

STORMWATER CONCEPT PLAN

AT 26 MOOREFIELDS ROAD, KINGSGROVE, NSW

DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
DO0	COVER SHEET, LEGEND & DRAWING SCHEDULE
DO1	BASEMENT & GROUND FLOOR/SITE STORMWATER DRAINAGE PLAN
DO2	SITE STORMWATER & BASEMENT PUMP DRAINAGE DETAILS
DO3	EROSION & SEDIMENT CONTROL PLAN

NOTE RE. SERVICES

APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN ON LONGITUDINAL SECTION. EXACT LOCATIONS & DEPTHS TO BE ACCURATELY LOCATED BY BUILDER CONTRACTOR BY CONTACTING THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORKS



SURFACE INLET PIT DIMENSION				
DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS (mm)			
	RECTANGULAR		CIRCULAR	
	WIDTH	LENGTH	DIAMETER	
≤600	450	450	600	
>600 ≤900	600	600	900	
>900 ≤1200	600	900	1000	
>1200	900	900	1000	

GENERAL NOTES

- ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 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.
- ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- ALL WORK DO BE DONE IN ACCORDANCE WITH COUNCIL'S DCP AND TO COUNCIL'S SATISFACTION.
- 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.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER AND COUNCIL ENGINEER FOR RESOLUTION.
- ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
- ALL PIT GRATES ON SITE MUST BE HINGED WITH J-BOLT LOCKDOWN SYSTEM.
- PITS DEEPER THAN 1m REQUIRE STEP IRONS IN A STAGGERED MANNER. THE DEPTH OF ANY PIT IN EXCESS OF 2m SHALL BE STRUCTURALLY DESIGNED AND CERTIFIED BY A STRUCTURAL ENGINEER AND SUBMITTED TO COUNCIL FOR APPROVAL.
- PROVIDE GRATED DRAIN IN ALL OPEN AREAS TO THE SKY INCLUDING STAIRS AND CONNECT TO NEAREST STORMWATER SYSTEM.
- PROVIDE EMERGENCY SPITTERS TO ALL BALCONIES.
- PROVIDE AGG PIPE IN ALL LANDSCAPE AREA AND CONNECT TO THE STORMWATER DRAINAGE SYSTEM.
- PROVIDE AGG PIPE BEHIND THE RETAINING WALL AND CONNECT TO THE STORMWATER DRAINAGE SYSTEM

ON-SITE DETENTION NOTE:

THE OSD BASIN/TANK IS TO BE BUILT TO THE CORRECT LEVEL & SIZE AS PER THIS DESIGN. ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES.

SYMBOLS

F.F.L.	FINISHED FLOOR LEVEL	///////	MASONRY RETAINING WALL
T.K.	TOP OF KERB	○ FW	FLOOR WASTE 3000
RL	PIT SURFACE LEVEL	○ RWO	RAINWATER OUTLET 1500
IL	INVERT LEVEL	○ DDO	DISH DRAIN OUTLET 1000
---	STORMWATER DRAINAGE PIPE	□	GRATED INLET PIT
---	DOWNPIPE TO RAINWATER TANK	▨	GRATED DRAIN
• DP	1000 DOWN PIPE (U.N.O.)	→	OVERLAND FLOW PATH
• VD	VERTICAL DROP PIPE	▶ SP	SPREADER
• VR	VERTICAL RISER	≡ ES	EMERGENCY SPITTER
• IO	INSPECTION OPENING		

ABBREVIATIONS

CL	CLEARANCE
DIA	DIAMETER
DDO	DISH DRAIN OUTLET
DP	DOWNPIPE
EX	EXISTING
F.F.L.	FINISHED FLOOR LEVEL
GL	GROUND LEVEL
GMS	GALVANISED MILD STEEL
GSP	GRATED SURFACE INLET PIT
GTD	GRATED TRENCH DRAIN
HL	HIGH LEVEL
IL	INVERT LEVEL
JIP	JUNCTION PIT
KIP	KERB INLET PIT
IO	INSPECTION OPENING
LL	LOW LEVEL
O/F	OVERFLOW
PVC	POLYVINYLCHLORIDE
SL	SURFACE LEVEL
STW	STORMWATER
S/S	STAINLESS STEEL
U/S	UNDER SIDE

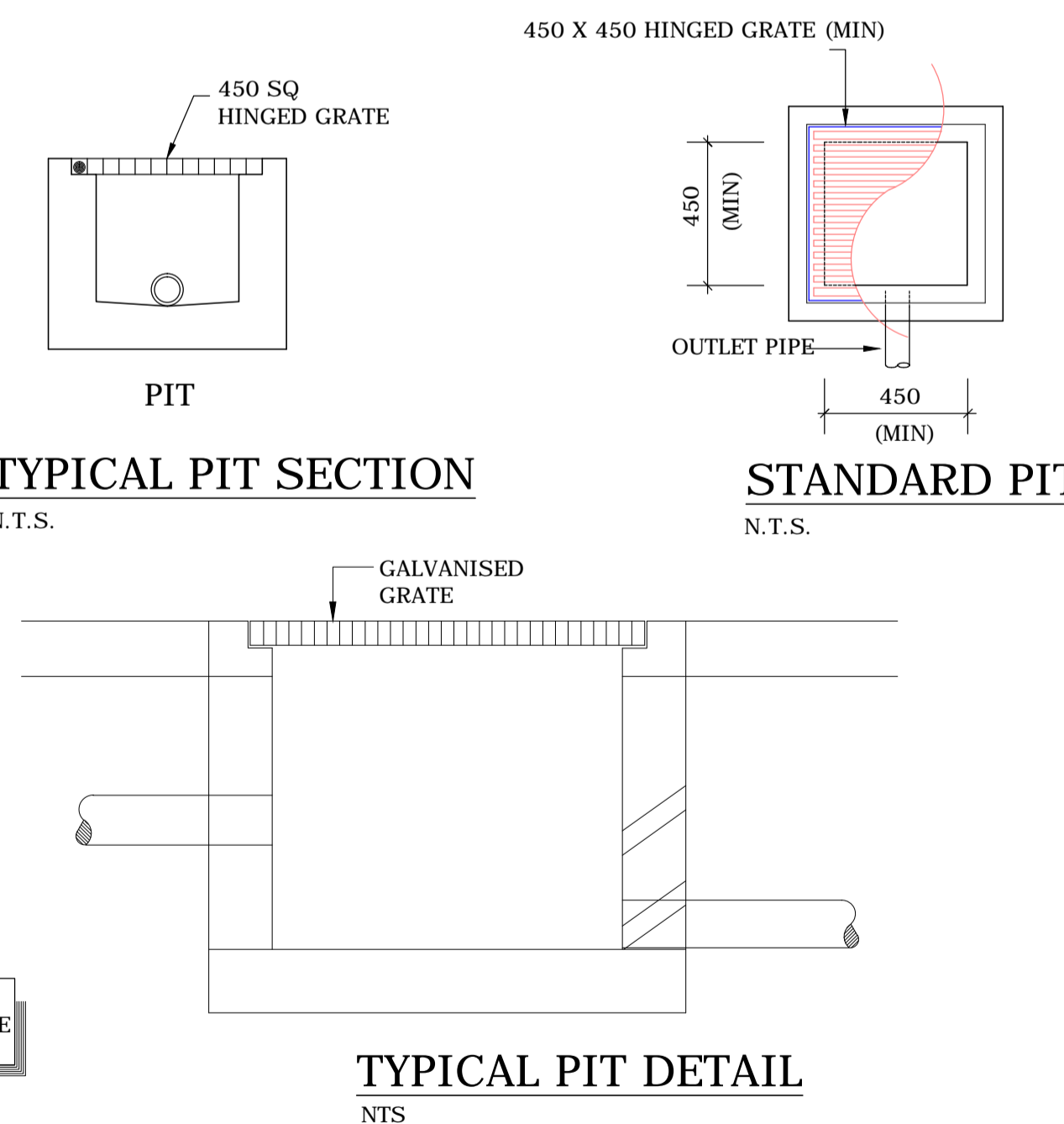
NOTES: DRAINAGE LINES

DRAINAGE LINES SHOWN CONTINUOUS TO COLLECT SURFACE WATER
 DRAINAGE LINES SHOWN DASHED TO COLLECT ROOF WATER ONLY TO RAINWATER TANK

DP : 1000 DOWN PIPE U.N.O.
 --- : STORMWATER PIPE @1% MIN. U.N.O.
 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
 P6 : 4500 RCP PIPE AT 0.4% MIN. GRADE

* NEW LEVEL
 + EXISTING LEVEL

PROVIDE 150mm GAP UNDER THE FENCE AND IF BLOCK WALL PROVIDED, THEN PROVIDE OPENING FOR EMERGENCY OVERFLOW.



