FOR 17-23 GOULBURN STREET, LIVERPOOL, NSW

<u>SYMBOLS</u>

RL PIT SURFACE LEVEL
IL INVERT LEVEL

STORMWATER DRAINAGE PIPE

TOP OF KERB

DOWNPIPE TO RAINWATER TANK

OVERFLOW PIPE FROM RAINWATER TANK

Ø100 SUBSOIL PIPE

FLOOR WASTE 150X150

FLOOR WASTE 150Ø

RWO RAINWATER OUTLET 3000

•DP DOWN PIPE •CO CLEAN OUT

IO INSPECTION OPENING

VERTICAL DROP

VERTICAL RISER

CONCRETE COVER JUNCTION PIT

OVERLAND FLOW PATH

GRATED INLET PIT
WIDE GRATED DRAIN

0.C. M.L. 12.11.15

ENG DRAFT DATE No

FOR D.A. APPROVAL

AMENDMENT

NOTES

- 1. ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- 4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- 5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
- 6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- 7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS.
- 8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- 9. ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- 10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
- 11. PROVIDE EMERGENCY OVERFLOW TO ALL PLANTER BOX AND BALCONIES.
- 12. ALL PITS WITH DEPTH MORE THAN 1M MUST HAVE IRON STEPS.
- 13. PROVIDE STORMWATER GRATE 200Wx200D AT THE BASE OF ALL MECHANICAL SHAFTS AND UNCOVERED STAIRS OR OPENINGS.

ENG DRAFT DATE

14. ENSURE ALL DRAINAGE WORKS ARE AWAY FROM TREE ROOTS

AMENDMENT

<u>LEGEND</u>

REFER TO AS.3500 PART 3 TABLE 7.2
P1: 100¢ UPVC PIPE AT 1.0% MIN. GRADE
P2: 150¢ UPVC PIPE AT 1.0% MIN. GRADE
P3: 225¢ UPVC PIPE AT 0.5% MIN. GRADE
P4: 300¢ UPVC PIPE AT 0.4% MIN. GRADE
P5: 375¢ UPVC PIPE AT 0.4% MIN. GRADE



3500 3- TARLE 8.2

SIZE OF MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

	MINIMUM INTERNAL DIMENSIONS (mm)									
DEPTH OF INVERT OF										
OUTLET	RECTANGULAR	CIRCULAR								
OOTELT	WIDTH	LENGTH	DIAMETER							
≤600	450	450	600							
>600 ≤900	600	600	900							
>900 ≤1200	600	900	1000							
>1200	900	900	1000							

DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
D00	COVER SHEET, LEGEND & DRAWING SCHEDULE
D01	LOWER BASEMENT STORMWATER DRAINAGE PLAN
D02	UPPER BASEMENT STORMWATER DRAINAGE PLAN
D03	GROUND FLOOR STORMWATER DRAINAGE PLAN (SHEET 1 OF 2)
D04	GROUND FLOOR STORMWATER DRAINAGE PLAN (SHEET 2 OF 2)
D05	SITE STORMWATER DRAINAGE DETAILS 1
D06	SITE STORMWATER DRAINAGE DETAILS 2
D07	MUSIC MODEL AREA BREAKUP
D08	EROSION AND SEDIMENT CONTROL PLAN & DETAILS

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AMENDMENT

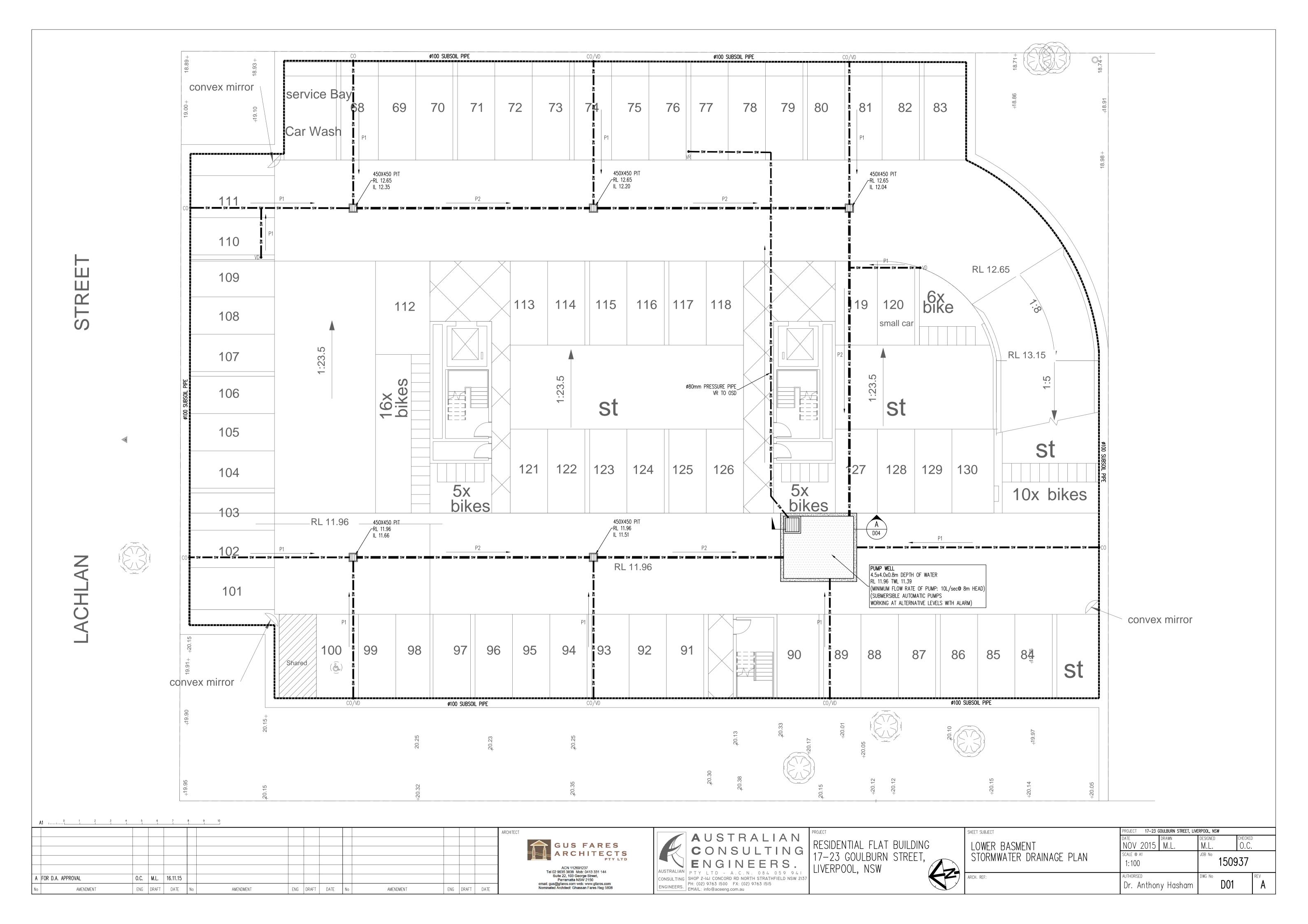
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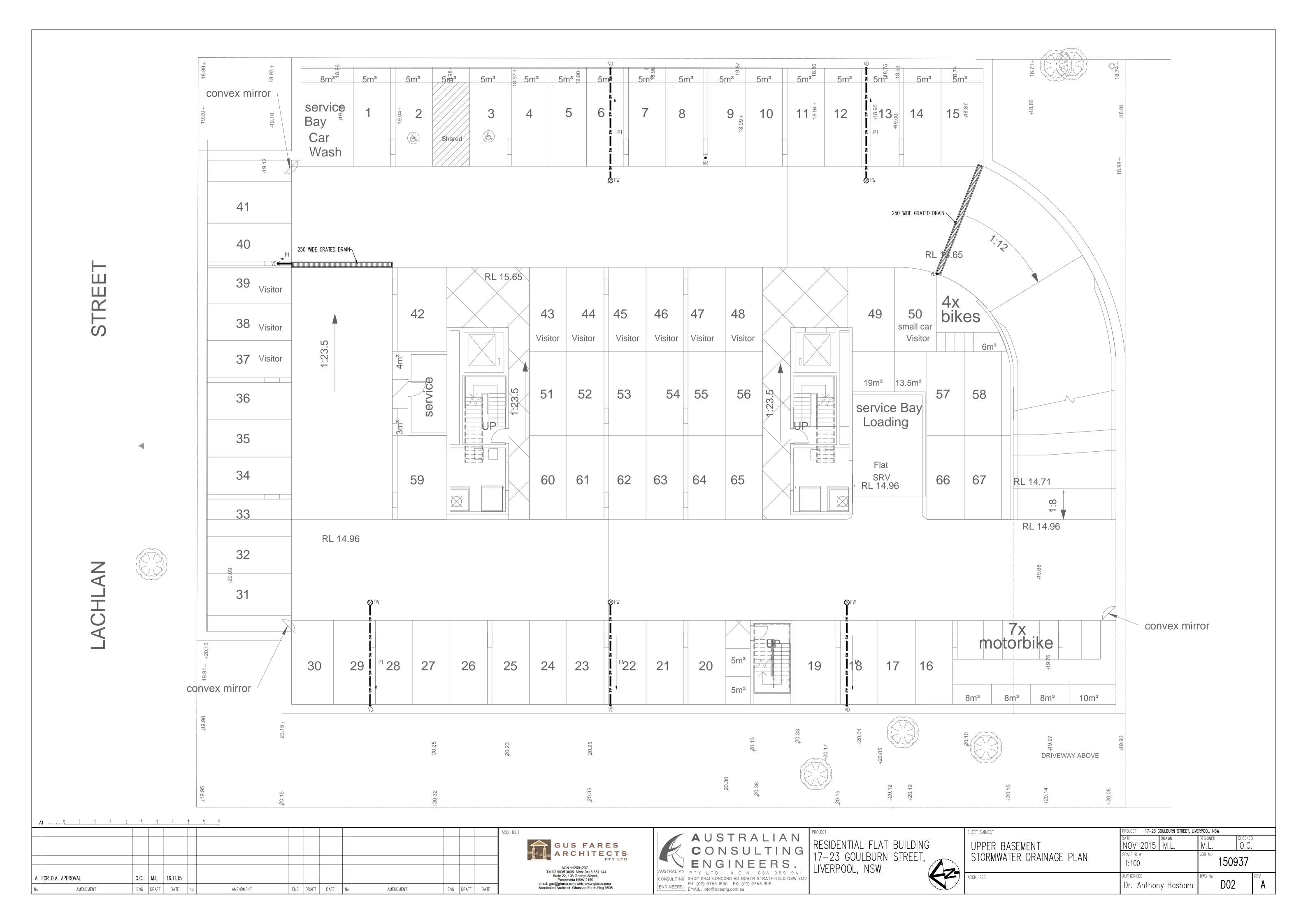


