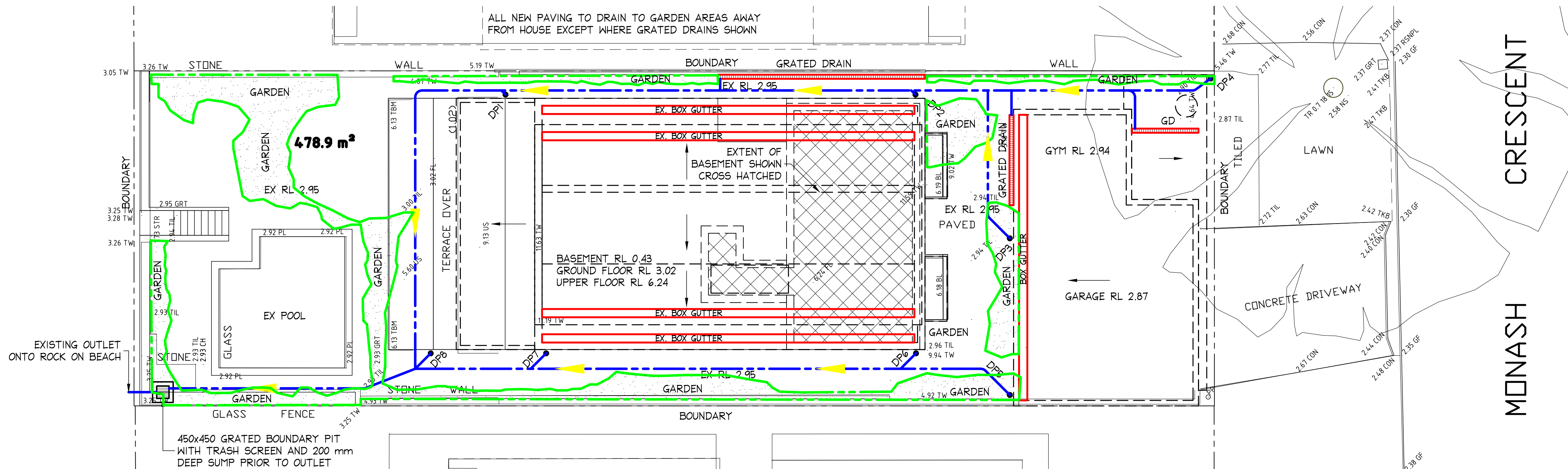




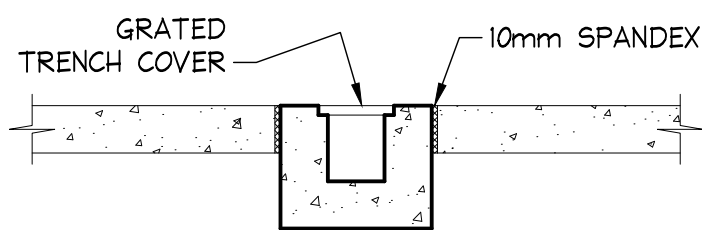
NOTE: THE BUILDER IS TO DETERMINE HOW THE EXISTING BASEMENT IS DRAINED AND HOW IT WILL BE DRAINED ONCE THE STAIRS CHANGE LOCATIONS. IT APPEARS TO BE TANKED WITH NO INTERNAL DRAINAGE.

CONCEPT STORMWATER MANAGEMENT PLAN

SCALE = 1 : 100

LEVELS TAKEN FROM SURVEY BY WATERVIEW SURVEYING SERVICES, REF:1776, DATED 20-09-2023.
ALL DRAINAGE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY TO SUIT SITE CONSTRAINTS.
EXISTING PIPES MAY BE REUSED IF THE PLUMBER DEEMS THEM COMPLIANT TO AS3500.

