STORMWATER MANAGEMENT PLAN 84 CORRIEDALE DRIVE, MARULAN NSW 2579



DWG No.	
21060-D-000	COVER S
21060-D-001	SPECIFIC
21060-D-101	EROSION
21060-D-102	EROSION
21060-D-200	STORMW
21060-D-201	STORMW
21060-D-601	TYPICAL

LOCALITY PLAN
NTS

REV. NO.	DESCRIPTION TO REVISION	REV. BY	DATE	GENERAL NOTES		:: ARCHITECTURAL DESIGNERS	:: LEVEL 1, 3A/549-553 WOODVILLE RD GUILDFORD NSW 2161	CUSTOMER	
A	ISSUE FOR DA	K.A	21.05.2024	Figured dimensions & larger scale drawings shall be taken in preference to scaled readings.	Copyright of the material shown hereon & in the accompanying CAD files / drawing sheets vests with	:: NATHERS & BASIX ASSESSORS :: CONSTRUCTION CERTIFICATES	:: TEL: 02 80056525 :: MOB: 04 04 422 444		MR OSCAR MERHEBI
				 Check all dimensions and levels on site before 	AKT Engineering& Consulting P/L.	:: ACCREDITED CERTIFIERS :: PROJECT MANAGERS	WWW.AKTENGINEERING.COM.AU INFO@AKTENGINEERING.COM.AU		
				commencement of work or ordering materials.	AKT Engineering&Consulting P/L warrants only the original architectural data as retained by the		KHALED@AKTENGINEERING.COM.AU	PROJECT	
				All workmanship and materials shall comply with all	company.				84 CORRIEDALE DR, MARULAN NSW 2579
				manufacturer's instructions.	approval of AKT Engineering&Consulting P/L.				
				All discrepancies shall be brought to the attention of	The responsibility of AKT Engineering&Consulting P/L				
				AKT Enginnering& Consulting P/L	is removed if these conditions are not observed.	ENGINEERING 8	CONSULTING P/L	-	

DRAWING SCHEDULE

DRAWING TITLE

SHEET, LOCALITY PLAN & DRAWING SCHEDULE

CATION NOTES SHEET

AND SEDIMENT PLAN

I AND SEDIMENT DETAILS PLAN

VATER MANAGEMENT PLAN - CATCHMENT PLAN

VATER MANAGEMENT PLAN

STORMWATER DETAILS



DEVELOPMENT APPLICATION

GENERAL NOTES

BUILDER/ARCHITECT AT TIME OF CONSTRUCTION & IN ACCORDANCE WITH

ARCHITECTURAL /OTHER CONSULTANTS DRAWINGS /SPECIFICATIONS AND

DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE

DRAWINGS, AND THEIR ASSOCIATED CONSULTANT'S DRAWINGS IS NOT TO

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS/NZS

PROCEEDING WITH ANY RELATED WORK.CONSTRUCTION FROM THESE

SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT .ANY

LOCATION OF DOWNPIPES & FLOOR WASTE TO BE DETERMINED BY

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL

COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.

BEFORE PROCEEDING WITH RELATED WORK.

AND DIMENSIONS ARE IN MILLIMETERS.

UNLESS NOTED OTHERWISE

ENGINEERING & CONSULTING

ON-SITE DETENSION NOTE:

THE OSD BASIN/TANK IS TO BE BUILT TO

THE CORRECT LEVEL & SIZE AS PER THIS

DONE UNDER CONSULTATION FROM OUR

DESIGN. ANY VARIATIONS ARE TO BE

OFFICE ONLY. ANY AMENDMENTS

WITHOUT OUR APPROVAL WOULD

RESULT IN FEES ADDITIONAL FOR

REDESIGN AT OC STAGE OR IF A

RECONSTRUCTION IS THE UNDER

REQUIRED CONTRACTOR'S EXPENSES

SOLUTION CANNOT BE FOUND,

THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

3500.3:2021 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL

POLICY/CONSENT/REQUIREMENTS. ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT

ALL SET OUT DIMENSIONS /LEVELS SHALL BE VERIFIED BY BUILDER AND

SHALL BE REFERRED TO THE ARCHITECT AND ENGINEER FOR DECISION

DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A

STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY

BRACING SHALL BE PROVIDED BY THE BUILDER/SUBCONTRACTOR TO KEEP

ALL SURVEY LEVELS / PROPOSED BUILDING / FINISHED SURFACE LEVELS

DRAWINGS BY OTHERS UNLESS NOTED OTHERWISE LEVELS ARE IN METERS

THE ALIGNMENT AND LEVEL OF ALL SERVICES SHOWN ARE APPROXIMATE

ONLY. THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL

SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION, ANY DAMAGE TO

ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT MINIMUM 1% GRADE

THIS PLAN IS THE PROPERTY OF AKT ENGINEERING & CONSULTING AND MAY

NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM AKT

ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL

SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.

SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM

OBTAINED FROM ARCHITECT'S / ENGINEER'S DETAILS. ALL DISCREPANCIES

RELEVANT AUSTRALIAN STANDARDS.

SPECIFICATION

DRAINAGE NOTES

- ALL DRAINAGE LEVELS TO BE CONFIRMED ON SITE, PRIOR TO ANY CONSTRUCTION COMMENCING.
- ALL PIPES WITHIN THE PROPERTY TO BE A MINIMUM OF 100 DIA UPVC @ 1% MINIMUM GRADE. UNO.BEDDING MATERILS TO AS2032 OR 3725 AS APPROPRIATE
- THE MINIMUM PIPE SZE SHALL BE 90mm WHERE RECEIVES ROOF WATER RUNOFF AND 100 mm WHERE RECEIVES RUNGEF FORM PAVED / UNPAVED AREA INSIDE THE PROPERTY WITH MINI MINI VELOCITY SHALL BE 0.6m/s AND MAXIMUM SHALL BE 6m/s IN 1:100 YEARS STORM
- MINIMUM COVER TO PIPES 300mm DIA, AND OVER GENERALLY SHALL BE 450mm IN CARPARK AND 600mm UNDER A SEALED ROADWAY AREAS AND 750 UNDER UNSEALED ROADWAY AREA UNO.
- CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-1989 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY, WHERE INSUFFICIENT COVER IS PROVIDED. THE PIPE SHALL BE COVERED AT LEAST
- 50mm THICK OVERLAY AND SHALL THEN BE PAVED WITH AT LEAST
- 150mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE TRAFFIC 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC
- CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 3.10 OF AS3500.3-2021.
- ABOVE GROUND PIPEWORK SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6 OF AS3500.3-2021
- ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNO.
- ALL PITS WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLOK" OR APPROVED EQUIVALENT GRATES:
- LIGHT DUTY FOR LANDSCAPED AREAS
- HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC
- ALL PITS WITHIN THE PROPERTY TO BE CONSTRUCTED AS ONE OF THE FOLLOWING: PRECAST STORMWATER PITS
- CAST INSITU MASS CONCRETE
- CEMENT RENDERED 230MM BRICKWORK SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION
- ENSURE ALL GRATES TO PITS ARE SET BELOW FINISHED SURFACE LEVEL WITHIN THE PROPERTY. TOP OF PIT RL'S ARE APPROXIMATE ONLY AND MAY BE VARIED SUBJECT TO APPROVAL OF THE ENGINEER ALL INVERTIEVELS ARE TO BE ACHIEVED
- ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING BOLTS AND CONTINUOUS HINGE
- PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH IN ACCORDANCE WITH AS 1657
- THE WIDTH OF CONTINUOUS TRENCH DRAINS SHALL BE NOT LESS THAN 150MM AND DEPTH NOT LESS THAN 100MM. THE BARS OF THE GRATING SHALL BE PARALLEL TO THE DIRECTION OF SURFACE FLOW

PVC PITS ONLY PERMITED WHERE THE DEPTH LESS THAN 450MM

- GRATES ARE TO BE GALVANISED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT TO VEHICLE LOADING
- TRENCH BACK FILL IN ROADWAYS SHALL COMPRISE SHARP, CLEAN GRANULAR BACK FILL IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION TO NON-TRAFFICABLE AREAS TO BE COMPACTED BY RODDING AND TAMPING USING A FLAT PLATE VIBRATOR. WHERE A HIGH EARLY DISCHARGE (HED) PIT IS PROVIDED ALL PIPES ARE TO BE CONNECTED TO THE HED PIT. UNO.



EROSION AND SEDIMENT CONTROL NOTES

- THESE NOTES ARE TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS IN THIS DRAWING SET AND IN ACCORDANCE WITH LOCAL COUNCIL 'S DCP
- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF THE RELEVANT LOCAL AUTHORITY PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT THE RELEVANT LOCAL AUTHORITY APPROVAL, ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS".
- PLACE STRAW BALES LENGTH WISE IN A ROW AS PARALLEL AS POSSIBLE TO THE SITE CONTOURS, UNO, BALE ENDS TO BE TIGHTLY BUTTED, BALES ARE TO BE PLACED SO THAT STRAWS ARE PARALLEL TO THE ROW. BALES ARE TO BE PLACED 1.5M TO 2M DOWNSLOPE FROM THE TOE OF THE DISTURBED BATTER, UNO.