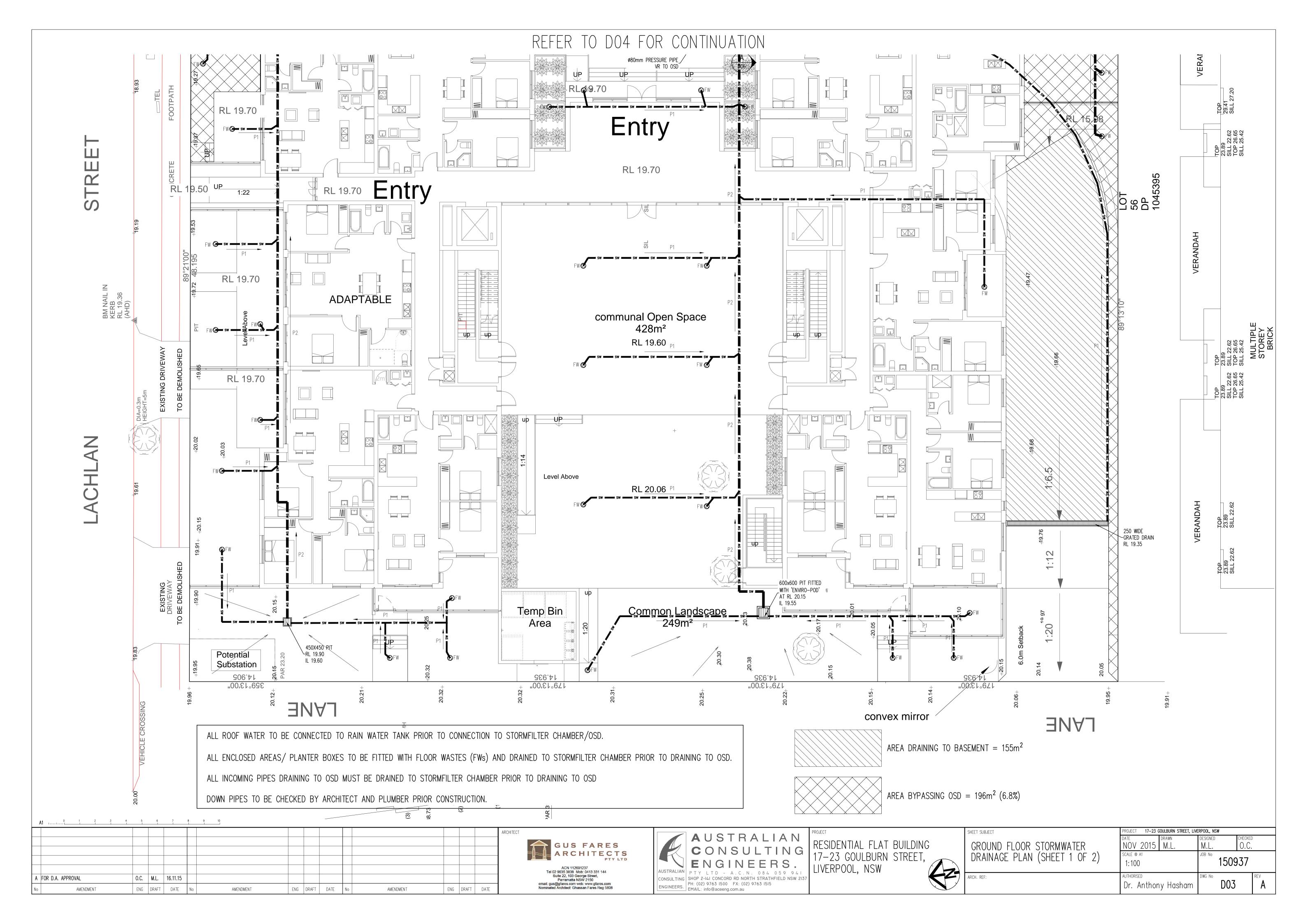




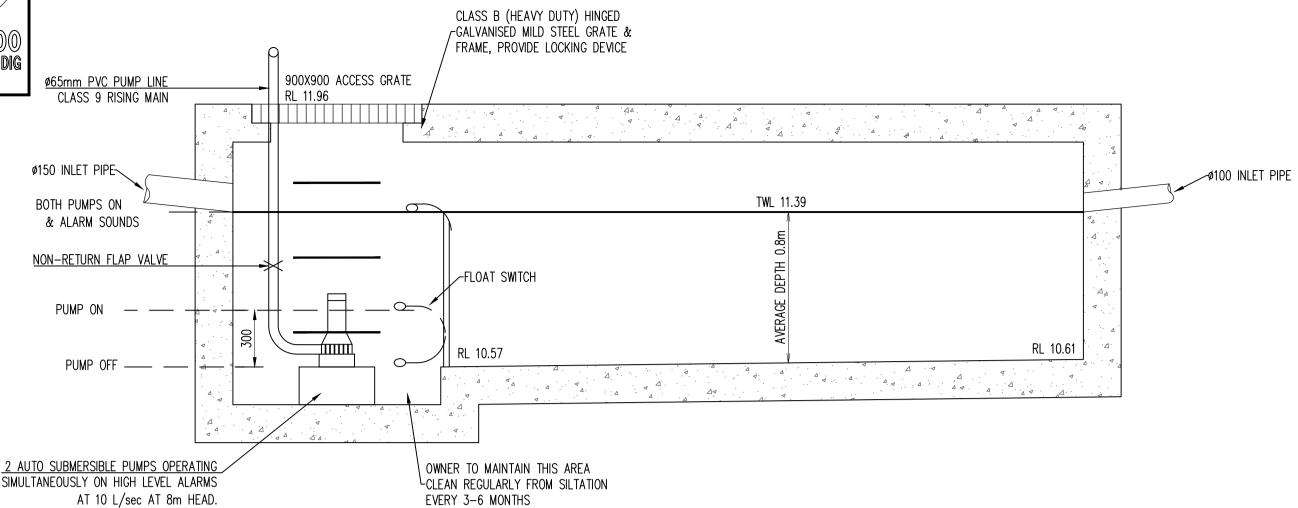
SHEET SUBJECT	PROJECT 17-23 GOULBURN STREET, LIVERPOOL, NSW								
COVER SHEET, LEGEND &	NOV 2015	drawn M.L.	designed M.L.	O.C.					
DRAWING SCHEDULE	SCALE @ A1		JOB No 150937						
ARCH. REF:	authorised Dr. Anthor	ıy Hasham	DWG No DC	00 REV					



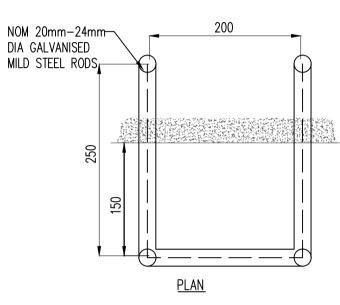


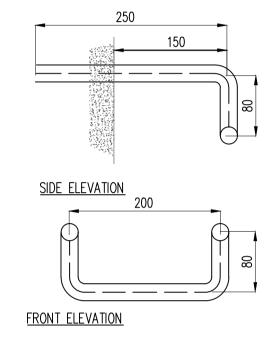


ALL ROOF WATER TO BE CONNECTED TO RAIN WATER TANK PRIOR TO CONNECTION TO STORMFILTER CHAMBER/OSD. AREA DRAINING TO BASEMENT = $155m^2$ ALL ENCLOSED AREAS/ PLANTER BOXES TO BE FITTED WITH FLOOR WASTES (FWs) AND DRAINED TO STORMFILTER CHAMBER PRIOR TO DRAINING TO OSD. ALL INCOMING PIPES DRAINING TO OSD MUST BE DRAINED TO STORMFILTER CHAMBER PRIOR TO DRAINING TO OSD AREA BYPASSING OSD = $196m^2$ (6.8%) DOWN PIPES TO BE CHECKED BY ARCHITECT AND PLUMBER PRIOR CONSTRUCTION. GOULBURN STREET CONSTRUCT Ø375 RCP CLASS 2 STORMWATER PIPE FOR 90m TO CONNECT INTO EXISTING COUNCIL KERB INLET PIT TEL OVERFLOW WEIR RL 18.75 CONCRETE 114 006X006 OVERFLOW WEIR_ RL 18.70 \ ..00.07.698 1:14 Ramp ⁺ RL 19.70 RL 19.70 OSD SUSPENDED ON
GROUND FLOOR SLAB
AV. DEPTH = 0.67m
AREA = 30.0m²
VOL REQUIRED = 20.0m³
VOL PROVIDED = 20.0m³ 4.5m Street Setback ø80mm PRESSURE PIPE_ RL 19.70 Entry TOP 23.89 SILL 22.62 TOP 26.65 SILL 25.42 RL 19.70 RL 19.70 Entry RL 19.50 UP 104 104 RL 19.70 BM NAIL I KERB RL 19.36 (AHD) ADAPTABLE communal Open Space 428m² RL 19.60 _{P1} TOP 23.89 SILL 22.62 TOP 26.65 SILL 25.42 RL 19.70 REFER TO DO4 FOR CONTINUATION PROJECT 17-23 GOULBURN STREET, LIVERPOOL, NSW AUSTRALIAN RESIDENTIAL FLAT BUILDING 17-23 GOULBURN STREET, GROUND FLOOR STORMWATER DRAINAGE PLAN (SHEET 2 OF 2) GUS FARES NOV 2015 M.L ARCHITECTS 150937 1:100 LIVERPOOL, NSW ACN 112691237
Tel 02 9635 3838 Mob: 0413 331 144
Suite 22, 103 George Street,
Parramatta NSW 2150
email: gus@gfares.com web: www.gfares.com
