CIVIL & STORMWATER WORKS for 99 ISABELLA STREET WINGHAM NSW 2429

WALLACE DESIGN GROUP

Prepared by
WALLACE INFRASTRUCTURE DESIGN PTY LTD

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Registered on the NER in the area(s) of practice of CIVIL

LOCATION PLAN
(NTS)

DRAWING NUMBER	DRAWING DESCRIPTION
C01.01	LEGEND, DRAWING SCHEDULE AND LOCATION PLAN
C02.01	GENERAL NOTES
C04.01	SITE DETAIL PLAN
C04.02	SAFE INTERSECTION SIGHT DISTANCE ASSESSMENT
C05.01	STORMWATER MANAGEMENT PLAN
C06.01	RAINWATER TANK TYPICAL SECTION & DETAILS

ABBREVIATIONS

A/G	ABOVE GROUND
AGG	AGGREGATE
ARCH	ARCHITECT
ASP	ASPHALT
BM	BENCHMARK
CAD	COMPUTER AIDED DRAFTING
C-C	CENTRE TO CENTRE
CH	CHAINAGE
CI	CAST IRON
CJ	CONSTRUCTION JOINT
CL	COVER LEVEL or CENTRE LINE
CO	CLEAN OUT (SUBSOIL)
COG	CHANGE OF GRADE
CONC	CONCRETE
CTRL	CONTROL
CR	CROWN
CTS	CENTRES
D	DEPTH
DIA	DIAMETER
DP	DOWNPIPE
DRG	DRAWING
D/S	DOWN STREAM
DTM	DIGITAL TERRAIN MODEL
EB	EDGE BITUMIN
EX	EXISTING
ESL	EXISTING SURFACE LEVEL
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
FSL	FINISHED SURFACE LEVEL
FW	FLOOR WASTE
GA	GENERAL ARRANGEMENT
GI	GALVANISED IRON
GFL	GARAGE FINISHED LEVEL
IC	INSPECTION CHAMBER
ID	INSIDE DIAMETER
IFC	ISSUED FOR CONSTRUCTION
IFCR	ISSUED FOR CLIENT REVIEW
IL	INVERT LEVEL
IO	INSPECTION OPENING
KIP	KERB INLET PIT
L	LENGTH
LP	LAMP POST (SURVEY)
MAX	MAXIMUM
MC	MASS CONCRETE
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NRV	NON RETURN VALVE
NTS	NOT TO SCALE
OD	OUTER DIAMETER
OF	OVERFLOW
OH	OVERHEAD
PP	POWER POLE
PPE	PERSONAL PROTECTIVE EQUIP.
PVC	POLYVINYLCHLORIDE
PV	PRESSURE VENT
PVP	PRESSURE VENT PIPE
QA	QUALITY ANALYSIS
QTY	QUANTITY
R	RADIUS
RC	REINFORCED CONCRETE
REV	REVISION
RL	REDUCED LEVEL
RW	RETAINING WALL
SFW	SEALED FLOOR WASTE
SL	SURFACE LEVEL
SMH	SEWER MANHOLE
SMV	SEWER MAIN VENT
SOD	SIDE OUTLET DRAIN
S/S	STAINLESS STEEL
STD	STANDARD
SV	STOP VALVE
SW	STORMWATER
SWP	STORMWATER PIT
THK	THICKNESS
TJ	TRAVERSE JOINT
TOW	TOP OF WALL
TW	TRADE WASTE
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
U/S	UPSTREAM
VC	VITRIFIED CLAY PIPE
VP	VENT PIPE
VR	VERTICAL RISER
W	WIDTH
WC	WATER CLOSET
WL	WATER LEVEL
WM	WATER METER
WS	WASTE STACK

UNITS

mm	MILLIMETRES
cm	CENTIMETRES
m	METRES
m^2	SQUARE METRES
m^3	CUBIC METRES
L/s	LITRES PER SECOND
ha	HECTARES

LINETYPES & SYMBOLS

GENERAL
SITE BOUNDARY
CADASTRAL BOUNDARY
EASEMENT BOUNDARY

EXISTING FEATURES
CONTOURS
STORMWATER PIPE
STORMWATER PIT
ELECTRICAL CABLE - U/G
ELECTRICAL CABLE - O/H
EXISTING SEWER PIPE
EXISTING WATER
EXISTING WATER (HYDRANT)
EXISTING WATER (STOP VALVE)
EXISTING TELECOM
COMMUNICATIONS PIT
EXISTING GAS
EXISTING BUILDING
TREES / SHRUBS

