

PROPOSED SECONDARY DWELLING AT  
75 DREADNOUGHT STREET, ROSELANDS NSW 2196



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CONCEPT STORMWATER DESIGN PLANS

LEGEND	
	STORMWATER LINE
	SUBSOIL LINE
	STORMWATER RISING MAIN
	EXISTING STORMWATER LINE
	AUTHORITY STORMWATER LINE
	AUTHORITY SEWER LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	AUTHORITY ELECTRICITY LINE
	AUTHORITY UNDERGROUND ELECTRICITY LINE
	AUTHORITY FIBRE OPTIC LINE
	AUTHORITY COMMS LINE
	FENCE LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT
	JUNCTION PIT
	KERB INLET PIT
	EXISTING GRATED SURFACE INLET PIT
	GRATED TRENCH DRAIN
	EXISTING JUNCTION PIT
	EXISTING KERB INLET PIT
	EXISTING TELSTRA PIT
	EXISTING HYDRANT
	EXISTING STOP VALVE
	EXISTING GAS VALVE
	EXISTING POWER POLE
	EXISTING BOUNDARY TRAP

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.

LEGEND	
	EXISTING SEWER MANHOLE
	OVERLAND FLOW PATH
	RAINWATER OUTLET
	CLEAR OUT POINT
	DISH DRAIN OUTLET
	PLANTER DRAIN
	CAPPING
	PIT TAG/NUMBER
	RAINHEAD
	DOWNPIPE DROP
	NON RETURN VALVE
	WALL PENETRATION
	DOWNPIPE
	DOWNPIPE + SPREADER
	WARNING LIGHT
	SPOT LEVELS
	BENCHMARK

ABBREVIATIONS:	
Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH DRAIN
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OFF	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT
FF	FIRST FLUSH DEVICE
TYP	TYPICAL

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	
ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)	
SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS	
HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS	
PIT GRATE TO BE TYPE WELDLK 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	
MAXIMUM FRONT ENTRY PIPE:- STRAIGHT ENTRY - Ø750 SKEW ENTRY 45° - Ø525	
Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES	
COMPRESSIVE STRENGTH f <sub>c</sub> FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa At 28 DAYS	
PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS	
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	

STORMWATER PIPE BEDDING/PAVING NOTES:	
WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.	
STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.	
FOOTPATH REINSTATEMENT NOTES:	
REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.	
SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.	
REINSTATE FOOTPATH SUBGRADE.	
THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS: SELECT FILL 95% MODIFIED SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) 98% MODIFIED BASE COURSE 100% MODIFIED	
EROSION & SEDIMENT CONTROL NOTES:	
PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL).	
ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.	
DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.	

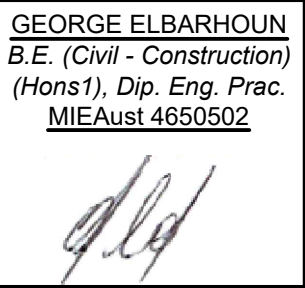
SURVEY	
THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY OTHERS.	
THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.	
GEBa CONSULTING DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION.	
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT GEBa CONSULTING.	
ADOPT LEVELS AS PER ORIGINAL SURVEY PLAN.	

DRAWING REGISTER		
NUMBER	NAME	REVISION
SW01	COVER SHEET & SPECIFICATIONS	A
SW02	SITE STORMWATER PLAN	A
SW03	DETAIL SHEET	A

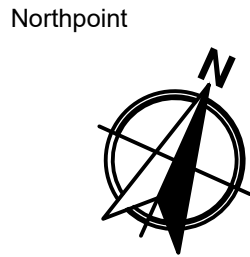


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Client	AMESCORP PTY LTD
Architect	ARCM DESIGN
Project	PROPOSED SECONDARY DWELLING
Address	75 DREADNOUGHT STREET, ROSELANDS NSW 2196



Description	Des.	Chk.	App.	Rev.	Date
FOR APPROVAL	V.S.	G.E.	G.E.	A	16.05.24

DEVELOPMENT APPLICATION (DA)			
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COVER SHEET SPECIFICATIONS			
Project number	Drawing number	Original Size	Scale
GC24152	SW01	A1	1:100



PROVIDE CLEAROUT FOR INSPECTION AND MAINTENANCE PURPOSES, WHERE REQUIRED (TYP).

CONNECT NEW STORMWATER DRAINAGE SYSTEM TO EXISTING AS SHOWN. PLUMBER TO MAKE SMOOTH CONNECTION AND MATCH INVERT LEVEL TO EXISTING (TYP).

INSTALL RAINWATER TANK TO COLLECT MINIMUM ROOF AREA AS PER BASIX. RAINWATER TANK TO BE FITTED WITH FIRST FLUSH AND MOSQUITO PREVENTION DEVICES.

