

A
DP 419338

PLAN
SCALE = 1 : 200

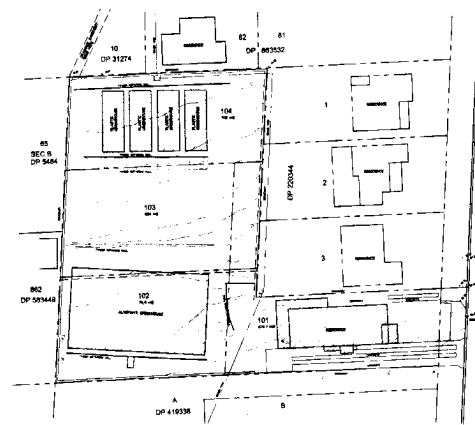
LEGEND	
'A'	DENOTES PROPOSED RIGHT OF CARRIAGEWAY 3.5m WIDE
'C'	DENOTES PROPOSED RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES 5.0m WIDE & VARIABLE
'D'	DENOTES PROPOSED RIGHT OF DRAINAGE EASEMENT 1.0m WIDE AS DETAILED BY BRUNSKILL MCLENAHAN & ASSOCIATES
OSD HAS BEEN DESIGNED TO RESTRICT THE POST-DEVELOPMENT FLOODS TO THAT OF THE PRE-DEVELOPMENT FOR THE DRIVEWAY ONLY OSD FOR INDIVIDUAL LOTS IS THE RESPONSIBILITY OF FUTURE OWNERS	

HILL STREET

ITEMS IN RED INK INDICATE AS BUILT VALUES DETERMINED BY SURVEY ON 17-1-2000

WORKING AS EXECUTED
BRUNSKILL MCLENAHAN & ASSOCIATES PTY. LTD.
Surveyors & Planners
Suite 202, 39 Antares St
CHATSWOOD 2067
Ph: (02) 9415 1111 Fax: (02) 9415 1478
BRUNSKILL
REGISTERED SURVEYOR
DATE: 20-1-2000 COUNCIL REF: 597/18

ISSUED FOR CONSTRUCTION
CERTIFICATE
APPROVAL



EXISTING SITE PLAN
SCALE = 1 : 500

NOTES: STORMWATER

- 1 - ALL PIPES TO BE 90mm Ø UNLESS NOTED OTHERWISE
- 2 - ALL PIPES TO BE UPVC TO AS 1254-1973 UNLESS NOTED OTHERWISE
- 3 - ALL PIPES TO BE LAYED AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE
- 4 - ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D., BELOW PAVEMENTS.
(NO COMPACTION REQUIRED BELOW LANDSCAPING)
COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
- 5 - PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 6 - ALL PITS TO BE PRECAST OR CAST INSITU UNLESS NOTES OTHERWISE
CAST INSITU PITS TO HAVE 150mm THICK CONCRETE WALLS AND BASE REINFORCED WITH Y12 AT 300 EACH WAY.
- 7 - ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER STANDARDS.
- 8 - ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- 9 - 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.
- 10 - ALL LEVELS SHOWN ARE TO AHD
- 11 - ENSURE ALL PITS AND STORMWATER LINES ARE CLEAR OF EXISTING TREES AND TREE ROOTS.

Date	Rev	Amendment
21/1/1999	A	ALTERED TO THE REQUIREMENTS OF ROSE CONSULTING GROUP

DOCUMENT CERTIFICATION
I am a Registered Professional Engineer,
Institution of Engineers Australia
Membership No. 603936
I hereby state that this drawing is in compliance
with the relevant Australian Standards.

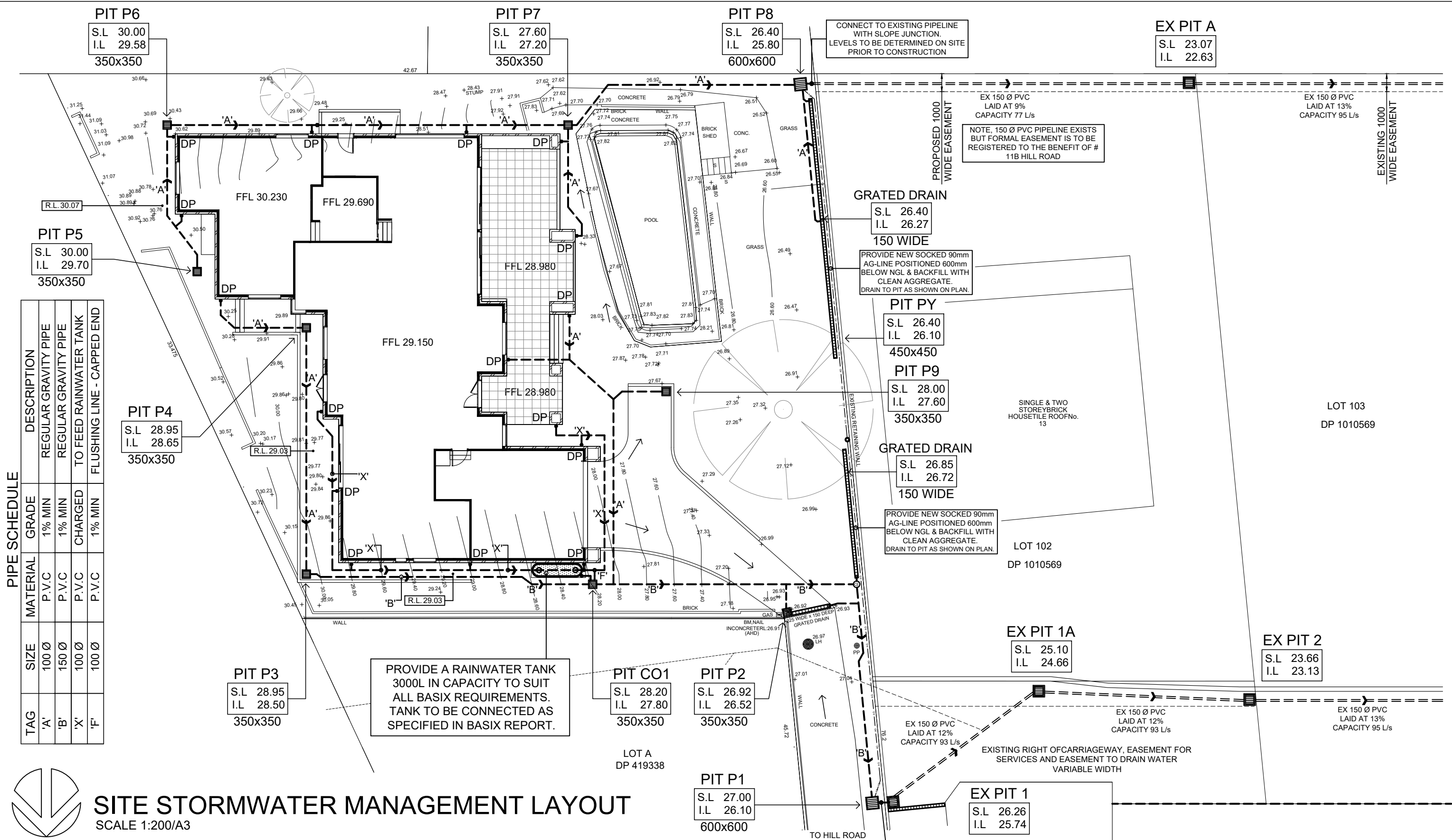
R. Way
Rick Way BE(Civil), CPENG, MIEAust, NPER
(Director NB Consulting Engineers)

NORTHERN BEACHES
Consulting Engineers P/L
ACN 076 121 616
170 ALBERT STREET
HARBOR NSW 2098
Ph: (02) 9607 1028 Fax: (02) 9607 1925
e-mail: nrb@nbe.com.au

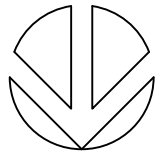
PROPOSED SUB-DIVISION
OF LOT 4 DP 220344
15 HILL STREET
WARRIEWOOD

STORMWATER DISPOSAL SYSTEM
SITE PLANS

Date	Drawn	Design
JULY 1999	MG / PRB	LM
Job No:	Drawing No:	
990711	SWIA	



PIPE SCHEDULE				
TAG	SIZE	MATERIAL	GRADE	DESCRIPTION
'A'	100 Ø	P.V.C	1% MIN	REGULAR GRAVITY PIPE
'B'	150 Ø	P.V.C	1% MIN	REGULAR GRAVITY PIPE
'X'	100 Ø	P.V.C	CHARGED	TO FEED RAINWATER TANK
'F'	100 Ø	P.V.C	1% MIN	FLUSHING LINE - CAPPED END



SITE STORMWATER MANAGEMENT LAYOUT

SCALE 1:200/A3

STORMWATER LAYOUT NOTES

- PITS DEEPER THAN 600mm TO BE 600 X 900 W, ELSE 375 SQ U.N.O.
- ALL PIPES TO HAVE 1% MIN. GRADE U.N.O.
- ALL DOWNPIPES TO BE 100 X 50 BOX OR 90 Ø.
- PIPES TO BE U.P.V.C. OR STORMWATER PIPE TO A.S.1254.
- PITS TO BE STANDARD PRECAST CONCRETE PITS OR BRICK RENDERED WITH CONCRETE HEAVY DUTY GRATES SIZED AS PITS PER PLAN.
- NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION BASINS.
- PERSONS UTILISING THIS PLAN FOR ANY PURPOSES SHALL VERIFY THE DATUM & RESPECTIVE LEVELS PRIOR TO

- COMMENCING ANY WORKS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- DRIVEWAY LEVELS PROVIDED FOR DRAINAGE DESIGN PURPOSES ONLY. LEVELS MAY BE ADJUSTED TO SUIT FINAL HOUSE CUT/FILL CONDITIONS BUT NEED TO MAINTAIN INTENT OF DRAINAGE SYSTEM. ENGINEER TO BE CONSULTED PRIOR TO CONSTRUCTION TO ENSURE INTENT MAINTAINED.
 - END OF EXISTING DRAINAGE LINE TO BE EXPOSED & LEVELS CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF WORKS.
 - BUILDERS TO ENSURE SERVICES CONNECTIONS TO HOUSE DO NOT CONFLICT WITH DRAINAGE DESIGN REQUIREMENTS.
 - ALL WORKS TO BE CONSTRUCTED TO GOOD BUILDING PRACTICE & MATERIALS TO MEET ACCEPTED SPECIFICATIONS.

LEGEND

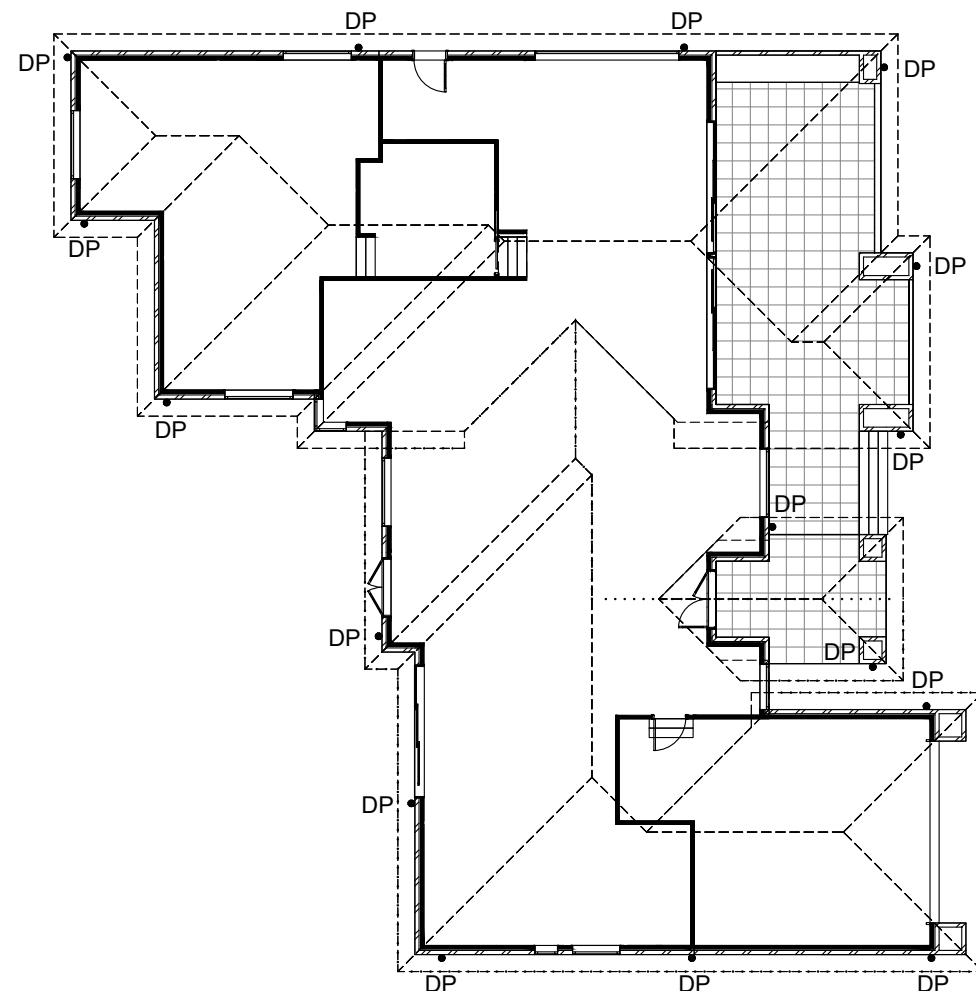
P1	PIT LABEL	G.F.L.	GARAGE FLOOR LEVEL
	SUMP PIT - PIT SIZE REFERS TO GRATE DIMENSIONS	• 0.00	EXISTING REDUCED LEVEL
	300x300 FLOOR GULLY	• R.L 157.00	PROPOSED REDUCED LEVEL
	100/150 Ø GARDEN GULLY	DP	DOWNPIPE
	DRAINAGE PIPE	SP	SPITTER/SPREADER
	AERIAL PIPE		CLEANING EYE
S.L.	SURFACE LEVEL		SEDIMENT FENCE
I.L.	INVERT LEVEL		AG LINE
F.F.L.	FINISHED FLOOR LEVEL		OVERLAND FLOW

alwdesign
CIVIL ENGINEERING CONSULTANTS

P: 02 9802 5509 E: admin@alwdesign.com.au
M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112

JOB NUMBER:
SW23273
DRAWING NUMBER:
SW23273 - S1

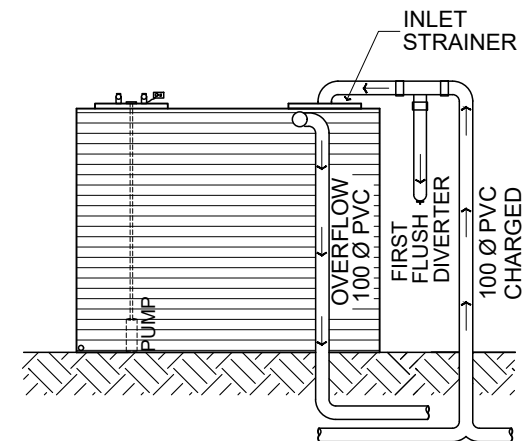
PROJECT: PROPOSED RESIDENTIAL DWELLING AT LOT B, # 11B HILL STREET, WARRIEWOOD NSW			
DRAWING: SITE STORMWATER MANAGEMENT LAYOUT			
DESIGNED	DRAWN	CHECKED:	ANDREW L WAHBE - BE (CIVIL) MIEAUST PENG
A.W	N.W	DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY DESIGNING ENGINEER	
B	ISSUED FOR DEVELOPMENT APPLICATION		05/09/23
ISSUE	REVISION DESCRIPTION		APPR. DATE



GUTTER SELECTED: LYSAGHT HALF ROUND 150 NSW UNSLOTTED; AREA = 7042 SQ.MM

ALL DOWNPIPES TO BE 90 Ø MIN

ROOF & GROUND FLOOR LAYOUT
SCALE 1:200/A3

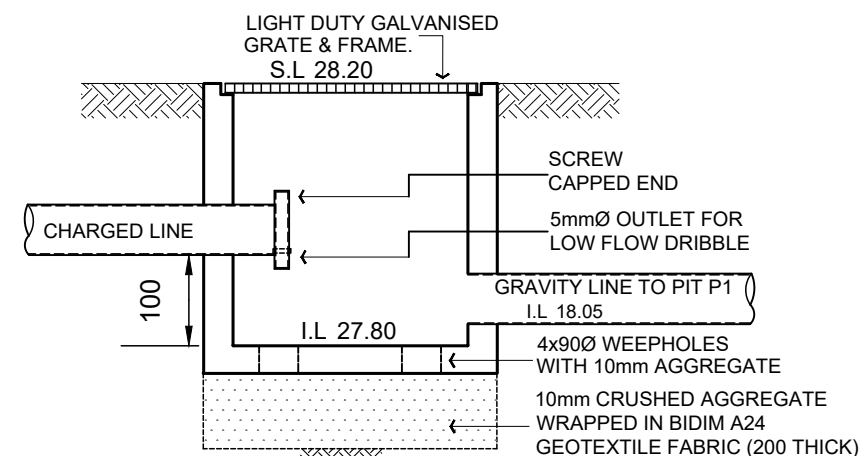


**EVOLUTION MkIII RAINWATER TANK
CONFIGURATION BY KINGSPAN**

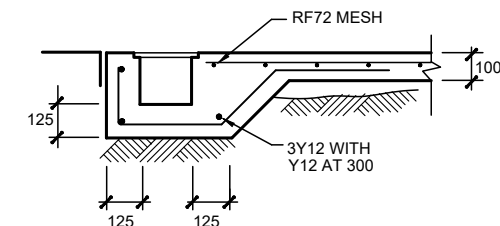
ENSURE ALL CONNECTIONS
WITHIN CHARGED SYSTEM
ARE SOLVENT WELDED

ALL DOWNPIPES ARE TO BE
ENTIRELY PVC. PIPES ARE TO
BE SEALED UP TO U/S OF
ROOF GUTTERS

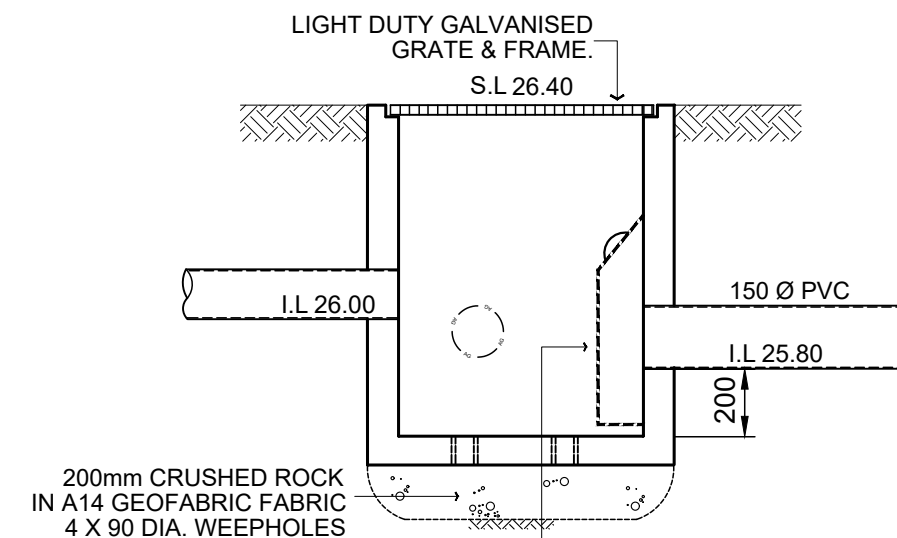
ROOF GUTTERS I.L. 31.82
TANK INLET I.L. 30.32
HEAD PRESSURE - 1500mm



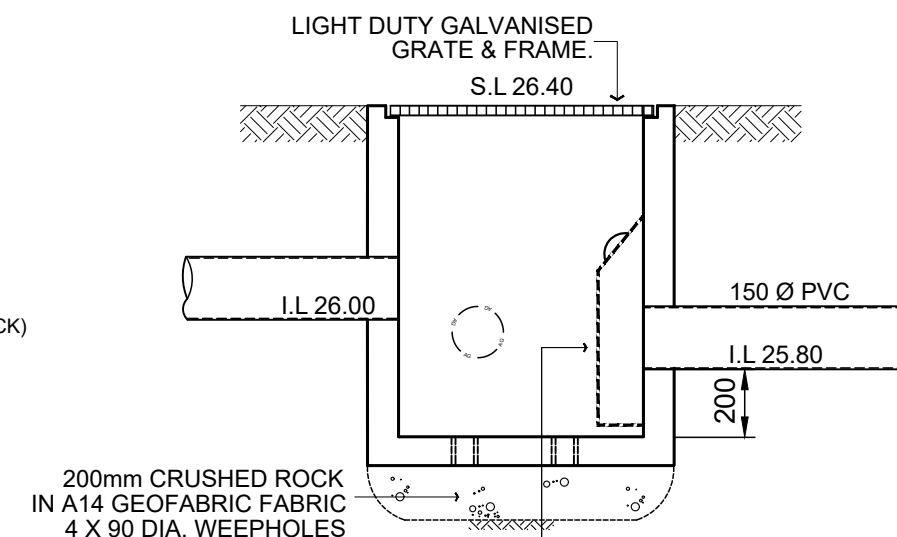
**PIT CO1 - 350x350
CLEAN-OUT PIT
FOR CHARGED LINE SYSTEMS**



GRADED DRAIN

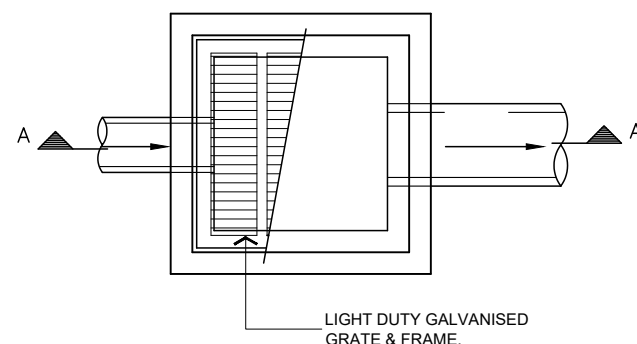


PIT P8 - 600x600

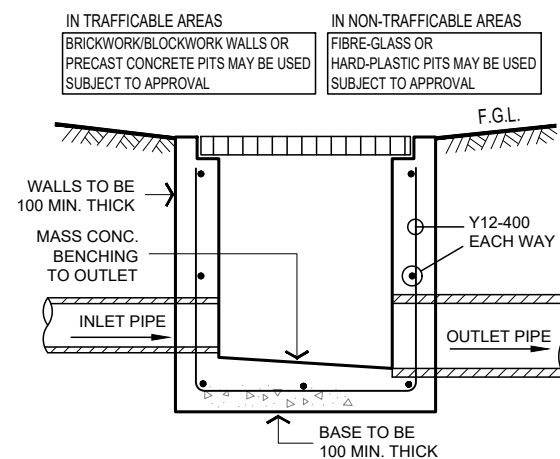


PIT P1 - 600x600

NOTE, ALL PIT SIZES SHOWN ON PLAN
REFLECT THE REQUIRED GRATE DIMENSION



TYPICAL PIT DETAIL



TYPICAL SECTION A

alwdesign
CIVIL ENGINEERING CONSULTANTS

P: 02 9802 5509 E: admin@alwdesign.com.au
M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112

JOB NUMBER: SW23273		PROJECT: PROPOSED RESIDENTIAL DWELLING AT LOT B, # 11B HILL STREET, WARRIEWOOD NSW	
DRAWING NUMBER: SW23273 - S2		DRAWING: ROOF LAYOUT & GENERAL DETAILS	
DESIGNED A.W	DRAWN N.W	CHECKED: ANDREW L WAHBE - BE (CIVIL) MIEAUST PENG	
B		ISSUED FOR DEVELOPMENT APPLICATION	
ISSUE		REVISION DESCRIPTION	APPR. DATE 05/09/23

