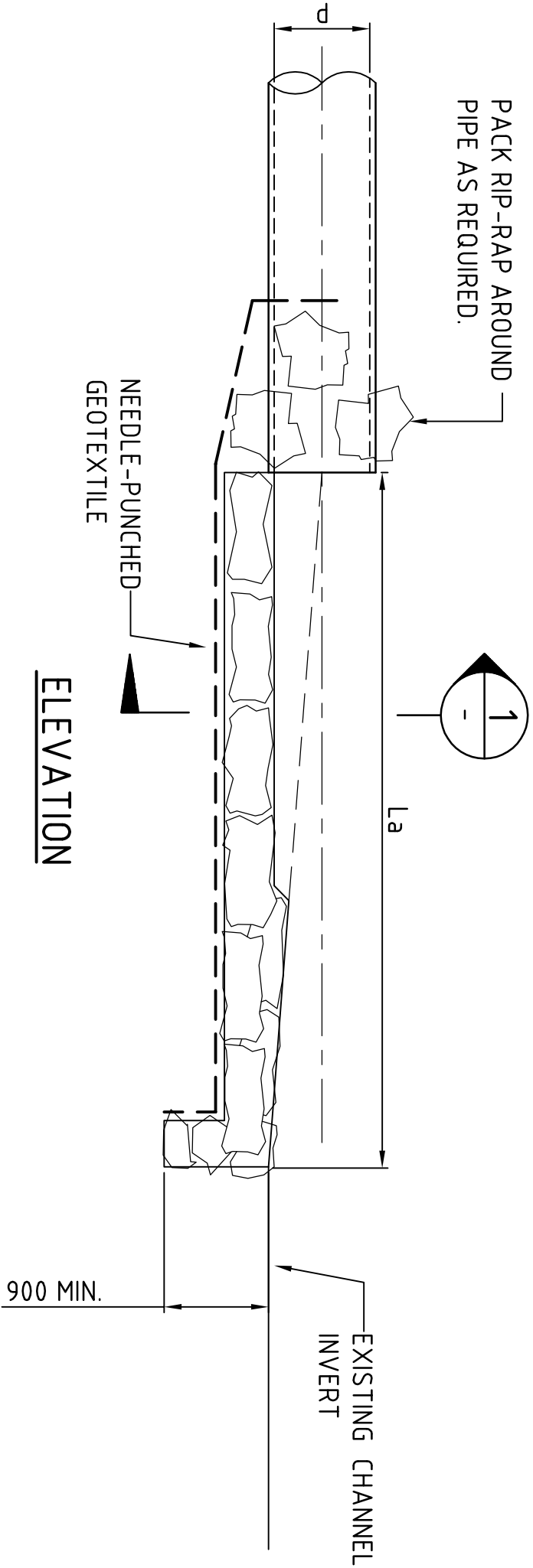


PLAN VIEW

SECTION



ELEVATION

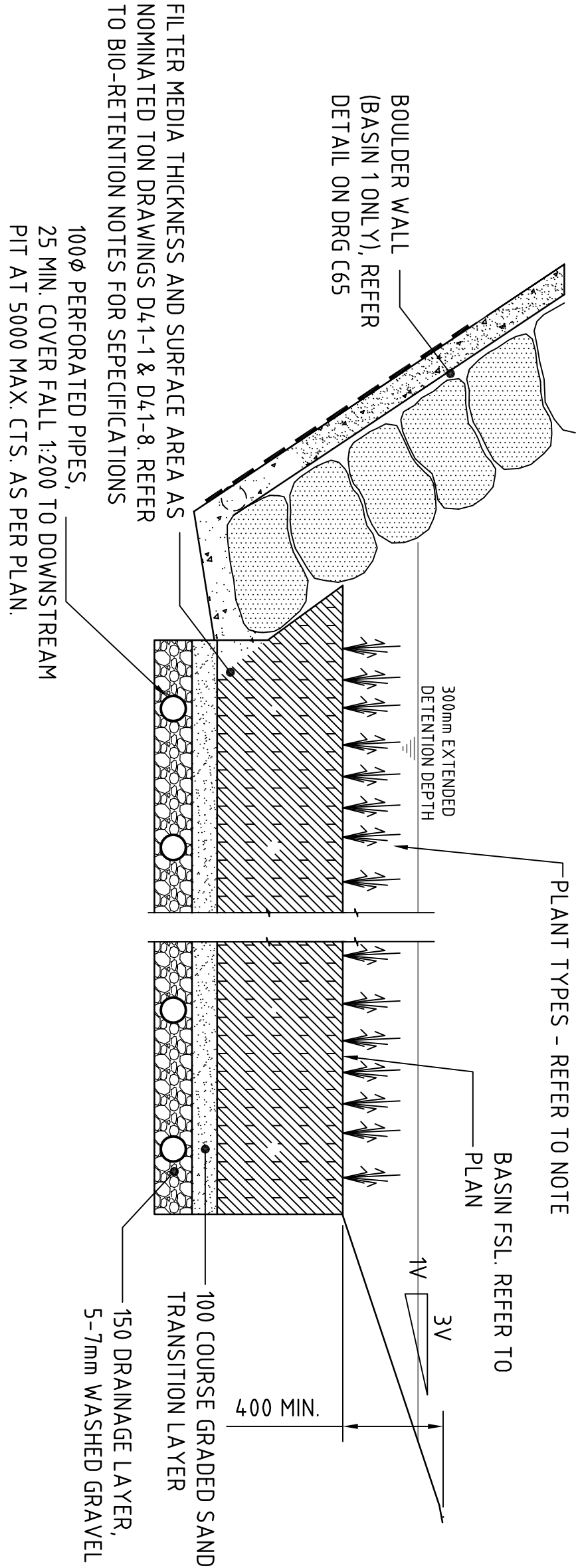
DISSSIPATER NOTES:

- 1) PIPE TO REST ON, AND BE PACKED IN, BY RIP-RAP (SIZE AS NOTED).
- 2) RIP-RAP TO CONSIST OF ANGULAR RUN-OF-QUARRY ROCK AS NOTED PLACED OVER A 200mm LAYER OF 14.0mm COBBLES OVER NEEDLE-PUNCHED GEOTEXTILE AL4.
- 3) GAPS IN RIP-RAP TO BE PLANTED WITH NATIVE SEDGES & RUSHES.