Nominated Architect: Ghassan Fares Reg 5808 AUSTRALIAN PTY LTD - A.C.N. 084 059 941 CONSULTING SHOP 2-141 CONCORD RD NORTH STRATHFIELD NSW 2137 PH: (02) 9763 1500 FX: (02) 9763 1515 EMAIL: info@aceeng.com.au A FOR D.A. APPROVAL 0.C. M.L. 16.11.15 Dr. Anthony Hasham ENG DRAFT DATE AMENDMENT ENG DRAFT DATE AMENDMENT ENG DRAFT DATE AMENDMENT



TYPICAL SECTION THROUGH PUMP PIT D01 | SCALE 1:20







PUMP SPECIFICATIONS STANDARD PUMP-OUT NOTES

THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -

PUMPS TO BE INSTALLED & SPECIFIED TO

MANUFACTURERS DETAIL & CALC. SHEET

- 1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE.
- 2. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- 3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- 4. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING & ACTIVATE THE ALARM.
- 5. AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

	Out	nut.	0	tlet	Ra	ted	Maxi	imum	Weigh		Dimension				
Type	Output		Ou	uet	Head C	apacity	Head	Capacity	weign		Jiliension				
	HP	kW	mm Inch M LPM		М	LPM	Kg	L(mm)	W(mm) H(mn						
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305			
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359			
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375			
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425			
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475			
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450			
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530			
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590			
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610			

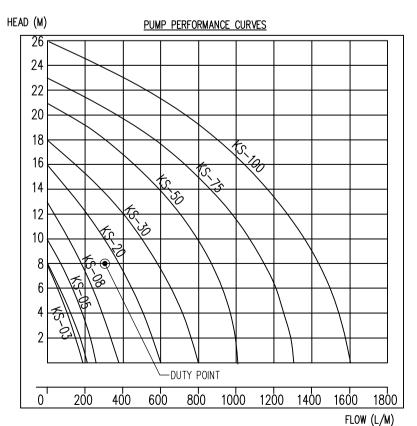
PUMP WELL DETAILS

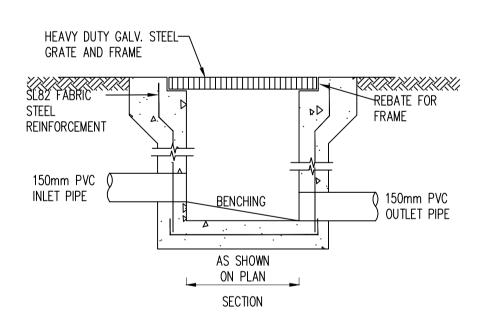
AREA DRAINING TO SUMP= 155m²

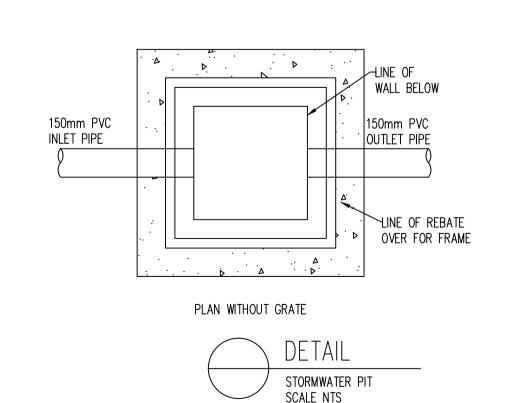
SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 45.4 mm/hr, Q=CIA/3600= 1x45.4x155/3600 = 1.95 L/secVOLUME REQUIRED = $1.95 \times (2 \times 60 \times 60) = 14040 \text{ L} = 14.04 \text{m}^3$ STORAGE PROVIDED $4.5x4.0x0.8 = 14.40m^3$

