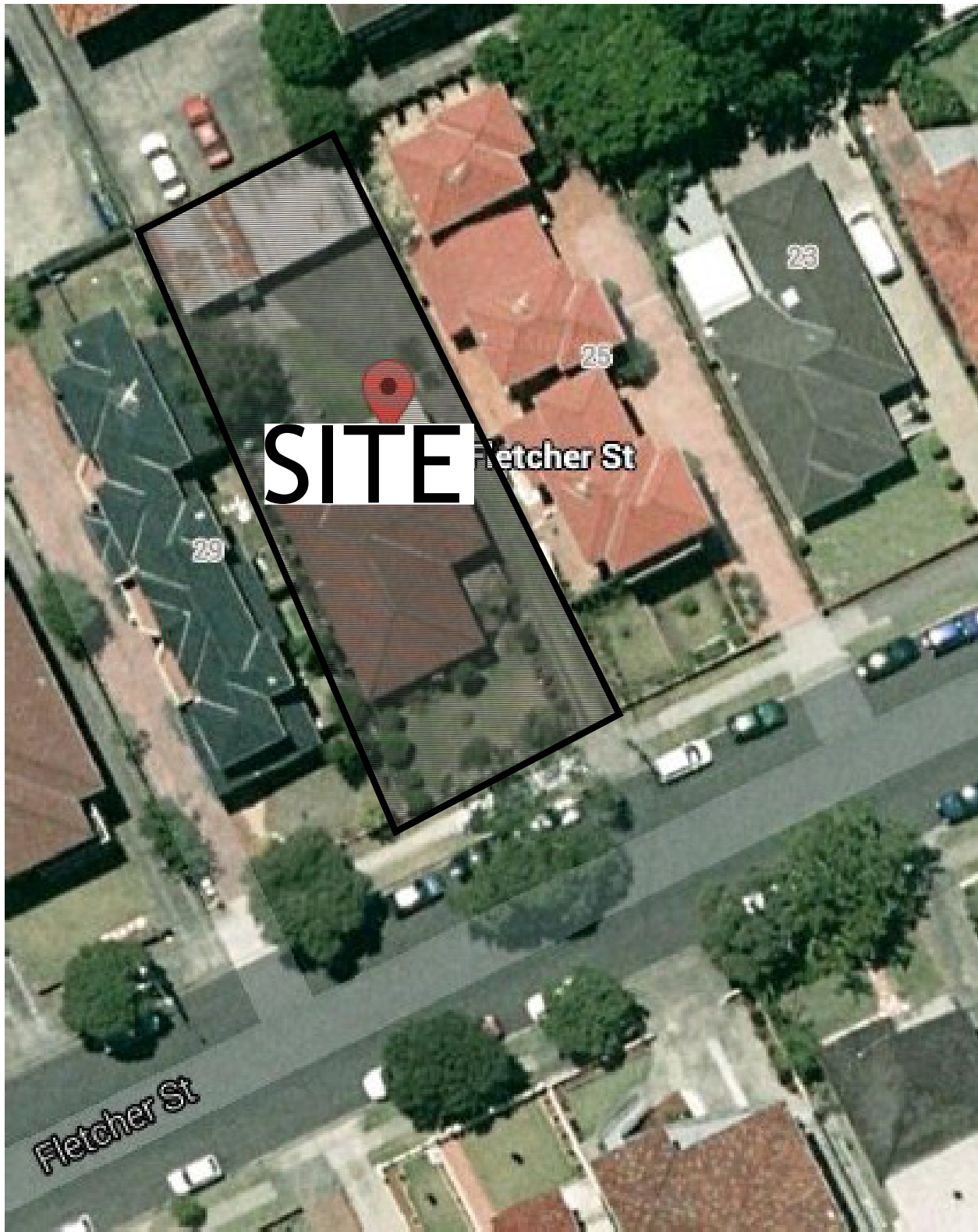


PROPOSED RESIDENTIAL FLAT BUILDING  
27 FLETCHER STREET, CAMPSIE

STORMWATER CONCEPT PLAN FOR S34



LOCALITY PLAN

No.	TITLE	REV
SW01	COVER SHEET	D
SW02	STORMWATER CONCEPT PLAN - BASEMENT PLAN	D
SW03	STORMWATER CONCEPT PLAN - GROUND FLOOR PLAN	D
SW04	SEDIMENT AND EROSION CONTROL - PLAN & DETAILS	D
SW05	DETAILS SHEET	C
SW06	STORMWATER CONCEPT PLAN - CATCHMENT PLAN	B
SW07	STORMWATER CONCEPT PLAN - LONG SECTION & DRAINS MODEL RESULT	B

Drawing Title		
COVER SHEET		
Project Number	Drawing Number	Revision Number
20140333	SW01	D
Sheet 1 of 7	Issue	FOR APPROVAL