SITE OF WORK

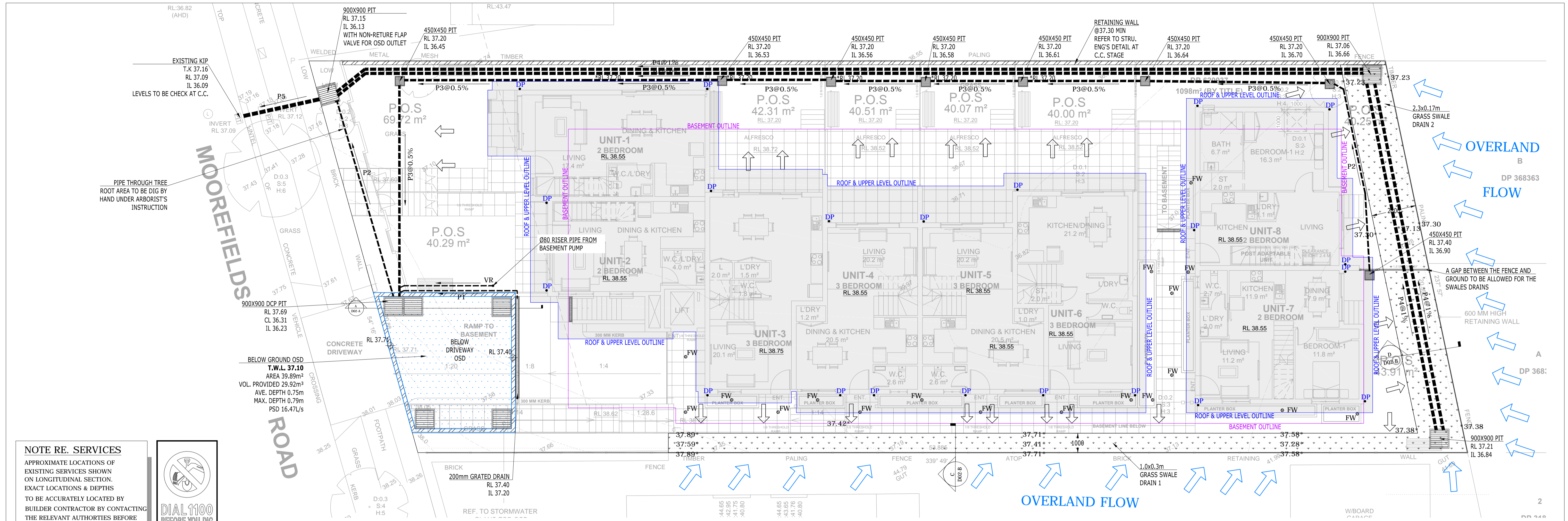


LOCALITY SKETCH
NOT TO SCALE

NOT FOR CONSTRUCTION

A1 1 2 3 4 5 6 7 8 9 10

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<p>DATE MAR 21</p>		<p>DRAWN L.Y.</p>		<p>DESIGNED L.Y.</p>		<p>CHECKED N.L.</p>		<p>SCALE @ A1 N.T.S.</p>		<p>JOB No 17NL265</p>			
<p>AMENDMENT</p>		<p>ENG DRAFT DATE</p>		<p>AMENDMENT</p>		<p>ENG DRAFT DATE</p>		<p>AUTHORISED NERMEIN LOKA</p>		<p>DWG No DO0</p>		<p>REV A</p>	



GROUND FLOOR/SITE STORMWATER DRAINAGE PLAN
SCALE 1:100

NOTE RE. SERVICES
APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN ON LONGITUDINAL SECTION. EXACT LOCATIONS & DEPTHS TO BE ACCURATELY LOCATED BY BUILDER CONTRACTOR BY CONTACTING THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORKS



- SYMBOLS**
- F.F.L. FINISHED FLOOR LEVEL
 - T.K. TOP OF KERB
 - RL PIT SURFACE LEVEL
 - IL INVERT LEVEL
 - SSD SUBSOIL DRAINAGE PIPE
 - STORMWATER DRAINAGE PIPE
 - DOWNPIPE TO RAINWATER TANK
 - DP 100Ø DOWN PIPE (U.N.O.)
 - VD VERTICAL DROP PIPE
 - VR VERTICAL RISER
 - IO INSPECTION OPENING
 - MASONRY RETAINING WALL
 - FW FLOOR WASTE 150Ø
 - DDO DISH DRAIN OUTLET 100Ø
 - GRATED INLET PIT
 - GRATED DRAIN
 - OVERLAND FLOW PATH
 - SPREADER
 - ES EMERGENCY SPITTER

NOTE:

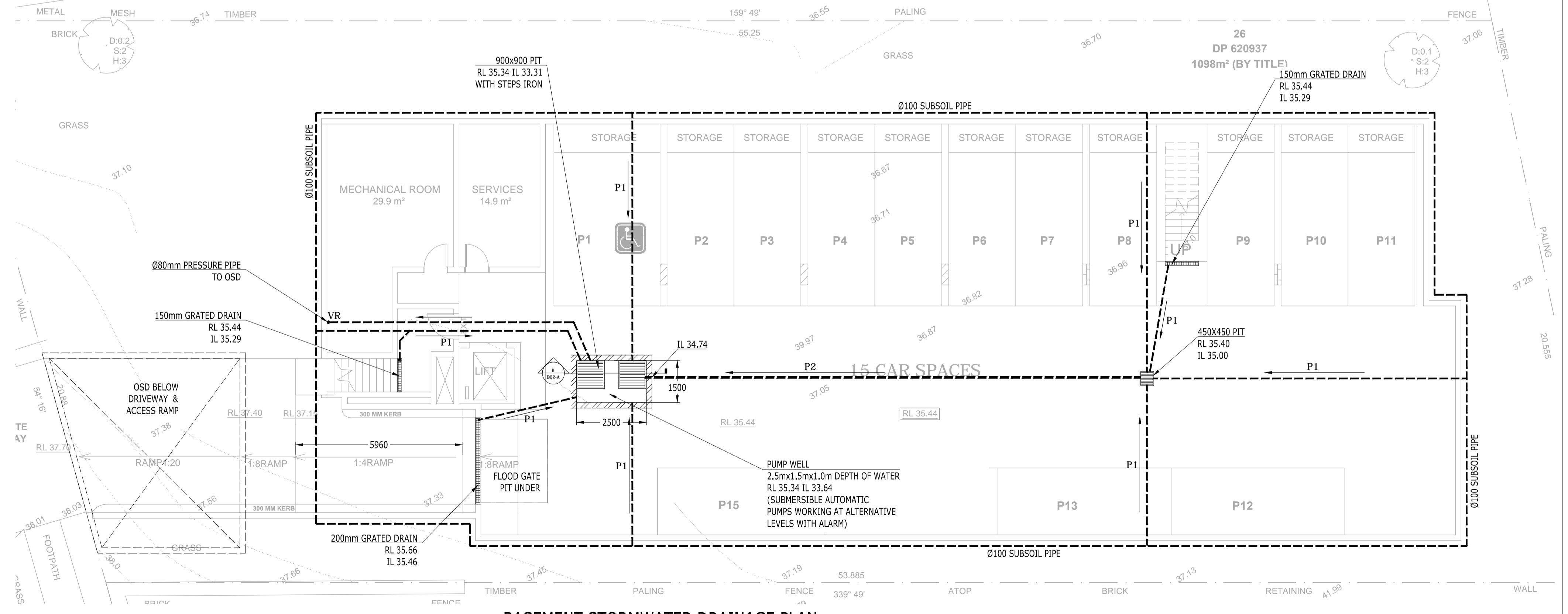
- FLOOR WASTE (FW) AND DOWNPIPES (DP) SHOWN ARE FOR INDICATIVE PURPOSE ONLY CONNECTING TO OSD'S DCP. DETAILS TO PROVIDED AT C.C STAGE.
- ALL BOUNDARY FENCE AND POS FENCE TO PROVIDE MINIMUM 100mm UNDER.

NOTES: DRAINAGE LINES
DRAINAGE LINES SHOWN CONTINUOUS TO COLLECT SURFACE WATER
DRAINAGE LINES SHOWN DASHED TO COLLECT ROOF WATER ONLY TO RAINWATER TANK

DP : 100Ø DOWN PIPE U.N.O.
STORMWATER PIPE @1% MIN. U.N.O.
REFER TO AS.3500 PART 3 TABLE 7.2
P1 : 100Ø UPVC PIPE AT 1.0% MIN. GRADE
P2 : 150Ø UPVC PIPE AT 1.0% MIN. GRADE
P3 : 225Ø UPVC PIPE AT 0.5% MIN. GRADE

NOTES: COUNCIL ISSUED FOOTWAY DESIGN LEVELS
COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL
NOTES: ROAD RESERVE & FOOTWAY DRAINAGE ELEMENTS
ALL STORMWATER DRAINAGE ELEMENTS PROPOSED WITHIN THE ROAD RESERVE AND FOOTWAY SHALL BE CONSTRUCTED UNDER THE SUPERVISION AND TO THE SATISFACTION OF COUNCIL'S ENGINEER.

