

ATTACHMENT 3

PROPOSED RESIDENTIAL DEVELOPMENT 40-42A PARK ROAD, AUBURN STORMWATER CONCEPT DESIGN



LOCALITY PLAN
NOT TO SCALE
COPYRIGHT OF GOOGLE MAP, VERSION 3

DRAWING REGISTER			
SHEET No.	No.	TITLE	REV
1	SW100	COVER SHEET	D
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT PLAN	C
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	D
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	C
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	C
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	C

PREPARED BY:
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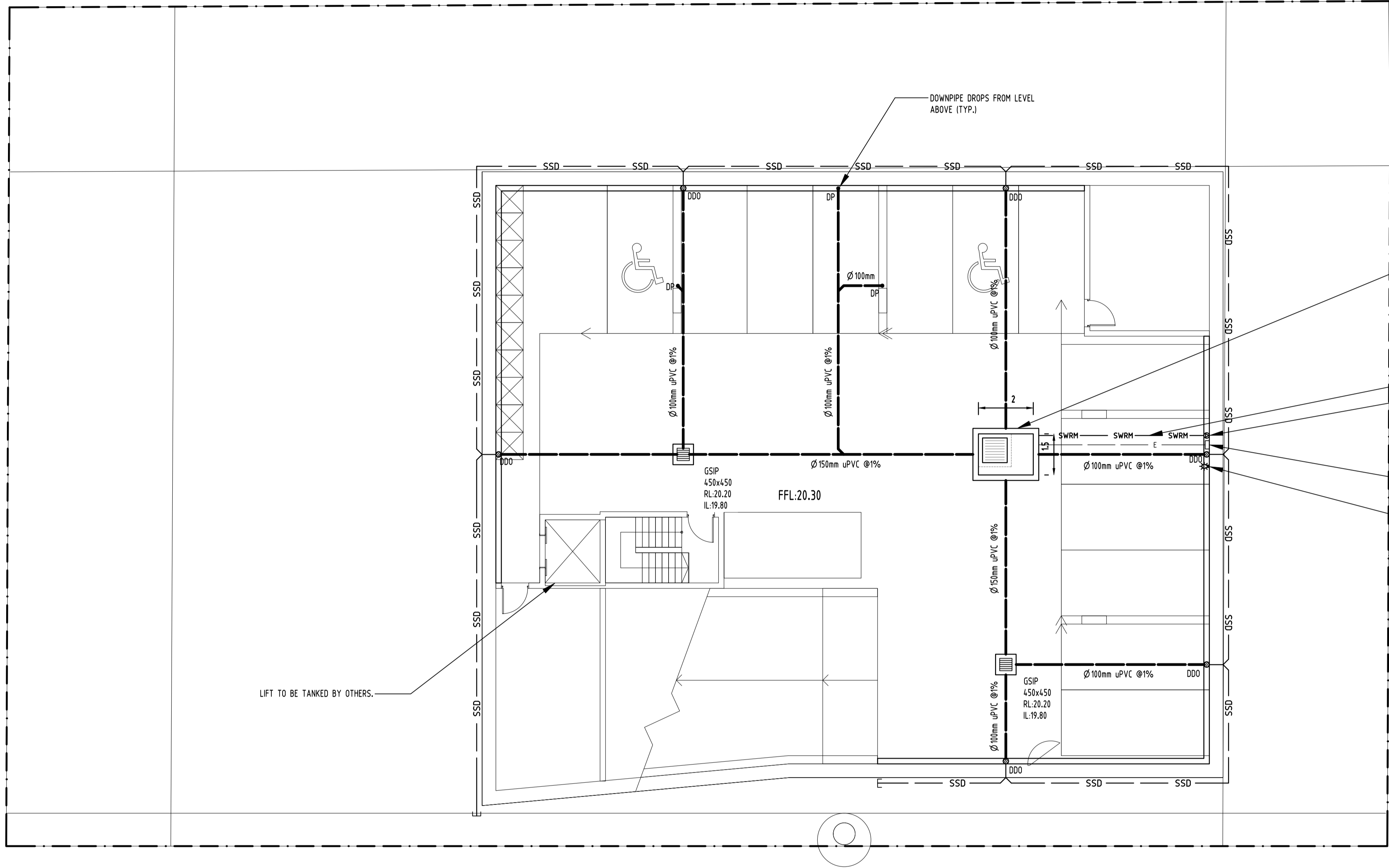


ARCHITECT:



CLIENT :

MR AMAR JIED



SUBSOIL DESIGN CALCS:
100yr 2hr ARI STORM = 36.8mm/hr
ARI x 2 = 73.6mm
AREA OF DRIVEWAY
RAMP UNCOVERED = 4.3m²

VOLUME OF RUNOFF
V = A x d
= 43 x (73.6 / 1000)
= 3.16m³

WET WELL STORAGE
MAXIMUM OF:
* VOLUME OF RUNOFF
* 3m³

THEREFORE, A VOLUME OF 3.16m³ SUBSOIL PUMP OUT PIT
WILL BE APPLIED AS PER AUSTRALIAN STANDARD
(AS3550).