PROPOSED - BUILDING (INDICATIVE ONLY)
DWELLING NUMBER — UNIT 01
FINISHED FLOOR LEVEL — FFL 5.00
BUILDING FOOTPRINT

PROPOSED - UTILITIES
SEWER
WATER
COMMUNICATIONS
COMMUNICATIONS - OPTIC FIBRE
COMMUNICATIONS PIT
GAS
ELECTRICAL CABLE - U/G
ELECTRICAL CABLE - O/H
REDUNDANT

PROPOSED - EROSION AND SEDIMENT CONTROL
SITE EXCLUSION FENCE
SEDIMENT FENCE
DIVERSION DRAIN
STABLISED SITE ACCESS
MATERIAL STOCKPILE
SLOPE DIRECTION
GEOTEXTILE INLET FILTER
MESH AND GRAVEL INLET FILTER
SANDBAG / HAY BALES

PROPOSED CONTOURS
MAJOR CONTOUR INTERVAL
MINOR CONTOUR INTERVAL

PROPOSED - STORMWATER
SW PIPE (INCL. DIA/GRADE/LENGTH) — ØXXXmm uPVC X.X% GRADE, X.XXm
SW PIPE - CHARGED (INCL. DIA/GRADE/LENGTH) — ØXXXmm uPVC CHARGE X.X% GRADE, X.XXm
SW PIT - GRATED / JUNCTION
SW - KERB INLET PIT (INCLUDING LINTEL)
RAINWATER/REUSE TANK — OR
GROSS POLLUTANT TRAP — GPT
GRATED DRAIN
INFILTRATION TRENCH
HEADWALL
SUBSOIL
SW SWALE
PIPE RISER — XX
PIPE DROPPER — XX
OVERLAND FLOW PATH
SW PIT NUMBER
SW CATCHMENT (NUMBER / AREA IN ha) — XX X.XXX

PROPOSED - CIVIL
CONCRETE
ASPHALTIC CONCRETE
SAND
EARTH
RIP RAP
BUILDING / STRUCTURES
TIMBER
BLOCK PAVERS
RETAINING WALL
KERB RAMP
VEHICULAR CROSSING
FENCE
BATTER
BOLLARD - TYPE 1 (FIXED) — B-T1
BOLLARD - TYPE 2 (REMOVABLE) — B-T2
LINEMARKING - CHEVRON
EXPANSION JOINT — EJ
TRAVERSE JOINT — TJ
CONTROL JOINT — CJ
FINISHED GRADE LEVELS — 25.758
EXISTING GRADE LEVELS — 25.710

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ARCHITECT: collinswcollins BUILDING DESIGNERS

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PROJECT:
CIVIL WORKS for
LOT 01, DP 925163
99 ISABELLA STREET
WINGHAM NSW 2429

DRAWING TITLE:
CIVIL SERVICES
LEGEND, DRAWING SCHEDULE AND LOCATION PLAN

DRAWING STATUS	DA APPROVAL — NOT TO BE USED FOR CONSTRUCTION				
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GENERAL NOTES