NOT FOR CONSTRUCTION



BASEMENT STORMWATER DRAINAGE PLAN
SCALE 1:100

No	AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE
D	FOR D.A. APPROVAL	N.L.	Y.L.	28-10-2021					
C	FOR D.A. APPROVAL	J.P.	W.H.	29-03-2021					
B	FOR D.A. APPROVAL	J.P.	J.P.	25-03-2021					
A	FOR D.A. APPROVAL	N.L.	L.Y.	13-12-2017					

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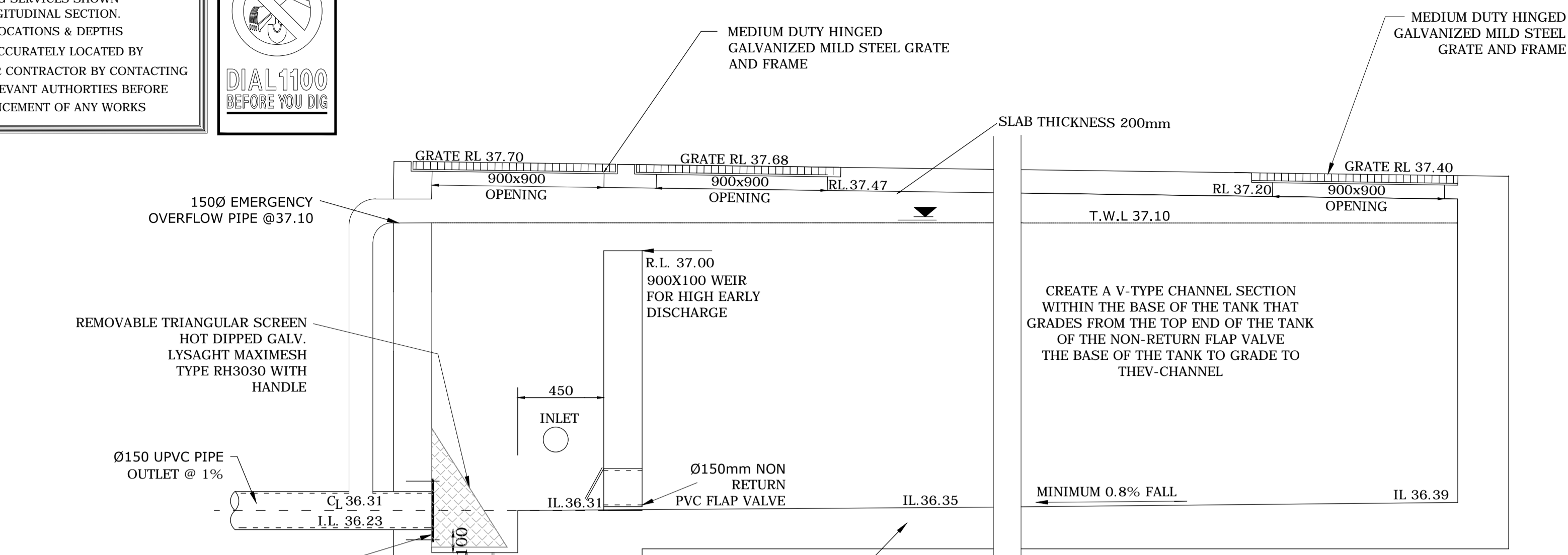
LOKA CONSULTING ENGINEERS PTY LTD
14/4/8 AVENUE OF AMERICAS, NEWINGTON, NSW
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MOBILE: 0400 142 063 EMAIL: info@loka.com.au

PROJECT: PROPOSED TOWNHOUSES
26 MOOREFIELDS ROAD, KINGSGROVE, NSW
CONSENT AUTHORITY: CANTERBURY-BANKSTOWN COUNCIL

SHEET SUBJECT: BASEMENT & GROUND FLOOR / SITE STORMWATER DRAINAGE PLAN

PROJECT	26 MOOREFIELDS ROAD, KINGSGROVE, NSW		
DATE	OCT 21	DESIGNED	N.L.
SCALE @ A1	1:100 U.N.O.	CHECKED	N.L.
JOB No	17NL265		
AUTHORISED	NERMEIN LOKA	DWG No	DO1
REV	D		

NOTE RE. SERVICES
APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN ON LONGITUDINAL SECTION. EXACT LOCATIONS & DEPTHS TO BE ACCURATELY LOCATED BY BUILDER CONTRACTOR BY CONTACTING THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORKS

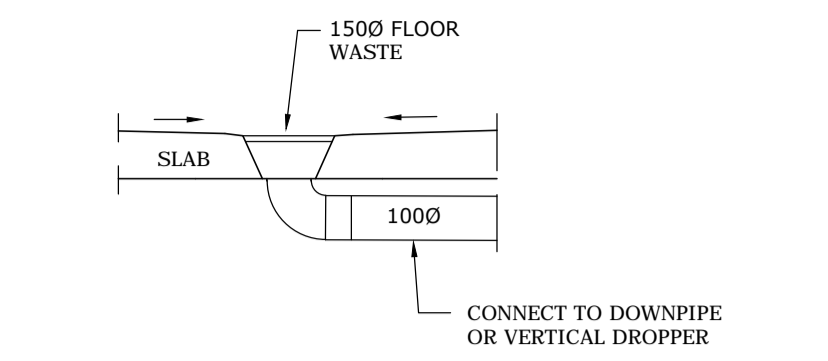


TYPICAL SECTION THROUGH OSD

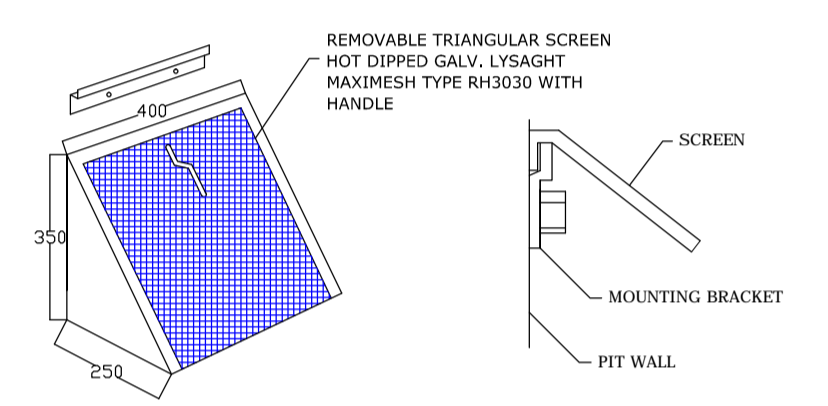
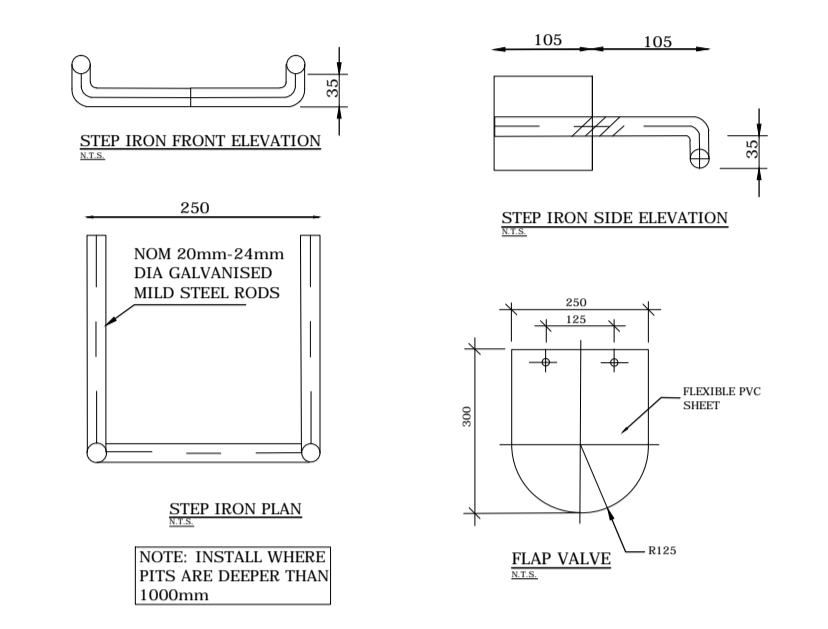
CANTERBURY COUNCIL				
Address: 26 MOOREFIELDS ROAD, KINGSGROVE				
	Area (m ²) =	1097.70	OSD	
	C (10yrs) ARA 1987 p307 =	0.86		
	C (100yrs) ARAR 1987 p307 =	1.03		
	PSD (L/s) =	16.47	(150/10,000 x Area)	
Storm Duration T (min)	I 100 yrs (mm/hr)	V of Hydrograph (m ³)	Inflow Peak discharge (L/s)	Required Storage (m ³)
5	214	20.16	67.21	15.22
6	204	23.06	64.07	17.14
7	195	25.72	61.24	18.81
8	187	28.19	58.73	20.29
9	179	30.36	56.22	21.47
10	172	32.41	54.02	22.53
11	165	34.20	51.82	23.33
12	159	35.95	49.94	24.10
13	153	37.48	48.05	24.64
14	148	39.04	46.48	25.21
15	143	40.42	44.91	25.60
16	139	41.91	43.65	26.10
17	134	42.93	42.08	26.13
18	130	44.09	40.83	26.31
20	123	46.36	38.63	26.60
25	108	50.88	33.92	26.18
30	96.7	54.67	30.37	25.03
35	87.8	57.91	27.57	23.33
40	80.7	60.83	25.34	21.31
45	74.8	63.43	23.49	18.97
50	69.9	65.86	21.95	16.46
55	65.7	68.09	20.63	13.76
60	62.1	70.21	19.50	10.94