DISSSIPATER SCHEDULE				
DISCHARGE POINT	d	La	W	RIP-RAP
OUTLET 1	1200	7000	4500	300
OUTLET 2	1200	10000	6000	400

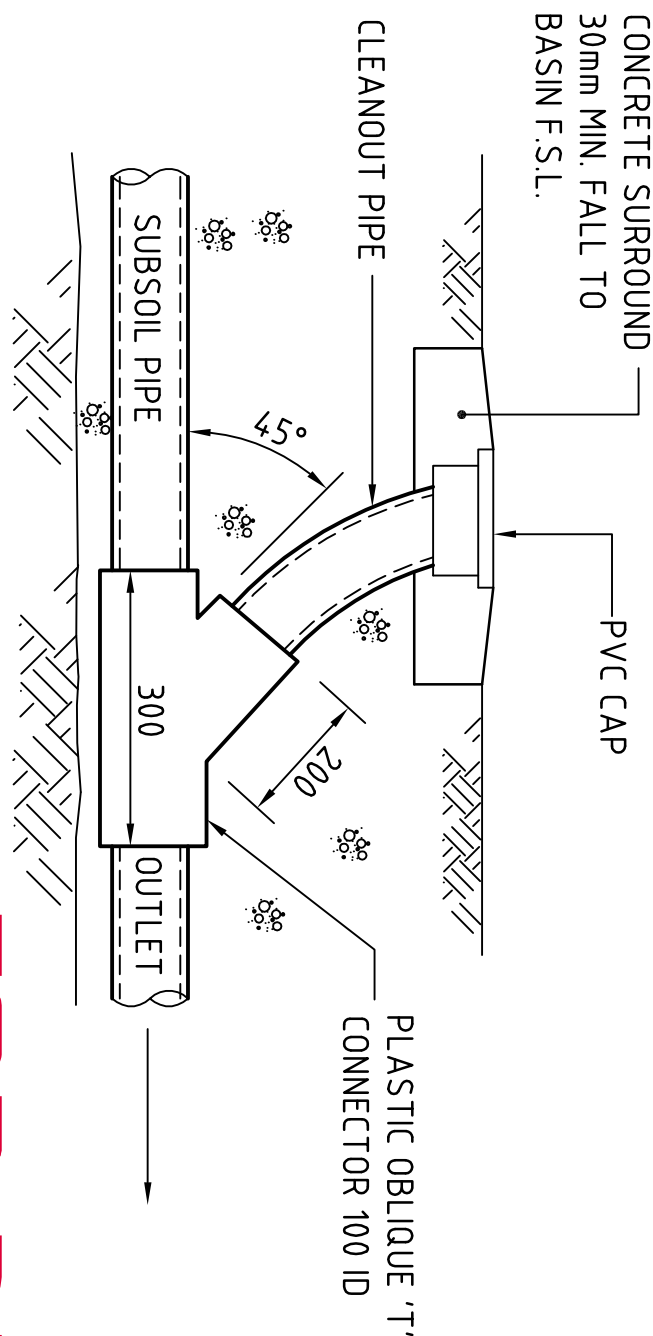
STORMWATER OUTLET DISSIPATER

SCALE 1:50



CLEANOUT EYE ELEVATION

SCALE 1:20
DENOTED C.E. ON PLAN



BIO-RETENTION NOTES:

FILTER MEDIA TO BE LOAMY SAND WITH A PERMEABILITY NOT LESS THAN 200mm/hr. FILTER MEDIA TO BE FREE OF RUBBISH, DELETERIOUS MATERIAL, TOXICANTS, DECLARED PLANTS AND LOCAL WEEDS, AND IS TO NOT BE HYDROPHOBIC.

FILTER MEDIA TO HAVE THE FOLLOWING COMPOSITION RANGE:

CLAY & SILT (<0.05mm)	<3%
VERY FINE SAND (0.05-0.15mm)	5-30%