SERVICES ON THIS DRAWING  
ARE SHOWN BELOW SLAB U.N.O

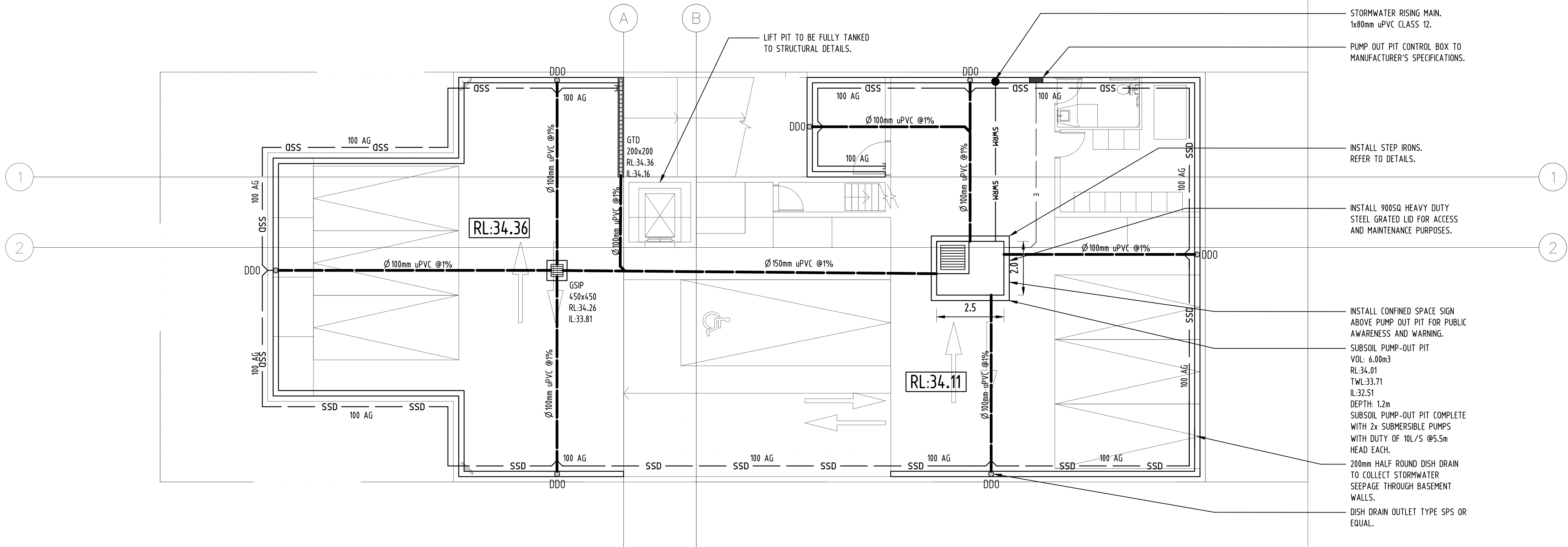
**SUBSOIL DESIGN CALCS:**  
PUMP OUT PIT DESIGNED FOR A 100YR 2HR  
STORM EVENT.

100yr 2hr ARI STORM= 57mm/hr  
ARIx2=114mm  
AREA OF DRIVEWAY  
RAMP UNCOVERED= 52.05m<sup>2</sup>

V=Axd  
=52.05x(114/1000)  
=52.05x0.114  
=5.93m<sup>3</sup>

THEREFORE ADOPT A PUMP OUT PIT SIZE OF  
6.00m<sup>3</sup> IN ACCORDANCE WITH CANTERBURY  
BANKSTOWN COUNCIL.

NOTE:  
BASEMENT DRAINAGE DESIGN SUBJECT TO  
GEOTECHNICAL INVESTIGATION AND  
STRUCTURAL DESIGN OF WALLS AND SLABS.



BASEMENT PLAN  
SCALE 1:100

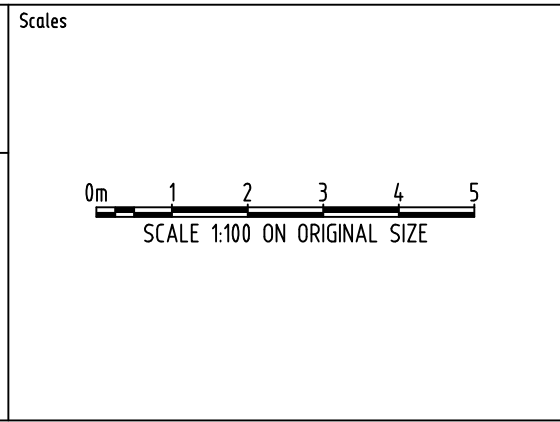
Reference Coordination Drawing				
Discipline	Drawing Title and Number	Date	Rev.	
DA 100 - BASEMENT LEVEL	24.07.17	#		
D	REVISED DRAWING AS PER S34	JH 09.11.2017	2	ARCH
P1	REVISED DRAWING AS PER S34	JH 06.11.2017	1	STRUCT
C	UPDATED ARCHITECTURAL DRAWING	JH 24.07.2017	2	MECH
B	ISSUED FOR S34	JH 13.06.2017	2	ELEC
A	SUBMISSION TO COUNCIL	JH 02.02.2016	2	HYD
Issue	Last revision title	by	Date	Status
Issuer internal sequence and revision history				
1-preliminary	2-development application	3-construction certificate	4-tender	5-construction
6-other				

