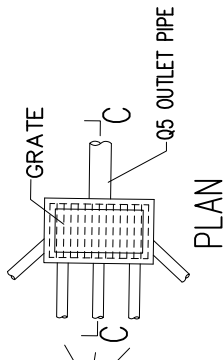


SECTION C - C

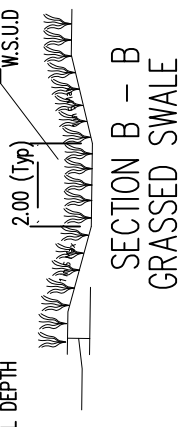


PLAN
OUTLET STRUCTURE

NODAL BIORETENTION SYSTEM BASE AREA SHAPE AND STORAGE AREA SHAPE VARY DEPENDING ON SITE CONSTRAINTS, APPLICATION AND LANDSCAPE CONSIDERATIONS. THE BASE AREA MUST BE SIZED TO MEET CLAUSE 56 REQUIREMENTS IN REGARD TO STORMWATER POLLUTANT TREATMENT. PERFORMANCE CAN INCLUDE THE PERFORMANCE OF THE UPSTREAM SWALE SYSTEM IN A TREATMENT TRAIN SENSE.

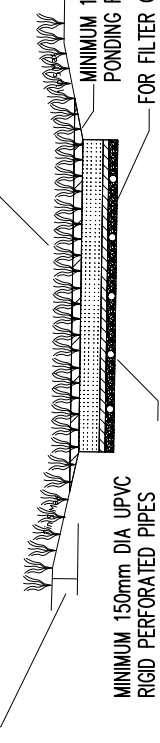
THIS APPLICATION CAN BE USED WHEN STREETSCAPE APPLICATIONS ARE NOT FEASIBLE AND AN END OF PIPE TREATMENT FACILITY IS REQUIRED.
TYPICAL CONCEPT DESIGN "END OF LINE" NODAL BIORETENTION SYSTEMS, TYPICALLY LOCATED WITHIN LOCAL PARKS. SYSTEM SIZE IN W.S.U.D. TREATMENT TABLE REFERS TO BIORETENTION BASE AREA.
DETAILED DESIGN MUST BE CONSISTENT WITH REQUIREMENTS OF MELBOURNE WATER'S W.S.U.D. ENGINEERING PROCEDURES, 2005.

EXCAVATION DEPTH DEPENDANT ON PIPE OUTFALL DEPTH



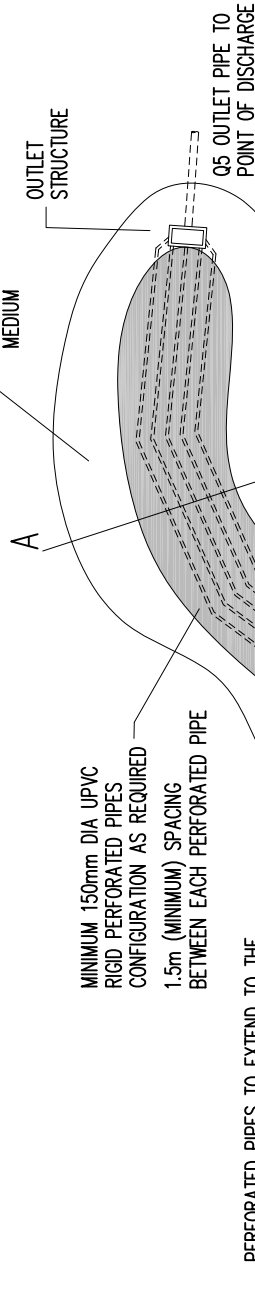
SECTION B - B
GRASSED SWALE

EXCAVATION DEPTH DEPENDANT ON UPSTREAM PIPE OUTFALL DEPTH, PIPE/SWALE DEPTHS AND SITE TERRAIN



SECTION A - A
BIORETENTION SYSTEM

PERFORATED PIPES TO BE INSTALLED NO CLOSER THAN 1.5m BETWEEN EACH OTHER



PLAN

MINIMUM 150mm DIA UPVC RIGID PERFORATED PIPES CONFIGURATION AS REQUIRED 1.5m (MINIMUM) SPACING BETWEEN EACH PERFORATED PIPE

PERFORATED PIPES TO EXTEND TO THE SURFACE FOR DAY LIGHTING TO FACILITATE FLUSHING AND RODDING IF REQUIRED

VEGETATED SWALE PRETREATMENT

INLET STRUCTURE FROM UPSTREAM RESIDENTIAL PIPED SYSTEM

CITY OF CASEY

NODAL BIORETENTION SYSTEMS FOR USE IN SUBDIVISIONS

[Signature]
MANAGER OF ENGINEERING &
ENVIRONMENTAL SERVICES
LAST UPDATE 09.11.2012
S-1104

AMENDMENTS: