

160-178 STONEY CREEK ROAD BEVERLY HILLS, NSW 2209



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AJ Whipps Consulting Group

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Where ingenuity flows

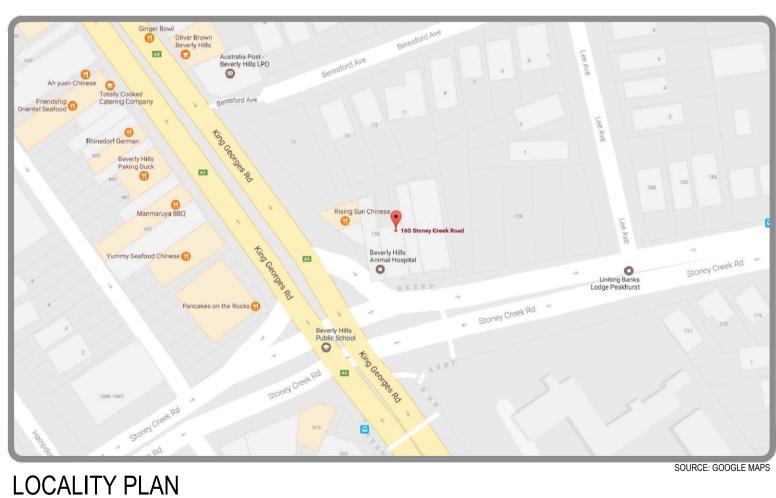
DRAWING SCHEDULE

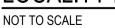
C000	COVER SHEET, LEGEND & DRAWING SCHEDULE
C001	EROSION & SEDIMENT CONTROL PLAN
C002	EROSION & SEDIMENT CONTROL DETAILS
C101	BASEMENT B3 FLOOR PLAN
C102	BASEMENT B1 FLOOR PLAN
C103	GROUND FLOOR PLAN
C104	LEVEL 1 FLOOR PLAN
C105	LEVEL 2 FLOOR PLAN
C106	LEVEL 3 & 4 FLOOR PLAN
C107	ROOF PLAN

DETAILS SHEET

SPECIFICATION

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE AJ WHIPPS CONSULTING GROUP HYDRAULIC SERVICES CURRENT PROJECT SPECIFICATION





THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: IS DRAWING IS DIAGRAMMATIC ONLY AND HAS BEEN PREPARED FOR THE PURPOSE OF INDICATING THE DESIGN INTENT AND SCOPE OF WORKS OF THE HYDRAULIC AND FIRE PROTECTION SERVICES INSTALLATION AND SHOULD NOT BE INTERPRETED AS BEING DEFINITIVE. IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR SUBCONTRACTOR TO INVESTIGATE AND COORDINATE BEFORE AND DURING THE CONSTRUCTION PHASE ALL EXISTING SERVICES AND STRUCTURE WHICH WILL AFFECT THE INSTALLATION OF THESE SERVICES. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HYDRAULIC AND FIRE SERVICES SPECIFICATION. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT CODES AND STANDARDS. POSITION AND LEVELS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE INDICATIVE ONLY AND ARE TO BE CHECKED PRIOR TO COMMENCING ANY WORK. DO NOT SCALE FROM THIS DRAWING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSION SETOUT. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL ELECTRICAL AND MECHANICAL DRAWINGS ALL RIGHTS RESERVED, THIS WORK IS COPYRIGHT AND CANNOT BE REPRODUCED OR COPIED IN ANY FORM OR BY ANY P1 16.02.2017 DEVELOPMENT AF MEANS WITHOUT THE WRITTEN PERMISSION OF AJ WHIPPS CONSULTING GROUP. ANY LICENSE, EXPRESSED OR No. Date Details IMPLIED, TO USE THIS DOCUMENT FOR ANY PURPOSE WHATSOEVER IS RESTRICTED TO THE TERMS OF AGREEMENT BETWEEN AJ WHIPPS CONSULTING GROUP & THE INSTRUCTING PARTY. Amendments 4

STORMWATER SERVICES

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ONSTRUCTION PHASE ALL EXISTING SERVICES AND

CARRIED OUT IN ACCORDANCE WITH THE RELEVANT CODES AND STANDARD

3 REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSION SETOUT. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL FLECTRICAL AND MECHANICAL DRAWING. 4. ALL EXISTING UNDERGROUND SERVICES INDICATED ON PLAN ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN & ARE SHOWN IN ASSUMED LOCATIONS ONLY. INVESTIGATE & CONFIRM A RELEVANT LOCATIONS & CONNECTIONS PRIOR TO INSTALLATION OF NEW PIPES & ADVISE SUPERINTENDENT OF ANY DISCREPANCIE

5 INVESTIGATE LOCATION OF ALL EXISTING SERVICES AFFECTED BY NEW WORKS AND AMEND AS REQUIRED COOPDINATE AL REASONABLE & ADEQUATE ADVANCE NOTICE

6 ALL RIGHTS RESERVED THIS WORK IS COPYRIGHT AND CANNOT BI

7. PROVISION FOR BALCONY OVERFLOWS TO BE VIA OPEN STYLE BALUSTRADE OR SIDE OVERFLOW OPENINGS. AS CONFIRMED DURING DETAILED DESIGN PHAS 8 FINAL DOWNPIPE LOCATIONS ROOF GUTTER SECTIONS & EMERGENCY OVERELOWS TO BE GENERALLY IN ACCORDANCE WITH ARCHITECT'S DOCUMENTATION & CONSISTENT WITH AS3500.3 TO BE CONFIRMED AT THE DETAILED DESIGN STAGE

STORMWATER PIT NOTE

PITS TO BE REINFORCED CONCRETE IN ACCORDANCE WITH AS3500.3

2. GRATES GENERALLY TO BE HINGED GALVANISED MILD STEEL EQUAL TO MASCOT ENGINEERING (ADOPT HEELPROOF STYLE WHERE APPLICABLE 3. FALL BASE OF TRENCH DRAINS TO OUTLET AT MIN 1%

4. GENERALLY GRADE SURROUNDING SURFACES TO GRATES

5. PROVIDE STEP RUNGS WHERE PIT DEPTH EXCEEDS 1200

6. DETENTION TANK ACCESS GRATE TO BE HINGED & LOCKABLE

GENERAL STORMWATER DRAINAGE NOTES

1. COLEBROOK-WHITE ROUGHNESS k = 0.015mm FOR POLYVINYL CHLORIDE PIPE (PVC). 2. COLEBROOK-WHITE ROUGHNESS k = 0.15mm FOR GALVANISED MILD STEEL (GMS) FOR RHS.

3. A MINIMUM PIPE SLOPE OF 1.00% IS ASSUMED FOR CALCULATION PURPOSES.

4. SURFACE LEVELS BASED ON ARCHITECTURAL & SURVEY DRAWINGS.

5. CONFIRM PRACTICALITY OF PIPE INSTALLATION & ADVISE OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

6. SUSPENDED STORMWATER DRAINAGE TO BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS SUPPORTED AS PER AS/NZS3500.3 CLAUSE 4.16.6

7. STORMWATER DRAINAGE TO BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS LAID ON GRANULAR BEDDING TO AS/NZS3500.3 CLAUSE 7.4.2. 8. SUBSOIL DRAINAGE (WHERE REQUIRED) TO BE SLOTTED UPVC WITH FILTER SOCK LAID IN FREE-DRAINING GRANULAR MATERIAL TO AS3500.3 CLAUSE 7.4.2.

9. CONFIRM ALL SUBSOIL DRAINAGE REQUIREMENTS PRIOR TO CONSTRUCTION & COORDINATE WITH FOOTING LEVELS WHERE APPLICABLE.

10. ALL DRAINAGE TO BE MIN 100Ø UNLESS NOTED OTHERWISE. ENSURE PIPE BENDS GENERALLY DO NOT EXCEED 45 DEGREES IN PLAN.

11. THE ENTIRE DRAINAGE INSTALLATION SHALL COMPLY WITH THE RELEVANT PROVISIONS OF AS3500.3. 12. ALL GMS RHS CONDUITS TO BE MIN 5mm THICK.

11. WATERTIGHT INSPECTION OPENINGS OR PITS TO BE PROVIDED FOR CLEANING PURPOSES AT MAXIMUM 30m INTERVALS & IN ACCORDANCE WITH AS3500.3 CLAUSE 8.5.1.

12. ALL STORMWATER OUTLETS TO BE 100Ø FLAT GRATE EQUAL TO SPECIALITY PLUMBING SUPPLIES TRUFLO SERIES (TEL 02 9416 8031).

13. ALL DOWNPIPES DRAINING TO THE STORAGE SYSTEM SHALL BE MADE WATERTIGHT BELOW THE MAXIMUM WATER STORAGE LEVEL

14. PIPE CONNECTIONS TO TANKS OR PITS EXCEEDING 1m DEPTH SHALL BE PROVIDED WITH FLEXIBLE JOINTS TO ACCOMMODATE LONG-TERM SETTLEMENT AS PER AS/NZS3500.3 CLAUSE 7.3.3. 15. BUILDER TO PROVIDE 'AS BUILT' DRAWINGS OF ALL RELEVANT DRAINAGE WORKS AS REQUIRED FOR CERTIFICATION PURPOSES. IN SOME CASES COUNCIL MAY REQUIRE APPROVED PLANS TO BE MARKED WITH RED INK TO INDICATE CHANGES TO THE ORIGINAL DESIGN LAYOUT.

16. ANY PROPOSED CHANGE TO DETENTION DISCHARGE CONTROL SHALL BE SUBMITTED TO CONSULTANT FOR APPROVAL PRIOR TO INSTALLATION.

17. FINAL DRAINAGE LAYOUT SHALL BE MARKED ON AS-BUILT DRAWINGS AS REQUIRED FOR CERTIFICATION & REFERENCE PURPOSES.

18. ALL REQUIRED EASEMENTS, POSITIVE COVENANTS OR OTHER LEGAL INSTRUMENTS TO BE ARRANGED & REGISTERED BY SURVEYOR OR OTHER APPROVED AGENT.

19. WHERE APPLICABLE, BUILDER TO PAY ALL ROAD OPENING & COUNCIL FEES ASSOCIATED WITH REQUIRED CONSTRUCTION.

20. SITE INSPECTIONS SHOULD BE ARRANGED IN ACCORDANCE WITH CONSENT CONDITIONS AND CERTIFIER'S REQUIREMENTS, WITH REASONABLE ADVANCE NOTICE BEING GIVEN AND WRITTEN CONFIRMATION

FROM THE RELEVANT PARTY THAT THE CURRENT HOURLY RATE FEE WILL BE PAID. 21. AS-BUILT DRAWING/SURVEY OF COMPLETED WORKS SHOULD BE MADE AVAILABLE TO VIEW PRIOR TO ARRANGING FOR FINAL SITE INSPECTION.

CONSTRUCTION NOTES

1. THE BUILDER SHALL ENSURE THAT ALL ITEMS INDICATED ON THE APPROVED DRAWINGS (SUCH AS ORIFICE PLATE AT THE CORRECT LEVEL, REMOVABLE DEBRIS SCREEN, STEP RUNGS, ETC) HAVE BEEN INSTALLED PRIOR TO FINAL INSPECTION & MEASUREMENT BY A REGISTERED SURVEYOR OR OTHER APPROVED AGENT. ENGINEERING CERTIFICATION WILL NOT BE ISSUED IF DOCUMENTED VERIFICATION OF CRITICAL ITEMS (INCLUDING STORAGE VOLUME) IS NOT PROVIDED.

PPLICATION	Architect CANDALEPAS 309 SUSSEX STREET SYDNEY, NSW 2000 Client CUZENO BUILDERS 33 BERNARD ROAD PADSTOW HEIGHTS,	S & DEVELOPERS	Where ingenuity	2/101 Union St N sydney@	Consulting Group , McMahons Point SW 2060 Australia t: 61 2 8923 8444 f: 61 2 8923 8484 @ajwhipps.com.au ajwhipps.com.au	78 STONEY CF RLY HILLS, NS	Drawing STOF CO DR
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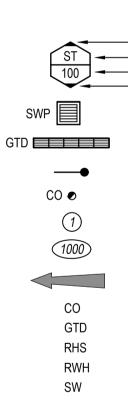
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LEGEND

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TEMPORARY SEDIMENT FENCE FLOW TO ABOVE SERVICE TYPE SERVICE SIZE STORMWATER GRATED PIT GRATED TRENCH DRAIN PIPE PENETRATING CLEAROUT NODE POINT NODE POINT OVERLAND FLOWPATH CLEAROUT

STORMWATER

SUBSOIL DRAINAGE

AUTHORITY SEWER MAIN

AUTHORITY COLD WATER MAIN

RAINWATER

GRATED TRENCH DRAIN RECTANGULAR HOLLOW SECTION RAINWATER HEAD STORMWATER STORMWATER PIT

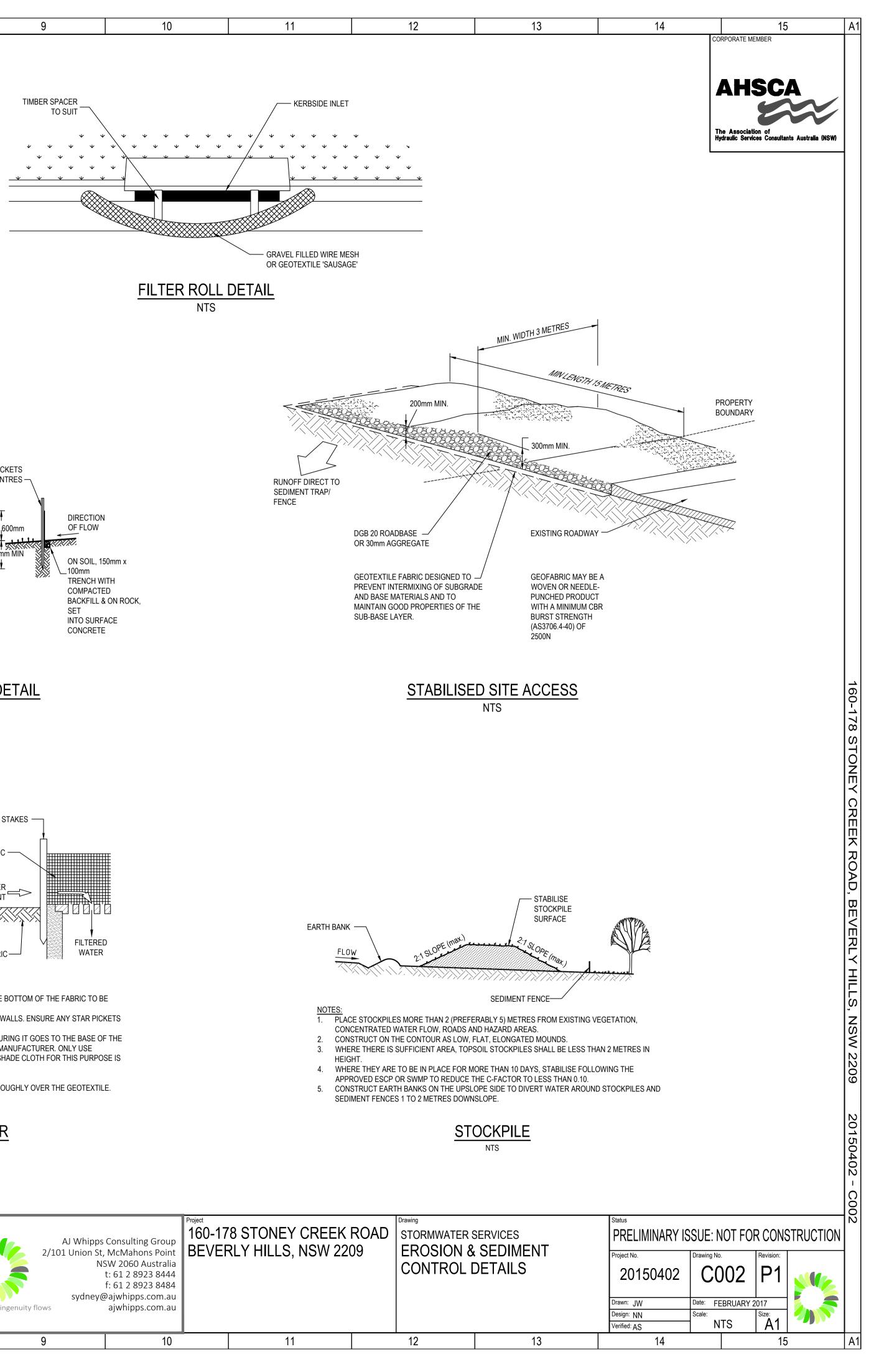
SITE ACCESS

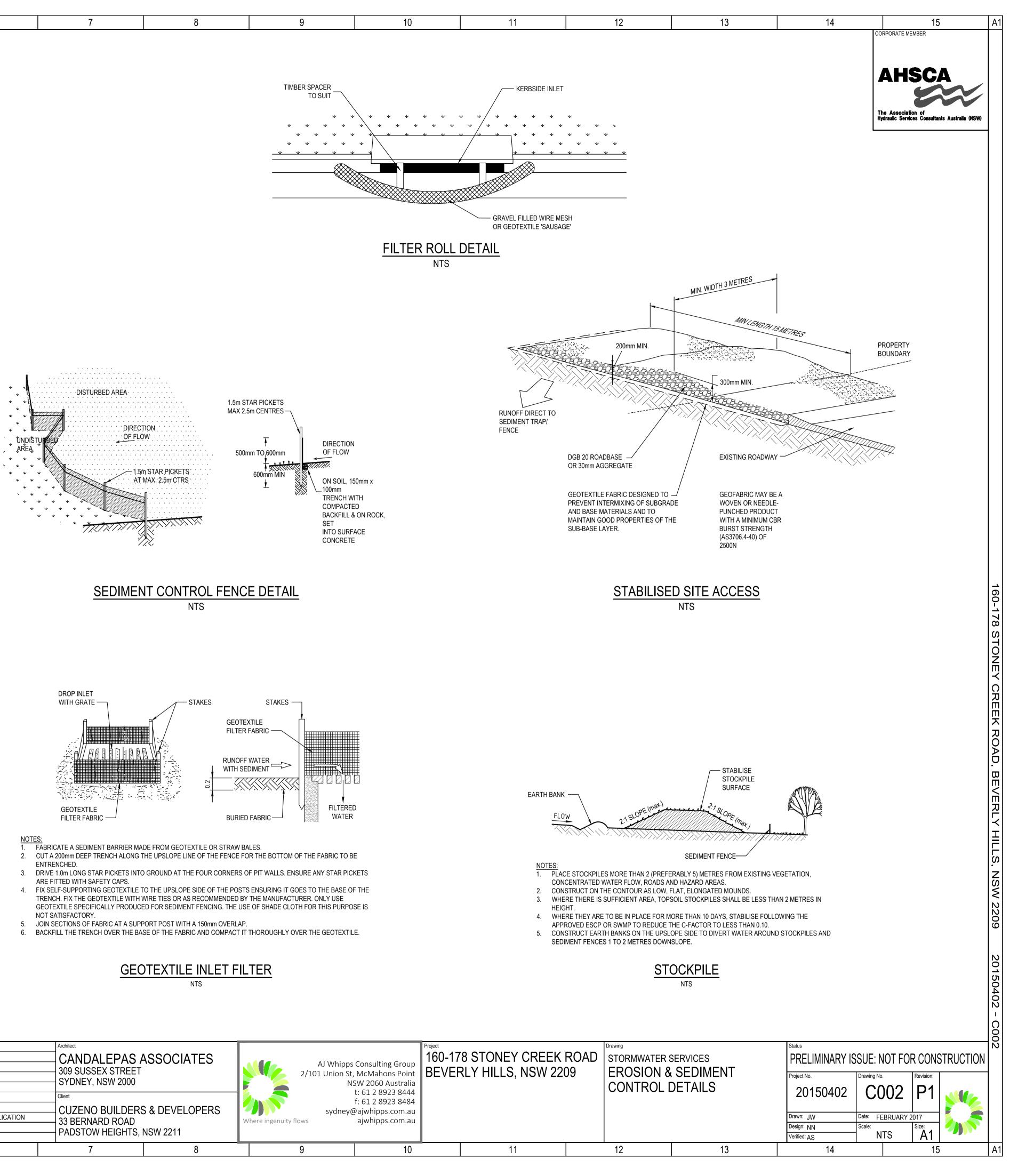
FILTER ROLL

Project No. Project No. Drawing No. Project No. AWING SCHEDULE 20150402 Drawing No. P1 Drawn: JW Date: FEBRUARY 2017 Design: NN Scale: Size: Verified: AS NTS A1			PRELIMINARY IS	SSUE: N	IOT FO	R CONS	STRUCTION	2000
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A1	1	2	3		4		5	6
А	SOILS AND CONSTRUCTION, OTH CONDITIONS. IT IS THE CONTRAC	NTS DEROSION CONTROL PLAN (SECP) HAS I HERWISE KNOWN AS 'THE BLUE BOOK'. CTOR'S RESPONSIBILITY ALL TIMES TO B	THE CONTRACTOR SHALL	BE AT ALL TIMES R	ESPONSIBLE FOR TAIL	ORING THIS PLAN T	O SUIT SITE	
	 ERECT SAFETY FENCING ERECT CLEARLY VISIBLE CONTROLLED AND TO PR INSTALL STABILISED SITE SEDIMENT OFF THE SITE 	T OF EARTHWORKS ON THE SITE THE FO WITH SIGNAGE CLEARLY INDICATING TH BARRIER FENCING AT LOCATIONS SHOW ROHIBIT UNNECESSARY SITE DISTURBAN E ACCESS IN ACCORDANCE WITH DRAWI ONTO SURROUNDING ROADS.	HAT THE SITE IS A CONSTR WN OR IF NOT SHOWN AT T ICE. NG SD6-14 AT EACH SITE A	UCTION ZONE AND HE DISCRETION OI CCESS POINT TO F	ACCESS IS RESTRICT THE SITE SUPERINTI REVENT CONSTRUCT	ENDENT TO ENSURE	TRAFFIC IS DM CARRYING	
В	REQUIREMENTS OF THE ' CONSTRUCTION 5. TOPSOIL, FROM ALL ARE/ REVEGETATION IN LOCAT	EROSION CONTROL DEVICES IN ACCORI 'BLUE BOOK'. AS TO BE DISTURBED, SHALL BE STRIPP TIONS WHERE SHOWN ON THIS DRAWIN HALL BE CONSTRUCTED AND STABILISE	ED PRIOR TO CONSTRUCT G. TOPSOIL SHALL BE STO	ION OF ANY WORK CKPILED IN WINDR(S AND STOCKPILED AI DWS OUTSIDE OF MAJ	ND LATER RESPREA		
	 ALL TAIL-OUT DRAINS SH. ALL DISTURBED AREAS S LANDSCAPE ARCHITECTS INLET FILTERS WILL BE IN 	ALL BE GRASSED AND TRAPEZOIDAL IN SHALL BE REVEGETATED AS SOON AS TH	SECTION. HAY BALES SHAI IE RELEVANT WORKS ARE WATER FROM DIRECTLY E	L BE PLACED AS A COMPLETED. TOPS	SEDIMENTATION CON SOIL SHALL BE AMELIC MANENT DRAINAGE S	ORATED AND COMPO	STED TO	
С	AND HAZARD AREAS. 11. IF STOCKPILES ARE TO B 12. STOCKPILES SHALL BE IN	CKPILES SHALL BE LOCATED NO CLOSE E IN PLACE FOR LONGER THAN 10 DAYS WINDROWS NO HIGHER THAN 2m HIGH SEDIMENT FENCING SHALL BE INSTALLE	THEN THEY SHALL BE STA AND SHALL HAVE BATTER	BILISED BY COVER SLOPES NO STEEF	RING WITH MULCH OR PER THAN 1 IN 2. AN E	WITH TEMPORARY V ARTH BANK SHALL B	EGETATION.	
D	MAINTENANCE PERIOD) A 14. TEMPORARY SEDIMENT A 15. THE CONTRACTOR WILL I - ENSURE THAT DRAINS	ND TRAPS SHALL BE CLEANED WHEN TH AND DISPOSED OF IN A MANNER THAT PI AND EROSION CONTROL DEVICES WILL I INSPECT THE SITE AT LEAST WEEKLY OI S OPERATE PROPERLY AND TO EFFECT ND OR OTHER MATERIALS FROM HAZARI	REVENTS FURTHER POLLU BE RETAINED UNTIL AFTER R AFTER ANY STORM EVEN ANY NECESSARY REPAIRS	TION OF THE SITE. THE LANDS THEY IT AND WILL:	ARE PROTECTING, AR	E COMPLETELY REH	ABILITATED.	
	VELOCITY FLOWS ESF - REMOVE TRAPPED SE - ENSURE REHABILITAT - CONSTRUCT ADDITIONA	PECIALLY DRAINS, WATERWAYS AND PA EDIMENT WHENEVER LESS THAN DESIGN FED LANDS HAVE EFFECTIVELY REDUCE AL EROSION AND/OR SEDIMENT CONTRO ND SEDIMENT CONTROL MEASURES IN A	VED AREÀS) N CAPACITY REMAINS WITH D THE EROSION HAZARD A DL WORKS AS REQUIRED	IIN THE STRUCTUR ND TO INITIATE UP	E GRADING OR REPAIR	AS APPROPRIATE		
E	- REMOVE TEMPORARY 16. A SELF-AUDITING PROGR - AT LEAST WEEKLY - IMMEDIATELY BEFORE - IMMEDIATELY BEFORE	Y EROSION AND SEDIMENT CONTROL ST RAM WILL BE ESTABLISHED BASED ON A E SITE CLOSURE E FORECAST RAIN AND AFTER RAINFALL DE (BUT ARE NOT LIMITED TO)	CHECK SHEET. A SITE INS				ONTRACTOR:	~
	i) THE VOLUME AND IN ii) THE CONDITION AN iii) THE CONDITION OF iv) THE NEED FOR DUS v) ANY REMEDIAL WO - A SIGNED DUPLICATE	NTENSITY OF ANY RAINFALL EVENTS D MAINTENANCE OF ANY SOIL AND WAT VEGETATION AND ANY NEED TO IRRIG/ ST PREVENTION STRATEGIES RKS TO BE UNDERTAKEN. OF THE CHECK SHEET SHOULD BE FOR ON-SITE AND MADE AVAILABLE TO ANY A	ATE WARDED TO THE PROJEC	T MANAGER WEEKL	Y FOR THEIR INFORM	ATION. ALL CHECK S	SHEETS SHOULD	
F	SEDIMENT FENCE CON 1. CONSTRUCT SEDIMENT F TO LIMIT THE CATCHMEN TO 50 LITRES PER SECON		NG PARALLEL TO THE CON TCHMENT AREA SHOULD BI LLY THE 10YR EVENT.	TOURS OF THE SIT	TO LIMIT WATER FLOW			
G	 DRIVE 1.5m LONG STAR P WITH SAFETY CAPS. FIX SELF-SUPPORTING G AS RECOMMENDED BY TH PURPOSE IS NOT SATISFA JOIN SECTIONS OF FABRI 	PICKETS INTO THE GROUND AT 2.5m INTE OETEXTILE TO THE UPSLOPE SIDE OF T HE MANUFACTURER. ONLY USE GEOTE	ERVALS (MAX) AT THE DOW HE POSTS ENSURING IT GO XTILE SPECIFICALLY PROD OVERLAP.	NSLOPE EDGE OF DES TO THE BASE (UCED FOR SEDIME	The Trench. Ensur of the Trench. Fix 1 NT Fencing. The US	THE GEOTEXTILE WIT	TH WIRE TIES OR	
Н	TO ENABLE THE ISSUE OF STO LEGISLATION, SITE INSPECTION ALL STORMWATER INSPECTION SITE INSPECTIONS ARE TO BE C	ANT - FOR PRINCIAL DRMWATER CERTIFICATION PERMITTIN NS MUST OCCUR. THE PRINCIPAL CON NS. ABSENCE OF INSPECTION WILL PRI COMPLETED BY AJ WHIPPS CONSULTING NSPECTION REQUIREMENTS	NG OCCUPATION IN ALIGN TRACTOR IS RESPONSIBL EVENT ISSUE OF STORMW GROUP (AJW) AS FOLLOW AJW RESENTATIVE	IMENT WITH COUN E FOR COORDINAT ATER CERTIFICAT /S:	ING			
	DRAINAGE PRIOR T 2 INSPECTION OF AN DRAINAGE NOT VIE (OPTIONAL)	GROUND STORMWATER TO BACKFILL (MANDATORY) TY INGROUND STORMWATER EWED AT INSPECTION NO. 1						
I	TRENCH PRIOR TO4FINAL INSPECTIONLANDSCAPING & POSTORMWATER SYS5SURVEY OF RAINW	FILTRATION PIT / TANK / BACKFILL (JOB SPECIFIC) ON COMPLETION OF ALL OST COMMISSIONING OF THE STEM (MANDATORY) ATER & ONSITE DETENTION S EXECUTED STORMWATER						
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	NOTES: 1. THIS DRAWING IS DIAGRAMMATIC ONLY AND HAS	BEEN PREPARED FOR THE PURPOSE OF INDICATING TH		HAS BEEN PREPARED IN (CONJUNCTION WITH THE FOLL	OWING DRAWINGS:		
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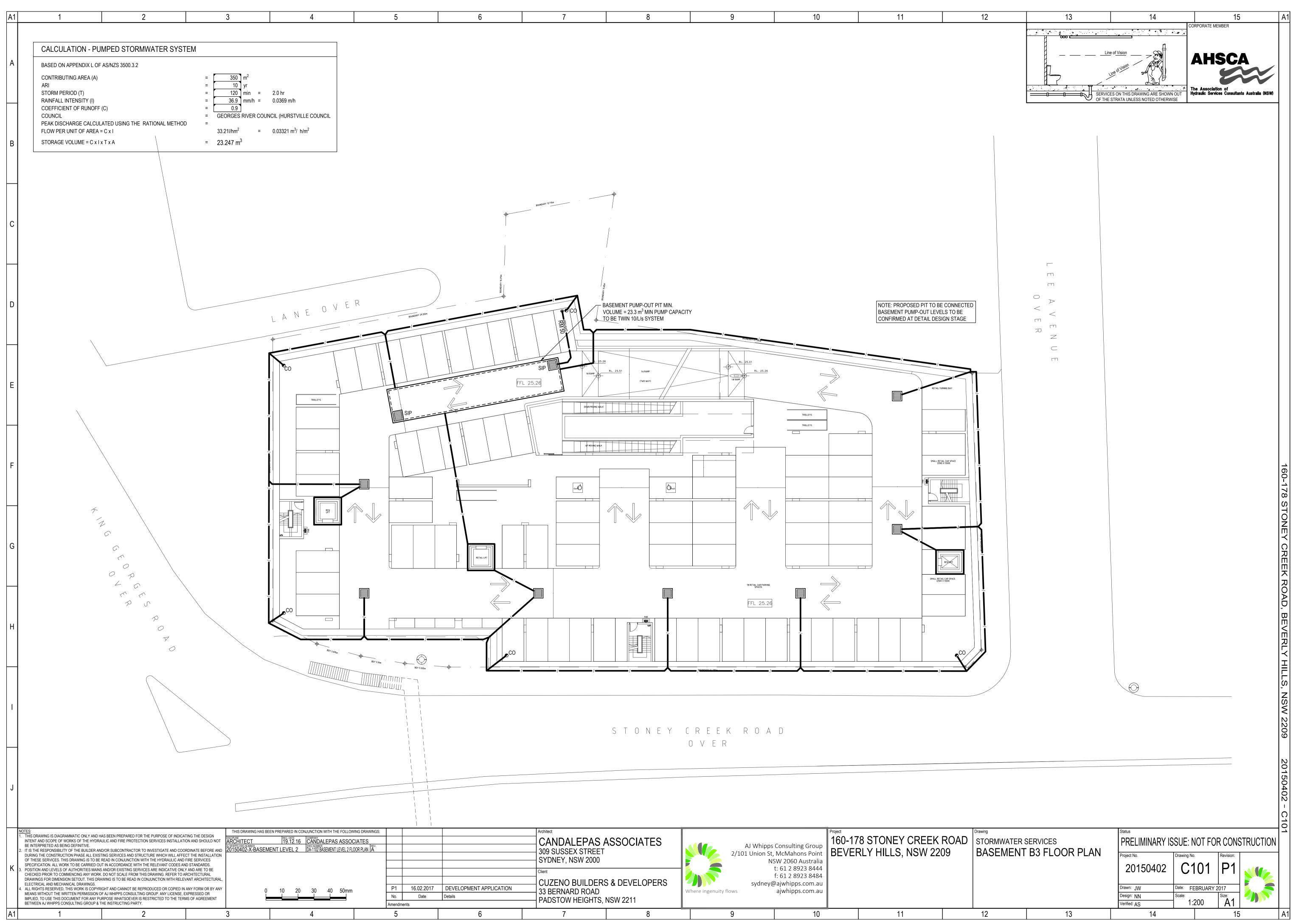


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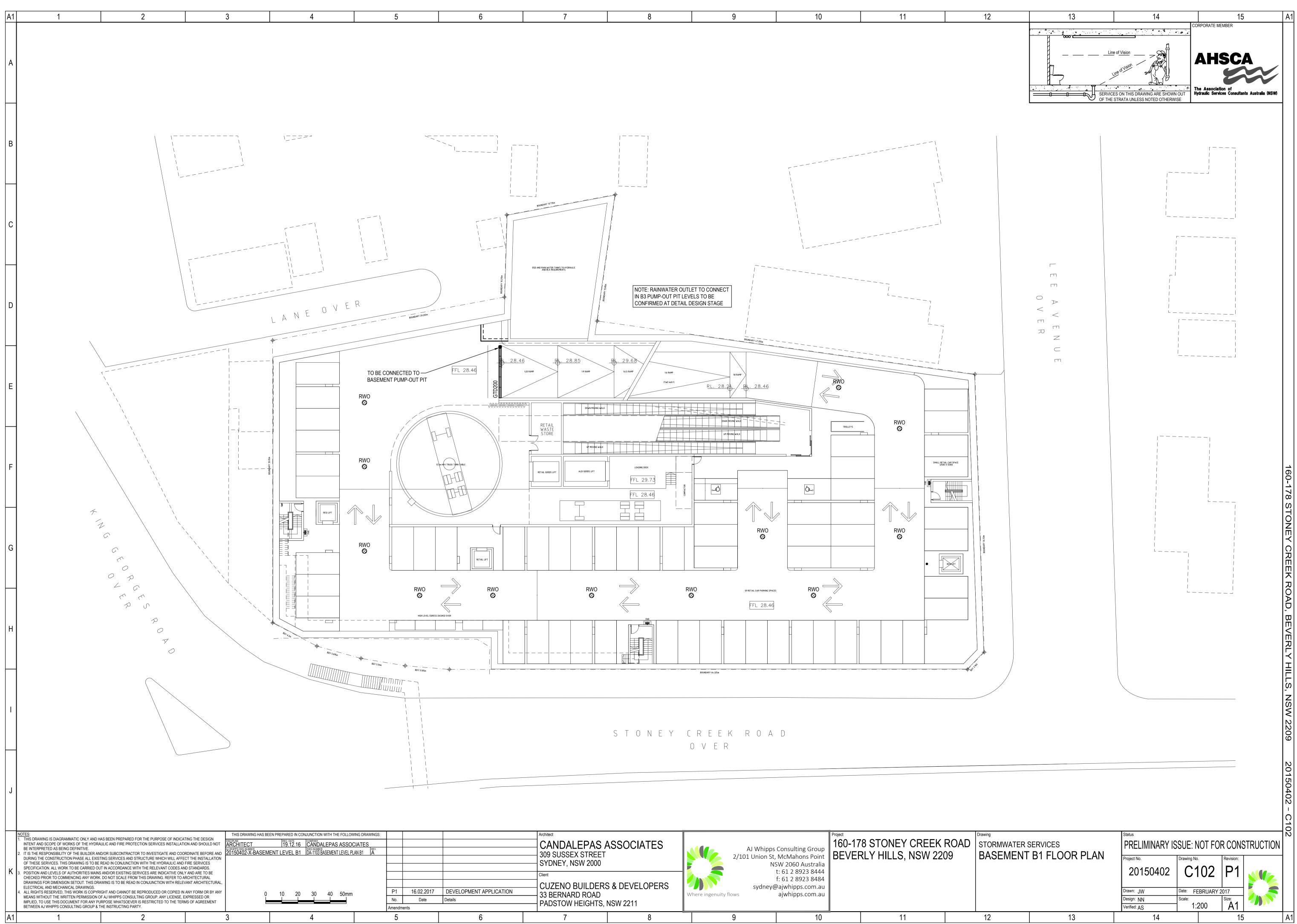
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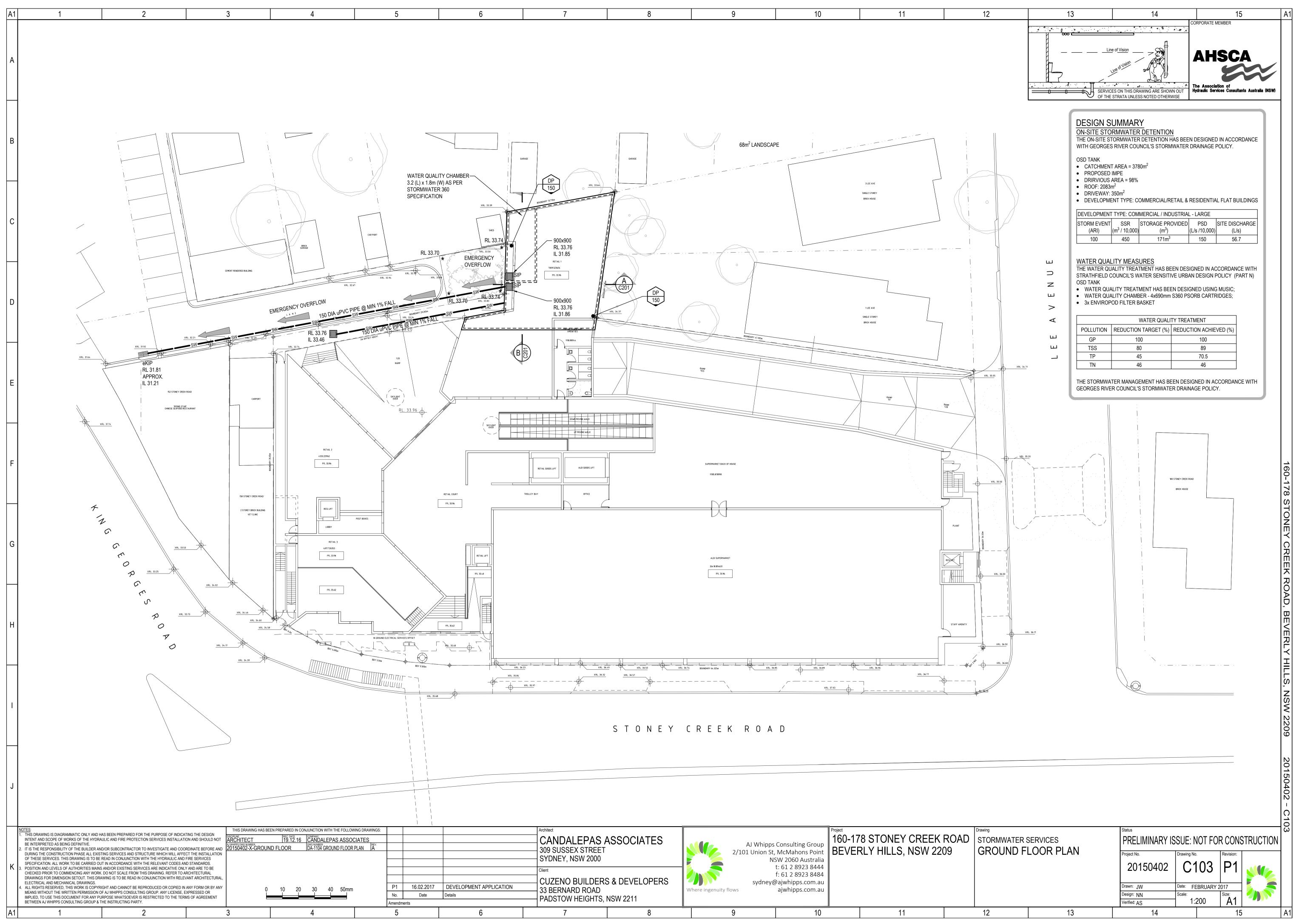
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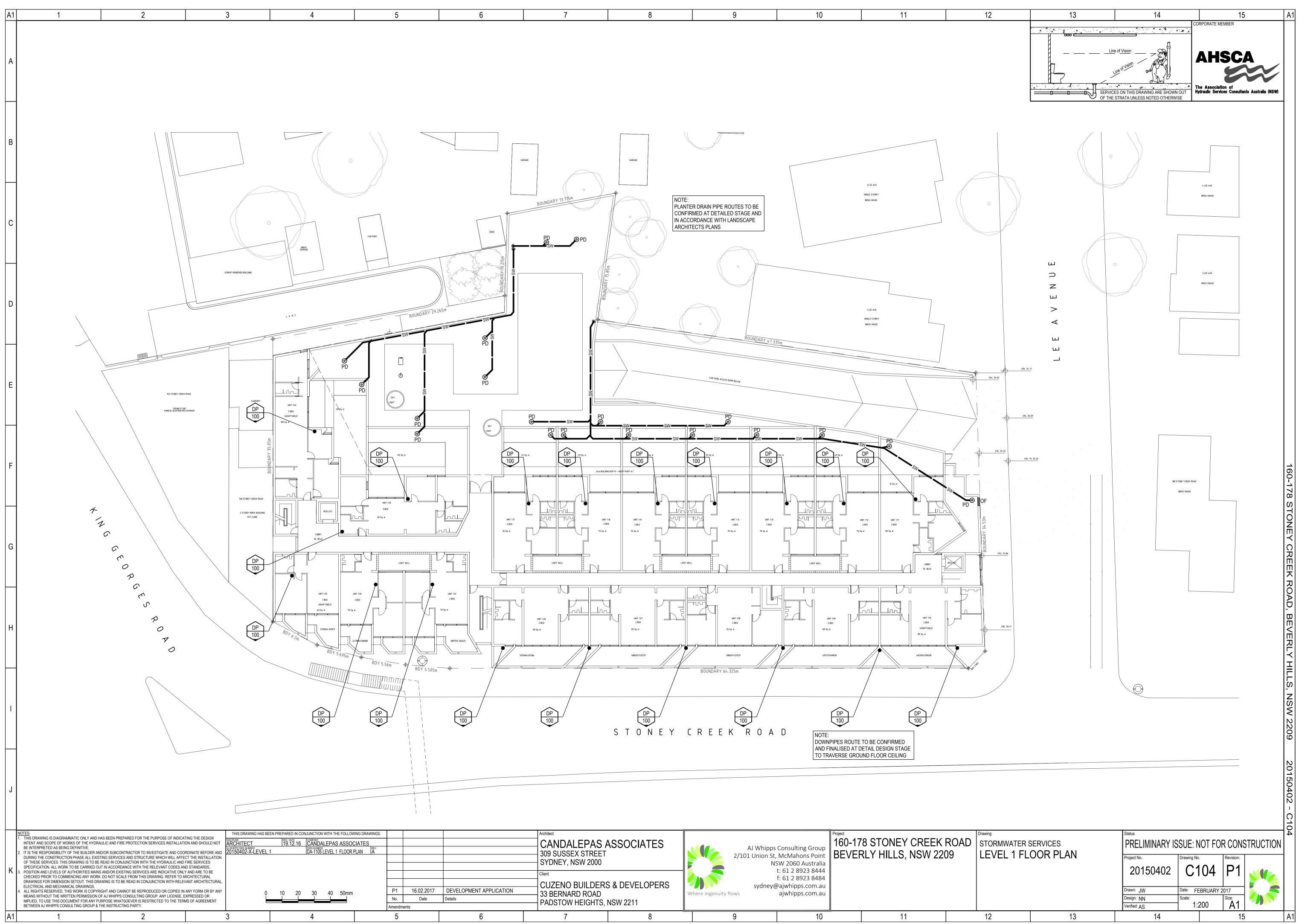
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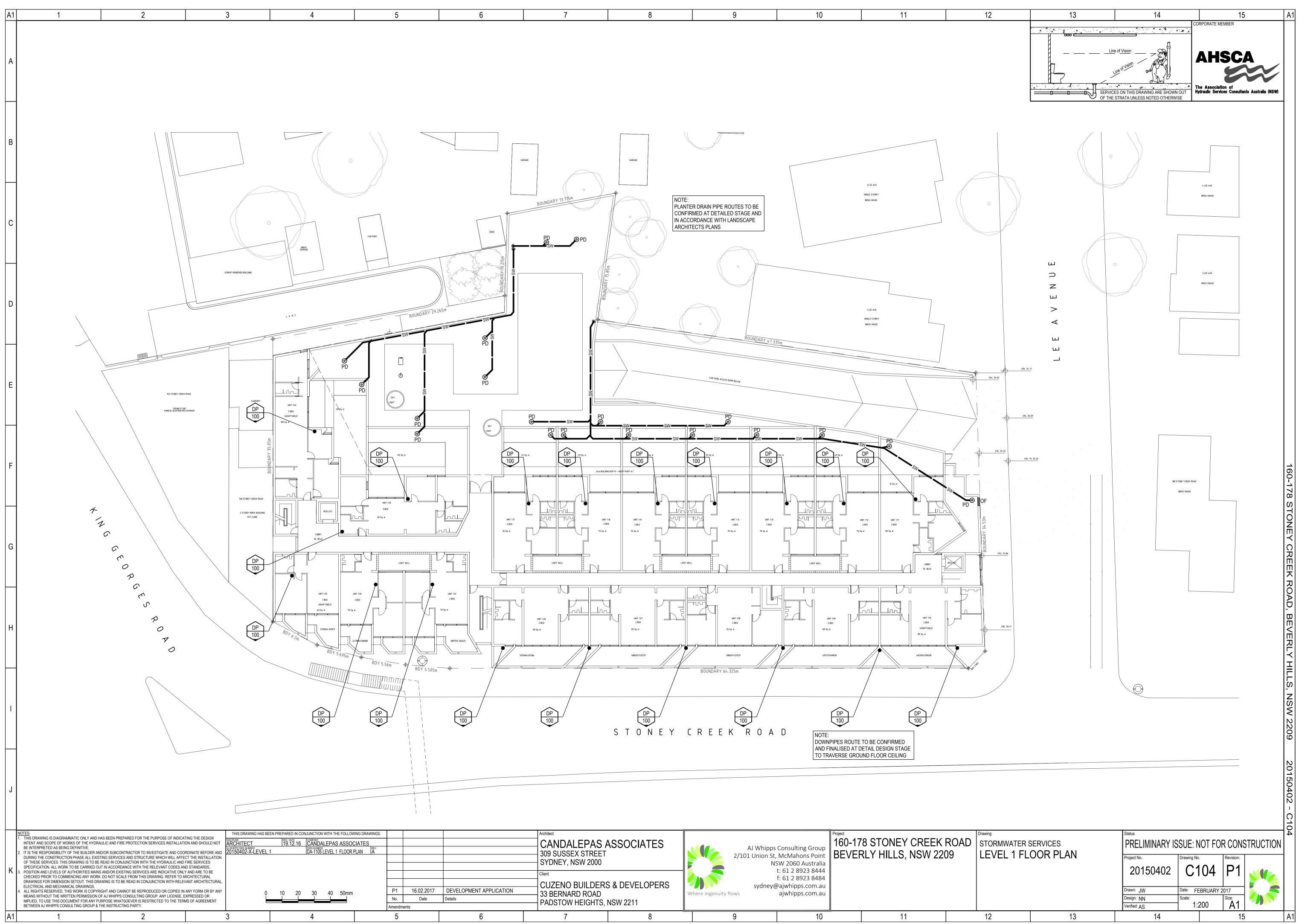
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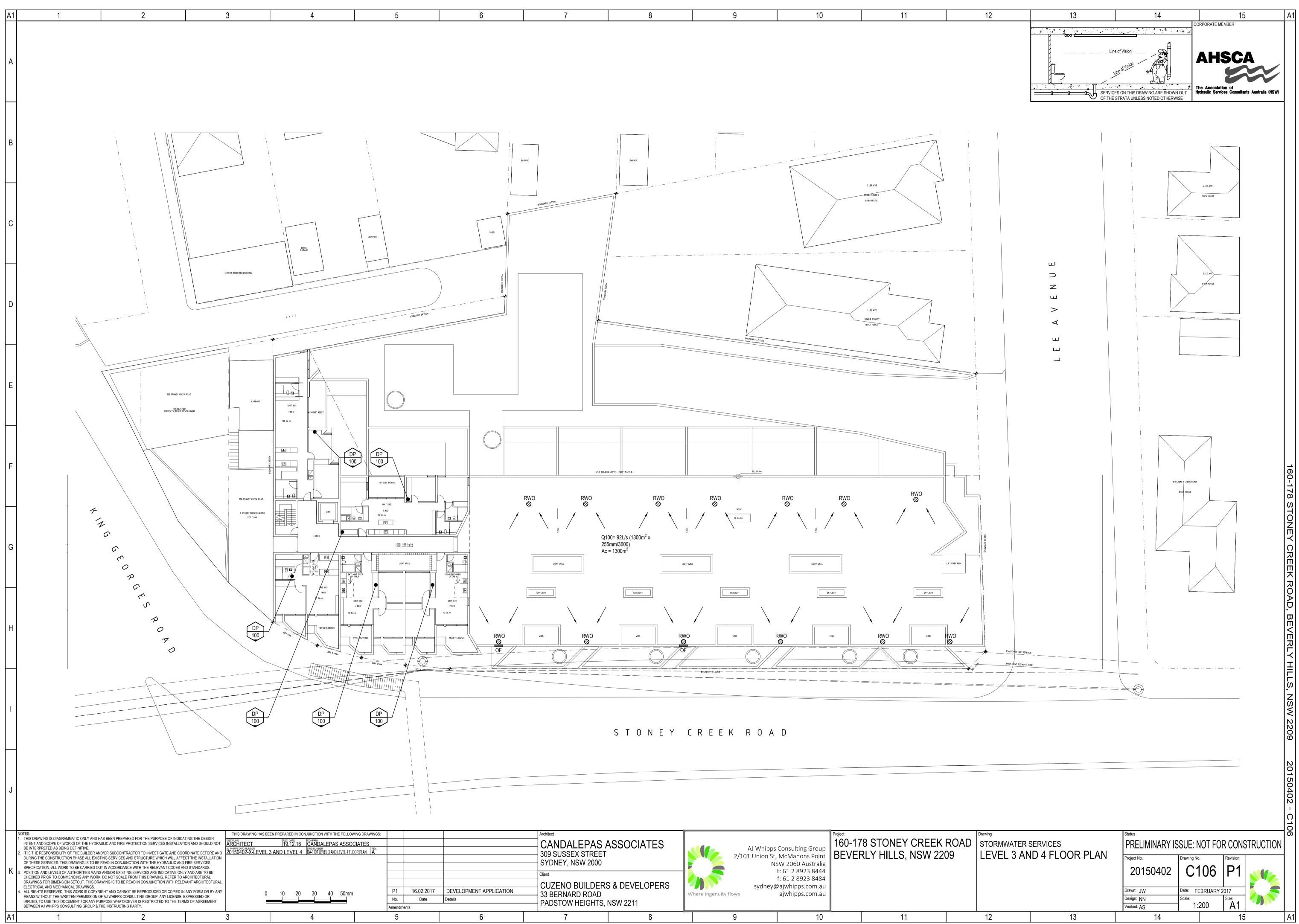
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		ASSOCIATES		AJ Whipps Co	onsulting Group			CREEK ROAD	Drawing STORM



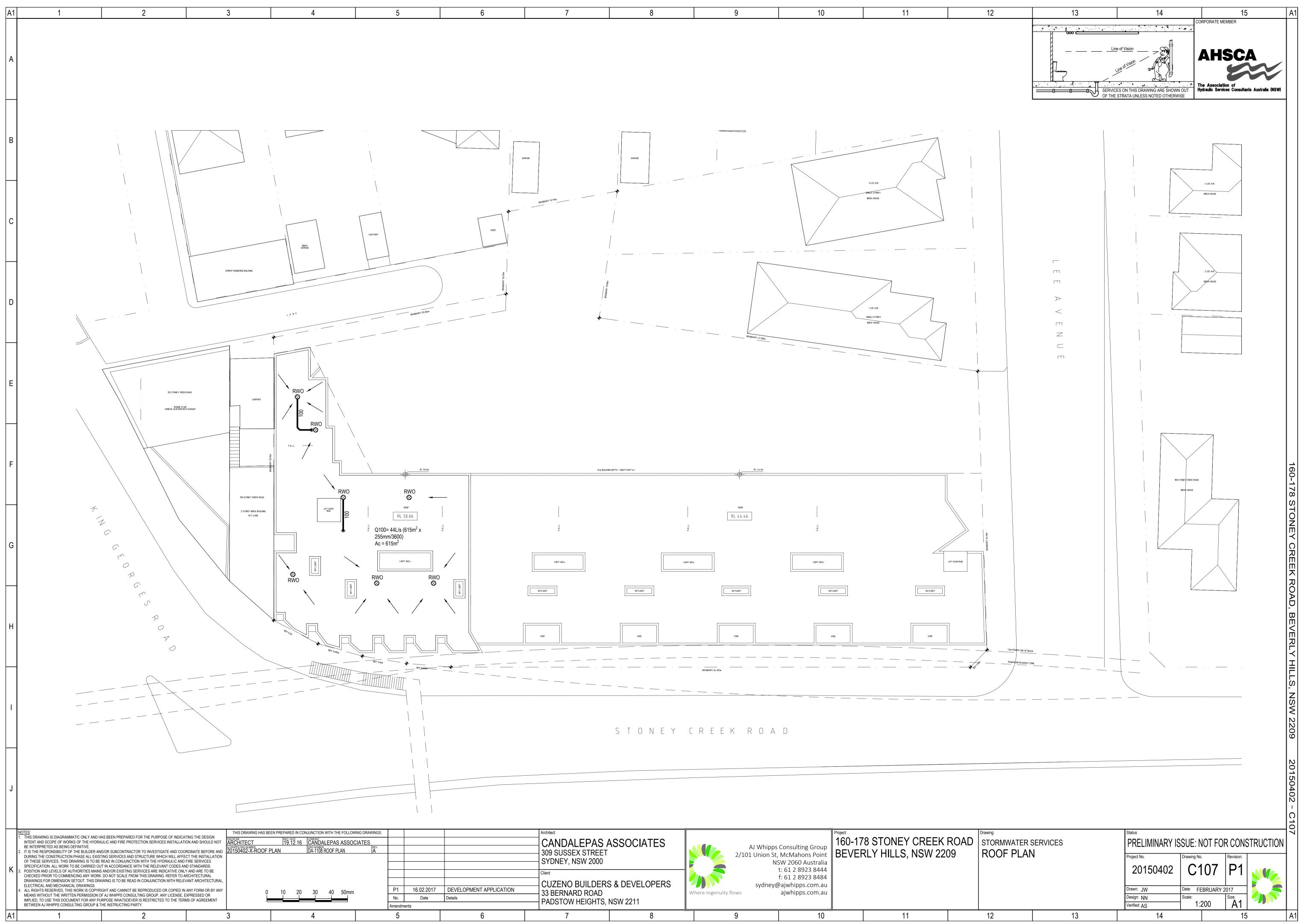
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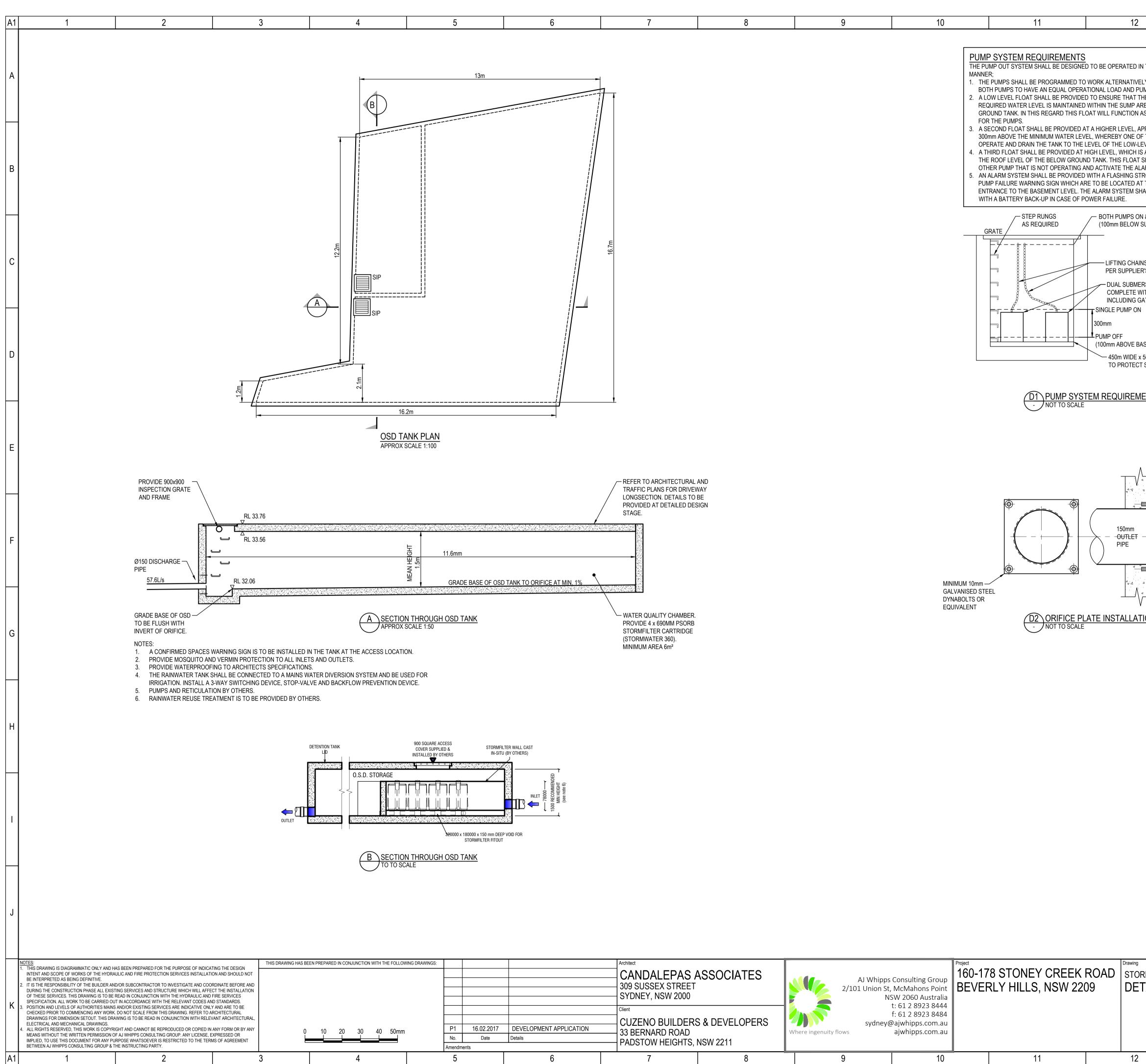
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				NED TO BE OPERATED IN THE FOLLO TO WORK ALTERNATIVELY SO AS TO RATIONAL LOAD AND PUMP LIFE. DED TO ENSURE THAT THE MINIMUM ED WITHIN THE SUMP AREA OF THE FLOAT WILL FUNCTION AS AN OFF S O AT A HIGHER LEVEL, APPROXIMAT EVEL, WHEREBY ONE OF THE PUMP E LEVEL OF THE LOW-LEVEL FLOAT T HIGH LEVEL, WHICH IS APPROXIM UND TANK. THIS FLOAT SHOULD ST. S AND ACTIVATE THE ALARM. ED WITH A FLASHING STROBE LIGHT ARE TO BE LOCATED AT THE DRIVE THE ALARM SYSTEM SHALL BE PRO POWER FAILURE. BOTH PUMPS ON & SOUND A (100mm BELOW SURFACE) ULIFTING CHAINS OR GUID PER SUPPLIER'S RECOMM DUAL SUBMERSIBLE PUM COMPLETE WITH ALL REC INCLUDING GATE VALVES SINGLE PUMP ON 300mm PUMP OFF (100mm ABOVE BASE) 450m WIDE x 50mm HIGH TO PROTECT SUCTION IN	D ALLOW M BELOW WITCH ELY S WILL TATELY ART THE TAND A WAY VIDED ALARM E RAILS AS MENDATIONS IPS DISCHARGING TO RISING MAIN QUIRED PIPEWORK COMPONENTS S & NON-RETURN VALVES		CORPORATE MEMBER	
MIN. 1%		GALVA DYNAB	UM 10mm NISED STEEL BOLTS OR ALENT D2 ORIFICE I 1 NOT TO SCA	PLATE INSTALLATION	MINIMUM 10mm GALVANISED STEEL DYNABOLTS OR EQUIVALENT MINIMUM 3mm THICK STAINLESS STEEL PLATE 144mm SHARP EDGED MACHINE CUT HOLE TO REQUIRED DIAMETER EPOXY RESIN ORIFICE PLATE TO WALL AND PROVIDE SILICON SEALANT AROUND THE EDGES C THE PLATE)		
(see note 6)								