EXISTING STORMWATER DRAINAGE SYSTEM TO BE RETAINED. PLUMBER TO ASSES CONDITION AND STATE OF REPAIR. LOCATION IS ASSUMED. ALLOW FOR REPLACEMENT, IF REQUIRED (TYP).

EXISTING CONNECTION TO KERB AND GUTTER TO BE RETAINED. LOCATION IS ASSUMED. PLUMBER TO MAKE NEW CONNECTION, IF REQUIRED.

1  
DP607845

DREADNOUGHT STREET



#### DESIGN NOTES:

THE SITE IS LOCATED IN CANTERBURY-BANKSTOWN CITY COUNCIL.

THE DEVELOPMENT PROPOSAL IS FOR A SECONDARY DWELLING.

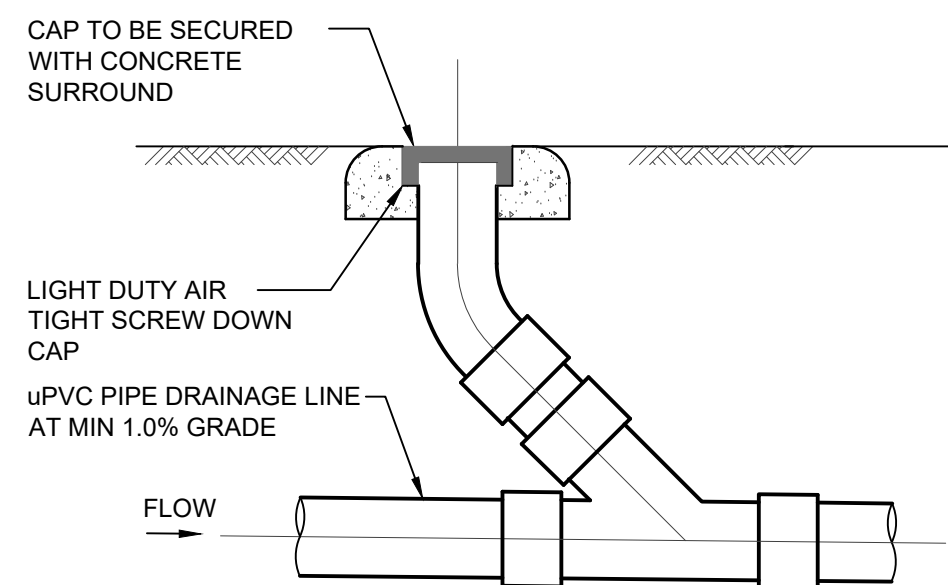
SITE AREA = 802.20m².  
PRE-DEVELOPMENT IMPERVIOUS AREA = 448.44  
POST-DEVELOPMENT IMPERVIOUS AREA = 530.11  
POST-DEVELOPMENT IMPERVIOUS AREA % = 66.08%

POST DEVELOPMENT IMPERVIOUS AREA IS LESS THAN 75%, THEREFORE O.S.D IS NOT REQUIRED AS PER SECTION 4.1 OF CANTERBURY-BANKSTOWN DCP - CHAPTER 3.1 - DEVELOPMENT ENGINEERING STANDARDS.