PUMP OUT RATE BASED ON 100YR 6MIN STORM, I=208 mm/hr Q=CIA/3600= 1x208x155/3600 = 8.95 L/sec(MIN RATE REQUIRED AS PER AS3500.3 IS 10 L/sec) USE DUAL PUMPS SIMULTANEOUSLY AT 5 L/sec

DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE SIMULTANEOUSLY ON HIGH LEVEL ALARMS AT 5.0 L/sec (PER PUMP) AT 8m HEAD







SPS 100mm Round Vari-Level Side Outlet Drain

65/50mm outlet

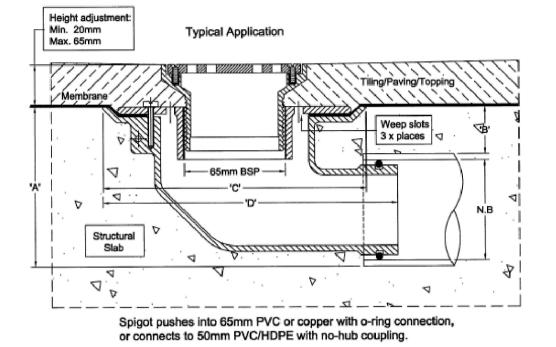
bronze, 304 & 316 stainless Steel. Bronze non-stock option.

ABS 90° Body and Reversible

Membrane Clamp Collar with female 65mm BSP thread.

Specification code: R100B/C90 (brass grate, ABS lower body) R100N/C90 (nickel bronze grate, ABS lower body) R100S4/C90 (polished 304 stainless steel, ABS lower body) R100S/C90 (satin 316 stainless steel grate, ABS lower body)

Round grate available in nickel



HEAVY DUTY GALV.— FINISHED LEVEL STEEL GRATE MINIMUM 1% GRADE BASE FALL TO OUTLET GRATED TRENCH DRAIN SCALE 1:20

WARNING

PUMP OUT SYSTEM **FAILURE IN BASEMENT** WHEN LIGHT IS FLASHING AND SIREN SOUNDING

<u>COLOURS</u> RED BORDER AND OTHER - BLACK

NOTES:

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC).



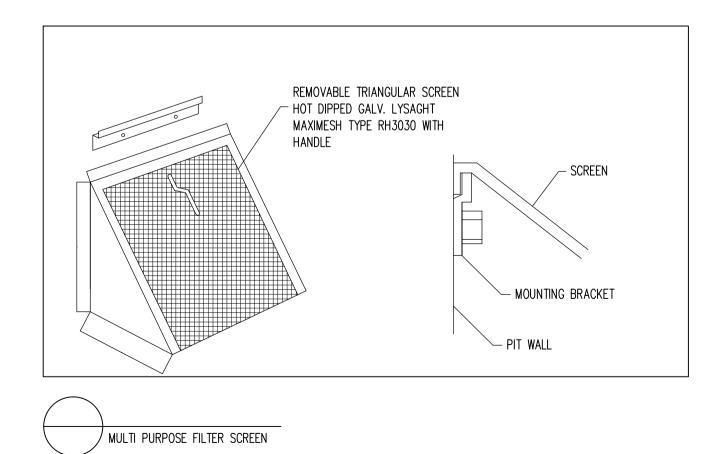
WIDTH 200MM

COLOURS:

"DANGER" AND BACKGROUND ELLIPTICAL AREA RECTANGLE CONTAINING ELIPSE

RED BLACK OTHER LETTERING AND BORDER BLACK

MATERIALS: POLYPROPYLENE



	A10 1 2 3 4	5	6	7	8	9 10									
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Α	FOR D.A. APPROVAL	0.C.	M.L.	16.11.15											
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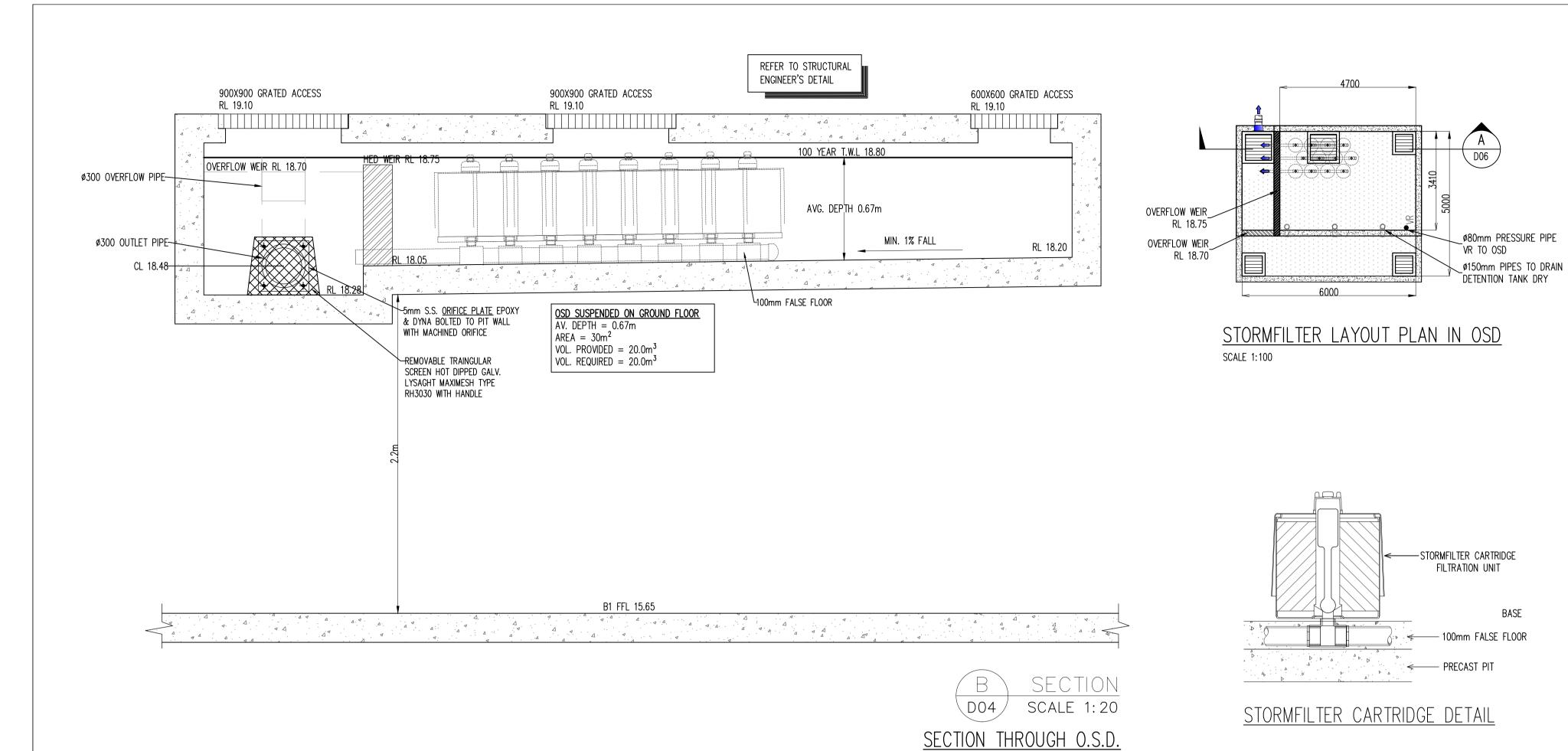
Parramatta NSW 2150 email: gus@gfares.com web: www.gfares.com Nominated Architect: Ghassan Fares Reg 5808