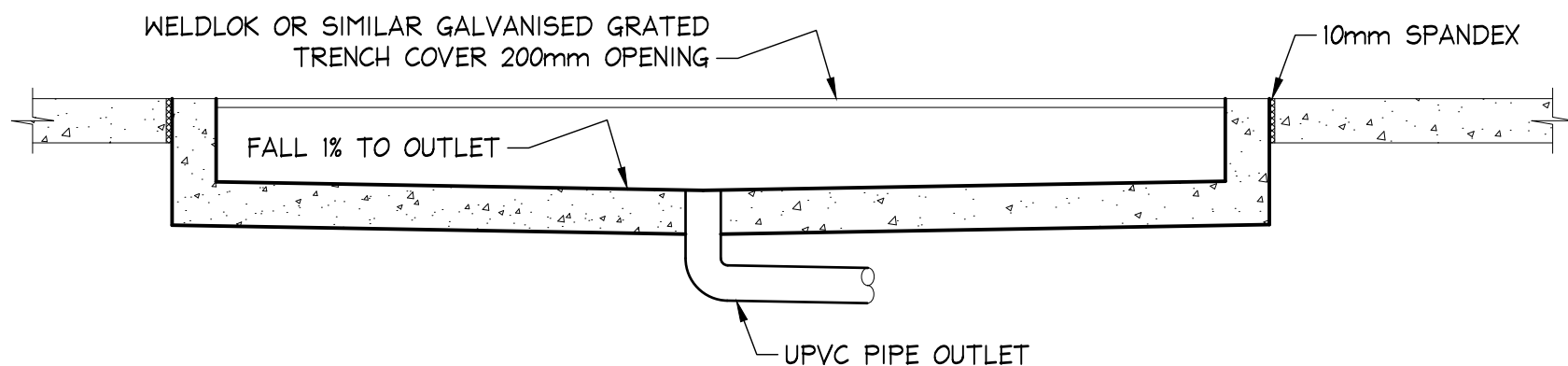
KEY:
DP - DOWNPIPE
SP - SPREADER DOWNPIPE
DP/RWH - DOWNPIPE RAINWATER HEAD
SPT - SPITTER OVERFLOW



