CARDIFF ROAD TREHARRIS CF46 5NQ					
Title					
EXISTING DRAINAGE PLAN					
LUTRA CONSULTANCY					
Email: joel@lutraconsultancy.co.uk					
date			drawn		
DECEMBER 2025			JW		
scale @ A1			project No.		
AS SHOWN			25068		
status	drg. no.		rev.		
P	504		01		