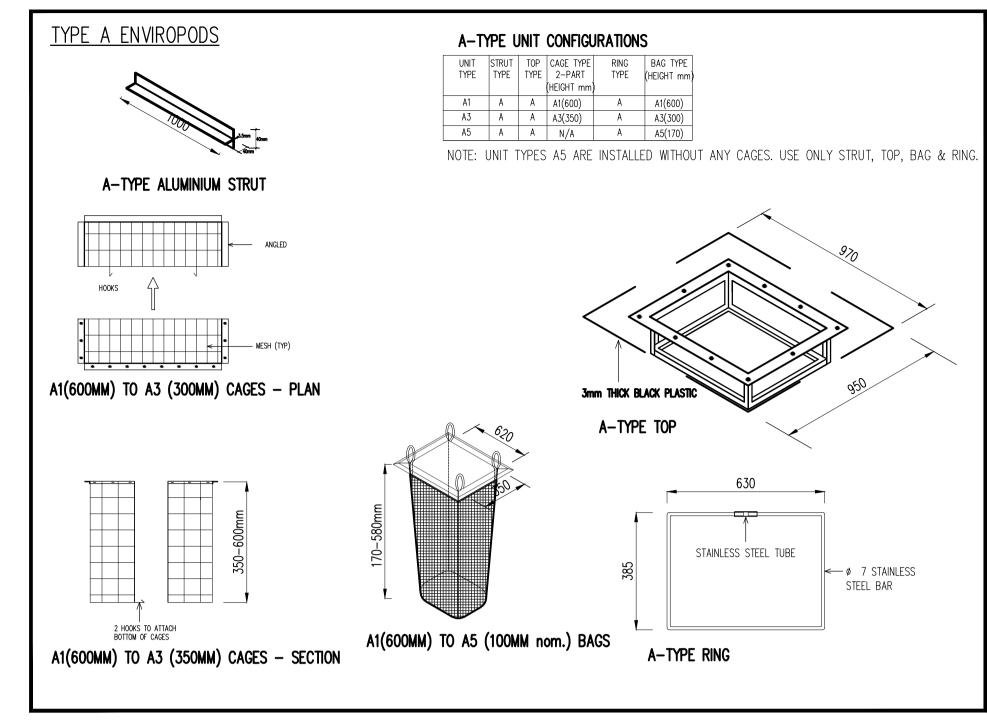


ENGINEERS. PH: (02) 9763 I500 FX: (02) 9763 I515 EMAIL: info@aceeng.com.au

RESIDENTIAL FLAT BUILDING 17-23 GOULBURN STREET,

SHEET SUBJECT	PROJECT 17-23 GOULBURN STREET, LIVERPOOL, NSW								
SITE STORMWATER	NOV 2015 M.L.	DESIGNED CHECKED O.C.)						
DRAINAGE DETAILS 1	SCALE ® A1 AS SHOWN	150937							
ARCH. REF:	Dr. Anthony Hasham	DWG No DO5	REV A						



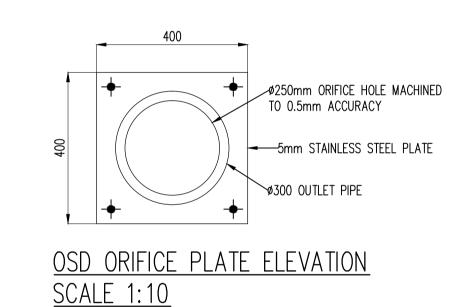


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	CARTRIDGE HEIGHT	460					
	SYSTEM HYDRAULIC DROP (H - REQ'D. MIN.)	700					
	TREATMENT BY MEDIA SURFACE AREA L/S/m2	1.4	0.7				
	CARTRIDGE FLOW RATE (L/s)	0.95	0.47				

	DRAINS MODEL RE	SULTS
STORM EVENT	PRE-DEVELOPMENT	POST-DEVELOPMENT
MAJOR STORM (100 YEAR ARI)	132 L/s	OSD= 106 L/s + BYPASS= 9 L/s =115 L/s
MODERATE STORM (20 YEAR ARI)	108 L/s	OSD=93 L/s + BYPASS= 7 L/s = 100 L/s
MINOR STORM (5 YEAR ARI)	80 L/s	OSD=75 L/s + BYPASS= 5 L/s = 80 L/s

0.009

BYPASS



GENERAL NOTES

- 1. INLET AND OUTLET PIPING SHALL BE SPECIFIED BY SITE CIVIL ENGINEER (SEE PLANS) AND PROVIDED BY CONTRACTOR.

 STORMFILTER IS PROVIDED WITH OPENINGS AT INLET AND OUTLET LOCATIONS.
- 2. IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CIVIL ENGINEER, EXCEEDS THE PEAK HYDRAULIC CAPACITY OF THE PRODUCT, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED. PLEASE CONTACT STORMWATER360 FOR OPTIONS.
- 3. THE FILTER CARTRIDGE(S) ARE SIPHON-ACTUATED AND SELF-CLEANING. THE STANDARD DETAIL DRAWING SHOWS THE MAXIMUM NUMBER OF CARTRIDGES. THE ACTUAL NUMBER SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER ON SITE
- PLANS OR IN DATA TABLE BELOW. CONCRETE STRUCTURE TO BE PROVIDED BY OTHERS.

 4. SEE STORMFILTER DESIGN TABLE FOR REQUIRED HYDRAULIC DROP. FOR SHALLOW, LOW DROP OR SPECIAL DESIGN
- CONSTRAINTS, CONTACT STORMWATER360 FOR DESIGN OPTIONS.
- 5. ALL WATER QUALITY PRODUCTS REQUIRE PERIODIC MAINTENANCE AS OUTLINED IN THE O&M GUIDELINES. PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS.
- 6. STRUCTURE AND ACCESS COVERS DESIGNED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 900X900 ABOVE CARTRIDGES.
 7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES AND VARY REGIONALLY.
- 8. ANY BACKFILL DEPTH, SUB-BASE, AND OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND
- SHALL BE SPECIFIED BY SITE CIVIL ENGINEER.

