FOR 129-131 MEMORIAL AVE, LIVERPOOL, NSW

SYMBOLS

RL PIT SURFACE LEVEL

IL INVERT LEVEL

TK TOP OF KERB

STORMWATER DRAINAGE PIPE

DOWNPIPE TO RAINWATER TANK

OVERFLOW PIPE FROM RAINWATER TANK

ø100 SUBSOIL PIPE

■FW FLOOR WASTE 150X150

FLOOR WASTE 150Ø

RWO RAINWATER OUTLET 300¢

•DP DOWN PIPE •CO CLEAN OUT

INSPECTION OPENING

VD VERTICAL DROP

VR VERTICAL RISER

CONCRETE COVER JUNCTION PIT

GRATED INLET PIT

WIDE GRATED DRAIN

OVERLAND FLOW PATH

NOTES

- 1. ALL LINES ARE TO BE MIN. 1000 $\underline{\mathbf{U}}$ PVC @ 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

9. ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.

FOR RESOLUTION.

- 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.
- 14. ENSURE ALL DRAINAGE WORKS ARE AWAY FROM TREE ROOTS

<u>LEGEND</u>

REFER TO AS.3500 PART 3 TABLE 7.2
P1: 1000 UPVC PIPE AT 1.0% MIN. GRADE
P2: 1500 UPVC PIPE AT 1.0% MIN. GRADE
P3: 2250 UPVC PIPE AT 0.5% MIN. GRADE
P4: 3000 UPVC PIPE AT 0.4% MIN. GRADE
P5: 3750 UPVC PIPE AT 0.4% MIN. GRADE



SIZE OF MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

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

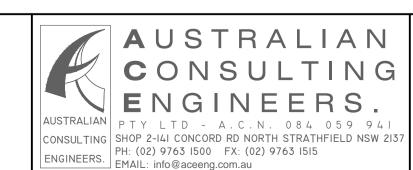
<u>DRAWING SCHEDULE</u>

DRAWING No.	DRAWING TITLE
DOO	COVER SHEET, LEGEND & DRAWING SCHEDULE
DO1	BASEMENT STORMWATER DRAINAGE PLAN
DO2	GROUND FLOOR STORMWATER DRAINAGE PLAN
DO3	BASEMENT STORMWATER DRAINAGE DETAILS
DO4	GROUND FLOOR STORMWATER DRAINAGE DETAILS
D10	EROSION AND SEDIMENT CONTROL PLAN & DETAILS

A10 1 2 3 4 5 6 7 8 9 10

	Al hardend														
															ARCHITECT
															* *
															T. +612 9744 7035 ACN: 67167131848
7	ISSUED FOR D.A. APPROVAL	0.C.	S.N.	12.08.16											BURWOOD NSW 2134
Ν	o AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	ARCHITECT ISHRAT KATHIA





RESIDENTIAL FLAT BUILDING 129-131 MEMORIAL AVENUE, LIVERPOOL. NSW

SHEET SUBJECT	PROJECT 129-131 MEMORIAL AVENUE, LIVERPOOL									
COVER SHEET, LEGEND &	AUG 2016 S.N.	DESIGNED CHECKED O.C.								
DRAWING SCHEDULE	SCALE @ A1	160543								
ARCH. REF:	Dr. Anthony Hash	am DWG No REV								

LEGEN

REFER TO AS.3500 PART 3 TABLE 7.2
P1: 1000 UPVC PIPE AT 1.0% MIN. GRADE
P2: 1500 UPVC PIPE AT 1.0% MIN. GRADE
P3: 2250 UPVC PIPE AT 0.5% MIN. GRADE
P4: 3000 UPVC PIPE AT 0.4% MIN. GRADE
P5: 3750 UPVC PIPE AT 0.4% MIN. GRADE