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QUALITY CONTROL	
DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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A.B.N. 21 118 222 530

PROJECT  
**PROPOSED RESIDENTIAL  
FLAT BUILDING**  
27 FLETCHER STREET  
CAMPSIE NSW

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	2 of 7	1:100 @ A1

Drawing Status  
FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title  
**STORMWATER CONCEPT PLAN  
BASEMENT PLAN**

Project No	Drawing No	Revision No
<b>20140333</b>	<b>SW02</b>	<b>D</b>



DP 4.178



STREET

STREET

- EXISTING Ø 375mm RCP  
UNDER THE KERB AND  
GUTTER.

- EXISTING KERB & GUTTER AND ALL LAYBACK CROSSINGS TO BE RECONSTRUCTED TO SAME DETAIL AS EXISTING KERB & GUTTER.

CONSTRUCT Ø375mm RCP UNDER THE KERB AND GUTTER AND MAKE CONNECTION TO THE EXISTING KERB INLET PIT DOWNSTREAM APPROXIMATELY 36M TO COUNCIL'S SPECIFICATIONS.

Drawing Status	FOR APPROVAL
	NOT TO BE USED FOR CONSTRUCTION PURPOSES


Project No	Drawing No	Revision
20140333	SW03	D

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	3 of 7	1:100 @ A1

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					Reference Coordination Drawing						
					Discipline	Drawing Title and Number		Date	Rev.		
					JH	09.01.2017	2	ARCH	DA 100 – GROUND FLOOR	24.07.17	#
D	REVISED DRAWING AS PER S34				JH	09.01.2017	2	ARCH			
P1	REVISED DRAWING AS PER S34				JH	06.11.2017	1	STRUCT			
C	UPDATED ARCHITECTURAL DRAWING				JH	06.11.2017	2	MECH			
B	ISSUED FOR S34				JH	13.06.2017	2	ELEC			
A	SUBMISSION TO COUNCIL				JH	02.02.2016	2	HYD			
Issue	Last revision title				by	Date	Status		FIRE		
Issuer internal sequence and revision history											
1-preliminary			2-construction application			3-construction certificate			LANDS		
4-tender			5-construction			6-other			CIVIL		
									SURVEY	209RFLETCHER-01-0E	08.06.2017 2

 **ENGINEERS AUSTRALIA**  
Chartered Professional Engineer  
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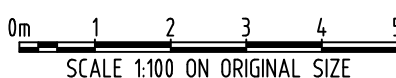
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DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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Scales