 9. CARTRIDGE HEIGHT AND ASSOCIATED DESIGN PARAMETERS PER STORMFILTER DESIGN TABLE.

10. STORMFILTER BY STORMWATER360: SYDNEY (AU) PHONE: 1300 354 722 www.stormwater360.com.au

<u>DPMENT</u>				
)	7 18.04	17.87	SITE SPECIFIC DATA REQUIREMENTS	
			STRUCTURE ID	15093
	↑ 0.005		WATER QUALITY FLOW RATE (L/S)	23.5
	0.005	∱ <mark>0.075 </mark>	PEAK FLOW RATE (L/S)	177.1
		<i></i>	RETURN PERIOD OF PEAK FLOW (yrs)	100
	10.40	, and	# OF CARTRIDGES REQUIRED	12
	√ 18.43	Janear and a service of the service	CARTRIDGE HEIGHT (310/460/690mm)	460
	BYPASS	^{©∜r} 18.40	MEDIA TYPE (PERLITE/ZEOLITE/ZPG)	ZPG
		0.093 18.09 OSD		

MAINTENANCE ACTION	FREQUENCY	RESPONSIBILITY	PROCEDURE
Outlets			
Inspect & remove any blockage of orifices	Six monthly	Owner	Remove grate & screen to inspect orifice. See plan for location of outlets
Check attachment of orifice plates to wall of chamber and/or pit (gaps less than 5 mm)	Annually	Maintenance Contractor	Remove grate and screen. Ensure plates are mounted securely, tighten fixings if required. Seal gaps as required.
Check orifice diameters are correct and retain sharp edges	Five yearly	Maintenance Contractor	Compare diameter to design (see Work-as-Executed) and ensure edge is not pitted or damaged.
Inspect screen and clean	Six monthly	Owner	Remove grate(s) and screens if required to clean them.
Check attachment of screens to wall of chamber or pit	Annually	Maintenance Contractor	Remove grate(s) and screen(s). Ensure screen fixings are secure. Repair as required.
Check screen(s) for corrosion	Annually	Maintenance Contractor	Remove grate(s) and examine screen(s) for rust or corrosion, especially at corners or welds.
Inspect walls (internal and external, if appropriate) for cracks or spalling	Annually	Maintenance Contractor	Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Inspect outlet sumps & remove any sediment/sludge	Six monthly	Owner	Remove grate(s) and screen(s). Remove sediment/sludge build-up and check orifices are clear.
Inspect grate(s) for damage or blockage	Six monthly	Owner	Check both sides of a grate for corrosion, (especially corners and welds) damage or blockage.
Inspect outlet pipe & remove any blockage	Six monthly	Maintenance Contractor	Remove grate(s) and screen(s). Ventilate underground storage if present. Check orifices and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check step irons for corrosion	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.
Check fixing of step irons is secure	Six monthly	Maintenance Contractor	Remove grate(s) and ensure fixings are secure prior to placing weight on step iron.
Storage			
Inspect storage & remove any sediment/sludge in pit	Six monthly	Owner	Remove grate(s) and screen(s). Remove sediment/sludge build-up.
Inspect internal walls of storage (and external, if appropriate) for cracks or spalling	Annually	Maintenance Contractor	Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Inspect & remove any debris/litter/mulch etc blocking grates	Six monthly	Owner	Remove blockages from grate(s) and check if storage is blocked.
Inspect areas draining to the storage(s) & remove debris/mulch/litter etc likely to block screens/grates	Six monthly	Owner	Remove debris and floatable material likely to be carried to grates.
Compare storage volume to volume approved. (Rectify if loss > 5%)	Annually	Maintenance Contractor	Compare actual storage available with Work-as Executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
Inspect storages for subsidence near pits	Annually	Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.

SAMPLE OSD MAINTENANCE SCHEDULE UPRCT HANDBOOK, 2005

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Α	FOR D.A. APPROVAL	0.C.	M.L.	16.11.15											
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POST-DEVELOPMENT