<u>NOTES</u>

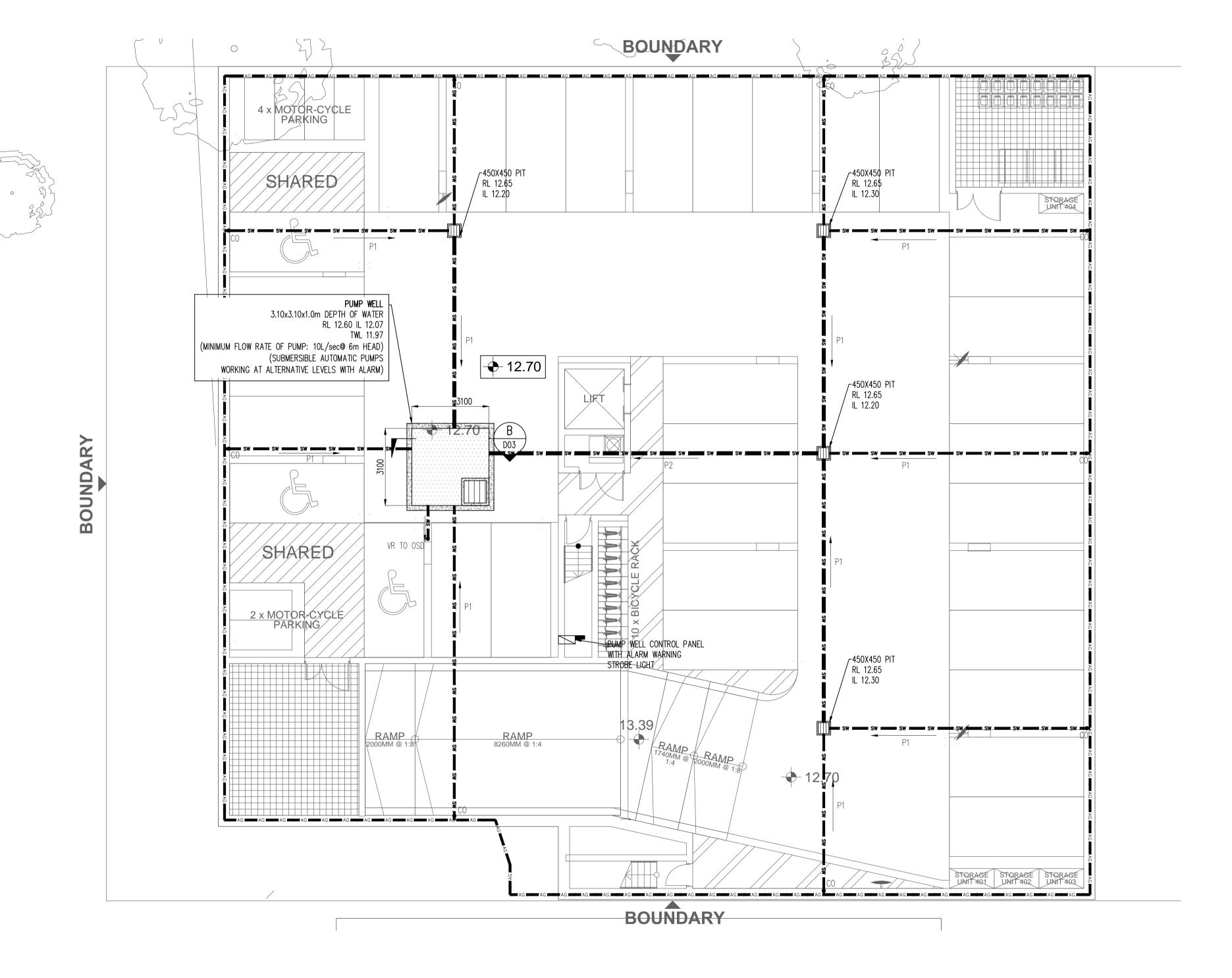
- 1. ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 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.
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- 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

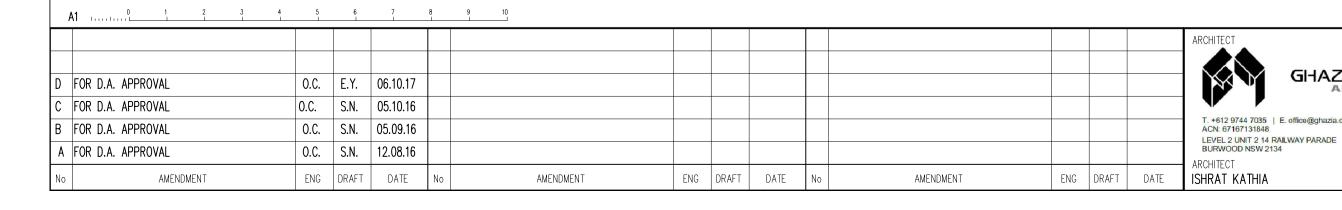
SYMBOLS

<u>21MBOF2</u>	
RL	PIT SURFACE LEVEL
IL	INVERT LEVEL
TK	TOP OF KERB
SW SW	STORMWATER DRAINAGE PIPE
RWT	DOWNPIPE TO RAINWATER TANK
SW	OVERFLOW PIPE FROM RAINWATER TANK
AG AG	Ø100 SUBSOIL PIPE
⊠ FW	FLOOR WASTE 150X150
⊗ FW	FLOOR WASTE 1500
Ø RWO	RAINWATER OUTLET 3000
●DP	DOWN PIPE
● C0	CLEAN OUT
• 10	INSPECTION OPENING
●VD	VERTICAL DROP
●VR	VERTICAL RISER
	CONCRETE COVER JUNCTION PIT
N	ODATED WHET DIT

GRATED INLET PIT

WIDE GRATED DRAIN







GHAZI AL ALI ARCHITECT



SHEET SUBJECT	PROJECT 129-131 MEMORIAL AVENUE, LIVERPOOL									
BASEMENT STORMWATER		RAWN S.N.	DESIGNED S.N.	O.C.						
DRAINAGE PLAN	1:100		160543							
ARCH. REF:	authorised Dr. Anthony		DWG No DO1	REV						

REFER TO AS.3500 PART 3 TABLE 7.2 P1 : 100ø UPVC PIPE AT 1.0% MIN. GRADI P2 : 150ø UPVC PIPE AT 1.0% MIN. GRADE P3 : 2250 UPVC PIPE AT 0.5% MIN. GRADE P4 : 3000 UPVC PIPE AT 0.4% MIN. GRADE