FINE SAND (0.15-0.25mm)	10-30%
MEDIUM TO COARSE SAND (0.25-1.00mm)	40-60%
COARSE SAND (1.0-2.0mm)	7-10%
FINE GRAVEL (2.0-3.4mm)	<3%

FILTER MEDIA THAT DOES NOT MEET THE FOLLOWING CRITERIA SHALL BE REJECTED:

- a. ORGANIC MATTER CONTENT TO BE IDEALLY WITHIN 1% TO 3% (W/W) AND TO BE NO GREATER THAN 5%(W/W).
- b. PH TO BE BETWEEN 5.5 AND 7.5
- c. PHOSPHOROUS CONTENT TO BE NO GREATER THAN 35mg/kg

FILTER MEDIA TO BE ASSESSED BY QUALIFIED HORTICULTURALIST TO ENSURE CAPABILITY OF SUPPORTING PLANT LIFE.

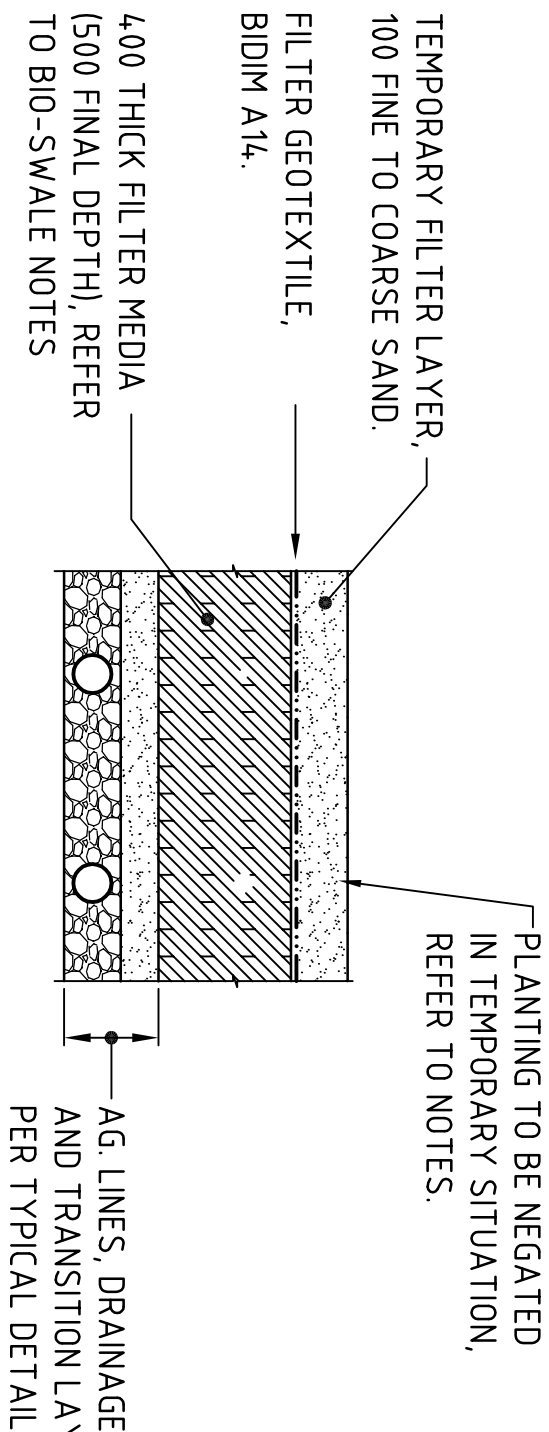
DRAINAGE LAYER TO BE CLEAN GRAVEL 5-7mm.