Storage m ³ =	26.60	As determined from above
Head in 1:100 (m) =	0.79	
PSD (L/s) =	16.47	
Diameter (mm) =	93.06	

OSD CALCULATION



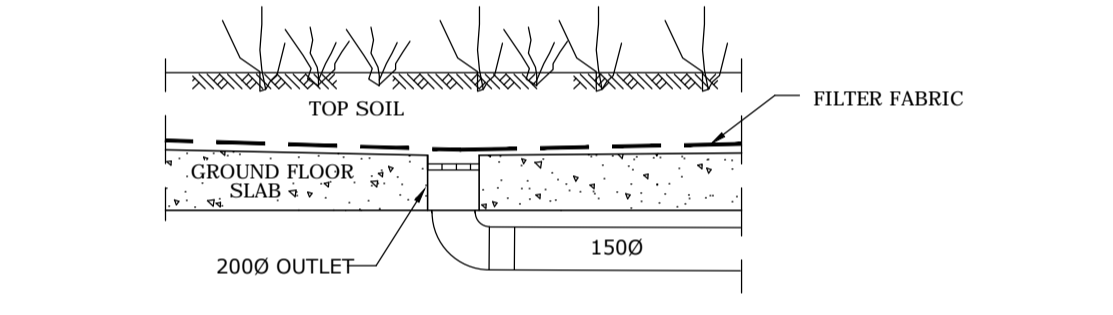
TYPICAL FLOOR WASTE 'FW' DETAIL



MULTI PURPOSE FILTER SCREEN



COLOURS: 'DANGER' AND BACKGROUND WHITE; ELLIPTICAL AREA RED; RECTANGLE CONTAINING ELLIPSE BLACK; OTHER LETTERING AND BORDER BLACK; MATERIALS POLYPROPYLENE; CONFINED SPACE WARNING SIGN N.T.S.



TYPICAL LANDSCAPING AREA FLOOR WASTE DETAIL

NOTE - ALL PLANTING AREAS OVER BASEMENT TO HAVE ADEQUATE FLOOR WASTES INSTALLED

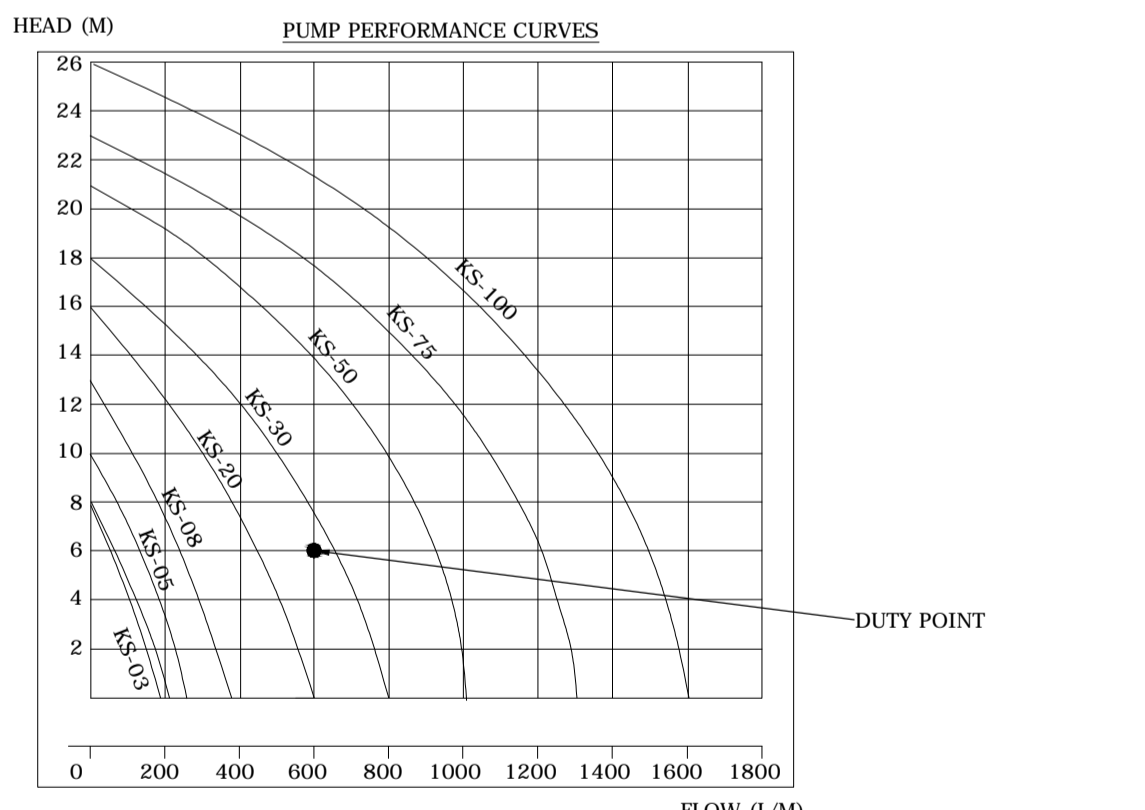
WARNING
PUMP OUT SYSTEM FAILURE IN BASEMENT WHEN LIGHT IS FLASHING AND SIREN SOUNDING

BASEMENT PUMP OUT FAILURE WARNING SIGN

NOTE: 1- SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT. COLOURS: - WARNING - RED; BORDER AND OTHER COLOURING - BLACK. NOTE: A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC). AS SHOWN ABOVE.

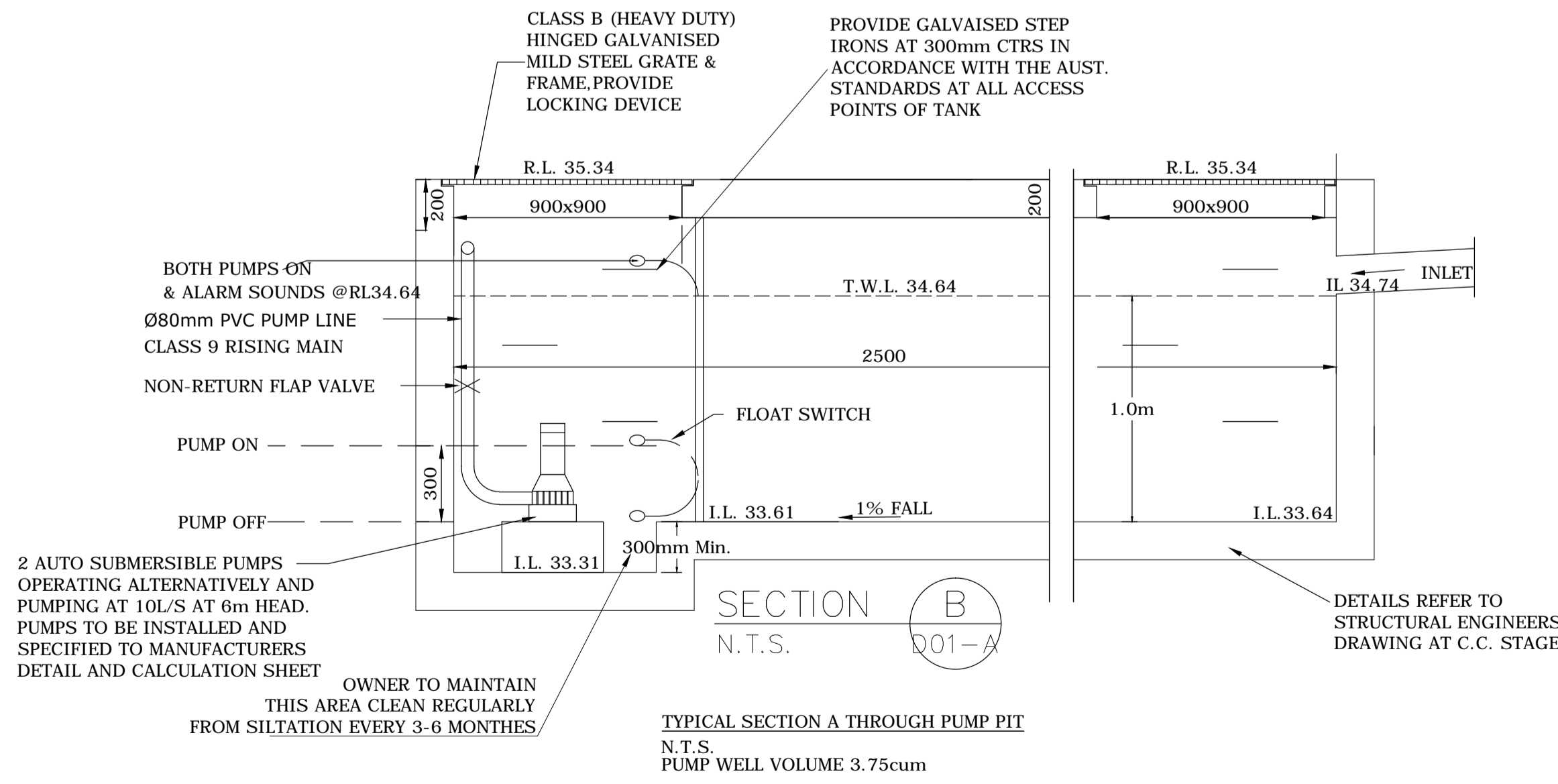
PUMP SPECIFICATIONS

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



Type	Output		Outlet		Rated Head Capacity		Maximum Head Capacity		Weigh Kg	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM		L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	380	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	230	11	208	140	359
KS-05	1/2	0.4	50	2"	5	150	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