P5: 375¢ UPVC PIPE AT 0.4% MIN. GRADE



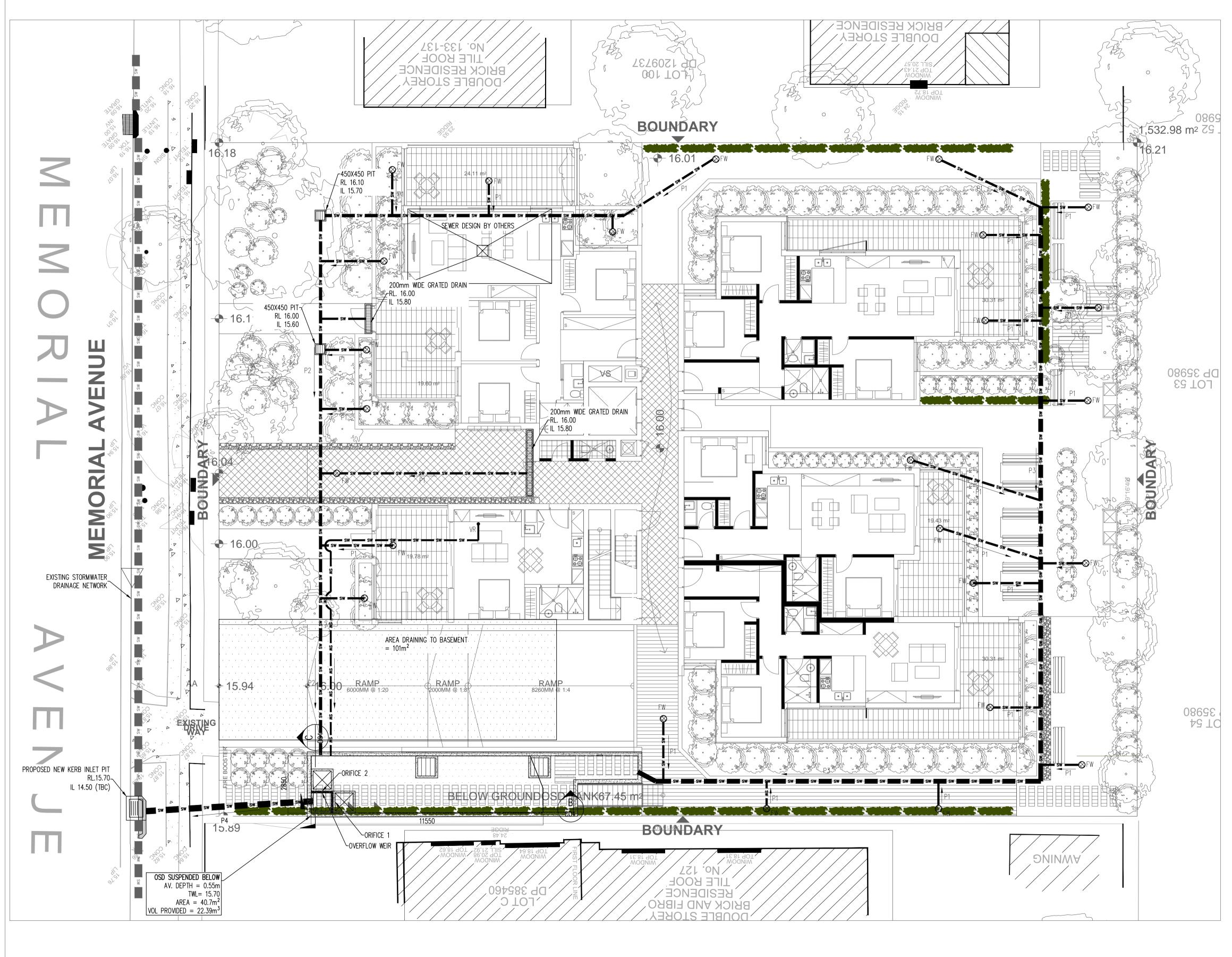
NOTES

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- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
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- 10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES

<u>SYMBOLS</u>

A1 1 0 1 2 3 4 5 6 7 8 9 10

PIT SURFACE LEVEL INVERT LEVEL TOP OF KERB STORMWATER DRAINAGE PIPE DOWNPIPE TO RAINWATER TANK OVERFLOW PIPE FROM RAINWATER TANK Ø100 SUBSOIL PIPE FLOOR WASTE 150X150 FLOOR WASTE 150ø RAINWATER OUTLET 300ø DOWN PIPE CLEAN OUT INSPECTION OPENING VERTICAL DROP VERTICAL RISER CONCRETE COVER JUNCTION PIT GRATED INLET PIT WIDE GRATED DRAIN