SUBSOIL PUMP OUT PIT COMPLETE WITH 2x
SUBMERSIBLE PUMPS WITH DUTY OF 10L/s AT
10.0m HEAD
VOLUME REQUIRED: 3.16m³
VOLUME PROVIDED: 3.6m³
INTERNAL AREA: 3m²
HEIGHT: 1.2m
RL: 20.20
TWL: 19.90
IL: 18.70

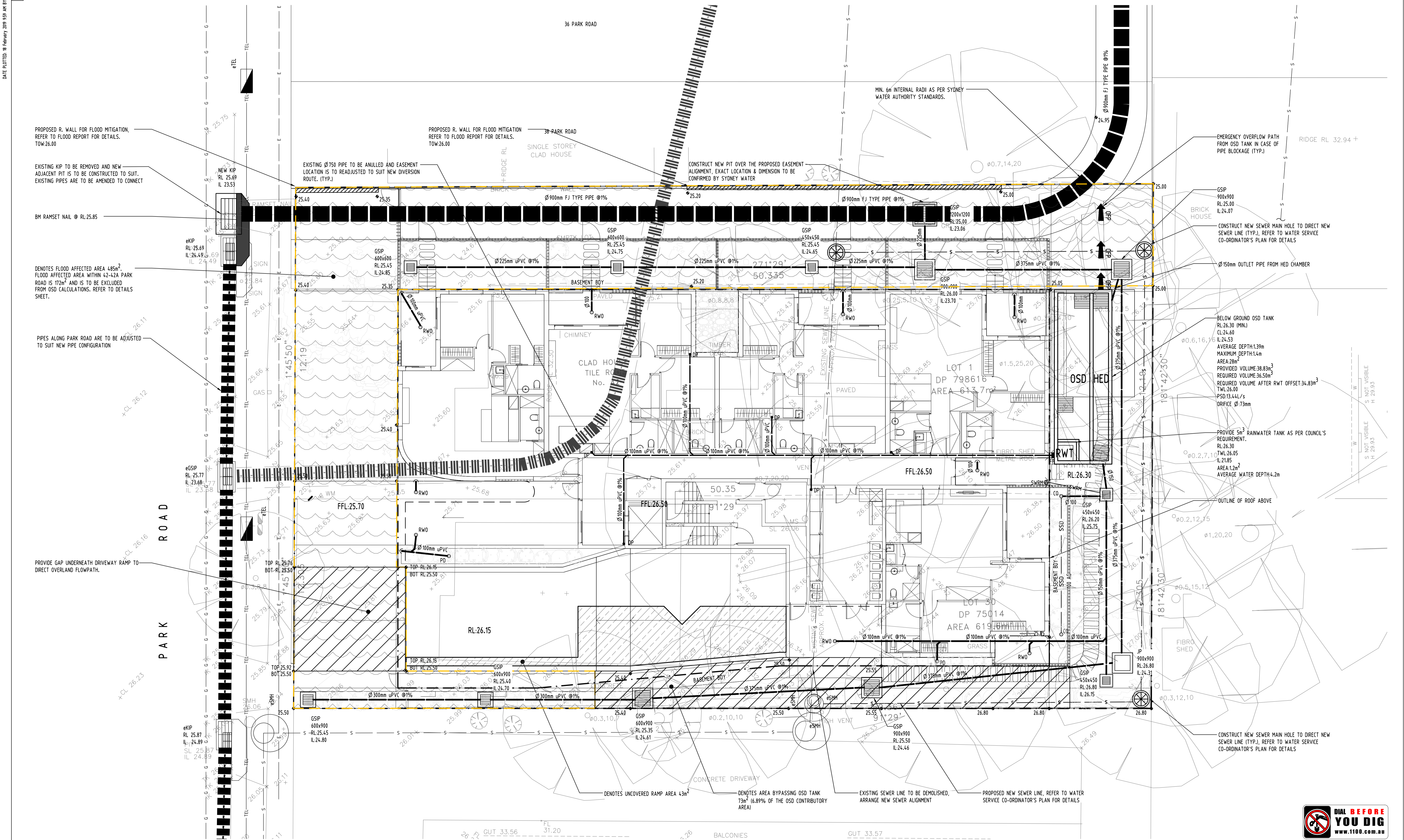
Ø80 mm CLASS 12 UPVC
STORMWATER RISING MAIN

PUMP/OUT PIT CONTROL BOX TO MANUFACTURERS
SPECIFICATIONS. LOCATIONS TO BE CONFIRMED WITH
ARCHITECT.


INSTALL WARNING FLASH LIGHT TO PROVIDE
INDICATION OF PUMP FAILURE.

OUTLINE OF BOUNDARY

Reference Coordination Drawing				ENGINEERS AUSTRALIA Qualified Professional Engineer MEMBER		QUALITY CONTROL		WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD		Scales 0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE		CLIENT MR AMAR JIED		ARCHITECT ARCHITECT GHAZI AL ALI ARCHITECT NSW reg. no. 7542 T: +612 9744 7035 E: office@ghazialali.com ACN: 67167131848 LEVEL 2 UNIT 2, 14 RAILWAY PARADE BURWOOD NSW 2134		PROJECT Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au		PROJECT PROPOSED RESIDENTIAL DEVELOPMENT 40-42A PARK ROAD, AUBURN		Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Issue				Discipline		CHECKED		VERIFIED		APPROVED		ARCHITECT		PROJECT		Drawing Title		Project No		Drawing No		Revision No	
1-preliminary 4-tender				2-02.07.2019 2-ARCH FZ 02.07.2019 2-ARCH FZ 01.07.2019 2-ARCH FZ 18.02.2019 2-STRUCT FZ 08.02.2019 1-MECH FZ 08.02.2019 1-ELEC FZ 19.10.2018 1-HYD FZ 19.10.2018 1-FIRE		DATE 08.02.19		DATE 08.02.19		DATE 08.02.19		ARCHITECT		PROPOSED		STORMWATER CONCEPT DESIGN BASEMENT PLAN		20180235		SW200		C	
Issued internal sequence and revision history				LANDS		DESIGNED		APPROVED		ARCHITECT		PROJECT		Drawing Title		Project No		Drawing No		Revision No			
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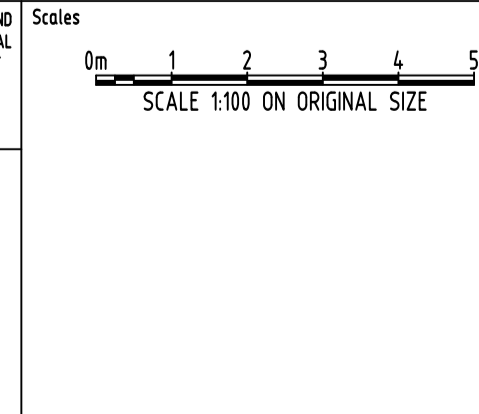
						Reference Coordination Drawing			

	ENGINEERS AUSTRALIA	
	Chartered Professional Engineer	
	MEMBER	

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QUALITY CONTROL			
DRAWN	FZ	DATE	08.02.19
CHECKED	SH	DATE	08.02.19
DESIGNED	FZ	DATE	08.02.19
VERIFIED	SH	DATE	08.02.19
APPROVED	SH	DATE	08.02.19

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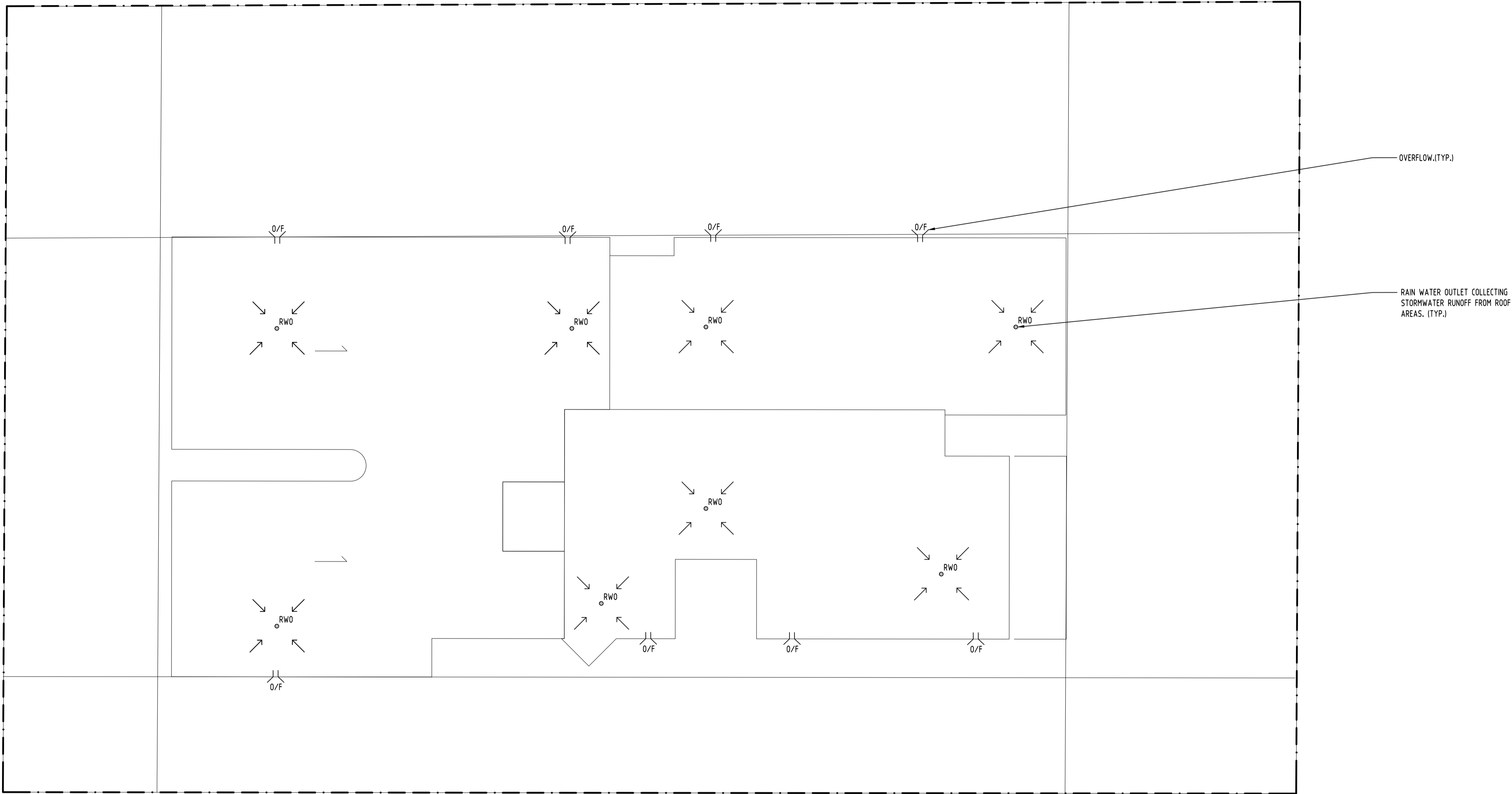
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PROJECT
PROPOSED
RESIDENTIAL DEVELOPMENT
40-42A PARK ROAD, AUBURN

Drawing Status			FOR APPROVAL		
Drawing Title			NOT TO BE USED FOR CONSTRUCTION PURPOSES		
STORMWATER CONCEPT DESIGN			GROUND FLOOR PLAN		
Project No	Drawing No	Revision No			
20180235	SW201	D			



10/07/2019 4:02:17 PM (A1)

Issue Last revision title by Date Status

1-preliminary
4-tender

2-development application
5-construction

3-construction certificate
6-other

Reference Coordination Drawing

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

ENGINEERS AUSTRALIA
Qualified Professional Engineer
MEMBER

QUALITY CONTROL

DRAWN	FZ	DATE	08.02.19
CHECKED	SH <th>DATE</th> <td>08.02.19</td>	DATE	08.02.19
DESIGNED	FZ <th>DATE</th> <td>08.02.19</td>	DATE	08.02.19
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A.B.N. 21 118 222 530

PROJECT

PROPOSED
RESIDENTIAL DEVELOPMENT
40-42A PARK ROAD, AUBURN

Grid
-
Datum
A.H.D.
Sheet
4 of 6
Scale (at original size)
1:100 @ A1

Drawing Status

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

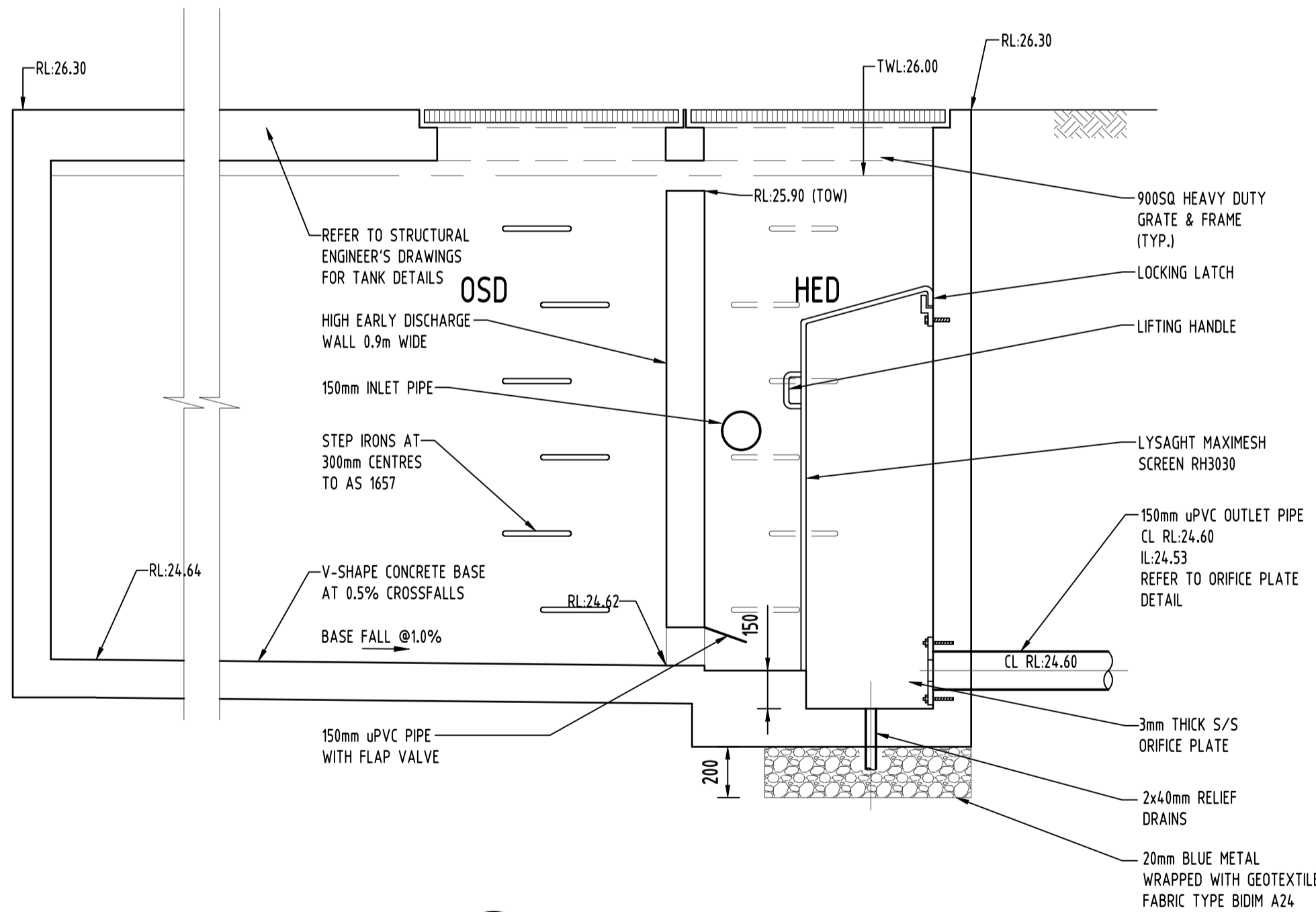
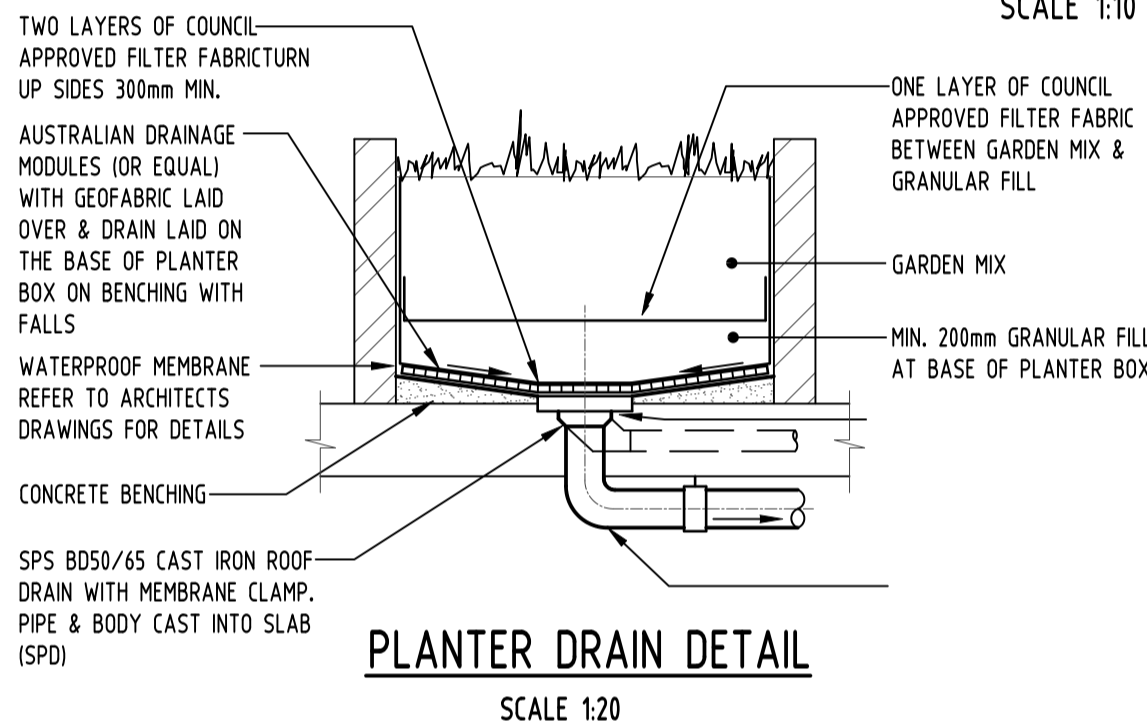
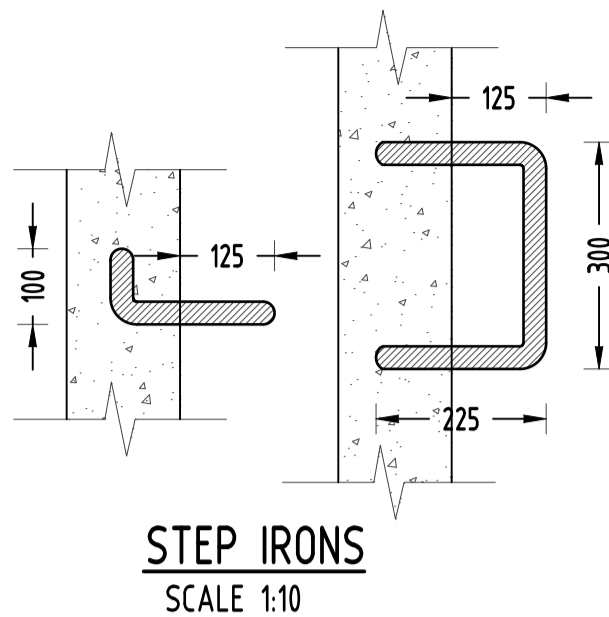
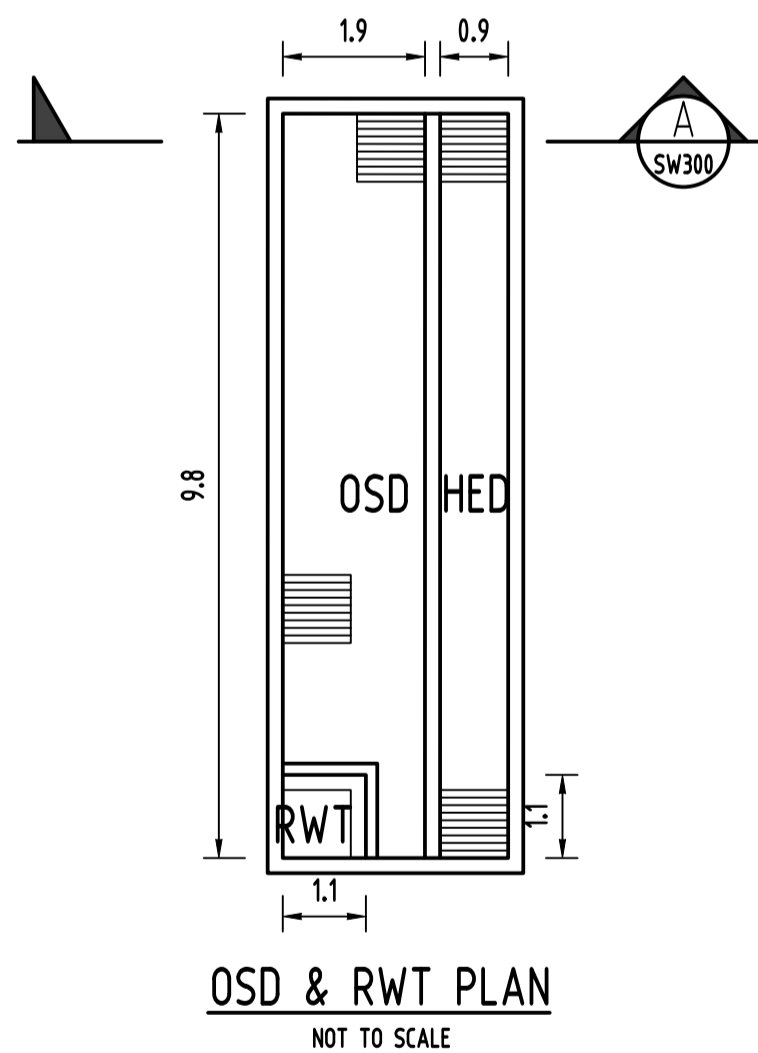
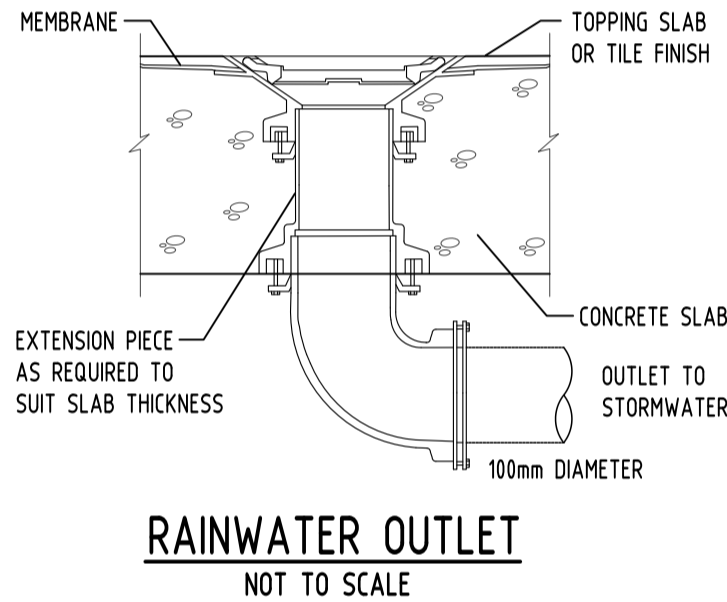
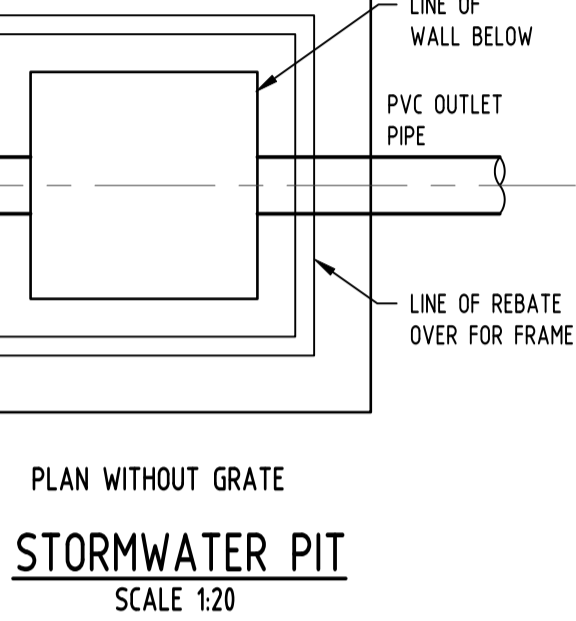
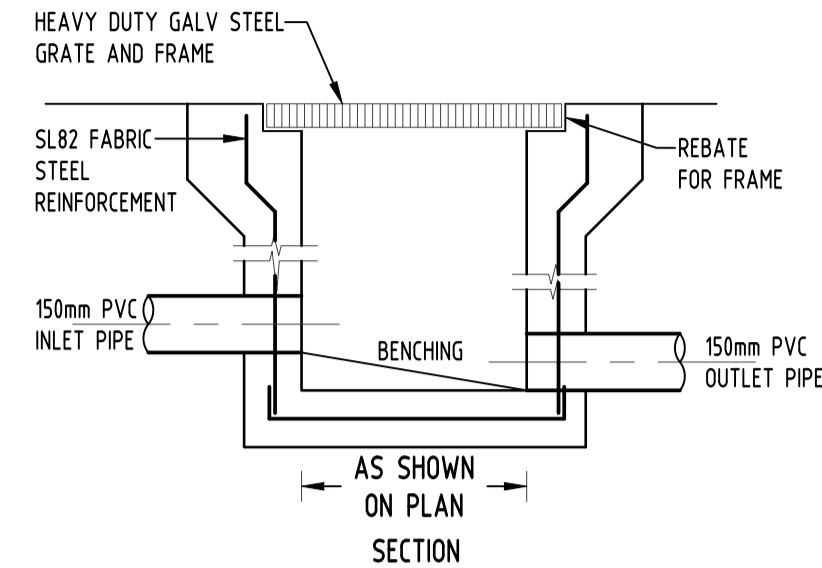
Drawing Title

STORMWATER CONCEPT DESIGN
ROOF PLAN

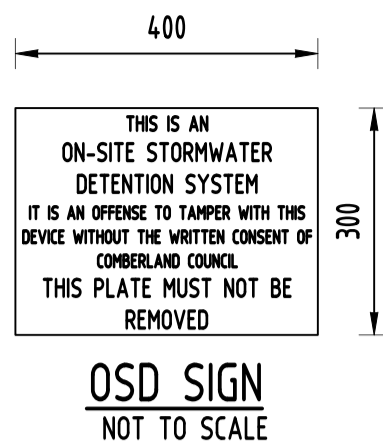
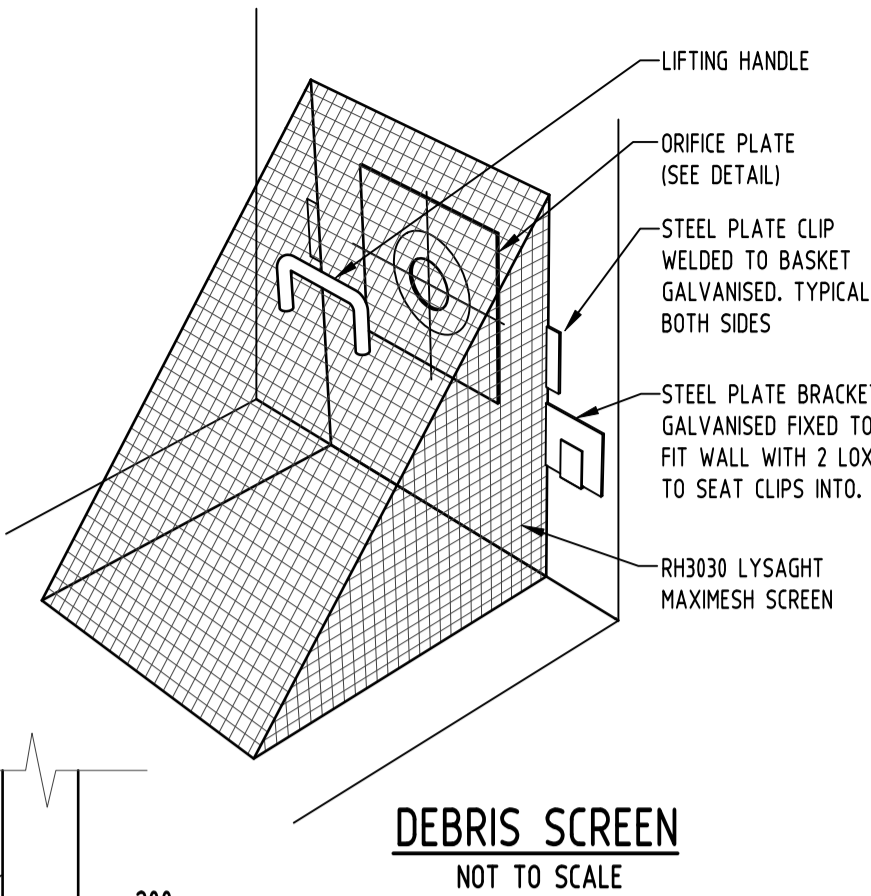
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20180235