1. ALL CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S ENGINEERING REQUIREMENTS FOR DEVELOPMENTS.
2. ALL DIMENSIONS, EASEMENTS AND LOTS SUBJECT TO REGISTRATION OF DEPOSITED PLAN.
3. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND CONSULTANT'S DRAWINGS AND SPECIFICATIONS, AND OTHER WRITTEN REPORTS (e.g GEOTECHNICAL, ARBORIST, ENVIRONMENTAL, ETC.). ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH ANY WORKS.
4. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS AS DIRECTED BY THE SUPERVISOR.
5. THE DEVELOPER, SHALL ENSURE ALL ASSOCIATED DOCUMENTATION (GEOTECHNICAL, LANDSCAPE, ARCHITECTURAL, ELECTRICAL, TELECOM, GAS ETC.) HAS BEEN APPROVED FOR CONSTRUCTION BEFORE COMMENCING ANY WORKS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, PROTECTION AND ADJUSTMENT TO ALL IN GROUND AND ABOVE GROUND SERVICES. SEE HUNTER WATER'S NOTICE OF REQUIREMENTS.
7. EROSION CONTROL MEASURES, DEVICES, SILT TRAPS. ETC. ARE TO BE INSTALLED BEFORE ANY SITE DISTURBANCE IN ACCORDANCE WITH COUNCIL INSPECTORS REQUIREMENTS AND SITE SEDIMENTATION AND EROSION CONTROL PLANS.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE WORK HEALTH SAFETY ACT.
9. VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
10. ALL WASTE OR DEMOLISHED MATERIALS SHALL BE DISPOSED OF OFF SITE TO A COUNCIL APPROVED SITE. ALL FEES AND CHARGES SHALL BE INCLUDED IN THE CONTRACT SUM.
11. CONSTRUCTION VIBRATION TO COMPLY WITH AS2760.1-2004 AND/OR NSW DEPT OF ENVIRONMENT AND CONSERVATION NOISE REQUIREMENTS
12. EMISSIONS FROM SITE ARE NOT TO INTERFERE WITH THE AMENITY OF THE NEIGHBORHOOD.
13. NOISE EMISSIONS ARE TO COMPLY WITH NSW EPA NOISE CONTROL MANUAL. TIME RESTRICTIONS APPLY TO CONSTRUCTION WORKS AS FOLLOWS: 7AM TO 6PM MON-FRI; 8AM TO 1PM SAT.
14. TREES & SHRUBS WHICH ARE FELLED SHALL BE SALVAGED FOR RE-USE, EITHER IN LOG FORM, OR AS A WOODCHIP MULCH FOR EROSION CONTROL AND/OR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS ROOTS & STUMPS SHALL BE DISPOSED OF IN AN APPROVED MANNER.
15. 'ESCP' REFERS TO EROSION AND SEDIMENT CONTROL PLAN, 'SWMP' REFERS TO SOIL AND WATER MANAGEMENT PLAN, AND, 'ESC' REFERS TO EROSION AND SEDIMENT CONTROL.
16. SEDIMENT, INCLUDES, BUT IS NOT LIMITED TO, CLAY, SILT, SAND, GRAVEL, SOIL, MUD, CEMENT AND CERAMIC WASTE.
17. ANY REFERENCE TO THE BLUE BOOK REFERS TO *"MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION*", LANDCOM, 2004.
18. ANY REFERENCE TO THE IECA WHITE BOOKS (2008) REFERS TO IECA 2008, *"BEST PRACTICE EROSION AND SEDIMENT CONTROL"*. BOOKS 1-6. INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA), PICTON, NSW.
19. ANY MATERIAL DEPOSITED IN ANY CONSERVATION AREA FROM WORKS ASSOCIATED WITH THE DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY MEASURES INVOLVING MINIMAL GROUND AND/OR VEGETATION DISTURBANCES AND NO MACHINERY, OR FOLLOWING DIRECTIONS BY COUNCIL AND/OR WITHIN A TIMEFRAME ADVISED BY COUNCIL.

SURVEY NOTES

1. THE EXISTING SURVEY CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN DERIVED FROM SURVEY INFORMATION SUPPLIED BY CALCO SURVEYORS PTY LTD, DATED 12.02.2025, REF NO. 4653 DWG No. 001
2. THE INFORMATION SHOWN IS PROVIDED AS A BASIS FOR THE DESIGN. WALLACE DESIGN GROUP DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
3. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTRACTOR SHALL CONTACT CALCO SURVEYORS PTY LTD AND OR WALLACE DESIGN GROUP FOR CLARIFICATION.
4. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.

STORMWATER NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DETAILS.
2. ALL WORKS ARE TO BE IN ACCORDANCE WITH AS3500, COUNCIL'S DEVELOPMENT CONTROL PLAN AND PROPRIETARY MANUFACTURERS RECOMMENDATIONS.
3. UNLESS OTHERWISE STATED, ALL STORMWATER PIPES (INCLUDING DOWNPIPES AND RAINWATER TANK OVERFLOW PIPES) ARE TO BE uPVC SEWER GRADE, U.N.O JOINTED & INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
4. ALL uPVC STORMWATER LINES TO HAVE ALL JOINTS, INC. DOWNPIPE CONNECTIONS, FULLY SOLVENT WELDED, INCLUDING ANY CHARGED LINES.
5. CONNECT DOWNPIPES AS REQUIRED TO NOMINATED HARVESTING TANK IN ACCORDANCE WITH APPROVED DEVELOPMENT PLANS AND HYDRAULIC ENGINEERS DESIGN.
6. ALL LEVELS ARE DATUM AHD.
7. ALL LEVELS ARE FINISHED PAVEMENT OR LAWN LEVELS.
8. CONTRACTOR TO ALLOW FOR ALL PIPE SUPPORT SYSTEM TO SOFFIT AS PER MANUFACTURERS SPECIFICATIONS.
9. ALL CONCRETE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH AS1379.
10. AT COUNCILS DISCRETION, ALL CONCRETE CAN BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS1379
11. MINIMUM PIPE COVERS TO BE IN ACCORDANCE WITH AS3500.
12. PITS TO BE FILLED ACCORDINGLY TO MEET INVERTS AS NEEDED.
13. CONTRACTOR TO CONFIRM ALL LEVELS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO WALLACE DESIGN GROUP.