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ARCHITECT

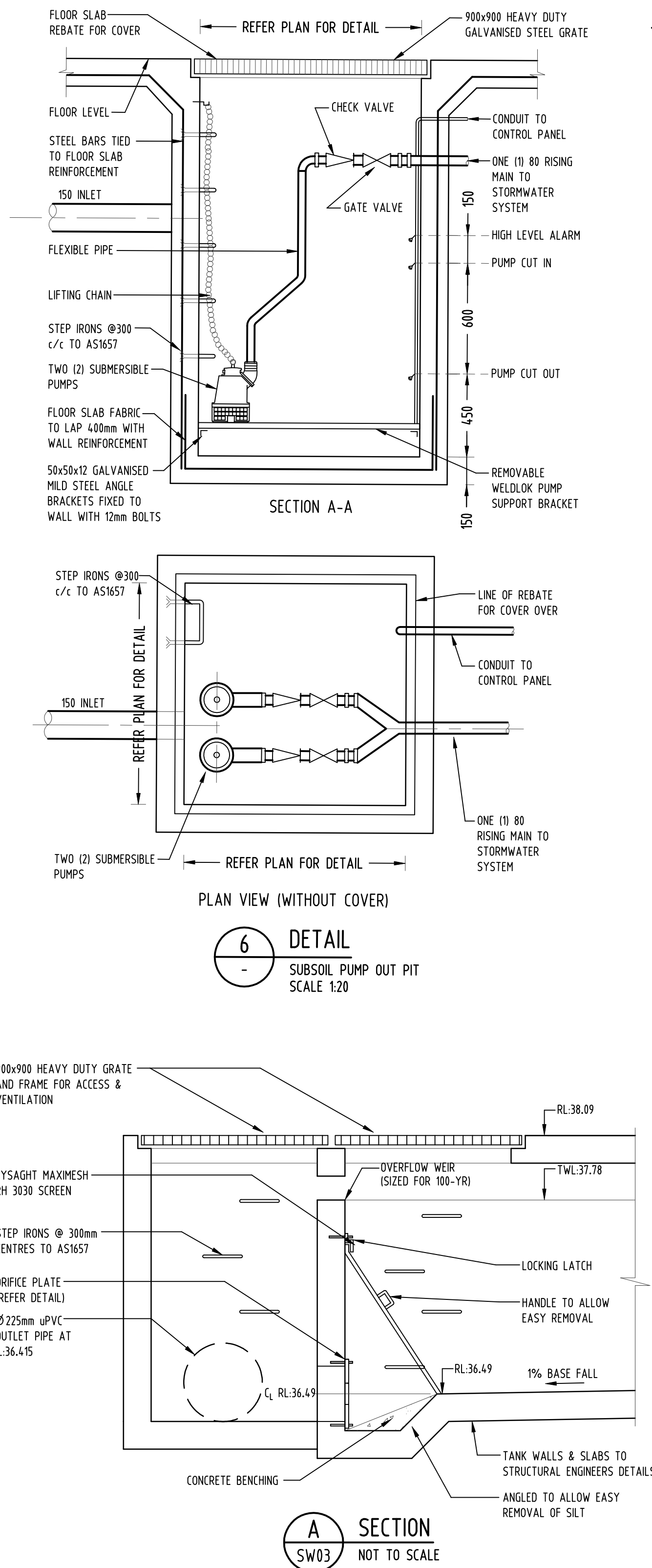
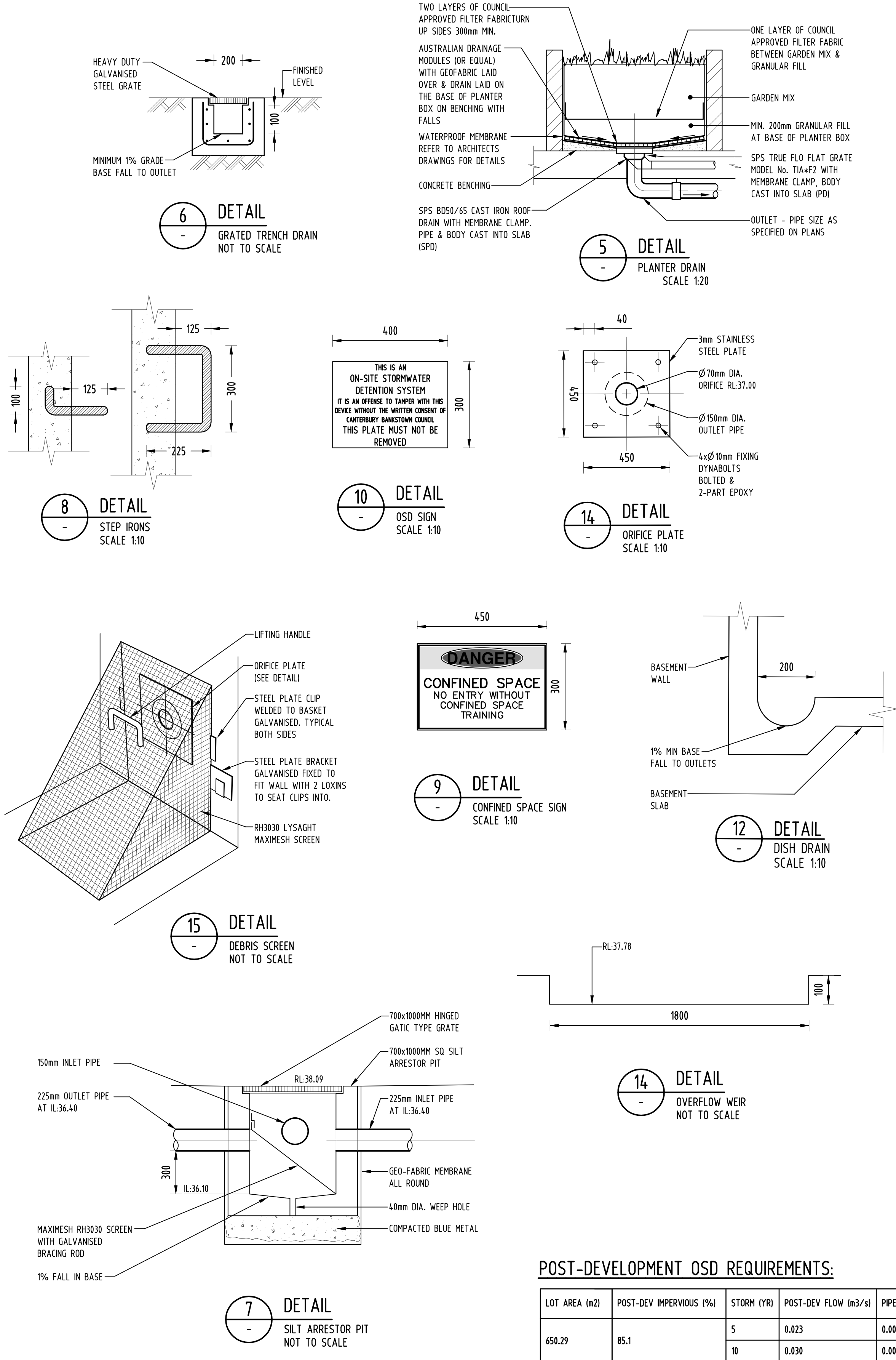


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										Reference Coordination Drawing										<div>ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER</div>										QUALITY CONTROL										WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SGC CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SGC CONSULTANTS PTY LTD										Scales										CLIENT WEI HUANG WANG										ARCHITECT <div>CDARCHITECTS</div>										<div>SGC Engineering Value</div> <div>Unit 412, Level 4, 14-16 LEXINGTON DRIVE BELLA VISTA, NSW 2153 T: +61 2 8883 4239 F: +61 2 9672 6977 Email: office@sgce.com.au Web: www.sgce.com.au</div> <div>A.B.N. 21 118 252 530</div>										PROJECT PROPOSED RESIDENTIAL FLAT BUILDING 27 FLETCHER STREET CAMPSIE NSW										Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES										Drawing Title SEDIMENT AND EROSION CONTROL PLAN & DETAILS										Project No 20140333										Drawing No SW04										Revision No 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**DRAINAGE NOTES:**

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH  $f_c$  FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

**DESIGN NOTES:**

THE SITE IS LOCATED IN CANTERBURY BANKSTOWN COUNCIL LGA.

SITE AREA: 650m<sup>2</sup>

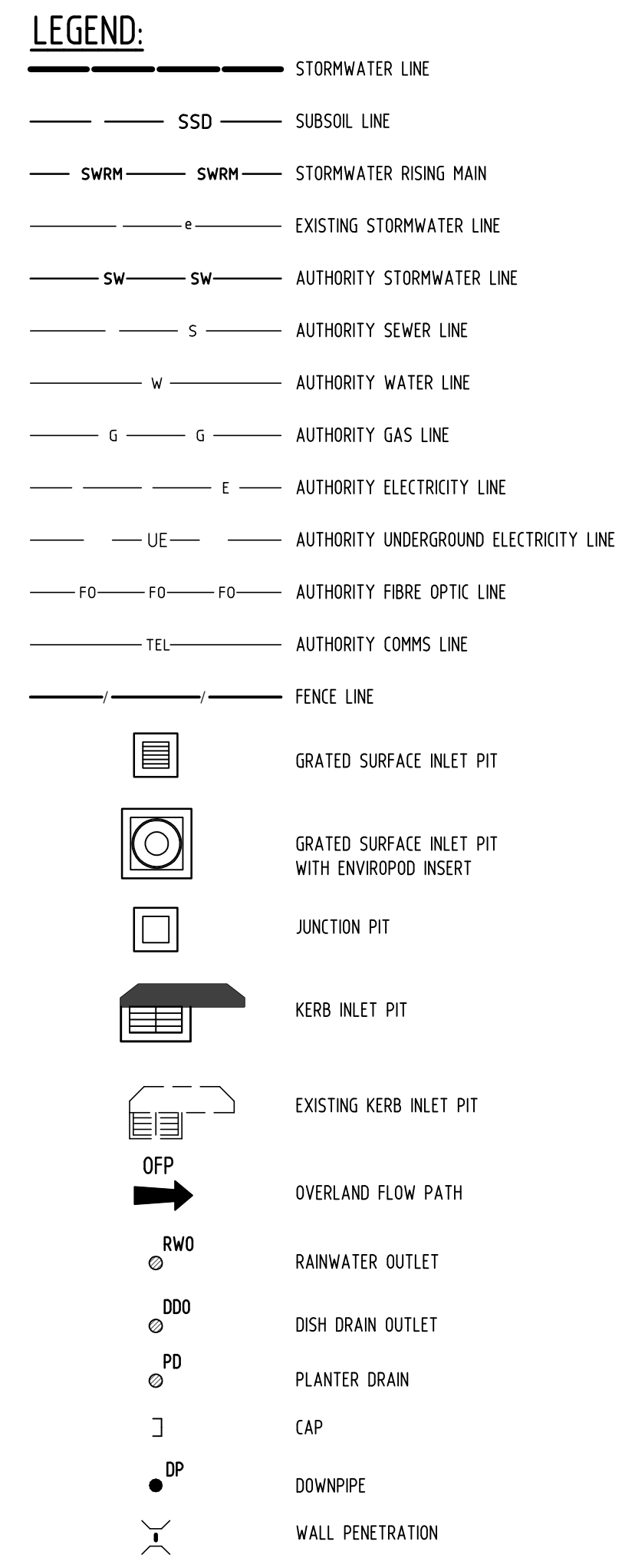
ON-SITE DETENTION IS REQUIRED AS PER COUNCIL REQUIREMENT.

THE SITE IS NOT FLOOD AFFECTED AND DOES NOT SUBJECT TO ANY OVERLAND FLOW. HENCE, THE ON-SITE DETENTION IS SIZED FOR 10 YEAR STORM.