TYPICAL GRATED DRAIN

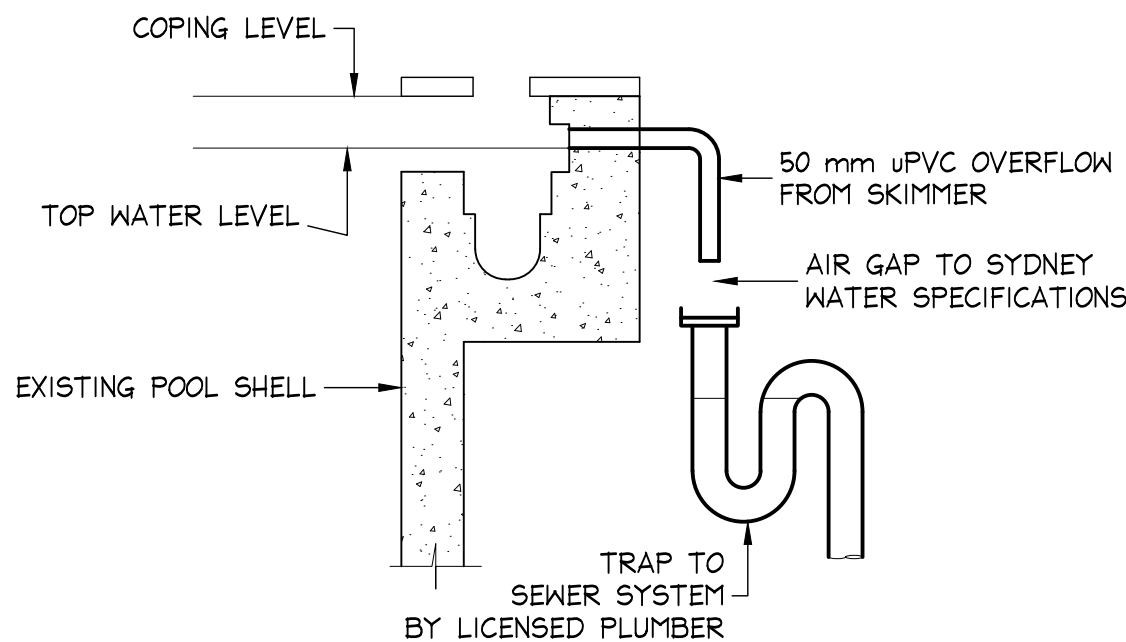
SCALE = 1 : 20

PRECAST OR HDPE GRATED DRAIN ALTERNATIVE



LONGITUDINAL SECTION TYPICAL GRATED DRAIN

SCALE = 1 : 20

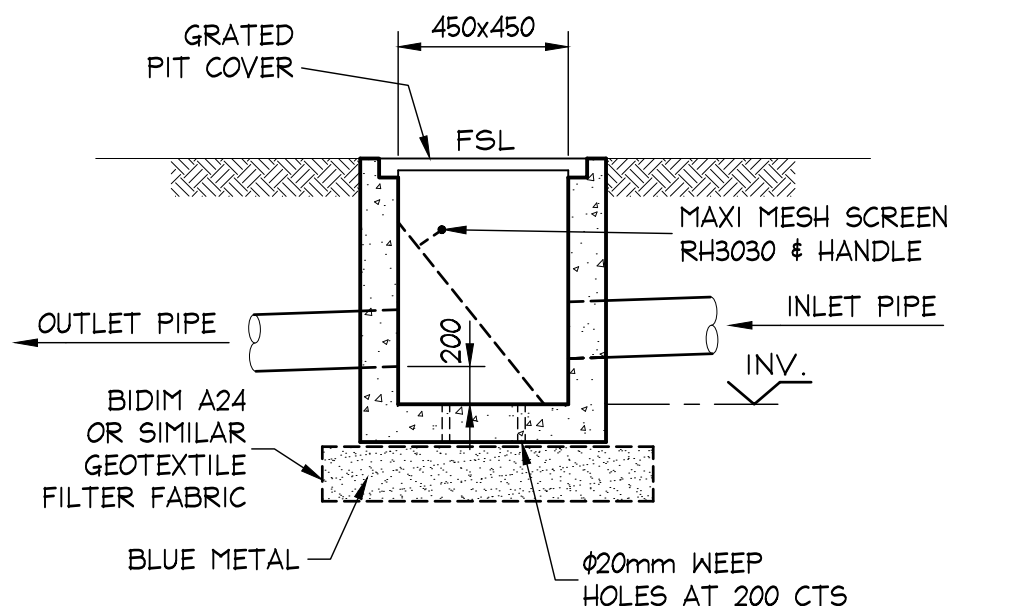


POOL OVERFLOW SECTION AT SKIMMER

SCALE = 1 : 20

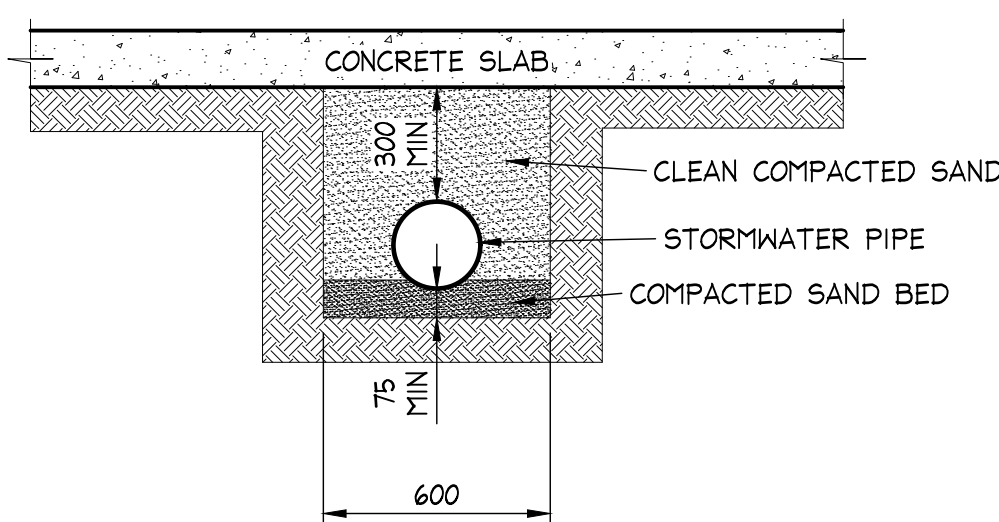
STORMWATER NOTES:

- 1 - ALL PIPES TO BE 100mm ϕ SEWER GRADE uPVC UNLESS NOTED OTHERWISE.
- 2 - ALL PIPES TO BE uPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE.
- 3 - ALL PIPES TO BE LAID AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 - ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS.
(NO COMPACTION REQUIRED BELOW LANDSCAPING)
COVER TO SURFACE FROM TOP OF PIPE TO BE AS PER AS3500.
BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
- 5 - DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 6 - PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 7 - ALL PITS TO BE PRECAST, PREFORMED OR HDPE, IN ACCORDANCE WITH LOCAL COUNCIL SPECIFICATIONS.
- 8 - ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 9 - ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- 10 - PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES TO EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 11 - ALL LEVELS SHOWN ARE TO AHD
- 12 - ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- 13 - ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.
- 14 - ALL WORKS TO BE IN ACCORDANCE WITH AS 3500.3-2021 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE & NCC 2022.