Drawing No
SW202

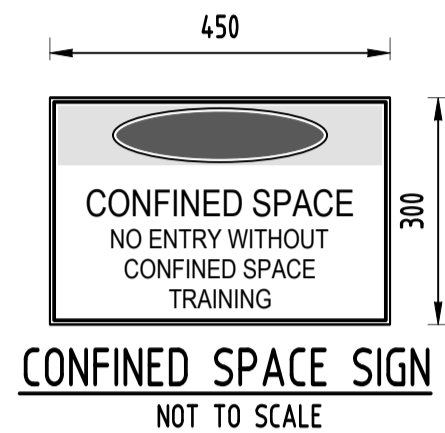
Revision No
C



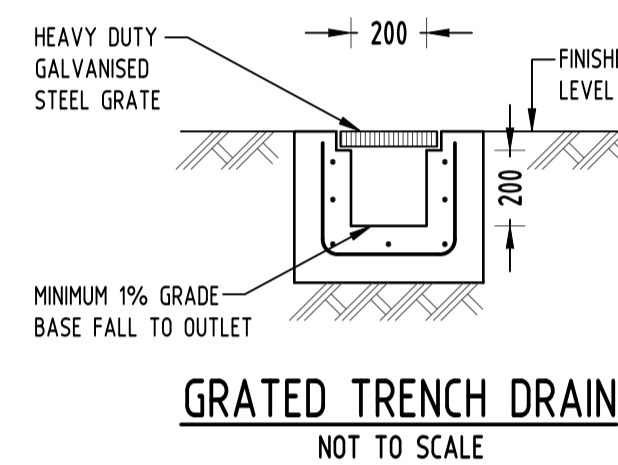
SECTION
-
HIGH EARLY DISCHARGE CONTROL PIT
NOT TO SCALE



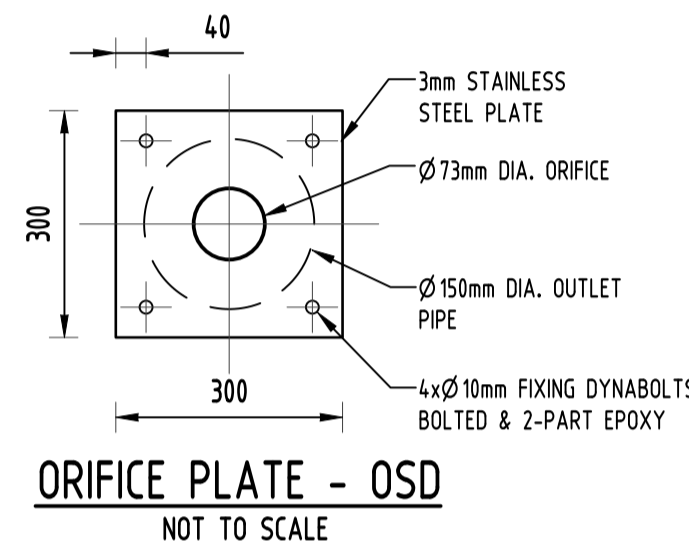
OSD SIGN
NOT TO SCALE



CONFINED SPACE SIGN
NOT TO SCALE



GRATED TRENCH DRAIN
NOT TO SCALE



ORIFICE PLATE - OSD
NOT TO SCALE

DESIGN NOTES:

THE SITE IS LOCATED IN CUMBERLAND COUNCIL. THE DESIGN COMPLIES WITH AUBURN COUNCIL'S DCP.

SITE AREA = 1545m², AREA AFFECTED BY OVERLAND FLOW PATH = 485m²

AS DISCUSSED WITH COUNCIL'S ENGINEER, THE AREA OF 4.0 PARK ROAD (313m²) CAN BE EXCLUDED FROM OSD CALCULATIONS BECAUSE THE PROPOSED DEVELOPMENT WILL REMAIN IT AS GRASSED AREA. THEREFORE, THE TOTAL AREA CONTRIBUTED TO OSD CALCULATION IS: 1545 - 313 = 1232m². FLOODING AREA WITHIN OSD CALCULATION AREA (42-42A PARK RD) IS 172m². SITE AREA EXCLUDING FLOOD AFFECTED AREA = 1060m² (OSD CONTRIBUTORY AREA). BYPASS AREA = 73m² (6.89% OF OSD CONTRIBUTORY AREA).

THE OSD STORAGE SYSTEM WILL BE BELOW GROUND TANK. WATER FROM THE OSD TANK WILL BE DISCHARGED TO A PROPOSED PIT WITHIN NEW EASEMENT ALIGNMENT.

THE SITE BELONGS TO LOWER HASLAM'S CREEK CATCHMENT. PSD = 150 L/s/ha, SSR = 325 m³/ha. REFER TO UPRCT CALCULATION SHEET FOR SITE'S PSD AND SSR CALCULATIONS.

PROPOSED RAINWATER TANK VOLUME IS 5m³, ACCORDING TO AUBURN COUNCIL'S DCP, ONE THIRD OF RAINWATER TANK VOLUME CAN OFFSET OSD VOLUME.