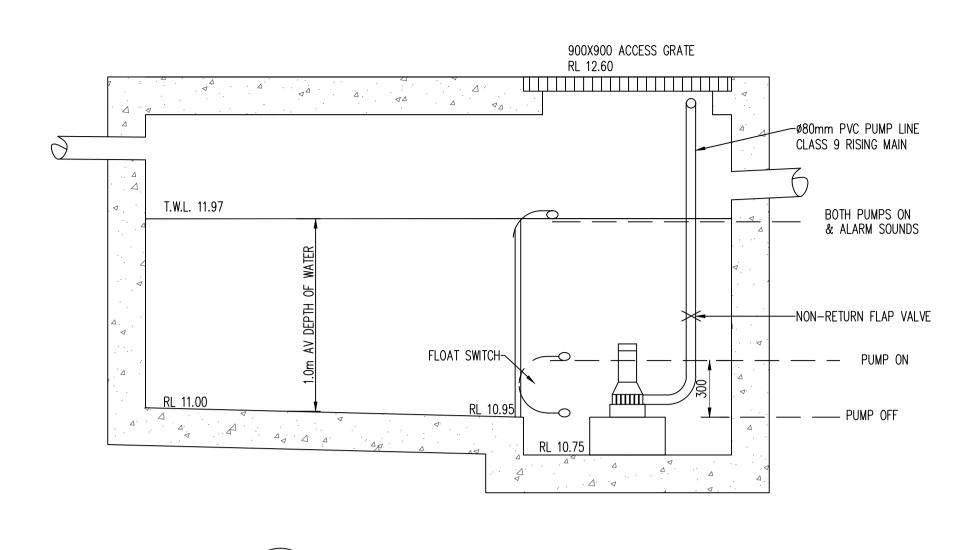




ENGINEERS. PH: (02) 9763 I500 FX: (02) 9763 I515 EMAIL: info@aceeng.com.au



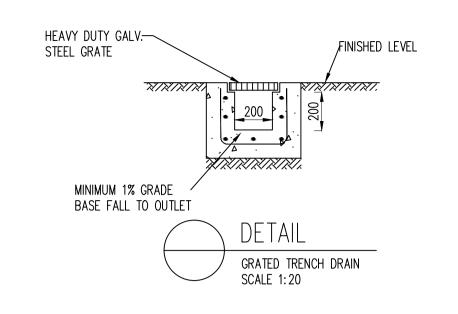
IEET SUBJECT	PROJECT 129-131 MEMORIAL AVENUE, LIVERPOOL									
GROUND FLOOR	AUG 2016	DRAWN S.N.	DESIGNED S.N.	O.C.						
	SCALE @ A1 1:100		160543							
DOLL DEF	AUTHORISED		DWG No	0.0	REV					
RCH. REF:	Dr. Anthor	ry Hasham	D(E						

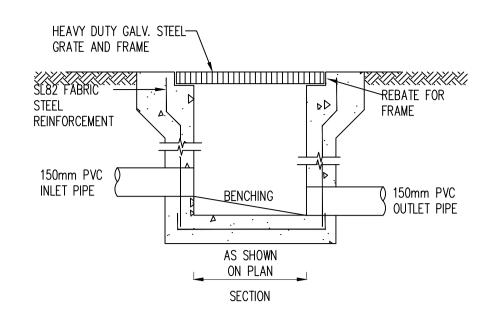


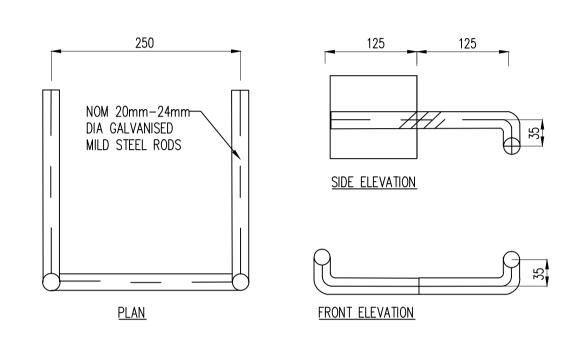
A TYPICAL SECTION THROUGH PUMP PIT

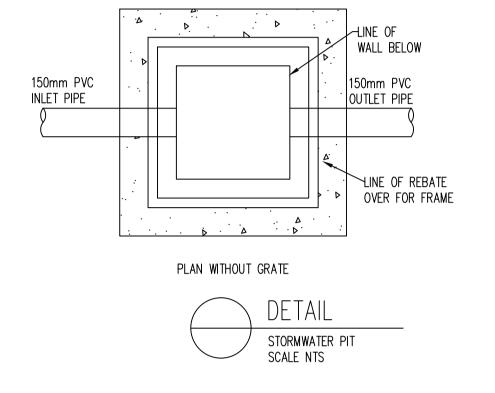
DO1 SCALE N.T.S

✓ PUMP WELL VOLUME 9.61m³











PUMP SPECIFICATIONS: STANDARD PUMP-OUT NOTES

A1 1.... 0 1 2 3 4 5 6 7 8 9 10

0.C. E.Y. 06.10.17

O.C. S.N. 05.09.16

0.C. S.N. 12.08.16

ENG DRAFT DATE

FOR D.A. APPROVAL

B FOR D.A. APPROVAL

A FOR D.A. APPROVAL

AMENDMENT

- THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD
- 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.

PUMP WELL DETAILS			
	PUMP	WELL	DETAILS

AREA DRAINING TO SUMP= 100.0m²

SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 44.4 mm/hr, $Q=CIA/3600= 1X 44.4 \times 100/3600 = 1.23 I/sec$ VOLUME REQUIRED = $1.23 \text{ X}(2x60x60) = 8880 \text{ L} = 8.88\text{m}^3$ STORAGE PROVIDED 3.1X3.1X1.0= 9.61m³

PUMP OUT RATE BASED ON 100YR 6MIN STORM, I=206 mm/hr Q=CIA/3600= 1X 206X 100.0/3600 = 5.72 I/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 5.72 I/sec (PER PUMP) AT 5.5m HEAD

PUMP PERFORMANCE CURVES

WARNING

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

<u>COLOURS</u>: - RED WARNING 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

WHITE RED ELLIPTICAL AREA RECTANGLE CONTAINING ELIPSE BLACK OTHER LETTERING AND BORDER BLACK

MATERIALS: POLYPROPYLENE

<u>LEGEND</u> REFER TO AS.3500 PART 3 TABLE 7.2 P1 : 100ø UPVC PIPE AT 1.0% MIN. GRADE P2: 1500 UPVC PIPE AT 1.0% MIN. GRADE P3 : 225ø UPVC PIPE AT 0.5% MIN. GRADE P4 : 3000 UPVC PIPE AT 0.4% MIN. GRADE P5 : 375¢ UPVC PIPE AT 0.4% MIN. GRADE

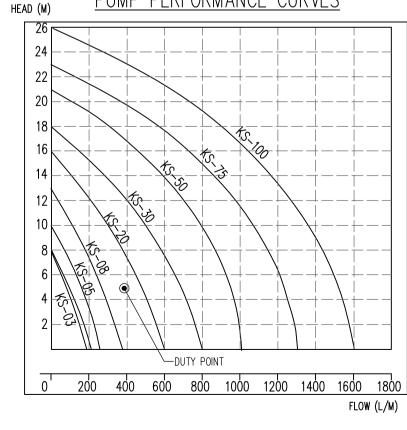


	0		0	+1.0+	Ra	ted	Max	imum	Weigh	Dimension				
Type	Out	put	Outlet		Head Capacity		Head	Capacity	weign	Difficusion				
	HP	kW	mm	Inch	М	LPM	М	LPM	Kg	L(mm)	W(mm)	H(mm)		
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305		
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359		
KS-05	1/2	0.4	50	2"	5	160	10	260	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		