PROVIDE 100mm TOPSOIL AND TEMPORARY EROSION PROTECTION (JUTEMASTER OR EQUIV) TO SWALE BATTER SLOPES AND ADJACENT LANDSCAPED AREAS. NOTE THAT NO TOPSOIL IS TO BE PLACED OVER FILTRATION MEDIA. PROVIDE SILT FENCE TO TOP OF BANK UNTIL SUCH TIME AS THIS STABILISING AND VEGETATION HAS BEEN COMPLETED.

BIO-RETENTION TO BE PARTIALLY INSTALLED, FOLLOWING COMPLETION OF THE ROAD, WITH THE TOP 75-100mm OF FILTER MEDIA REPLACED WITH A FINE TO COARSE SAND UNDERLAIN WITH A GEOTEXTILE LAYER (REFER TO DETAIL). FOLLOWING COMPLETION OF THE UPSTREAM DEVELOPMENT AND SITE STABILISATION, THE SAND IS TO BE REMOVED, REPLACED WITH FILTER MATERIAL AND PLANTED OUT. REFER TO TEMPORARY BIO-BASIN DETAIL.

PRIOR TO PLANTING, THE TOP 100mm OF THE BIORETENTION FILTER MEDIA IS TO BE AMELIORATED WITH APPROPRIATE ORGANIC MATTER, FERTILISER AND TRACE ELEMENTS TO AID PLANT ESTABLISHMENT AS PER THE TABLE BELOW:

CONSTITUENT	QUANTITY (kg/402 OF FILTER AREA)
GRANULATED POLYTRY MANURE FINES	50
SUPERPHOSPHATE	2
MAGNESIUM SULPHATE	3
POTASSIUM SULPHATE	2
TRACE ELEMENT MIX	1
FERTILISER NPK (16,4,14)	4
LIME	20



SCALE 1:20
TEMPORARY DETAIL FOR USE DURING CONSTRUCTION & SITE STABILISATION PERIOD - REFER TO NOTES FOR IMPLEMENTATION PERIODS.

SCALE 1:50 AT A1 SIZE PLOT

SCALE 1:20 AT A1 SIZE PLOT

FOR DEVELOPMENT APPLICATION

FOR DEVELOPMENT APPLICATION	08.06.12	B
FOR REVIEW	07.06.12	A
AMENDMENTS	DATE	ISSUE

CLIENT	Western Sydney Parklands Trust
LEVEL	4, 10 VALENTINE AVE
PARAMATTA	NSW 2150

PROJECT	HORSLEY DV. BUSINESS PARK
CNR	THE HORSLEY DV. & COMPASTURE RD
WETHERILL PARK, NSW	
DESIGNED (P/AM)	M.W.
CHECKED	M.C.
DATE	02.04.12
SIZE	A1
SCALE	AS SHOWN
CDG REF.	C011492.00-DA 46

Costin Roe Consulting Pty Ltd.	
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DRAWING TITLE	CONCEPT STORMWATER DETAILS
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BROWSE No	C011492.00-DA46
ISSUE	B