18.79

0.144 18.15



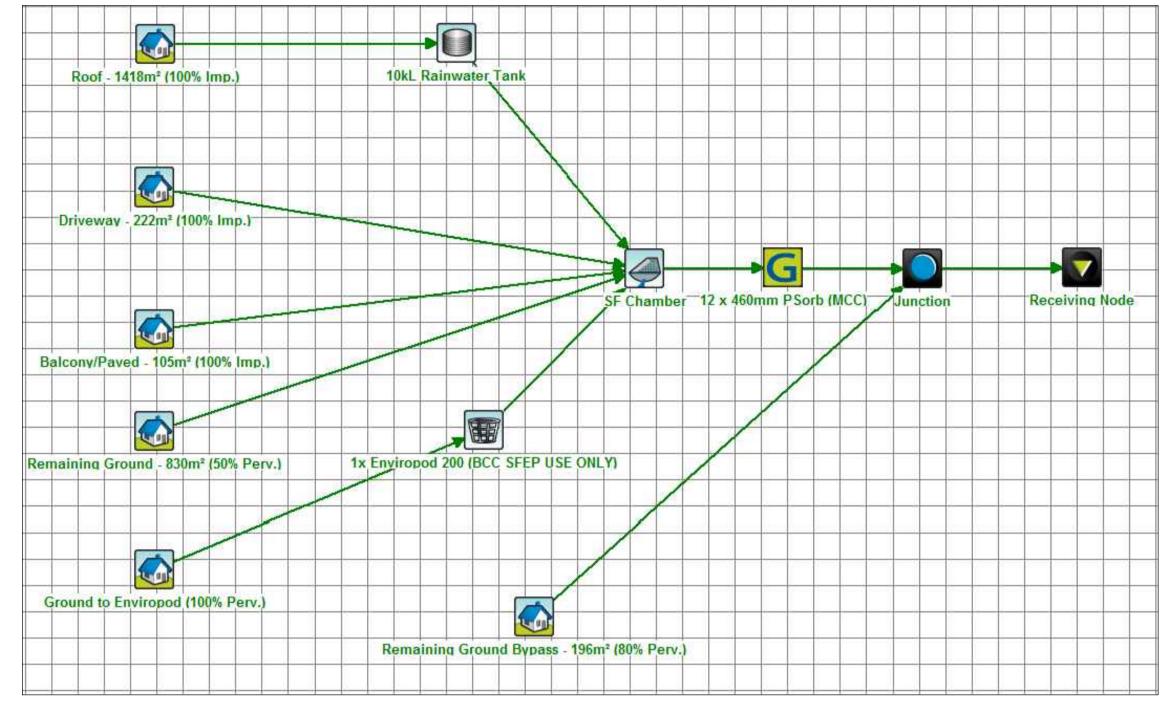
POST-DEVELOPMENT

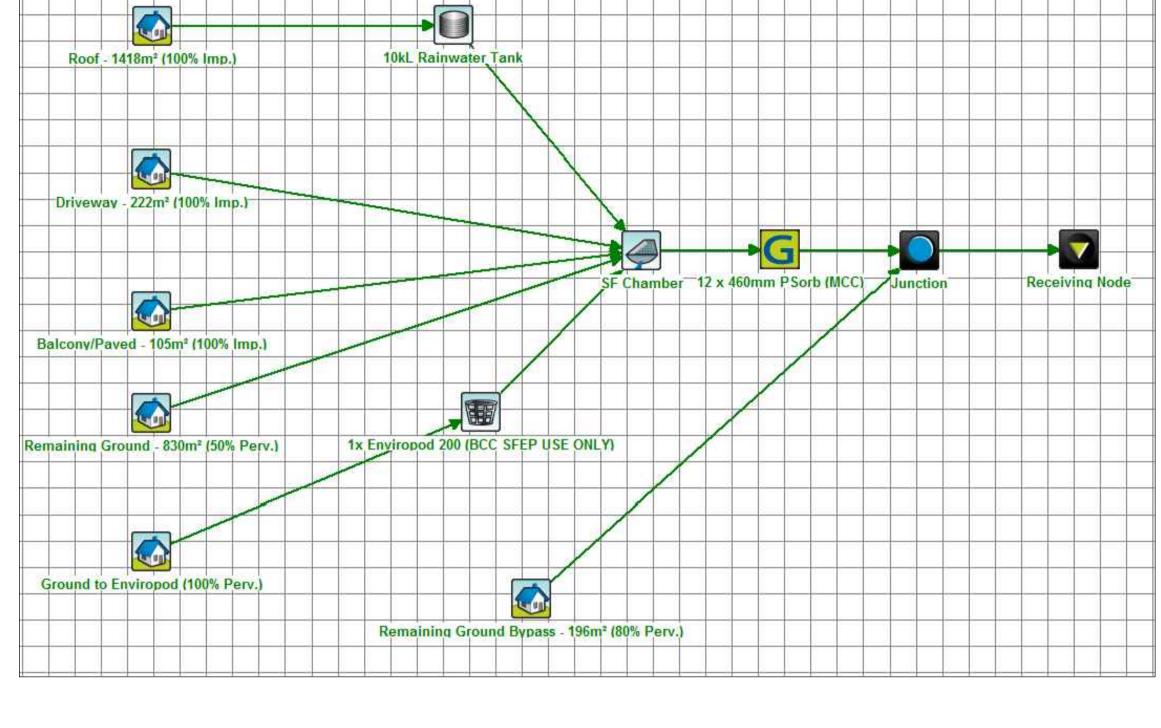


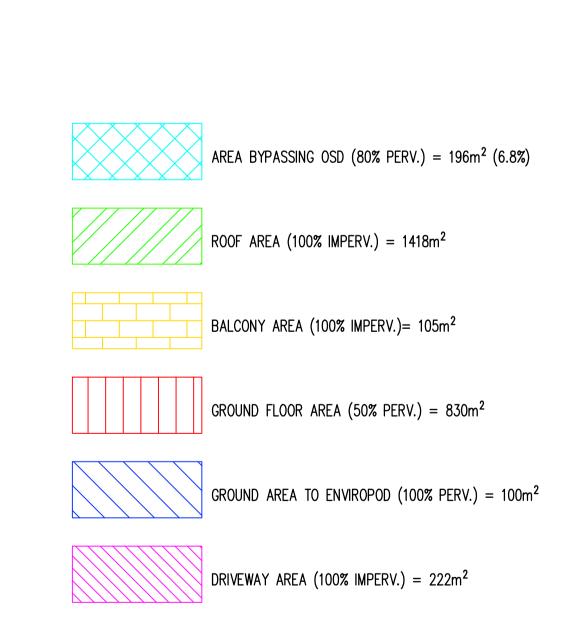
RESIDENTIAL FLAT BUILDING 17-23 GOULBURN STREET, LIVERPOOL, NSW

SHEET SUBJECT	PROJECT 17-23 GOULBURN STREET, LIVERPOOL, NSW							
SITE STORMWATER DRAINAGE DETAILS 2	NOV 2015 DRAWN M.L. SCALE @ A1 AS SHOWN	DESIGNED CHECKED O.C. JOB No 150937						
ARCH. REF:	Dr. Anthony Hasham	DWG No REV A						

MUSIC MODEL







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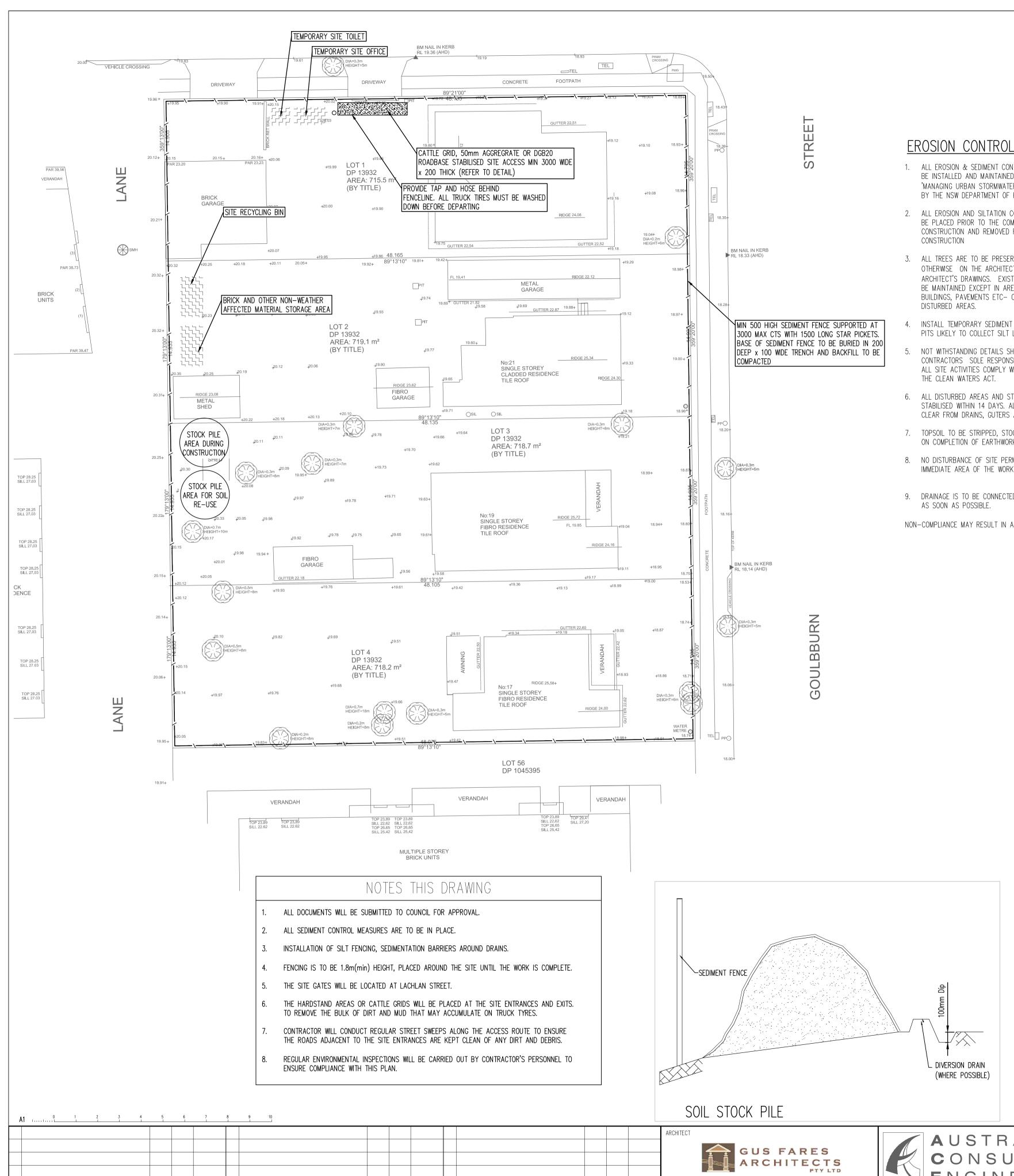
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	PROJECT
	RESIDENTIAL FLAT BUILDING 17-23 GOULBURN STREET, LIVERPOOL, NSW
	17-23 GOULBURN STREET,
	LIVERPOOL, NSW
7	

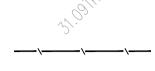
SHEET SUBJECT	PROJECT 17-23 GOULBURN STREET, LIVERPOOL, NSW							
MUSIC MODEL	NOV 2015 DRAWN M.L.	DESIGNED CHECKED O.C.						
AREA BREAKUP	SCALE @ A1	150937						
ARCH. REF:	Dr. Anthony Hasham	DWG No DO7	REV A					



EROSION CONTROL NOTES

- 1. ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, 3RD EDITION' PRODUCED BY THE NSW DEPARTMENT OF HOUSING.
- 2. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND REMOVED REGULARLY DURING
- 3. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC- CONTRACTOR TO MINIMISE
- INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER
- NOT WITHSTANDING DETAILS SHOWN, IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF
- 6. ALL DISTURBED AREAS AND STOCKPILES TO BE STABILISED WITHIN 14 DAYS. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTERS AND FOOTPATHS.
- 7. TOPSOIL TO BE STRIPPED, STOCKPILED AND RE-SPREAD ON COMPLETION OF EARTHWORKS. NONE TO BE REMOVED.
- 8. NO DISTURBANCE OF SITE PERMITTED OTHER THAN IMMEDIATE AREA OF THE WORKS.
- 9. DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM
- NON-COMPLIANCE MAY RESULT IN A \$1500 FINE