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TYPICAL SECTION A THROUGH PUMP PIT

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PROJECT: PROPOSED TOWNHOUSES
26 MOOREFIELDS ROAD, KINGSGROVE, NSW
CONSENT AUTHORITY: CANTERBURY-BANKSTOWN COUNCIL

SHEET SUBJECT: SITE STORMWATER DRAINAGE DETAILS & BASEMENT PUMP DETAILS

PROJECT	26 MOOREFIELDS ROAD, KINGSGROVE, NSW		
DATE	OCT 21	DESIGNED	J.P.
SCALE @ A1	N.T.S.	CHECKED	N.L.
AUTHORISED	NERMEIN LOKA	JOB No	17NL265
DWG No	D02-A	REV	C

CATCHMENT
AREA 1 =
5000 m³

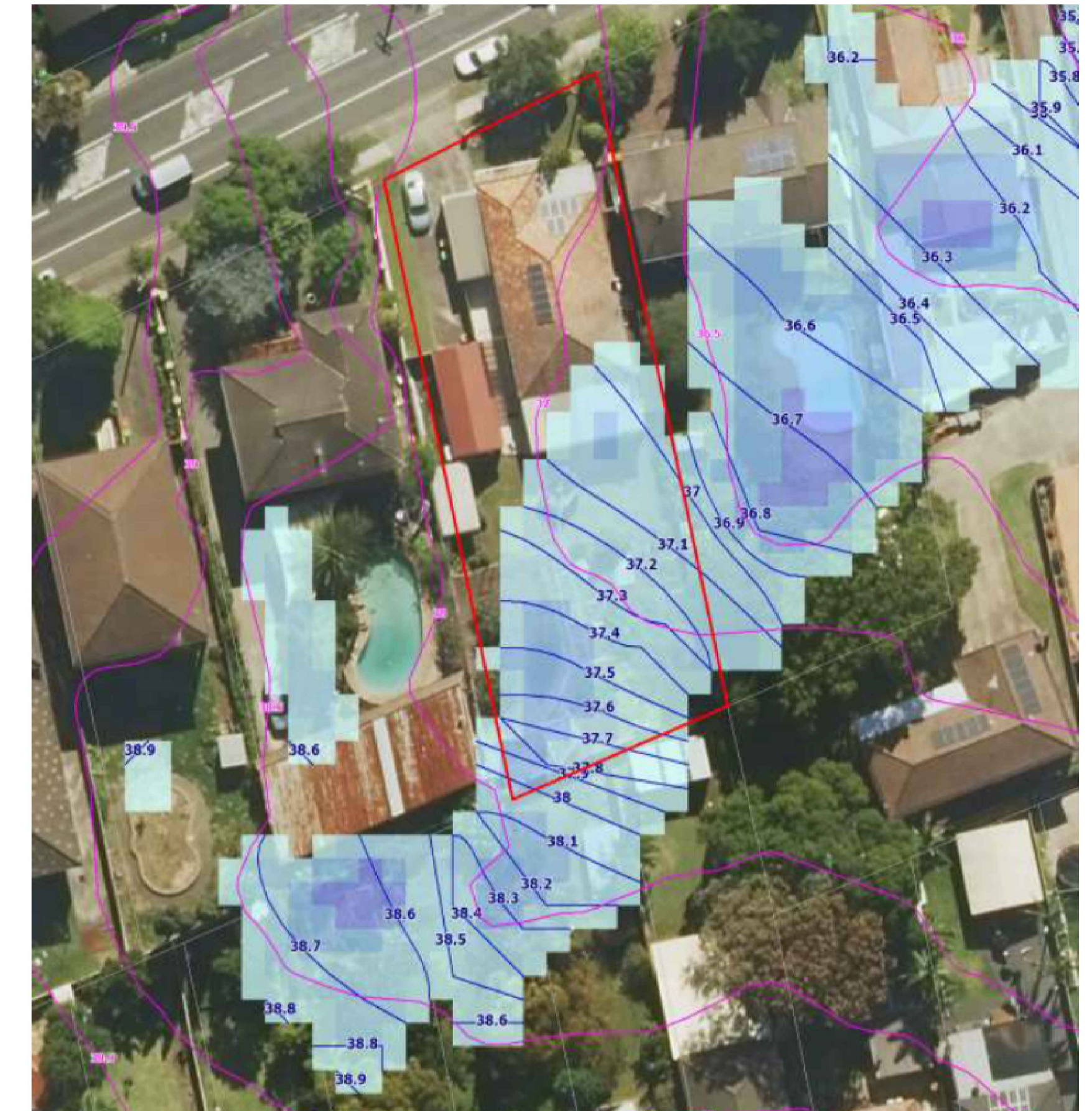
TOTAL
CATCHMENT
AREA =
11000 m³



CATCHMENT AREA FOR DESIGN OF SWALE DRAINS
N.T.S.

SUBJECT
SITE

NOTE RE. SERVICES
APPROXIMATE LOCATIONS OF
EXISTING SERVICES SHOWN
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EXACT LOCATIONS & DEPTHS
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BUILDER CONTRACTOR BY CONTACTING
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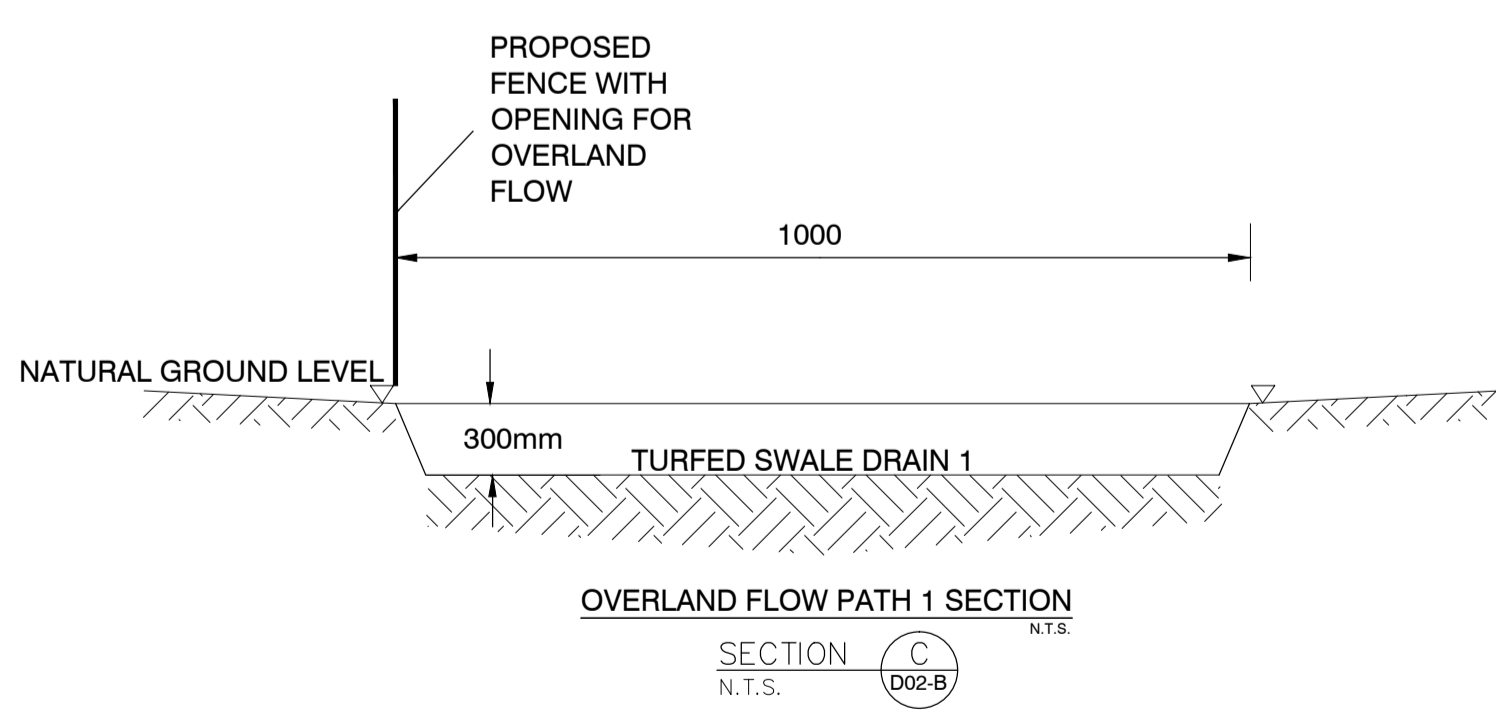


100YR ARI FLOOD MAP FOR THE SUBJECT SITE
N.T.S.