SUBSOIL DRAINAGE NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATIONS FOR SUBSURFACE DRAINAGE.
2. SUBSOIL PIPE TO BE Ø100 SLOTTED PVC OR CORRUGATED CIRCULAR PLASTIC PIPE AND ENCLOSED IN SEAMLESS FILTER FABRIC SOCK
3. SUBSOIL DRAINS SHALL CONSIST OF A 300 (MINIMUM) WIDE TRENCH, BACKFILLED WITH 7 OR 10mm AGGREGATE AND WRAPPED IN BIDIM A12 GEOTEXTILE FABRIC OR SIMILAR, LAPPED AT THE TOP. DEPTH OF TRENCH TO EXTEND 450 (MINIMUM) IN ROCK OR 600 (MINIMUM) IN EARTH BELOW FINISHED SUB-GRADE LEVEL. INVERT OF TRENCH SHOULD ALSO BE LOWER THAN THE INVERT OF ANY SERVICE CROSSINGS.

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99 ISABELLA STREET
WINGHAM NSW 2429

DRAWING TITLE:
CIVIL SERVICES
GENERAL NOTES

DRAWING STATUS: **DA APPROVAL**
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SCALE:	ORIG. SIZE
N.T.S.	A1

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SCALE METRES 1:100 @ A1

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DRAWING TITLE:
CIVIL SERVICES
SITE DETAIL PLAN

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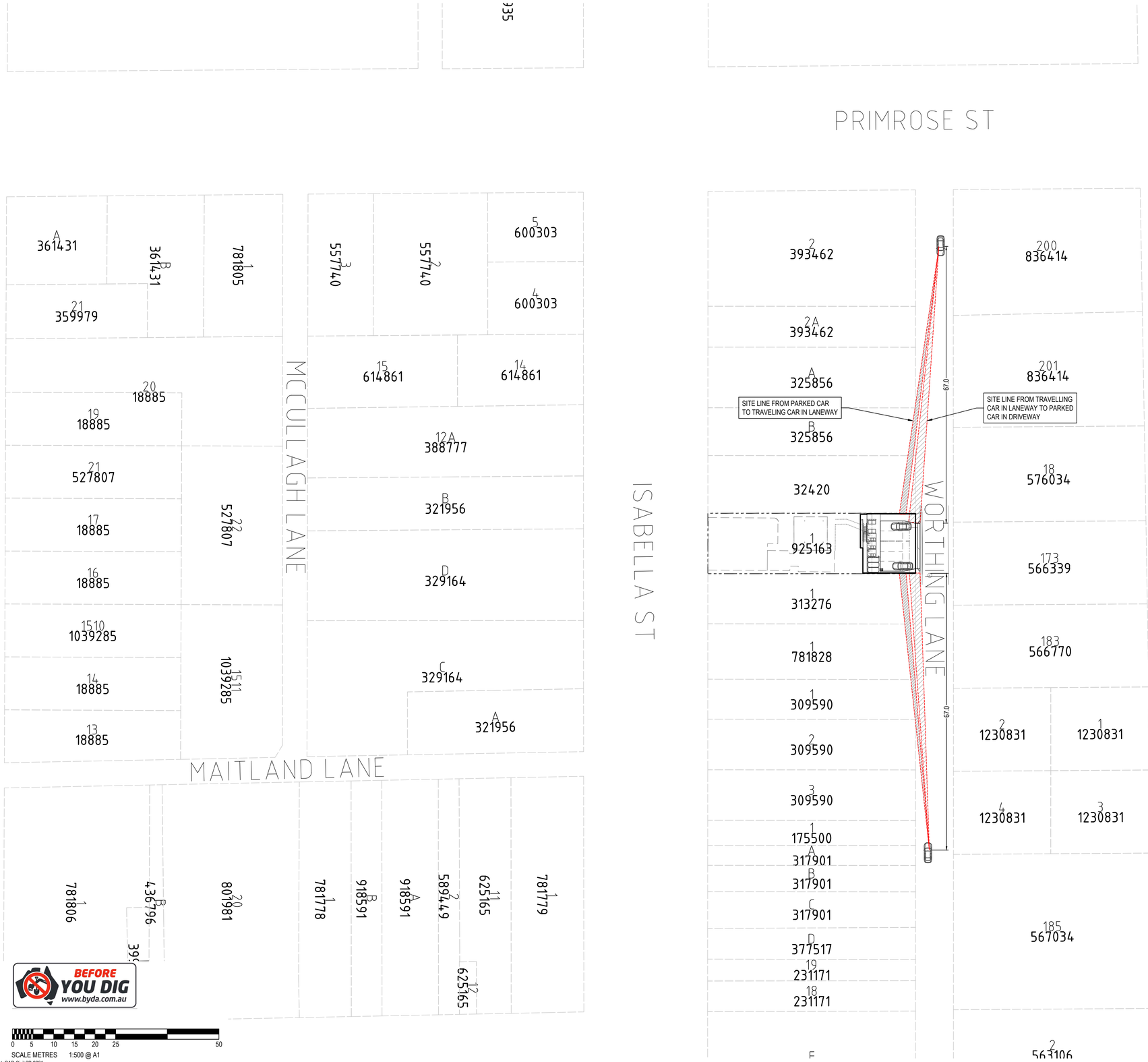