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- COUNCIL APPROVED FILTER FABRIC TO BE ENTRENCHED 150MM DEEP UPSLOPE TOWARDS DISTURBED SURFACE. FABRIC TO BE A MINIMUM SF2000 OR BETTER. FIX FABRIC TO POSTS WITH WIRE TIES OR AS RECOMENDED WITH MANUFACTURER'S SPECIFICATIONS. FABRIC JOINTS TO HAVE A MINIMUM OF 150MM OVERLAP. WIRE TO BE STRUNG BETWEEN POSTS WITH FILTER FABRIC OVERLAP TO PREVENT SAGGING.
- STABALISED ENTRY/EXIT POINTS TO REMAIN INTACT UNTIL FINISHED DRIVEWAY IS COMPLETE. CONSTRUCTION OF ENTRY/EXIT POINTS TO BE MAINTAINED AND REPAIRED AS REQUIRED SO THAT IT'S FUNCTION IS NOT COMPROMISED. CONSTRUCTION OF ENTRY/EXIT POINT TO BE IN ACCORDANCE WITH THE DETAIL CONTAINED WITHIN THIS DRAWING SET.
- ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL DOWNPIPES CONNECTED/PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER
- PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENT IS REVEGETATED OR PAVED.
- THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES SUCH THAT MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.

THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULARLY WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA

TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGELINES, THIS TOPSOIL SHALL BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY. (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS BASINS AND CATCHDRAINS) TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM FROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF.

THE CONTRACTOR SHALL GRASS SEED ALL DISTURBED AREAS WITH AN APPROVED MIX AS SOON AS PRACTICABLE AFTER COMPLETION OF EARTHWORKS AND REGRADING

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				commencement of work or ordering materials.	AKT Engineering&Consulting P/L warrants only the	PROJECT MANAGERO	KHALED@AKTENGINEERING.COM.AU	PROJECT	
				All workmanship and materials shall comply with all	original architectural data as retained by the company.				84 CORRIEDALE DR, MARULAN NSW 2579
				relevant codes, ordinances, Australian standards and	The data files are not to be altered without the written approval of AKT Engineering&Consulting P/I		NKL		
				All discrepancies shall be brought to the attention of AKT Enginnering& Consulting P/L	The responsibility of AKT Engineering&Consulting P/L is removed if these conditions are not observed.	ENGINEERING &	CONSULTING P/L		

OSD RL RRJ RWT RWH RWO SLAP

LEGEND

SEWER ELECTRICITY

WATER GAS MAIN

FENCE

CENTRELINE

RECOMMENDED MAINTENANCE SCHEDULE

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IN HEIGHT DATUM UB SOIL DRAINAGE) RECURRENCE INTERVAL ER ATER LEVEL	
/EL TINSPECTION OPENING E CONTROL PIT	
PIPE IOX GUTTER IOWN PIPE AVES GUTTER	

BOTTOM WATER LEVEL COVER LEVEL CLEAN OUT INSPECTION OPENING DISCHARGE CONTROL PT DOWN PIPE DROPPER PIPE EXISTING DOWN PIPE EXISTING DOWN PIPE EXISTING DOWN PIPE EXISTING AVER GUITTER EXISTING AVER GUITTER EXISTING AVER GUITTER EAVES GUITER FLOOR WASTE FLOOR WASTE GRATED DRAIN GRATED SUBSCHARGE HINSPECTION OPENING OVERFLOW OVERFLOW OVERFLOW ON-SITE DETENTION PERMASSIBLE STED DISCHARGE PERMASSIBLE STED DISCHARGE REINFORCED CONCRETE PIPE RECTANGULAR HOLLOW SECTIC REDUCED LEVEL NUBBER RING JOINT RAINWATER RE-USE TANK RAINWATER RE-USE TANK