DESIGN SUMMARY

OVERLAND FLOW PATHS HAVE BEEN DESIGNED TO DIRECT THE OVERLAND FLOW FLOOD ENTERING THE SUBJECT SITE FROM THE SOUTH-WEST DIRECTION. THE CATCHMENT HAS BEEN DIVIDED INTO TWO SUB-CATCHMENTS. THE FIRST SUB-CATCHMENT AREA WAS USED IN THE DESIGN OF THE FIRST SWALE DRAINS, AND THE TOTAL CATCHMENT AREA WAS USED IN THE DESIGN OF THE SECOND SWALE DRAINS. THE FIRST OVERLAND FLOW PATH HAS BEEN DESIGNED AS 1000X300MM ALONG THE WESTERN BOUNDARY, AND THE SECOND OVERLAND FLOW PATH HAS BEEN DESIGNED AS 2300X170MM WITH A STORMWATER SYSTEM CONSISTING OF TWO 900X900MM PITS AND TWO 300Ø UPVC PIPES ALONG THE SOUTHERN BOUNDARY.

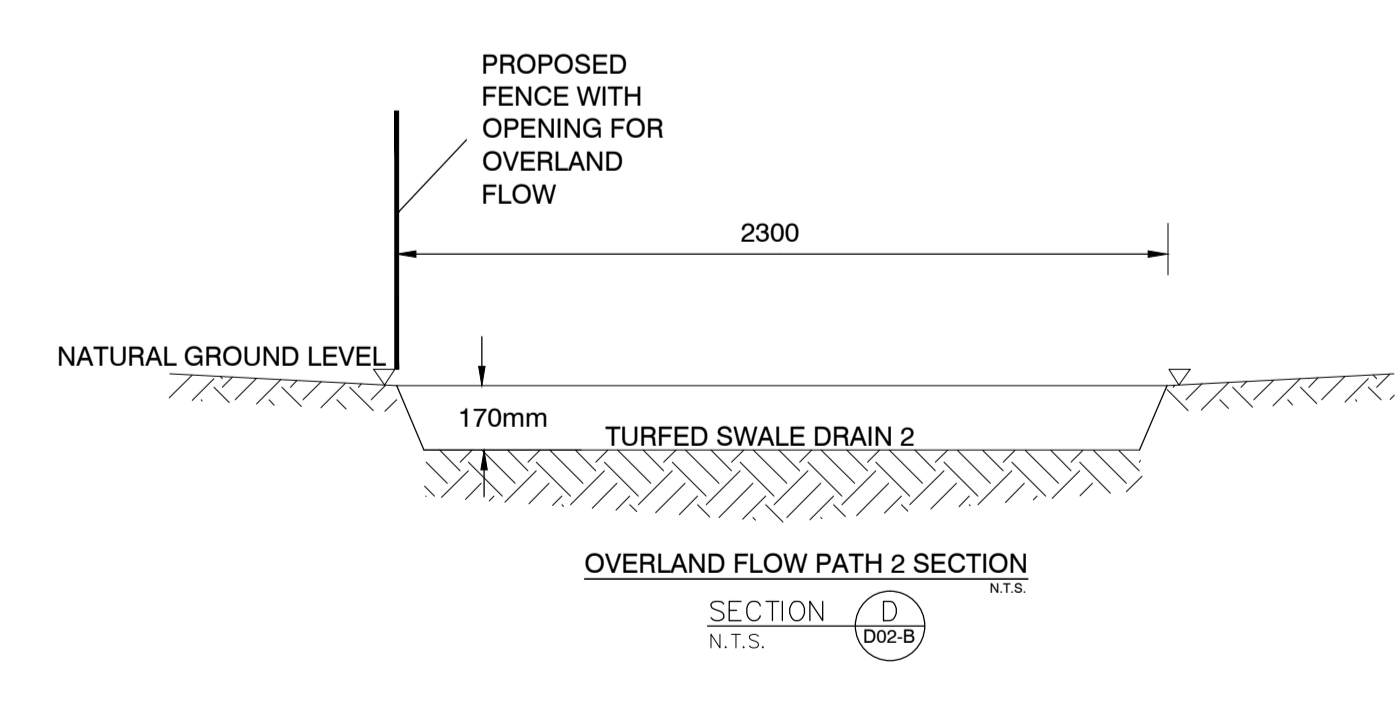
THE OVERLAND FLOW WATER WILL EVENTUALLY BE DIRECTED TO THE BOUNDARY PIT, AND THEN TO THE EXISTING KERB INLET PIT ON MOOREFIELDS ROAD.



OVERLAND FLOW PATH 1 SECTION
SECTION C
N.T.S. (D02-B)

UPSTREAM CATCHMENT AREA	0.5 ha
100 YR 5MIN STORM	214 mm/hr
Q100	267.714 L/s
W	1 m
D	0.3 m
CROSS SECTION AREA	0.3 m ² A
CHANNEL SLOPE	0.01 m/m S
WETTED PERIMETER	1.6 m P
HYDRAULIC RADIUS	0.1875 R
ROUGHNESS PARAMETER	0.035 grass n
Q	280.794 L/s

CHECK YES
OVERLAND FLOW PATH 1 CALCULATION



OVERLAND FLOW PATH 2 SECTION
SECTION D
N.T.S. (D02-B)

UPSTREAM CATCHMENT AREA	1.1 ha
100 YR 5MIN STORM	214 mm/hr
Q100	588.971 L/s
W	2.3 m
D	0.17 m
CROSS SECTION AREA	0.391 m ² A
CHANNEL SLOPE	0.01 m/m S
WETTED PERIMETER	2.64 m P
HYDRAULIC RADIUS	0.14811 R
ROUGHNESS PARAMETER	0.035 grass n
Q	312.721 L/s

DIFFERENCE	276.25 L/s
1 X P4 (UPVC) FLOW CAPACITY	140 L/s
REQUIRED 2 X P4 (UPVC) PIPES	280 L/s
CHECK	YES

OVERLAND FLOW PATH 2 CALCULATION

NOT FOR CONSTRUCTION

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PROJECT	PROPOSED TOWNHOUSES 26 MOOREFIELDS ROAD, KINGSGROVE, NSW
SHEET SUBJECT	CATCHMENT AREA AND SWALE DRAINS DETAILS
PROJECT	26 MOOREFIELDS ROAD, KINGSGROVE, NSW
DATE	OCT 21
DESIGNED	Y.L.
CHECKED	N.L.
SCALE @ A1	N.T.S.
JOB No	17NL265
AUTHORISED	NERMEIN LOKA
DWG No	D02-B
REV	A