Table 3.2: Safe intersection sight distance (SISD) and corresponding minimum crest vertical curve size for sealed roads (S < L)

Design speed (km/h)	Based on safe intersection sight distance for cars[1] $h_1 = 1.1$; $h_2 = 1.25$, $d = 0.36$[2]; Observation time = 3 sec					
	$R_T = 1.5$ sec[3]		$R_T = 2.0$ sec		$R_T = 2.5$ sec	
	SISD (m)	*K*	SISD (m)	*K*	SISD (m)	*K*
40	67	4.9	73	6	–	–
50	90	8.6	97	10	–	–
60	114	14	123	16	–	–
70	141	22	151	25	–	–
80	170	31	181	35	–	–
90	201	43	214	49	226	55
100	234	59	248	66	262	74
110	–	–	285	87	300	97
120	–	–	324	112	341	124
130	–	–	365	143	383	157

NOTE:
1. SAFE INTERSECTION SIGHT DISTANCE (SISD) ASSESSMENT IS UNDERTAKEN FROM TABLE 3.2, AUSTROADS, GUIDE TO ROAD DESIGN PART 4A: UNSIGNALISED AND SIGNALISED INTERSECTIONS.
2. DESIGN SPEED OF 40 km/h AND REACTION TIME OF 1.5 sec IS UNDERTANKEN FOR THE ASSESSMENT.

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0 5 10 15 20 25 50
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DRAWING TITLE:
CIVIL SERVICES
SAFE INTERSECTION SIGHT DISTANCE ASSESSMENT