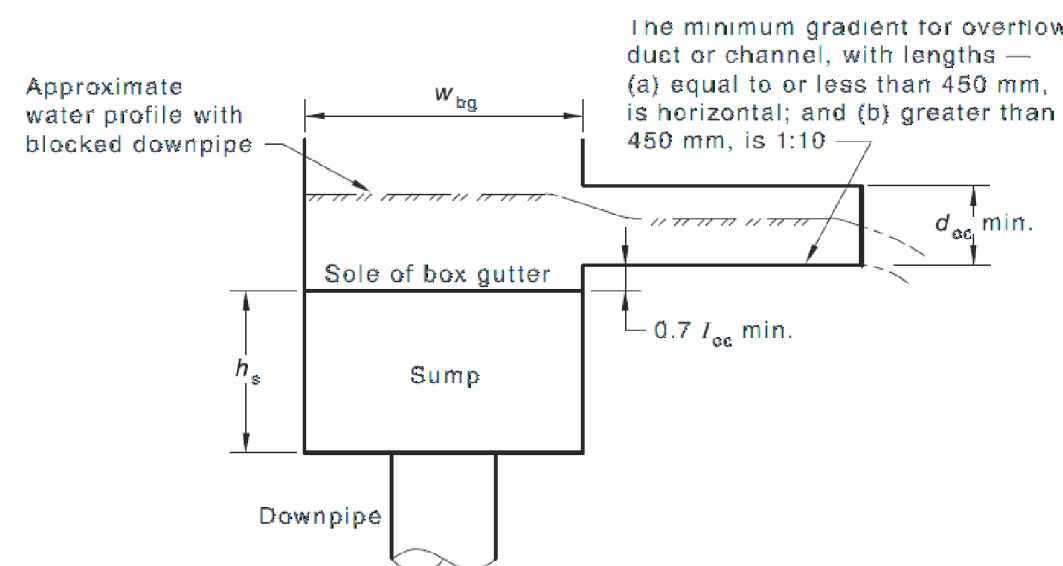
PRECAST OR HDPE PIT REFER STORMWATER NOTES 450x450 PIT DETAIL

SCALE = 1 : 20

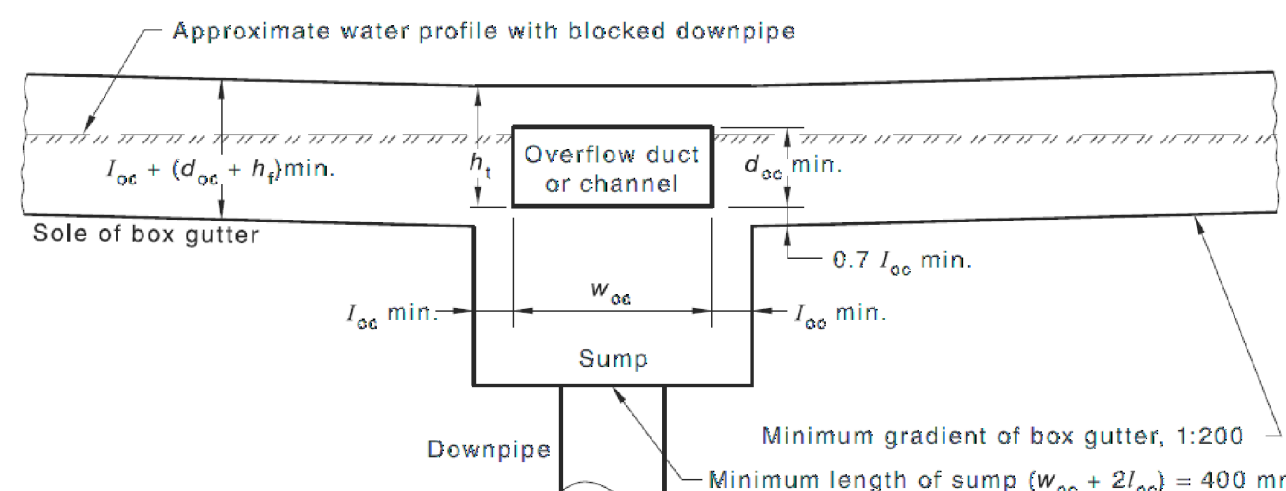


TYPICAL TRENCHING DETAIL

SCALE = 1 : 20



(a) Section showing overflow duct or channel



(b) Side view of box gutter

NOTE 1 The sump and overflow channel shall be fully sealed to the box gutter.

NOTE 2 h_f = freeboard (30 mm).

Figure H.5 — Sump/side overflow device

BOX GUTTER SUMP/OVERFLOW

W_{bg} = 300mm
 H_s = 100mm
 l_{oc} = 30mm
 W_{oc} = 200mm
 d_{oc} = 80mm

ONSITE DETENTION SYSTEM SUMMARY NOTES - NORTHERN BEACHES COUNCIL

COUNCIL'S " WATER MANAGEMENT FOR DEVELOPMENT POLICY, 26 FEBRUARY 2021" USED
SECTION 5.5 - FOR REGION 3 - SOUTHERN CATCHMENTS
TOTAL SITE AREA 479.0 m²
PRE DEVELOPMENT IMPERVIOUS AREA 423.0 m² 88%
POST DEVELOPMENT IMPERVIOUS AREA 450.0 m² 93%
WITH REFERENCE TO MAP 3 - REGION 3 ZONE, THE SUBJECT SITE IS IN ZONE 3. OSD IS NOT REQUIRED. SCOUR CONTROL REQUIRED AS PER SECTION 4.1.2.1.2. A NATURAL ROCK PLATFORM EXISTS ON SITE FOR SCOUR PROTECTION ALREADY. A MAXIMESH SCREEN AND SUMP WILL BE ADDED TO THE EXISTING SYSTEM TO MAKE IT COMPLIANT

Gutter Calculations -20 yr ARI Storm Northern Beaches Council (Region 3) Alterations & Additions 11a Monash Crescent, Clontarf

to AS 3500 - 2021 & AS 3500.5 - 2012 & NCC2022									
Eaves	Horizontal	slope		Gutter	²⁰ / ₁	¹⁰⁰ / ₁	From	From	Downpipe
	Area A _h	factor	Area A _c	Slope	from	from	Figure	Figure H1	From
Gutters		From		steeper	Council	DRAINS	3.5.4(A)	gutter	Table 3.5.2
		Fig 3.4.3.2		than	Appendix 12	mm/hr	area reqd	size reqd	size reqd
	m ²		m ²	1 in	mm/hr		mm ²		
EXDP1/RWH	37	1.05	38.9	500	201		7500		100x75 or 100dia
EXDP2/RWH	32.7	1.05	34.3	500	201		7000		100x75 or 100dia
DP3/RWH	28.3	1.05	29.7	500		267	6300	300x150	100x50 or 90dia
DP4	14.8	1.05	15.5	500	201		3500		100x50 or 90dia
DP5/RWH	36.3	1.05	38.1	500		267	7500	300x150	100x50 or 90dia
EXDP6/RWH	32.7	1.05	34.3	500	201		7000		100x75 or 100dia
EXDP7/RWH	37	1.05	38.9	500	201		7500		100x75 or 100dia
total	218.8								
New Gutters similar to existing - Half Round					Area	9000	mm ²		
All underground Pipes to be 100 Dia Sewer Grade PVC UNO									
All Gutters to be graded at 1 in 500 to Downpipes									



OUTLET ONTO ROCK

AI

NOTES:

1. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WITH WORK.
2. TO BE PRINTED IN COLOUR.



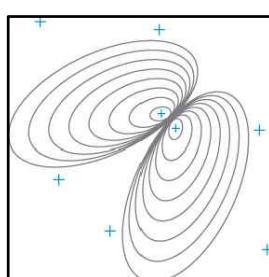
DOCUMENT CERTIFICATION

Date : NOV. 25
Bruce Lewis
(Principal : Peninsula Consulting Engineers)
BE(Civil), CPEng, MIEAust., NPER
Institute of Engineers Membership No. 879131

6-11-2025	A	FOR COUNCIL SUBMISSION
30-10-2025	P2	DRAFT
Date:	Rev:	Amendment:

Peninsula Consulting Engineers

PO Box 6186
Narraweena, NSW, 2099
Ph: 0424 253 818
E: bruce@peninsulaconsulting.com.au
A.B.N. 60 493 390 399



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Project:

PROPOSED WORKS
at: 11A MONASH CRESCENT
CLONTARF
for: MS SMITH & MR BROOKS

Drawing Title:

STORMWATER MANAGEMENT PLAN & DETAILS

Job No:

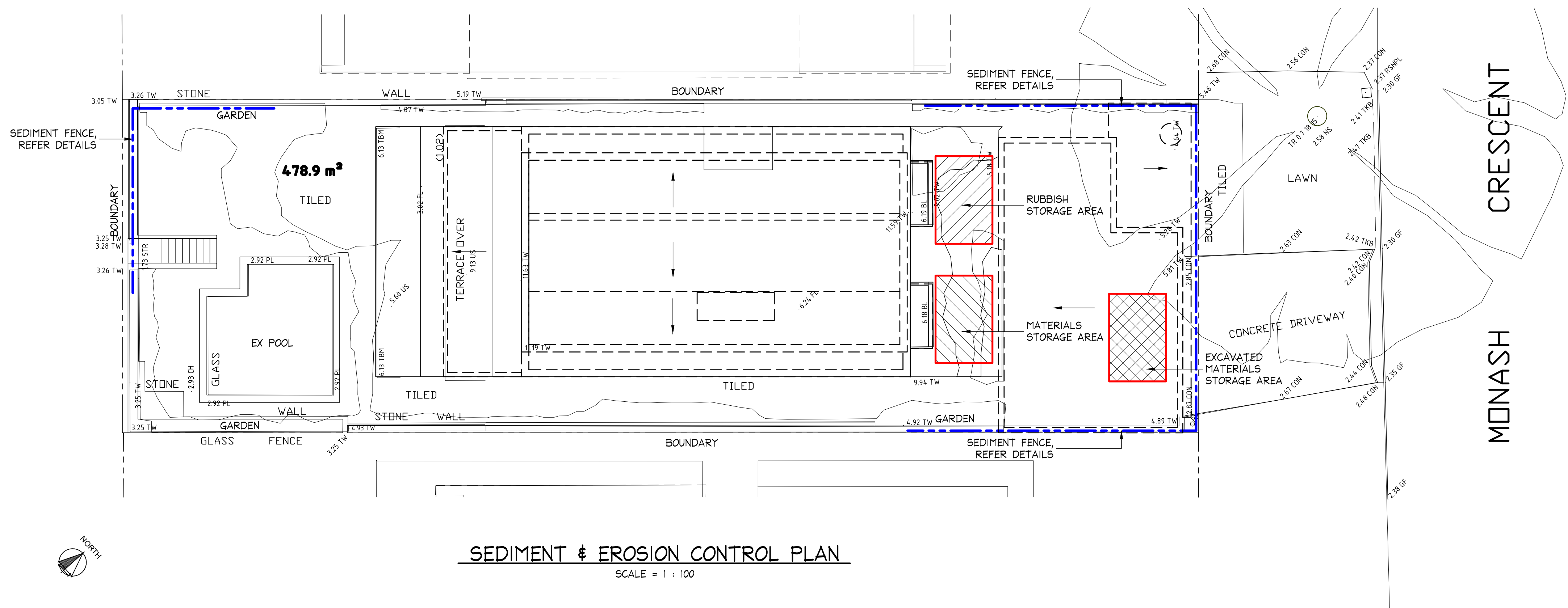
25-0508

Drawing No:

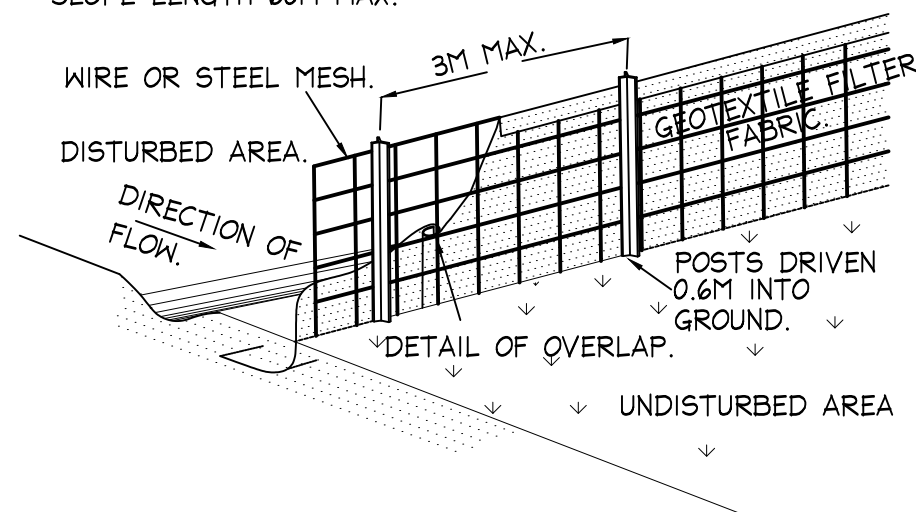
H01

Rev:

A



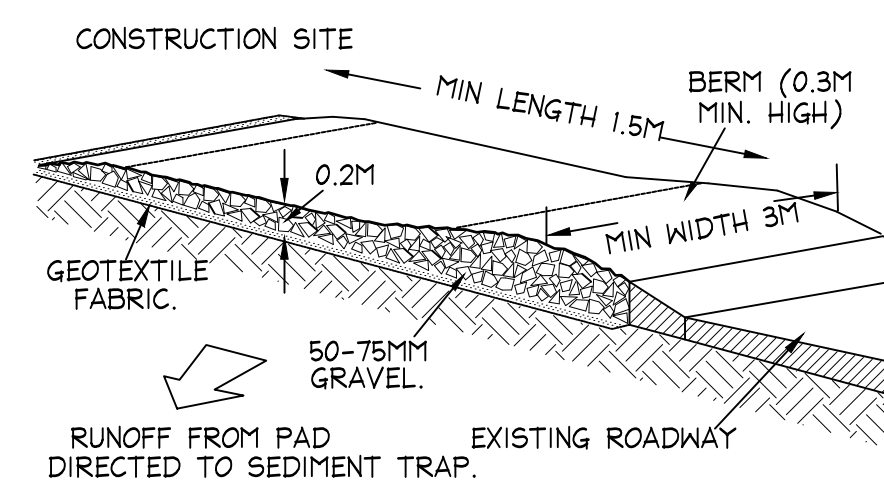
DRAINAGE AREA 0.6HA. MAX. SLOPE GRADIENT 1:2 MAX.
SLOPE LENGTH 60M MAX.