SYMBOLS



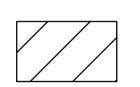
EXISTING LEVELS SILT FENCE

WIRE MESH FENCE

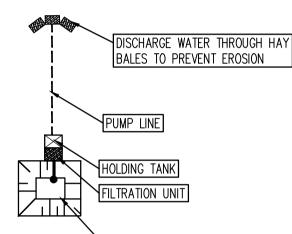


---- Ø50 PUMP LINE

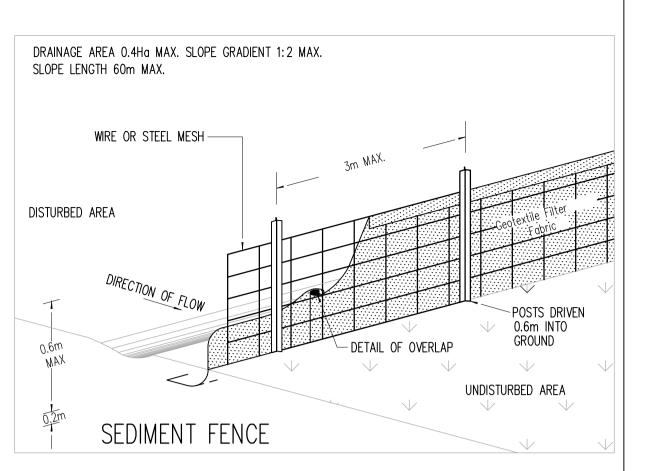
STABILISED SITE ACCESS

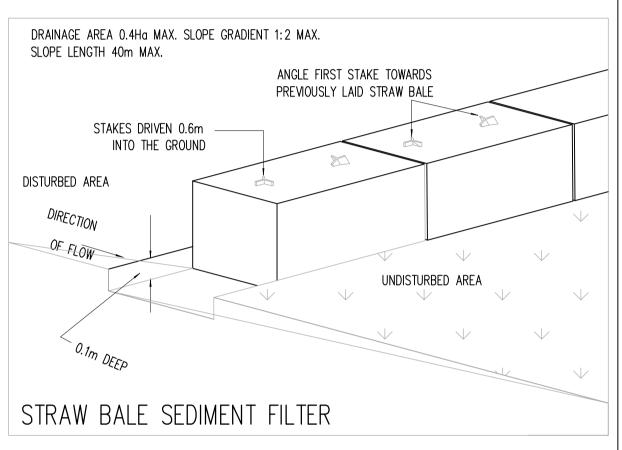


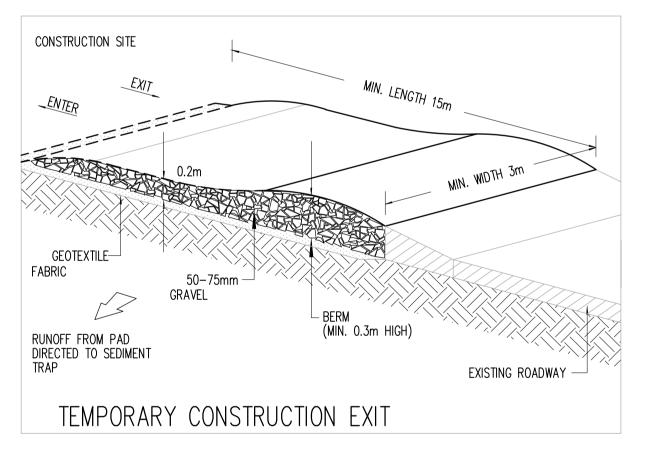
EXISTING STRUCTURE TO BE DEMOLISHED

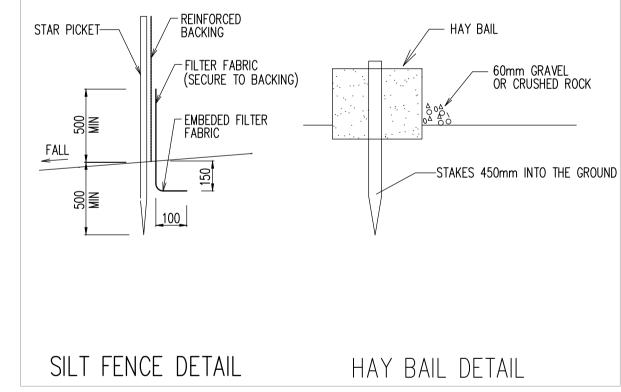


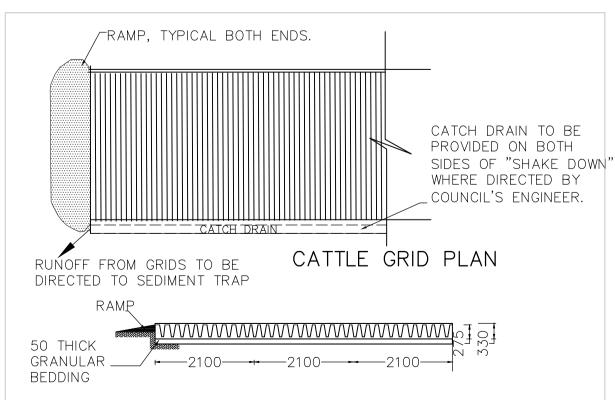
MANUALLY ACTIVATED SUBMERSIBLE PUMP TO BE PLACED ON PLINTH AT MIN 600mm FROM INVERT OF STILLING POND. CONTRACTOR IS TO ENSURE SEDIMENT HAS SETTLED PRIOR TO PUMP OPERATION. SEDIMENT MATERIAL IS TO BE CLEARED REGULARLY AND SHALL NOT AT ANY TIME REACH THE LEVEL OF THE PUMP INTAKE.

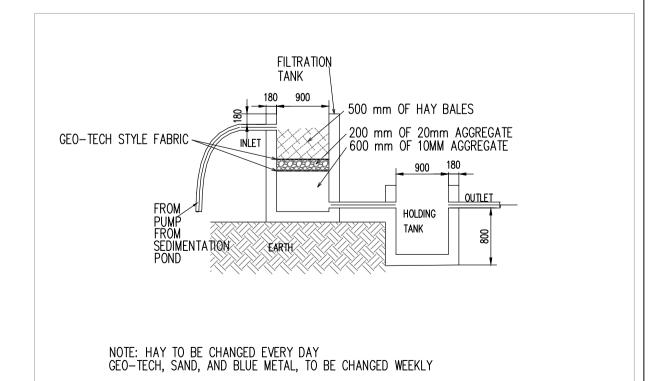












CATTLE GRID ALTERNATIVE

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AMENDMENT

ENG DRAFT DATE No

A FOR D.A. APPROVAL

AMENDMENT

O.C. M.L. 16.11.15

ENG DRAFT DATE No

ACN 112691237 Tel 02 9635 3838 Mob: 0413 331 144 Suite 22, 103 George Street,

Parramatta NSW 2150 email: gus@gfares.com web: www.gfares.com Nominated Architect: Ghassan Fares Reg 5808

ENG DRAFT DATE

AMENDMENT

AUSTRALIAN ENGINEERS. AUSTRALIAN PTY LTD - A.C.N. 084 059 941 ONSULTING SHOP 2-141 CONCORD RD NORTH STRATHFIELD NSW 213

ENGINEERS. PH: (02) 9763 I500 FX: (02) 9763 I5I5 EMAIL: info@aceeng.com.au

RESIDENTIAL FLAT BUILDING 17-23 GOULBURN STREET, LIVERPOOL, NSW

SHEET SUBJECT
EROSION AND SEDIMENT CONTROL PLAN & DETAILS
ADOLL DEE.

	PROJECT 17-23	GOULBURN STREET, LIVE	RPOOL, NSW	
) SEDIMENT	NOV 2015	drawn M.L.	DESIGNED (M.L.	CHECKED O.C.
AN & DETAILS	SCALE @ A1 1: 200		JOB No 1509	37
	Dr. Anthor	ny Hasham	DWG No DO8	REV A

TYPICAL DETAIL OF FILTRATION UNIT