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

LEGEND:

—	SSD	SUBSOIL LINE
—	SWRM	STORMWATER RISING MAIN
—	TEL	AUTHORITY COMMS LINE
—	S	AUTHORITY SEWER LINE
—	S	PROPOSED SEWER LINE
—	E	AUTHORITY ELECTRICITY LINE
—	G	AUTHORITY GAS LINE
		GRATED SURFACE INLET PIT
		EXISTING KERB INLET PIT
		RAINWATER OUTLET
		DISH DRAIN OUTLET
		PLANTER DRAIN
		CAP
		DOWNPIPE
		CLEAR OUT POINT
		EXISTING SEWER MANHOLE
		PROPOSED SEWER MANHOLE

UPRCT OSD Calculation Sheet				
Drainage Design Summary			S&G Pty Ltd	
Project	Location			
42-42A PARK ROAD AUBURN	AUBURN			
Catchment Name:	LOWER HASLAM'S			
SSR (m ³ /Ha) =	325			
PSD (l/s/ha) =	150			
Total Site Area	0.1060	Ha	(A)	
Basic Storage Volume	SSR(A)	34.45	m ³	(B)
Basic Discharge	PSD(A)	0.0169	m ³ /s	(C)
Area of Site Drained to OSD	ie Area -Bypass	0.0987	Ha	(D)
Percentage of Area diverted to Storage (should be greater than 75%)		93.11	%	(E)
Storage / Ha of contributing Area		349.04	m ³ /Ha	(F)
PSD Adjustment for Parramatta	SSR= 74.66xPSD ^{1.711}	136.05	l/s/ha	(G)
Determine PSD		13.43	l/s	(H)
Maximum Head to Orifice Centre		1.40	m	(K)
Height of Water over weir to Storage		0.064	m	(I)
Required Orifice Diameter		73	mm	(J)
Maximum Discharge		13.44	l/s	(L)
Head for High Early Discharge		1.34	m	(M)
HED		13.12	l/s	(N)
Approximate Mean Discharge		13.27	l/s	(P)
Average PSD / Ha of contributing Area		134.48	l/s/ha	(Q)
PSD Adjustment (fig 5.1)		352	m ³ /Ha	(R)
Final SSR		34.74	m ³	(S)
Primary Storage		34.74	m ³	(T)
Secondary Storage		0	m ³	(U)
Tertiary Storage		0	m ³	(V)
Total		34.74	m ³	(W)

Drowned Orifice Calculation				
Head to Orifice under drowned conditions (H1) =		1.00	m	
PSD from OSD system based on new head (Q1) =		13.44	l/s	Q1 = d ² x SQRT(H1) / 0.464
Head for High Early Discharge under drowned conditions (H2) =		0.90	m	
High Early Discharge (Q2) =		12.75	l/s	Q2 = Q1 x SQRT(H2/H1)
Mean Discharge (Q3) =		13.09	l/s	Q3 = (Q1+Q2)/2
Average Discharge per Hectare (AA) =		123.52	l/s/ha	AA = Q3/[D]
Final Site Storage Ratio (AB) =		344.37	m ³ /ha	AB = 74.66 * ([AA]/1000) ^{1.711} - 0.731
Final Storage Volume (AC) =		36.50	m ³	AC = AB x [D]
OSD Area		28	m ²	
Max Depth		1.40	m	
Level Rise in base of OSD		0.02	m	
Volume Achieved		38.83	m ³	

Reference Coordination Drawing				
D	AMEND AS PER COUNCIL'S COMMENTS	FZ	02.07.2019	2
C	AMEND AS PER COUNCIL'S COMMENTS	FZ	01.07.2019	2
B	SUBMISSION TO COUNCIL	FZ	18.02.2019	2
A	SUBMISSION TO COUNCIL	FZ	18.02.2019	2
P3	PRELIMINARY	FZ	08.02.2019	1
P2	PRELIMINARY	FZ	08.02.2019	1
P1	PRELIMINARY	FZ	19.10.2018	1
Issue Last revision title		by	Date	Status
1-preliminary				
2-development application				
3-construction certificate				
4-tender				
5-construction				
6-other				

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Reference Coordination Drawing				
Discipline	Drawing Title and Number			




SCALE 1:200



 SEDIMENT FENCE

 STABILISED SITE ACCESS

 SANDBAGS



NOT TO SCALE

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.

2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.



NOT TO SCALE

1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

A SYSTEM SHALL BE INSTALLED TO EITHER:

1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POE 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL



SEDIMENT FENCE

NOT TO SCALE

GEOTEXTILE INLET FILTER

GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTRUCTION NOT ENTER THE PITS.



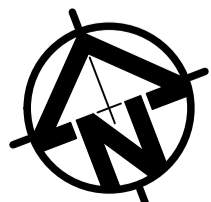
RUBBLE ALTERNATIVE

NOT TO SCALE


				Reference Coordination Drawing			
				Discipline	Drawing Title and Number	Date	Rev.
C	AMEND AS PER COUNCIL'S COMMENTS	FZ	02.07.2019	2	ARCH		
B	AMEND AS PER COUNCIL'S COMMENTS	FZ	01.07.2019	2	ARCH		
A	SUBMISSION TO COUNCIL	FZ	18.02.2019	2	STRUCT		
P3	PRELIMINARY	FZ	18.02.2019	1	MECH		
P2	PRELIMINARY	FZ	08.02.2019	1	ELEC		
P1	PRELIMINARY	FZ	19.10.2018	1	HYD		
Issue	Last revision title	by	Date	Status	FRG		
<p>Issuer internal sequence and revision history</p> <p>1-preliminary 2-development/ application 3-construction certificate 4-tender 5-construction 6-other</p>							
					LANDS		
					CIVIL		
					SURVEY		

QUALITY CONTROL			
DRAWN	FZ	DATE	08.02.19
CHECKED	SH	DATE	08.02.19
DESIGNED	FZ	DATE	08.02.19
VERIFIED	SH	DATE	08.02.19
APPROVED	SH	DATE	08.02.19

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Scales



0m 2 4 6 8 10

SCALE 1:200 ON ORIGINAL SIZE

CLIENT
MR AMAR JIED

ARCHITECT



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PROJECT
PROPOSED
RESIDENTIAL DEVELOPMENT
40-42A PARK ROAD, AUBURN

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	6 of 6	AS SHOWN

Drawing Status	FOR APPROVAL
	NOT TO BE USED FOR CONSTRUCTION PURPOSES

EROSION AND SEDIMENT CONTROL

PLAN AND DETAILS

Project No	Drawing No	Revision No
20180235	SW400	C