SEDIMENT FENCE

CONSTRUCTION NOTES:

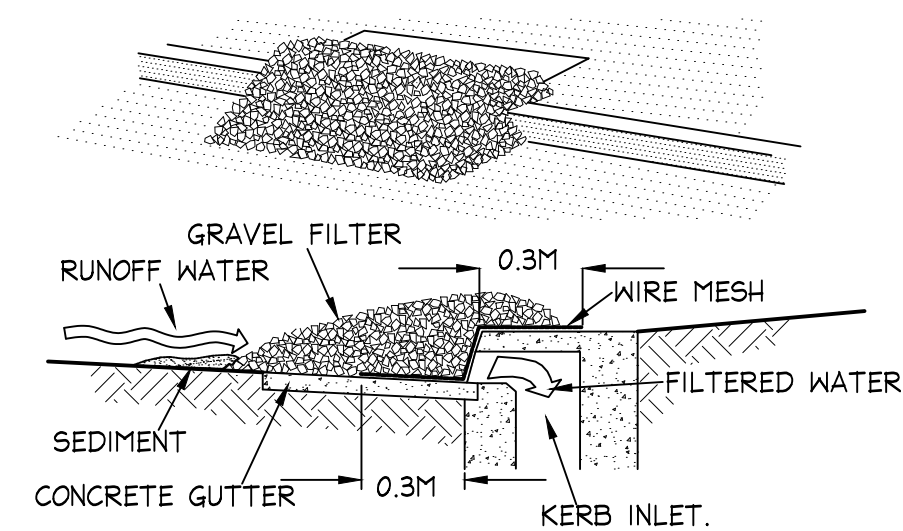
- CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
- DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.
- DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- BACKFILL TRENCH OVER BASE OF FABRIC.
- FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES or AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.



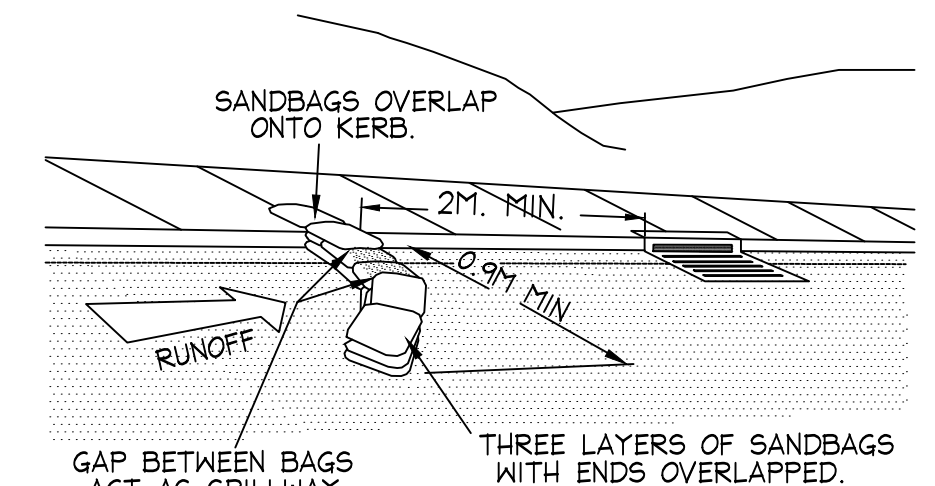
TYPICAL TEMPORARY CONSTRUCTION ENTRY/EXIT DETAIL

CONSTRUCTION NOTES:

- STRIP TOPSOIL AND LEVEL SITE.
- COMPACT SUBGRADE.
- COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE or 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
- CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE or OTHER SEDIMENT TRAP.



