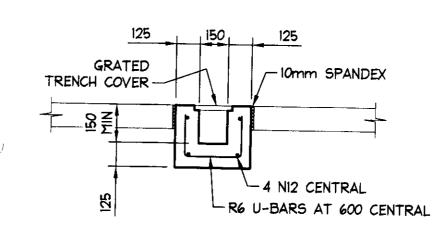


Consulting Engineers

Beaches



ALTERNATE POLYPROPYLENE DRAIN BY MANUFACTURER

OR PRECAST GRATED DRAIN TYPICAL GRATED DRAIN SCALE = 1 : 20

ONSITE DETENTION SYSTEM SUMMARY NOTES								
TOTAL SITE AREA	653 m ²							
DESIGN METHOD USED	DRAINS (REFER TO DISK)							
PRE DEVELOPMENT IMPERVIOUS AREA	228.5 m ²							
POST DEVELOPMENT IMPERVIOUS AREA	438 m 2 (INCLUDING ADDITIONAL							
PRE DEVELOPMENT SITE DISCHARGE	OF TOTAL SITE AREA)							
5 YR	19 1/s							
100 YR	38 /s							
POST DEVELOPMENT SITE DISCHARGE								
5 YR	18 1/s							
100 YR	31 1/s							
PORTION OF SITE THROUGH OSD	100 %							
ORIFICE SIZE	(104 mm ϕ)							
TYPE OF CONTROL	ABOVE GROUND BASIN							
MAXIMUM CONCENTRATED DISCHARGE TO KERB	20 l/s							
DIMENSION OF OSD	$37 \text{ m}^2 \times 0.3 \text{ m DEPTH}$							
VOLUME OF OSD	Il m³ (NOTE: 9 m³ REQUIRED							

REQUIRED BY COUNCIL PRIOR TO CERTIFICATION AND APPROVAL.

300mm MAX. PONDING DEPTH—

-REGRADED GROUND SHOWN SOLID

6000

SECTION

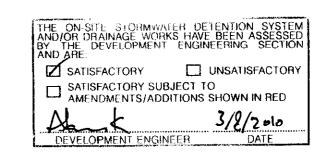
SCALE = 1:50

24.70 -

EXIST. GROUND LEVEL SHOWN DASHED

1000

25.50



TE									IF IN DOUB	T ASK	
				DOCUMENT CERTIFICATION Date: 1000 Rick G. Wray	NORTHERN BEACHES Consulting Engineers P/L. A.C.N. 076 121 616 A.B.N. 24 076 121 616 Suite 207, 30 FISHER ROAD	Architect: TEAM 2 DESIGN	Project: ALTERATIONS & ADDITIONS TO: 29 WARATAH ST, FRESHWATER	PEB 10	Design:	Drawn: RYAN	Checked:
09/06/2010	' A	ORIFICE SIZE ADJUSTED	RM	BE(Civil), CPEng, MIEAust., NPER.	DEE WHY N.S.W. 2099	Client:	CTORMUNTED MANAGEMENT	Job No:	<u> </u>	Orawina No:	Davis
Date:	Rev:	Amendment:	Ву:	(Director Northern Beaches Consulting Engineers) The copyright of this drawing remains with Northern Beaches Consulting Engineers P/L.	Ph: (02) 9984 7000 Fax: (02) 9984 7444 e-mail : nb@nbconsulting.com.au web page : www.nbconsulting.com.au	STEPHEN & SUSAN NATILLI	STORMWATER MANAGEMENT DETAILS CONTINUED		158	Drawing No:	A

CARPARK STAND OR

BRICK RETAINING WALL