FOR D.A. APPROVAL	N.L.	Y.L.	29-10-2021
AMENDMENT	ENG	DRAFT	DATE

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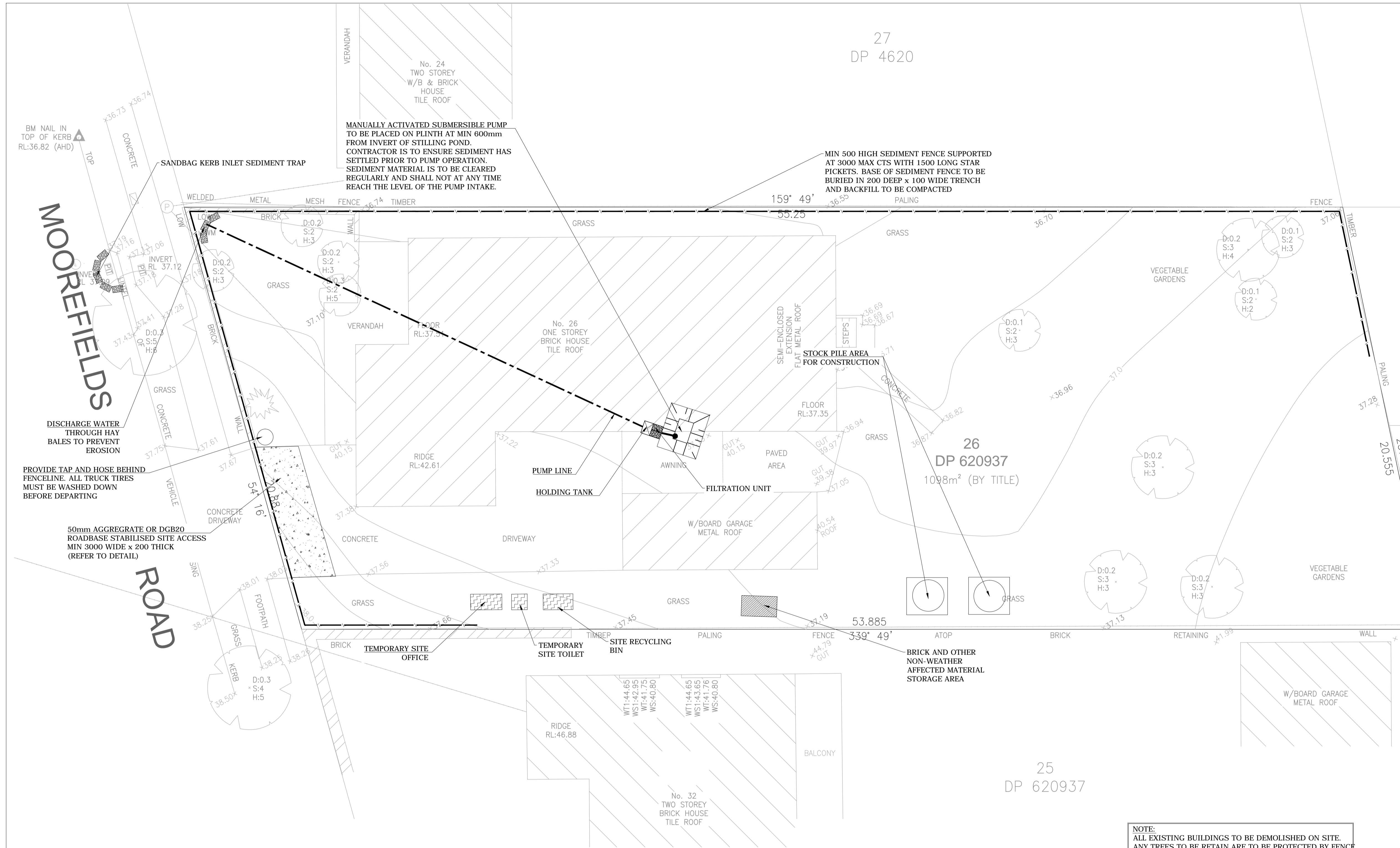
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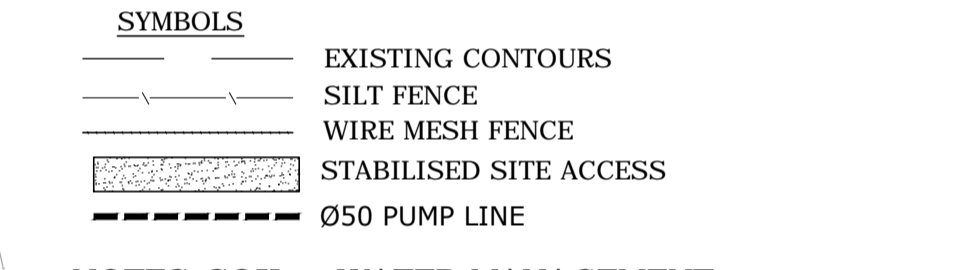
PROJECT
PROPOSED TOWNHOUSES
26 MOOREFIELDS ROAD,
KINGSGROVE, NSW

SHEET SUBJECT
CATCHMENT AREA AND
SWALE DRAINS DETAILS

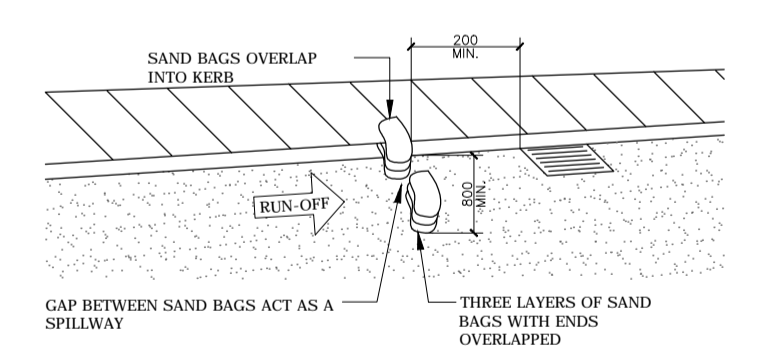
PROJECT	26 MOOREFIELDS ROAD, KINGSGROVE, NSW
DATE	OCT 21
DESIGNED	Y.L.
CHECKED	N.L.
SCALE @ A1	N.T.S.
JOB No	17NL265
AUTHORISED	NERMEIN LOKA
DWG No	D02-B
REV	A



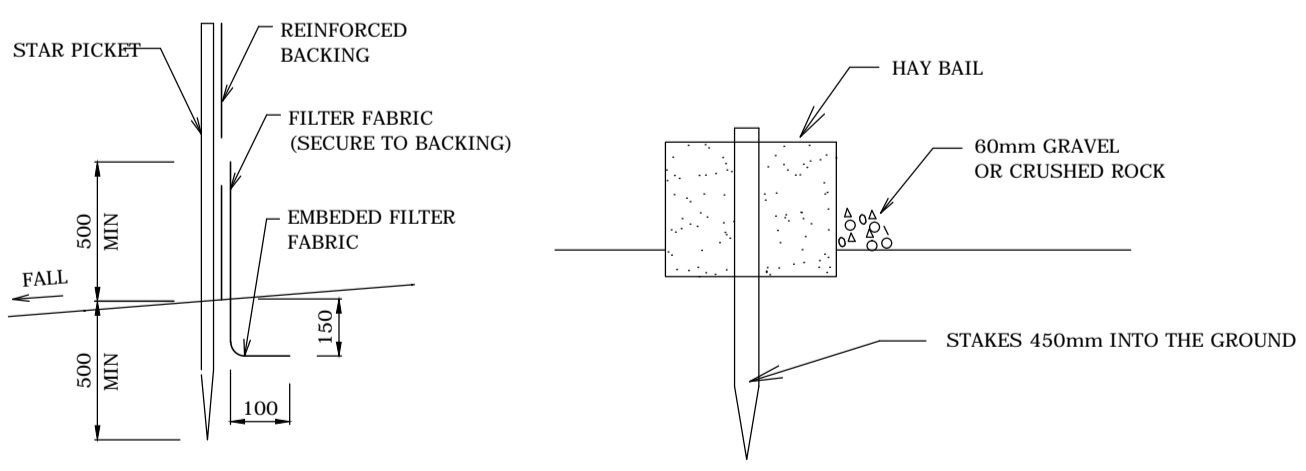
- ### EROSION CONTROL NOTES
- ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, 3RD EDITION' PRODUCED BY THE NSW DEPARTMENT OF HOUSING.
 - ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
 - 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.
 - STABILISE/REVEGETATE ALL DISTURBED AREAS PROGRESSIVELY WHERE PRACTICAL.
 - INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER.
 - ADDITIONAL VEHICLES MUST PARK ON ROAD AND NOT FOOTPATH. PUBLIC FOOTPATH ADJACENT TO SITE MUST NOT BE OBSTRUCTED AND MUST BE SAFE FOR PEDESTRIAN ACCESS.
 - ENSURE FENCE IS KEYS AT BOTH ENDS INTO GROUND, WITH BASE TURNED UPSLOPE.
 - WHERE SEDIMENT FENCE IS NEAR STREET, ERECT FENCE WITHIN DEVELOPMENT SIDE OF TURF FILTER STRIPS AND PROPERTY BOUNDARY.
 - SEDIMENT FENCE FILTER CLOTH TO BE FASTENED SECURELY TO WIRE FENCE WITH TIES SPACED EVERY 600MM. OVERLAP ADJOINING FILTER CLOTH BY 150MM AND FOLDING OVER.
 - DIVERT UPSLOPE WATER AROUND WORK SITE AND STABILISE CHANNELS.
 - LAY KERB-SIDE TURF FILTER STRIP TO TRAP EXCESS SEDIMENT.
 - CONTAMINATED WATER WITH SEDIMENT FROM A SEDIMENT BASIN OR EXCAVATION PIT IS TO BE FLOCCULATED/FILTERED TO LOWER SUSPENDED SOIL LOAD TO LESS THAN 50 MILLIGRAMS PER LITRE.
 - SOIL, SAND AND GRAVEL ARE NOT TO BE STOCKPILED ON ROADWAYS OR IN DRAINAGE AREAS.
 - WASH AREA MUST BE SLIGHTLY DEPRESSED TO COLLECT WASTE MATERIAL.
 - APPLY DUST CONTROL MEASURES TO REDUCE SURFACE AND AIRBORNE MOVEMENT OF SEDIMENT
 - 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.