SYMBOLS

SURFACE INLET PIT	
SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)	
ACCESS GRATE (WITH ENVIROPOD 200 MICRON)	
ACCESS GRATE (TO HED PIT)	
450 SQUARE INTERVAL	450 X 450
GRATE LEVEL =65.00	SL 65.00
INVERT LEVEL = RL 65.20 PROPOSED DOWNPIPE	IL 65.20
90mm DIA. OR 100mm x 50mm MIN.	DP 90
GRATED TRENCH DRAIN	
ABSORPTION TRENCH	
PROPOSED ROOF GUTTER FALL	
PROPOSED DOWNPIPE SPREADER	⊢● SP
STORMWATER PIPE TO RWT STORMWATER PIPE TO OSD STORMWATER PIPE BYPASSING OSD/RWT	
SUBSOIL PIPE EXISTING STORMWATER PIPE	_a_a_ -⊷≫⊷-
INSPECTION RISER RAINWATER HEAD RETAINING WALL	OIR RWH
COLLECTION PIPE	• CP

ARGE CONTROL PIT (DCP) FREQUENCY RESPONSIBILITY VE GRATE. ENSUF KAGES OR DEBRIS PECT & REMOVE ANY BLOCKAGE OF MONTHLY WNER MOVE GRATE & SCREEN TO INSPECT ORIFICE. SEE PLAN FOR LOCATION OF D WNER OVE GRATE AND SCREEN. I TICE AND FLAP VALVE CLEA ELDS) DAMAGE ON BECONNEL. EMOVE GRATE AND SCREEN. VENTILATE UNDERGROL PEN FLAP VALVE AND REMOVE ANY BLOCKAGES IN RI LUDGE/DEBRIS ON UPSTREAM SIDE OF RETURN LINE. CT RETURN PIPE FROM STORAGE AN X MONTHI Y K FIXING OF STEP IRONS IS SECURE E GRATE AND ENSURE FIXINGS SECURE PRIC CT OVERFLOW WEIR & REMOVE ANY REMOVE GRATE AND OPEN COVER TO VENTILATE UNDER PRESENT. ENSURE WEIR CLEAR OF BLOCKAGES. ID STORAGE IF VE GRATE AND VENTILATE UNDERGROUND STOR (BASKET, CHECK FIXINGS SECURE AND NOT COF VE GRATE AND SCREEN. ENSURE PLATE MOUNTED SECURELY, TIGHTEN SS IF REQUIRED. SEAL GAPS AS REQUIRED. ECK ATTACHMENT OF ORIFICE PLATE T EMOVE GRATE AND EXAMINE SCREEN FOR RUST OR CORI ORNERS OR WEI DS VE GRATE ENSURE FIXINGS OF VALVE ARE SECUR EMOVE GRATE. FILL PIT WITH WATER AND CHECK THAT FLAP SEALS AGAINST IDE OF PIT WITH MINIMAL I FAKAGE K FLAP VALVE SEALS AGAINST WALL INTENANC ECK ANY HINGES OF FLAP VALVE MOVE NUALLY IOVE GRATE. TEST VALVE HINGE BY MOVING FLAP TO FULL EXTENT. AINTENANCE ECK STEP IRONS FOR CORROSION UALL' IOVE GRATE. EXAMINE STEP IRONS AND REPAIR ANY CORF INTENANC E VEARLY PARE DIAMETER TO DESIGN (SEE WORK, AS, EXECUTED) AND ENSURE EDGE CK ORIFICE DIAMETER CORRECT AND AINS SHARP EDGE. STORAGE REMOVE ANY BLOCKAGE C VNER CK ATTACHMENT OF ORIFICE PLATE T INTENANC OVE GRATE TO INSPECT INTERNAL WALLS. REPAIR AS REQUIRED. CLEAR ARE ACTUAL STORAGE AVAILABLE WITH WORK-AS EXECUTED P ME LOSS IS GREATER THAN 5%, ARRANGE FOR RECONSTRUCTI ACE THE VOLUME LOST. COUNCIL TO BE NOTIFIED OF THE PROP INES AND AT PITS FOR SUE

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TITLE : SPECIFICA	TION NOTES SHE				
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PROJECT PORTION	PROPOSED	9 LOTS SUBD	IVISION		
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DRAWN BY: K.A	SCALE A3	JOB No:	21060	DRG No. D-101	REV.





DEVELOPMENT CATCHMENT A	REA:	
PROPOSED SITE AREA =2.2 ha		
PERVIOUS AREA:	18710 m²	
IMPERVIOUS AREA:	3290 m²	***

TITLE : STORMWA	TER MANAGEMEN	\bigwedge			
PROJECT PORTION					
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DRAWN BY: K.A	SCALE A3	JOB No:	21060	DRG No. D-200	REV. A



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84 CORRIEDALE DR, MARULAN NSW 2579



TITLE : GROUND F	LOOR STORMWA		\bigwedge		
PROJECT PORTION	PROPOSED	VISION			
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