THE PERMISSIBLE SITE DISCHARGE IS LIMITED TO 150 LITRES PER SECOND PER HECTARE FOR A 1 IN 10 ARI YEAR STORM EVENT.

$150L/s/hect \times 650m^2 / 10000 = 9.75L/s$

OVERFLOW WEIR IS SIZED FOR 100 YEAR STORM EVENT AND THE OUTLET PIPE IS CAPABLE TO CARRY THE FLOW IN 100 YEAR STORM EVENT.



- AUTHORITY STORMWATER NOTES:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.
  - ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.
  - SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
  - NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
  - THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS  
PIPE BACKFILL  
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE)  
BASE COURSE  
DENSITY INDEX 75  
95% STANDARD  
98% MODIFIED  
100% MODIFIED
  - THE AUSPEC & CANTERBURY COUNCIL SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

POST-DEVELOPMENT OSD REQUIREMENTS:

LOT AREA (m2)	POST-DEV IMPERVIOUS (%)	STORM (YR)	POST-DEV FLOW (m3/s)	PIPE OUTFLOW (m3/s)	WEIR OUTFLOW (m3/s)	BYPASS (m3/s)	TOTAL PSD (m3/s)	OSD VOLUME (m3) FOR 10YR STORM STORAGE
650.29	85.1	5	0.023	0.005	0.000	0.003	0.008	18.10
		10	0.030	0.005	0.000	0.004	0.009	

Issue

Last revision title

by

Date

Status

1-preliminary

2-development application

3-construction certificate

4-tender

5-construction

6-other

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

ENGINEERS AUSTRALIA

Chartered Professional Engineer MEMBER

QUALITY CONTROL

DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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Scales