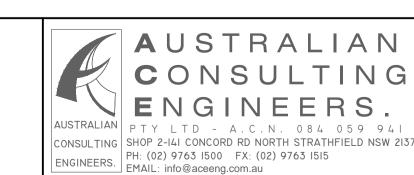
AMENDMENT

ENG DRAFT DATE

AMENDMENT

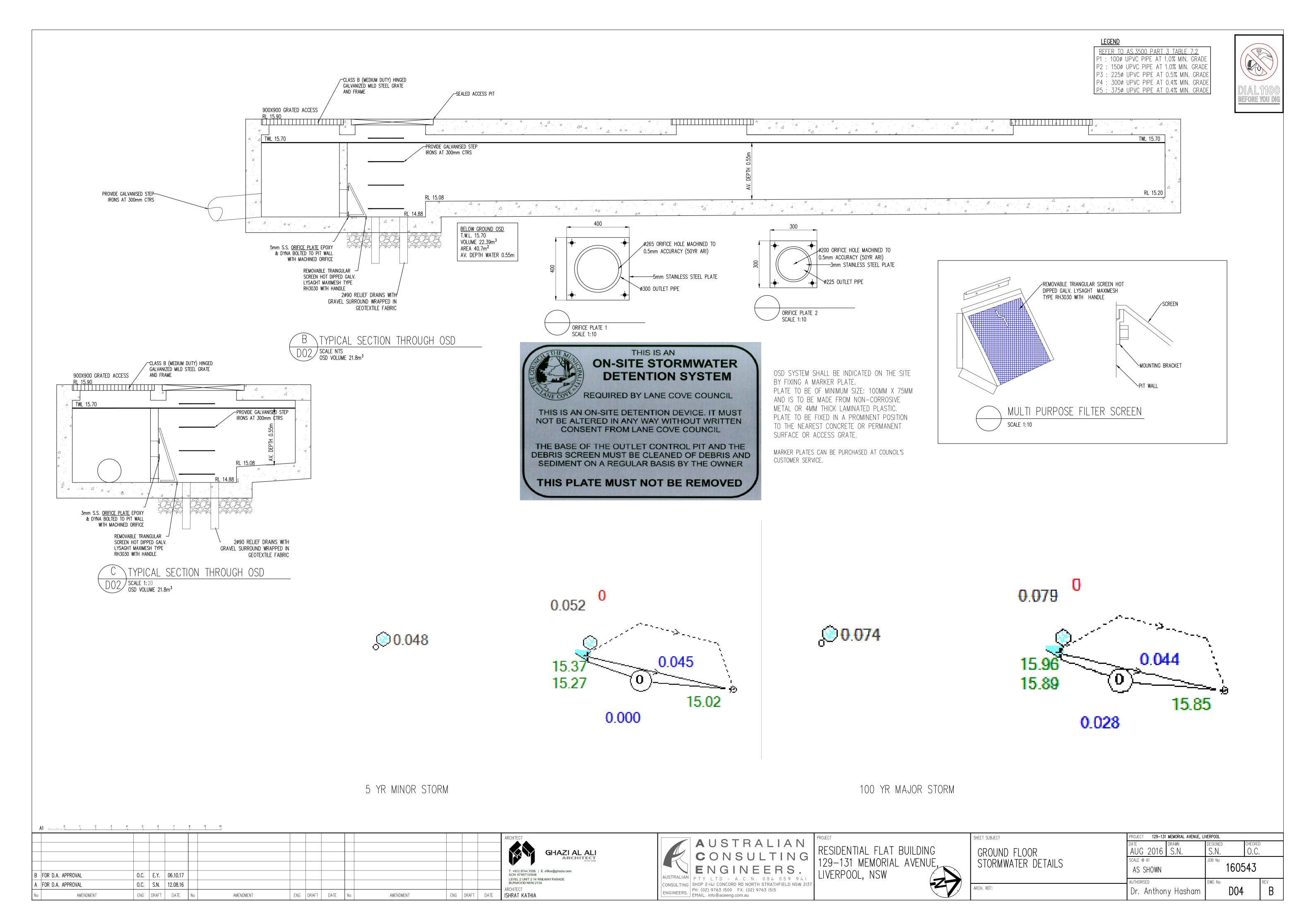


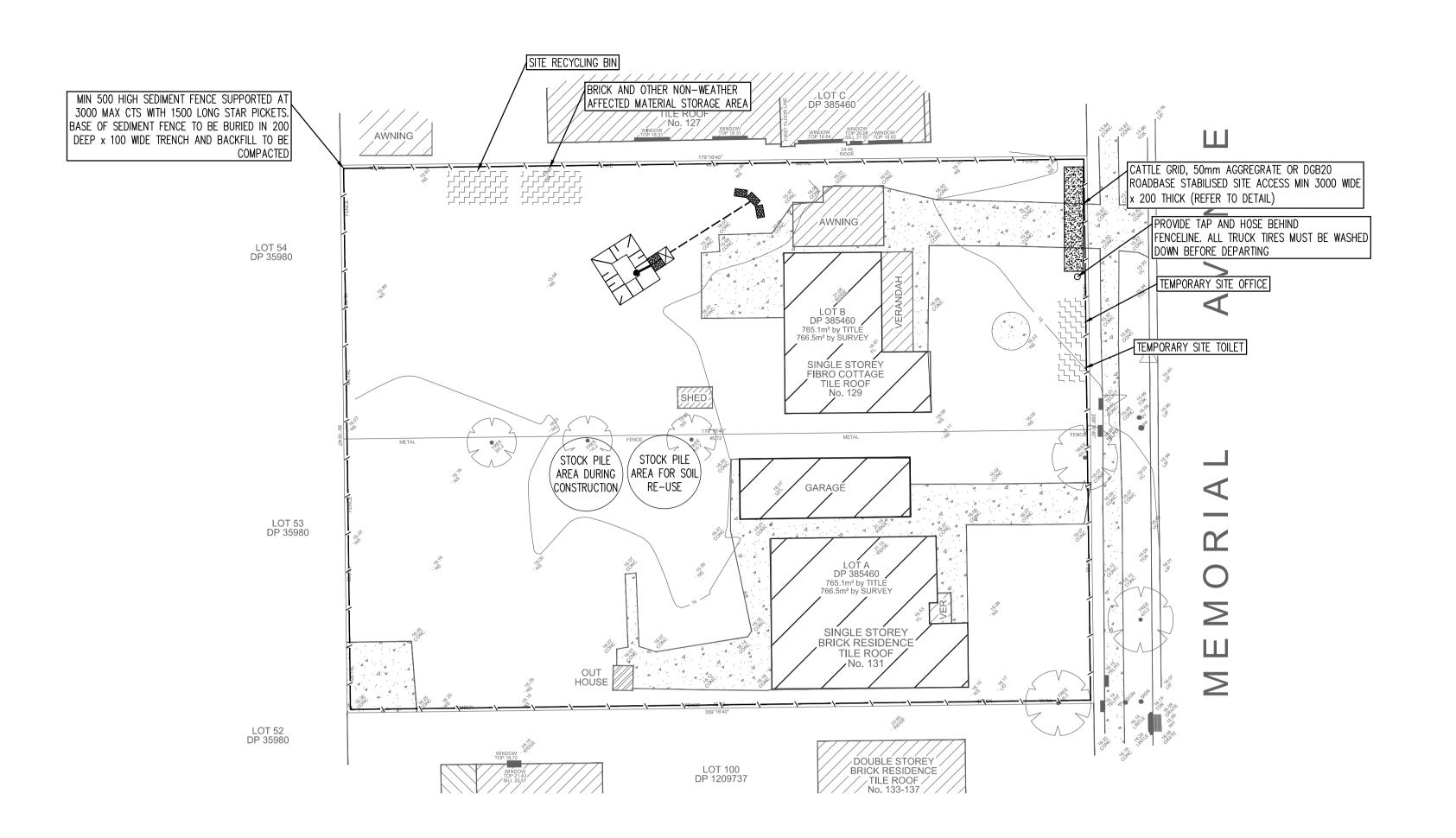
GHAZI AL ALI T. +612 9744 7035 | E. office@ghazia.com ACN: 67167131848 LEVEL 2 UNIT 2 14 RAILWAY PARADE BURWOOD NSW 2134 ENG DRAFT DATE ISHRAT KATHIA