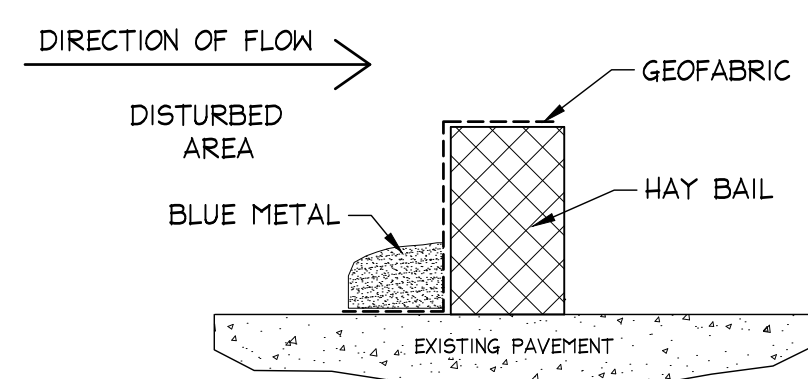
GRAVEL KERB INLET SEDIMENT TRAP



SANDBAG KERB INLET SEDIMENT TRAP

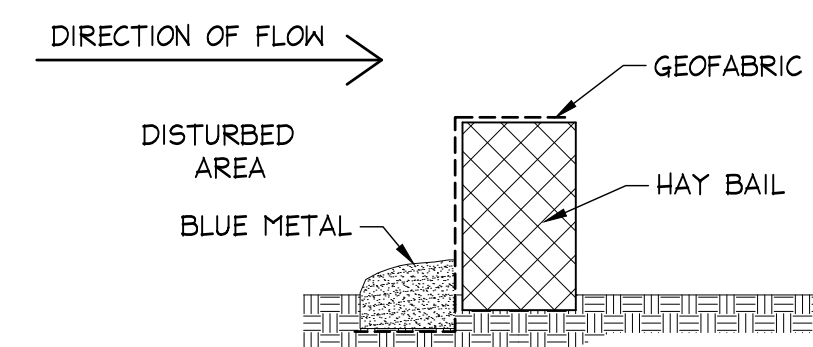
SEDIMENT CONTROL:

- INSTALL SEDIMENT CONTROL STRUCTURES IN LOCATIONS INDICATED ON DRAWINGS AND AS OTHERWISE REQUIRED TO CONTROL SEDIMENT DURING ALL EXCAVATIONS AND WHILST AREAS OF THE SITE ARE EXPOSED TO EROSION.
- CONTROL STRUCTURES TO BE AS DETAILED OR AS OTHERWISE REQUIRED BY CERTIFYING AUTHORITY.
- REVIEW CONTROL MEASURES AND MAINTAIN STRUCTURES DURING CONSTRUCTION.
- IF ADDITIONAL MEASURES ARE REQUIRED FOR EROSION CONTROL OR BY COUNCIL REQUIREMENTS REFER TO 'URBAN EROSION AND SEDIMENT CONTROL' GUIDELINES PREPARED BY THE DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT.



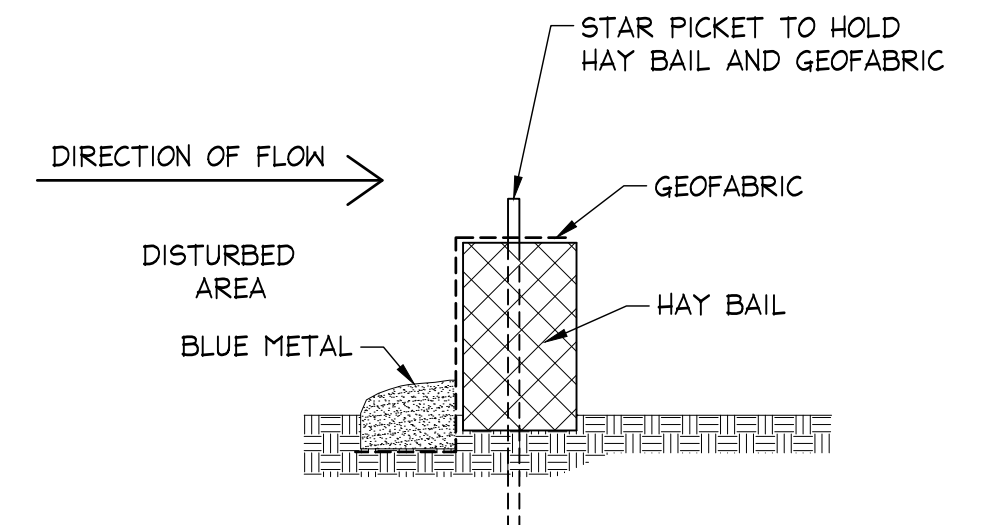
REMOVABLE HAY BAIL DETAIL

SCALE = N.T.S.



REMOVABLE HAY BAIL DETAIL

SCALE = N.T.S.



SILT FENCE DETAIL - OPTION 2

SCALE = N.T.S.

NOTES:

- ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WITH WORK.
- TO BE PRINTED IN COLOUR.



DOCUMENT CERTIFICATION

Date : NOV. 25

Bruce Lewis

(Principal : Peninsula Consulting Engineers)

BE(Civil), CPeng, MIEAust., NPER,

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6-11-2025 A FOR COUNCIL SUBMISSION

30-10-2025 P2 DRAFT

Date: Rev: Amendment:

Peninsula Consulting Engineers

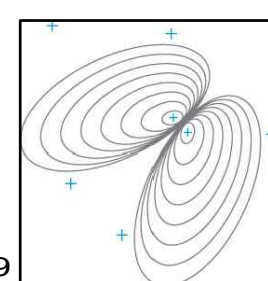
PO Box 6186

Narrabeena, NSW, 2099

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Project:

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at: 11A MONASH CRESCENT
CLONTARF
for: MS SMITH & MR BROOKS

Drawing Title:

SEDIMENT & EROSION
CONTROL PLAN & DETAILS

Job No:

25-0508

Drawing No:

H02

Rev:

A