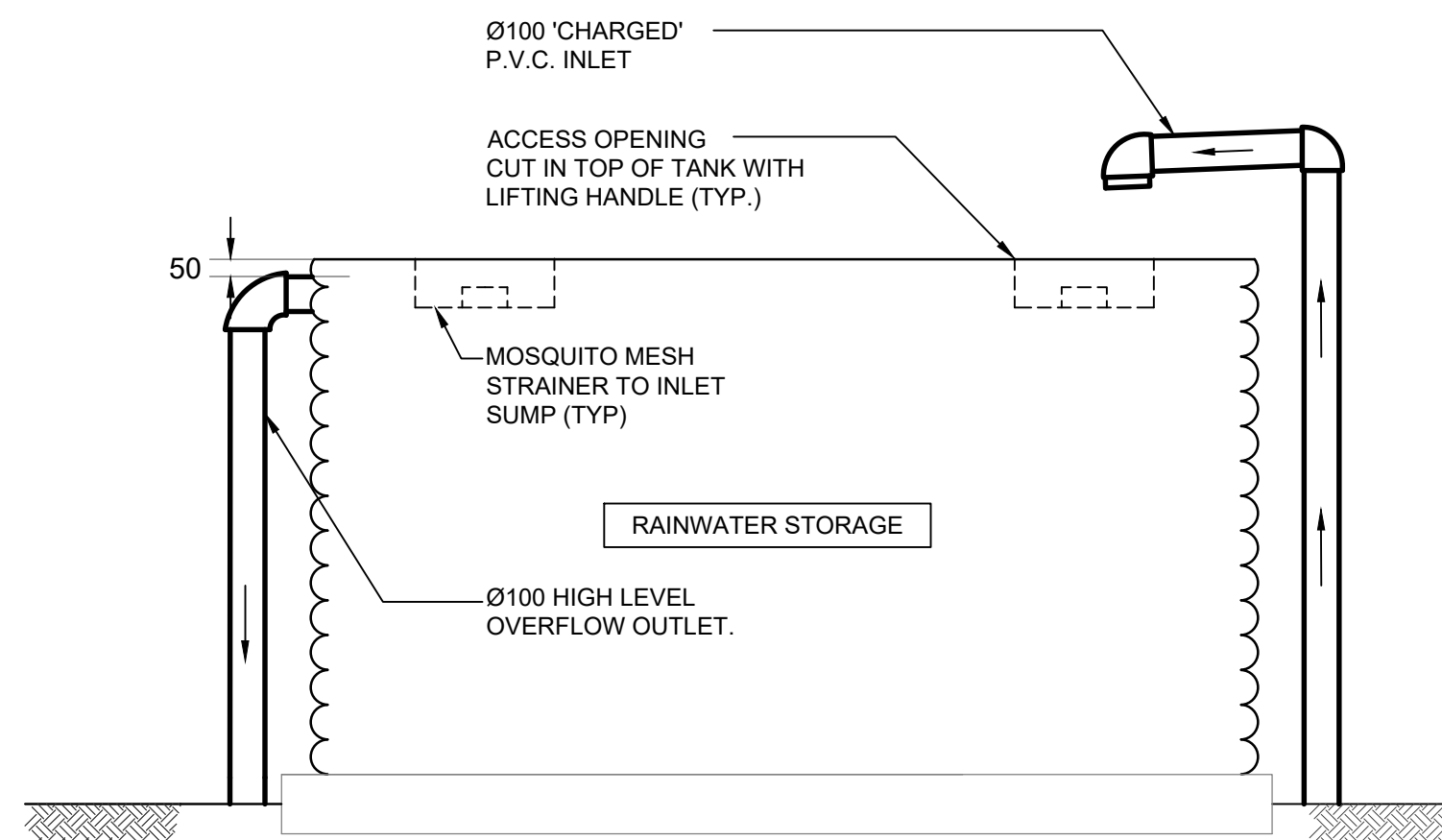
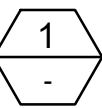
ALL STORMWATER PIPES SHOWN ON PLAN ARE Ø100mm uPVC AND SLOPING AT 1.0% U.N.O.

EXISTING SERVICES SHOWN ON PLAN ARE INDICATIVE ONLY. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND DEPTH PRIOR TO COMMENCING ANY WORKS.

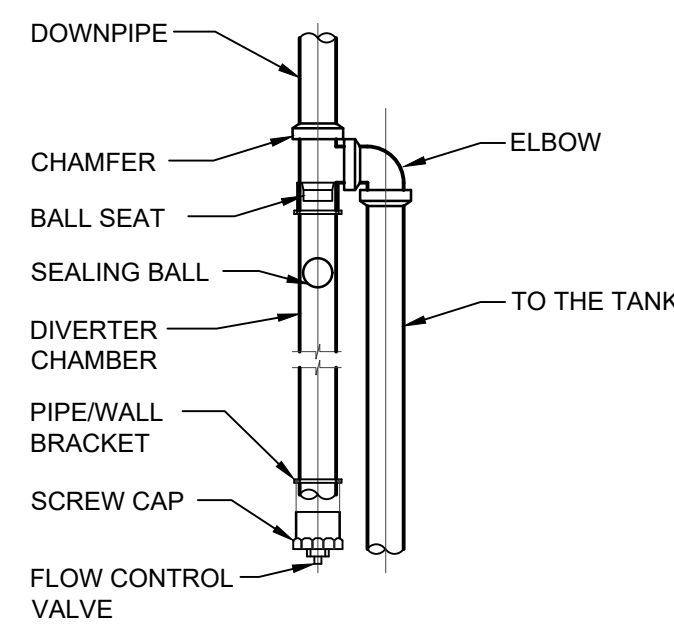
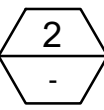
CONTACT STORMWATER ENGINEER IF ANY CLASHES WITH EXISTING SERVICES ARE FOUND DURING CONSTRUCTION.



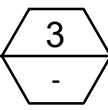
**DETAIL**  
CLEANING EYE  
SCALE 1:20



**DETAIL**  
TYPICAL ABOVE GROUND  
RAINWATER TANK  
NOT TO SCALE



**DETAIL**  
FIRST FLUSH DIVERTER  
SCALE 1:20



LEGEND:  
BACKGROUND IS YELLOW  
TEXT IS WHITE ON BLACK  
BACKGROUND

**DETAIL**  
RAINWATER SIGN  
SCALE 1:10