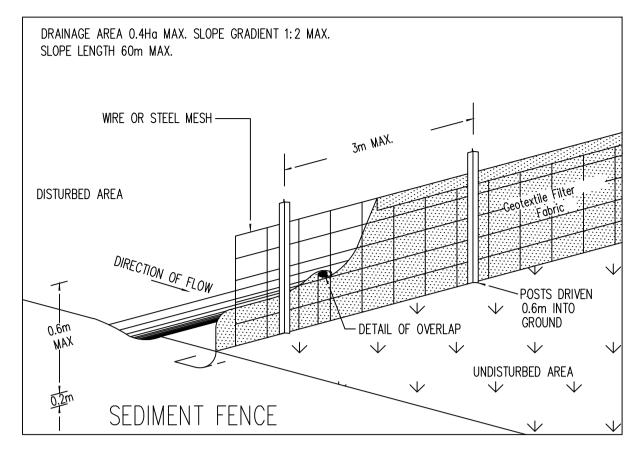


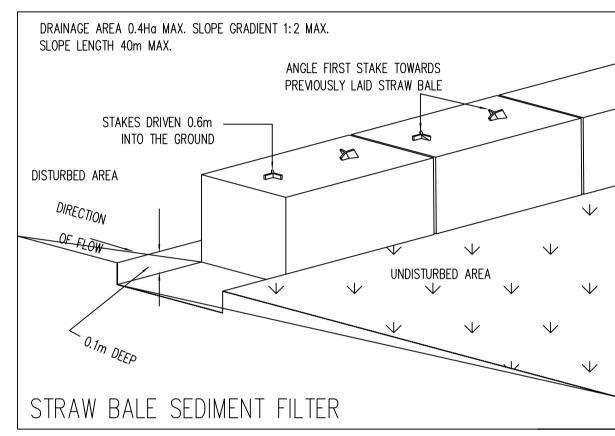
RESIDENTIAL FLAT BUILDING 129-131 MEMORIAL AVENUE, LIVERPOOL, NSW

SHEET SUBJECT	PROJECT 129-131	MEMORIAL AVENUE, LI	VERPOOL			
BASEMENT STORMWATER	AUG 2016	DRAWN S.N.	DESIGNED S.N.	CHECKED O.C.		
DRAINAGE DETAILS	SCALE @ A1 AS SHOWN		160543			
ARCH. REF:	authorised Dr. Anthon	ıy Hasham	DWG No DC	_	REV	







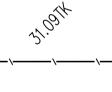


EROSION CONTROL NOTES

- 1. ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, 4TH EDITION' BY LANDCOM.
- 2. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND REMOVED REGULARLY DURING CONSTRUCTION
- 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 DISTURBED AREAS.
- 4. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER
- 5. NOT WITHSTANDING DETAILS SHOWN, IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
- 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 AS SOON AS POSSIBLE.

NON-COMPLIANCE MAY RESULT IN A \$1500 FINE





EXISTING LEVELS

SILT FENCE



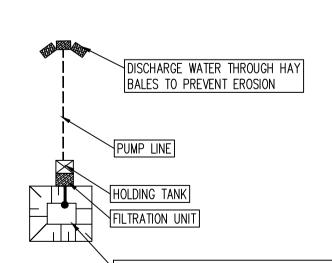
WIRE MESH FENCE



STABILISED SITE ACCESS

————— ø50 PUMP LINE

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.

NOTES THIS DRAWING

- ALL DOCUMENTS WILL BE SUBMITTED TO COUNCIL FOR APPROVAL.
- 2. ALL SEDIMENT CONTROL MEASURES ARE TO BE IN PLACE.
- INSTALLATION OF SILT FENCING, SEDIMENTATION BARRIERS AROUND DRAINS.
- 4. FENCING IS TO BE 1.8m(min) HEIGHT, PLACED AROUND THE SITE UNTIL THE WORK IS COMPLETE.

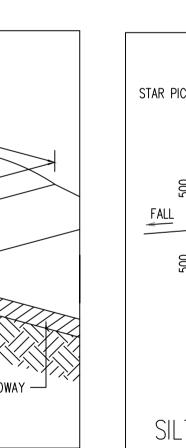
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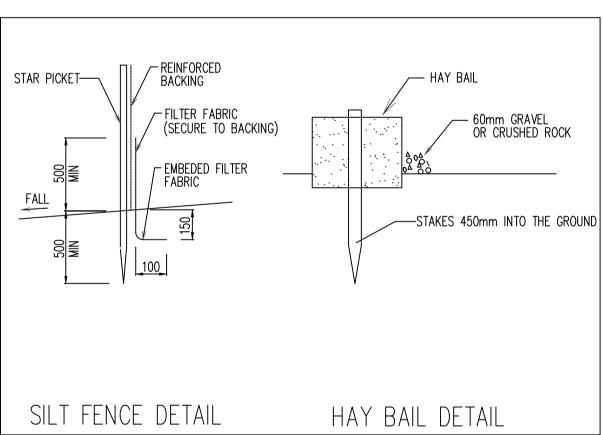
T. +612 9744 7035 | E. office@ghazia.com ACN: 67167131848