0m 0.1 0.2 0.3 0.4 0.5

SCALE 1:10 ON ORIGINAL SIZE

0m 0.2 0.4 0.6 0.8 1.0

SCALE 1:20 ON ORIGINAL SIZE

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PROJECT

PROPOSED RESIDENTIAL  
FLAT BUILDING  
27 FLETCHER STREET  
CAMPSIE NSW

Drawing Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title

STORMWATER CONCEPT PLAN  
DETAILS SHEET

Project No

20140333

Drawing No

SW05

Revision No

C

Grid

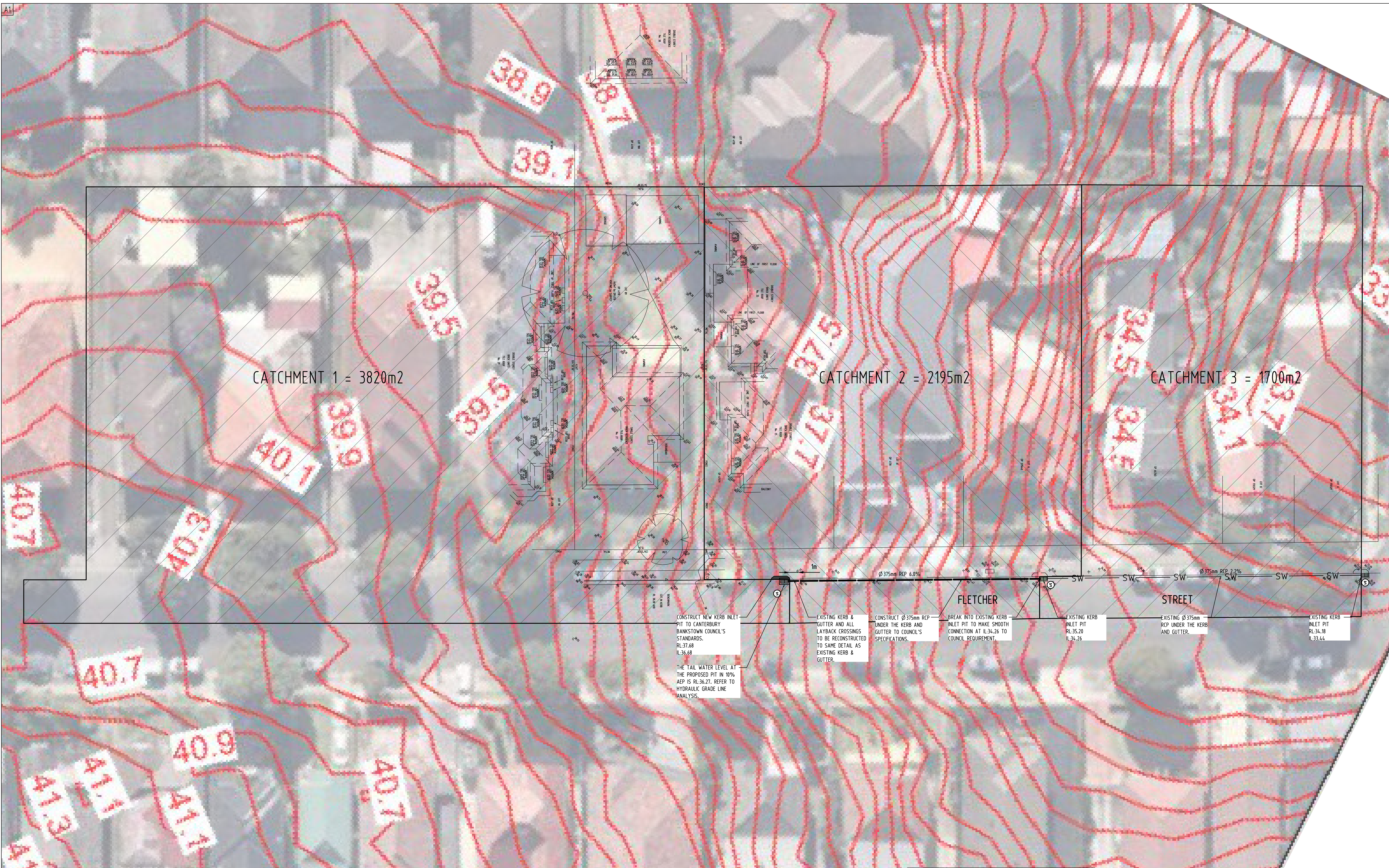
Datum





Sheet

Scale (at original size)

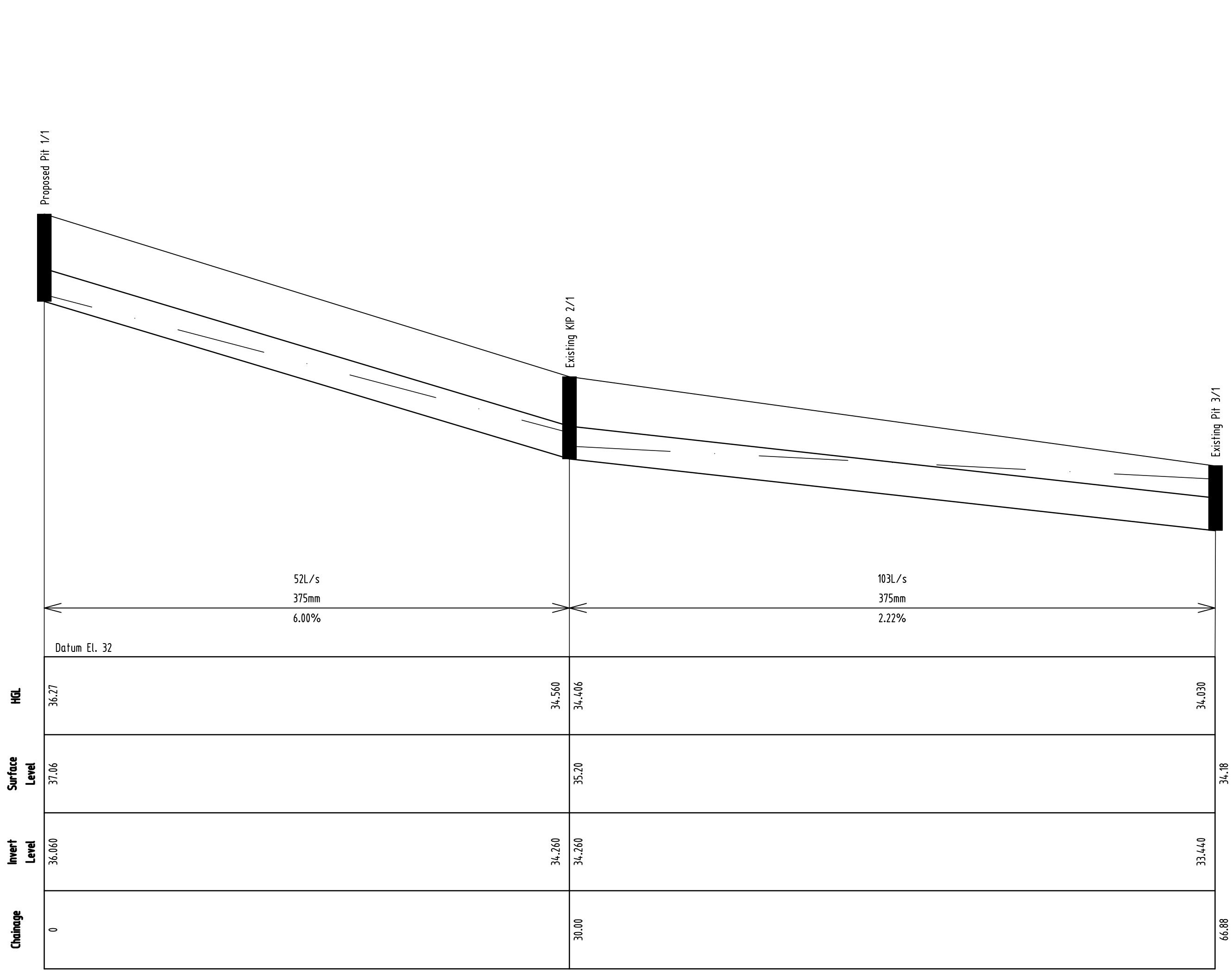
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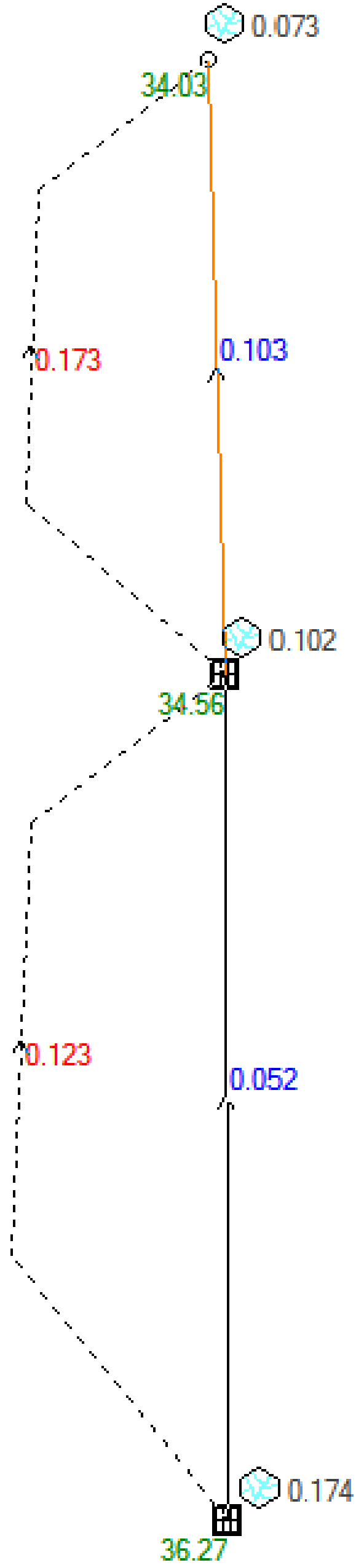