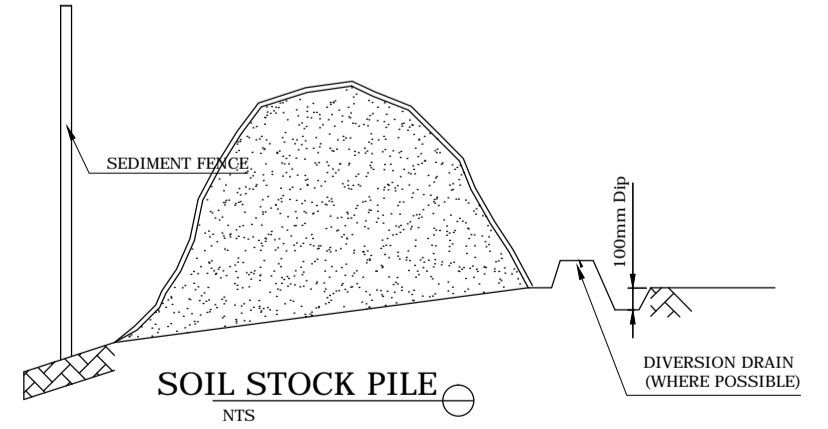
- ### NOTES: SOIL & WATER MANAGEMENT
- ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED, MAINTAINED AND LOGGED DAILY BY SITE MANAGER.
 - MINIMISE DISTURBED AREAS.
 - ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
 - NO MATERIAL TO BE STORED ON FOOTPATH.
 - STOCKPILE LASTING LONGER THAN 40 DAYS MUST BE COVERED.
 - DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
 - ROADS AND FOOTPATH TO BE SWEEP DAILY.
 - ENSURE NEIGHBOURING PROPERTY IS NOT FLOODED.
 - IF YOU DO NOT COMPLY, YOU MAY BE LIABLE TO A \$1500 FINE.



SANDBAG KERB INLET SEDIMENT TRAP NTS

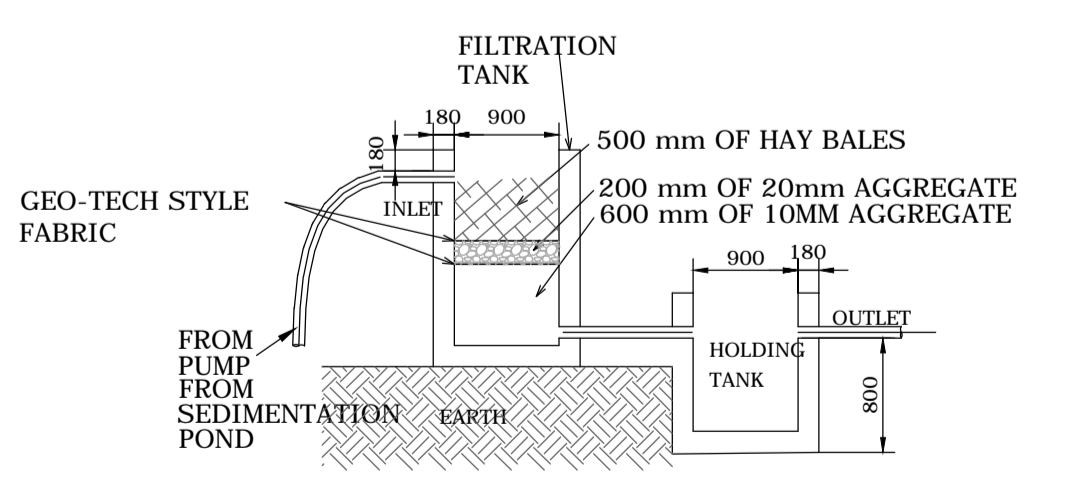
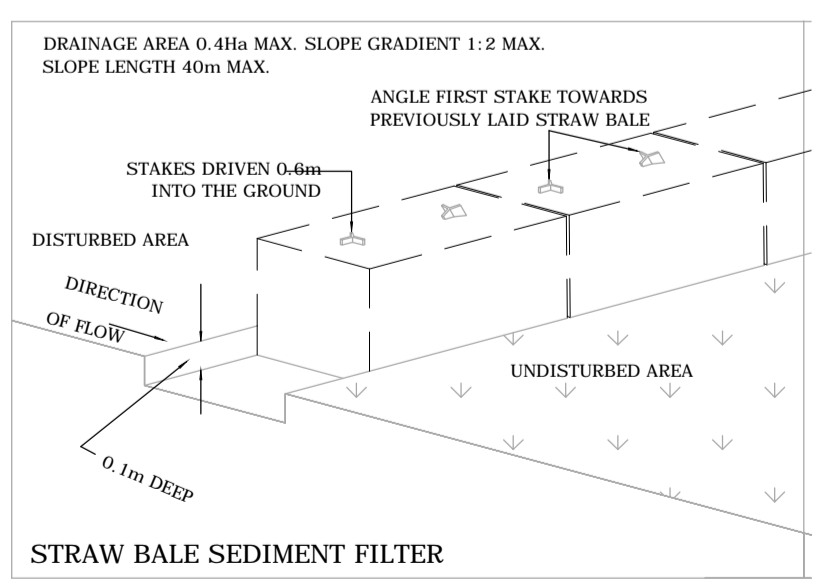
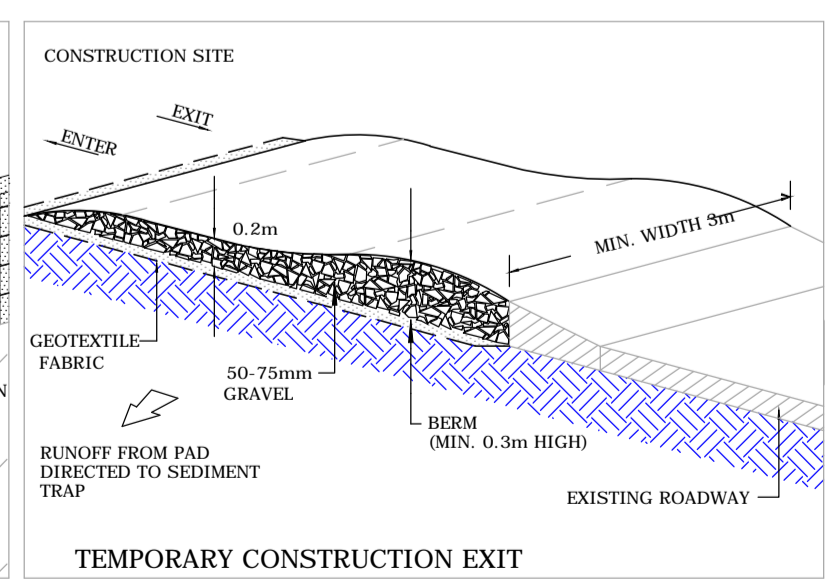
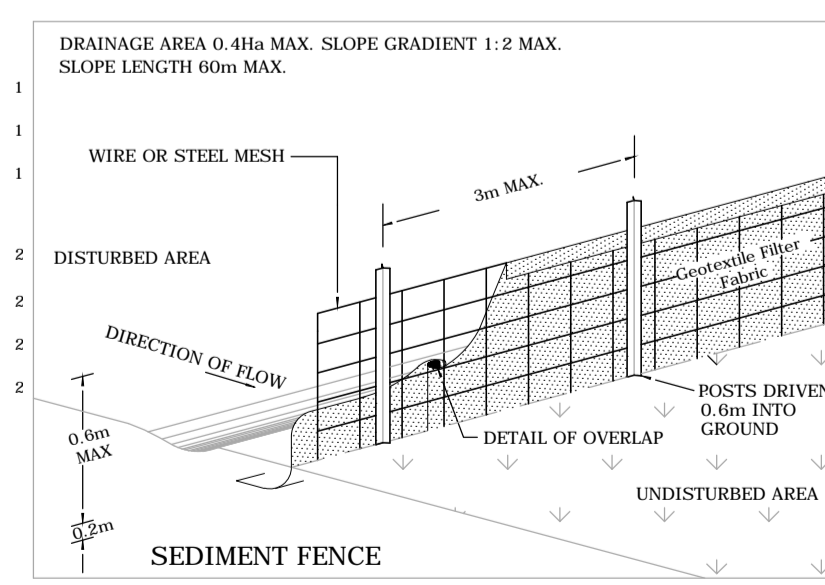


SILT FENCE DETAIL HAY BAIL DETAIL TO BE USED AS REQUIRED



EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:150



TYPICAL DETAIL OF FILTRATION UNIT NTS

NOTE: HAY TO BE CHANGED EVERY DAY
GEO-TECH, SAND, AND BLUE METAL, TO BE CHANGED WEEKLY

NOT FOR CONSTRUCTION

A1		1	2	3	4	5	6	7	8	9	10
No	AMENDMENT	ENG	DRAFT	DATE	No	AMENDMENT	ENG	DRAFT	DATE		
A	FOR D.A. APPROVAL	N.L.	L.Y.	13-12-17							

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PROJECT
PROPOSED TOWNHOUSES
26 MOOREFIELDS ROAD,
KINGSGROVE, NSW

CONSENT AUTHORITY:
CANTERBURY-BANKSTOWN COUNCIL

SHEET SUBJECT
EROSION AND SEDIMENT CONTROL PLAN AND DETAILS

PROJECT 26 MOOREFIELDS ROAD, KINGSGROVE, NSW			
DATE	DRAWN	DESIGNED	CHECKED
DEC 17	L.Y.	L.Y.	N.L.
SCALE @ A1		JOB No	
AS SHOWN		17N1265	
AUTHORISED		DWG No	REV
NERMEIN LOKA		D03	A