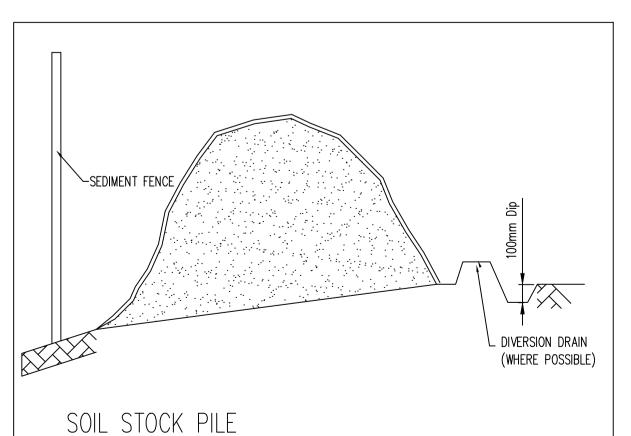
LEVEL 2 UNIT 2 14 RAILWAY PARADE BURWOOD NSW 2134

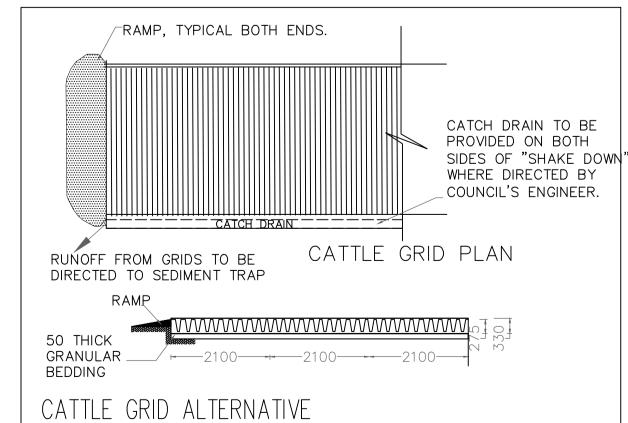
- 5. THE SITE GATES WILL BE LOCATED AT MEMORIAL AVENUE. THE HARDSTAND AREAS OR CATTLE GRIDS WILL BE PLACED AT THE SITE ENTRANCES AND EXITS.
- TO REMOVE THE BULK OF DIRT AND MUD THAT MAY ACCUMULATE ON TRUCK TYRES. CONTRACTOR WILL CONDUCT REGULAR STREET SWEEPS ALONG THE ACCESS ROUTE TO ENSURE
- THE ROADS ADJACENT TO THE SITE ENTRANCES ARE KEPT CLEAN OF ANY DIRT AND DEBRIS.
- REGULAR ENVIRONMENTAL INSPECTIONS WILL BE CARRIED OUT BY CONTRACTOR'S PERSONNEL TO ENSURE COMPLIANCE WITH THIS PLAN.

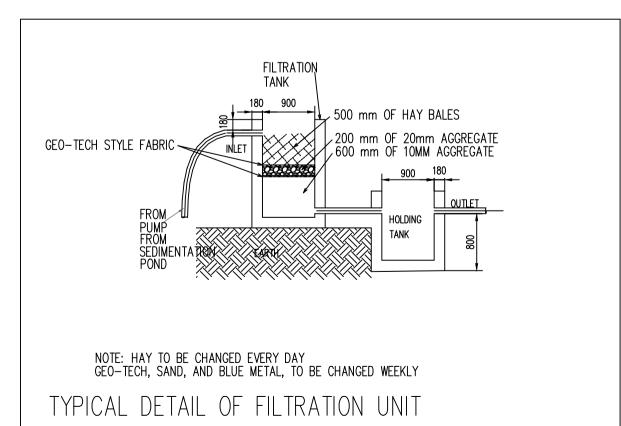
CONSTRUCTION SITE MIN. LENGTH 15m 0.2m MIN. WIDTH 3m GEOTEXTILE— FABRIC GRAVEL (MIN. 0.3m HIGH) RUNOFF FROM PAD DIRECTED TO SEDIMENT EXISTING ROADWAY -TEMPORARY CONSTRUCTION EXIT











A1											<u> 501L</u>			
														ARCHITECT
														T. +612 9744 7035 ACN: 67167131848 LEVEL 2 UNIT 2 14 R
A FOR D.A. APPROVAL	0.C.	S.N.	12.08.16											BURWOOD NSW 213 ARCHITECT
No AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE	ISHRAT KATHIA

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

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

RESIDENTIAL FLAT BUILDING 129-131 MEMORIAL AVENUE,

EET SUBJECT	PROJECT 129-131	MEMORIAL AVENUE, LI	VERPOOL			
EROSION AND SEDIMENT	AUG 2016	drawn S.N.	DESIGNED S.N.	O.C.		
CONTROL PLAN & DETAILS	SCALE @ A1 1:200		160543			
au Pre	AUTHORISED		DWG No	REV		
PCH. REF:	Dr. Anthon	ry Hasham	D10) A		