

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 WELDLOK 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

COUNCIL

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f'c 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

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

AUTHORITY STORMWATER NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.

ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.

SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.

NO TREES SHALL BE REMOVED. CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS

PIPE BACKFILL SELECT FILL SELECT FILL (LESS THAN 300mm BELOW BASE COURSE)

BASE COURSE

DENSITY INDEX 75 95% STANDARD 98% MODIFIED

100% MODIFIED

THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

KERB INLET PIT NOTES:

KERB INLET PITS TO BE CONSTRUCTED TO PENRITH COUNCIL STANDARDS.

ALL KERB INLET PITS TO BE CAST IN-SITU, U.N.O. BY PENRITH COUNCIL STANDARD DRAWINGS.

ALL CONCRETE SHALL BE 32MPa STRENGTH AT 28 DAYS WITH F82 MESH CENTRALLY PLACEDBY PENRITH COUNCIL STANDARD DRAWINGS.

EROSION & SEDIMENT CONTROL

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.

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 SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) BASE COURSE

98% MODIFIED 100% MODIFIED

95% MODIFIED

ABBREVIATIONS:

DIAMETER Ø or DIA CALIFORNIA BEARING RATIO CH CHAINAGE **CENTER LINE** CL CO CLEAR OUT DD DISH DRAIN DDO DISH DRAIN OUTLET DEJ DOWELLED EXPANSION JOINT DENSE GRADED BASECOURSE DGB DENSE GRADED SUB-BASE DGS DP DOWNPIPE **EXISTING** FINISHED FLOOR LEVEL FFL GTD GRATED TRENCH DRAIN GRATED SURFACE INLET PIT GSIP HYD HYDRANT **ISOLATING JOINT** INTEGRAL KERB **INVERT LEVEL** INTERSECTION POINT KERB INLET PIT KO KERB ONLY **KERB & GUTTER** KERB RETURN LONGITUDINAL SECTION

NATURAL GROUND LEVEL OFP OVERLAND FLOW PATH ON-SITE DETENTION RADIUS REINFORCED CONCRETE PIPE **ROLL KERB & GUTTER** REDUCED LEVEL **RETAINING WALL** RW

RWT RAINWATER TANK SAWN CONTROL JOINT SEWER MAN HOLE SW STORMWATER SWP STORMWATER PIT SWRM STORMWATER RISING MAIN SWS STORMWATER SUMP STOP VALVE TOK TOP OF KERB TOW

TOP OF WALL TWL TOP WATER LEVEL TANGENT POINT UNPLASTICISED POLYVINYL CHLORIDE UNLESS NOTED OTHERWISE UNO WPJ WEAKENED PLANE JOINT

FF FIRST FLUSH DEVICE **TYPICAL** TYP

LEGEND:

RAINWATER TANK LINES STORMWATER LINE — SSD— SUBSOIL LINE STORMWATER RISING MAIN — OF — OF — OVERFLOW LINE EXISTING STORMWATER LINE **AUTHORITY SEWER LINE** _____ S ____ **AUTHORITY WATER LINE** ——— G ——— G ——— AUTHORITY GAS LINE —— —— E —— AUTHORITY ELECTRICITY LINE ---- AUTHORITY UNDERGROUND ELECTRICITY LINE

AUTHORITY COMMS LINE FENCE LINE

——FO—FO—FO— AUTHORITY FIBRE OPTIC LINE

GRATED SURFACE INLET PIT

JUNCTION PIT

KERB INLET PIT

EXISTING KERB INLET PIT

EXISTING TELSTRA PIT

EXISTING HYDRANT

eSV \bowtie

EXISTING STOP VALVE

EXISTING POWER POLE



EXISTING SEWER MANHOLE



OVERLAND FLOW PATH

CO

RAINWATER OUTLET **CLEAR OUT POINT**

CAPPING DOWNPIPE DROP

DP DOWNPIPE

SPOT LEVELS

BENCHMARK

DRAWING REGISTER NUMBER **REVISION** NAME **COVER SHEET** S100 S101 SPECIFICATIONS SHEET S200 BASEMENT PLAN S201 SITE STORMWATER MANAGMENT PLAN S300 **DETAILS SHEET** S400 **EROSION AND SEDIMENT CONTROL** В В S500 MUSIC CATCHMENT PLAN



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

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.

В	ISSUED FOR DA	2	A.A.	28.01.2022	
Α	ISSUED FOR DA	2	A.A.	01.03.2021	1.
REV	DESCRIPTION	APP.	DESIGN	DATE	2. 3.

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COMPLYING DEVELOPMENT 6. OTHER

USED FOR ANY PURPOSES THAN FOR WHICH



DRAWN: A.A. DESIGNED: A.A. REVIEWED: J.D. DATE: 28.01.2022 APPROVED: DATE: 28.01.2022

B.E CIVIL/STRUCTURAL

MEMB. NO: 5579488

BEng,MIEAust

ARCHITECT:

SAMER BACHOUR

CLIENT:

PROJECT:

PROPOSED CHILD CARE ADDRESS: 198 BENNETT ROAD, ST CLAIR APPLICATION: DEVELOPMENT APPLICATION (DA)

PENRITH COUNCIL

SPECIFICATIONS SHEET SCALE:

UNLESS OTHERWISE STATED PROJECT NO. SW21052 DRAWING NO. S101

ALL DIMENSIONS

IN 'm'

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