										Reference Coordination Drawing				 <div>ENGINEERS AUTHORITY Chartered Professional Engineer MEMBER</div>		QUALITY CONTROL				WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SGC CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SGC CONSULTANTS PTY LTD.				Scales		CLIENT WEI HUANG WANG		ARCHITECT  CDARCHITECTS		 <div>Unit 412, Level 4, 14-16 LEXINGTON DRIVE BELLA VISTA, NSW 2153 T: +61 2 8883 4239 F: +61 2 9672 6977 Email: office@sgce.com.au Web: www.sgce.com.au</div> <div>A.B.N. 21 118 222 530</div>		PROJECT PROPOSED RESIDENTIAL FLAT BUILDING 27 FLETCHER STREET CAMPBIE NSW		Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES			
										Discipline Drawing Title and Number Date Rev.				DRAWN DATE				CHECKED DATE				0m 2 4 6 8 10 SCALE 1:200 ON ORIGINAL SIZE						Drawing Title STORMWATER CONCEPT PLAN CATCHMENT PLAN		Project No Drawing No Revision No							
														DESIGNED DATE																							
														VERIFIED DATE																							
														APPROVED DATE																							
B REVISED DRAWING AS PER S34										JH 09.11.2017 2				DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE UP THIS DRAWING. POSITIONS OF AUTHORITIES MANS AND/OR EXISTING SURVEYS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.																							
P1 REVISED DRAWING AS PER S34										JH 06.11.2017 1																											
A ISSUED FOR S34										JH 13.06.2017 2																											
Issue Last revision title										by Date Status																											
Issue internal sequence and revision history										LANDS CIVIL SURVEY																											
1-preliminary 4-tender 2-development application 5-construction 3-construction certificate 6-other																																					





EXTERNAL DRAINAGE LONG SECTION  
SCALE 1:200



**NOTE**  
BASED ON THIS HGL ANALYSIS,  
THE OSD IS NOT FUNCTIONING  
UNDER SUBMERGED CONDITIONS.

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Issuer internal sequence and revision history			
1-preliminary	2-development application	3-construction certificate	6-other
4-tender	5-construction		

Issue	Last revision title	by	Date	Status
B	REVISED DRAWING AS PER S34	JH	09.11.2017	2
PT	REVISED DRAWING AS PER S34	JH	06.11.2017	1
A	ISSUED FOR S34	JH	13.06.2017	2



QUALITY CONTROL	
DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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Scales

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DDA  
CDARCHITECTS

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PROJECT PROPOSED RESIDENTIAL FLAT BUILDING 27 FLETCHER STREET CAMPSIE NSW				Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Title STORMWATER CONCEPT PLAN LONG SECTION & DRAINS MODEL RESULT				
Grid	Datum	Sheet	Scale (at original size)	Project No
-	A.H.D.	7 of 7	AS SHOWN	20140333
Drawing No		Revision No		
SW07		B		