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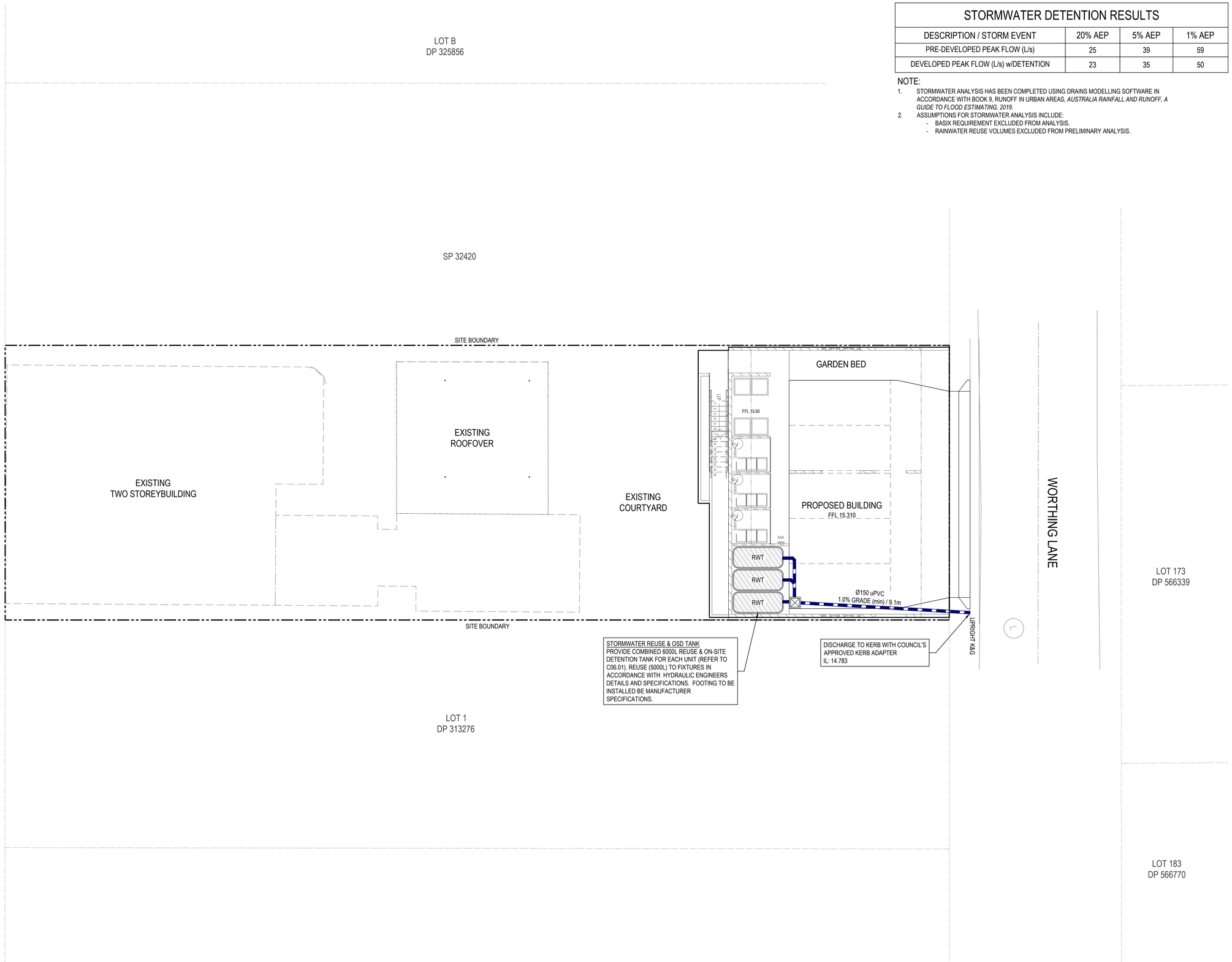
STORMWATER DETENTION RESULTS			
DESCRIPTION / STORM EVENT	20% AEP	5% AEP	1% AEP
PRE-DEVELOPED PEAK FLOW (L/s)	25	39	59
DEVELOPED PEAK FLOW (L/s) w/DETENTION	23	35	50

NOTE:

1. STORMWATER ANALYSIS HAS BEEN COMPLETED USING DRAINS MODELLING SOFTWARE IN ACCORDANCE WITH BOOK 9, RUNOFF IN URBAN AREAS, *AUSTRALIA RAINFALL AND RUNOFF, A GUIDE TO FLOOD ESTIMATING, 2019.*
2. ASSUMPTIONS FOR STORMWATER ANALYSIS INCLUDE:
   - BASIX REQUIREMENT EXCLUDED FROM ANALYSIS.
   - RAINWATER REUSE VOLUMES EXCLUDED FROM PRELIMINARY ANALYSIS.



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REV	DESCRIPTION	DATE	APPV'D	END'D
B	DA APPLICATION ISSUE	14.05.25	KB	-
A	DA APPLICATION ISSUE	13.05.25	KB	-

ARCHITECT: collinswcollins BUILDING DESIGNERS

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WALLACE DESIGN GROUP

PROJECT:
CIVIL WORKS for
LOT 01, DP 925163
99 ISABELLA STREET
WINGHAM NSW 2429

DRAWING TITLE:
CIVIL SERVICES
STORMWATER MANAGEMENT PLAN

DRAWING STATUS: **DA APPROVAL**
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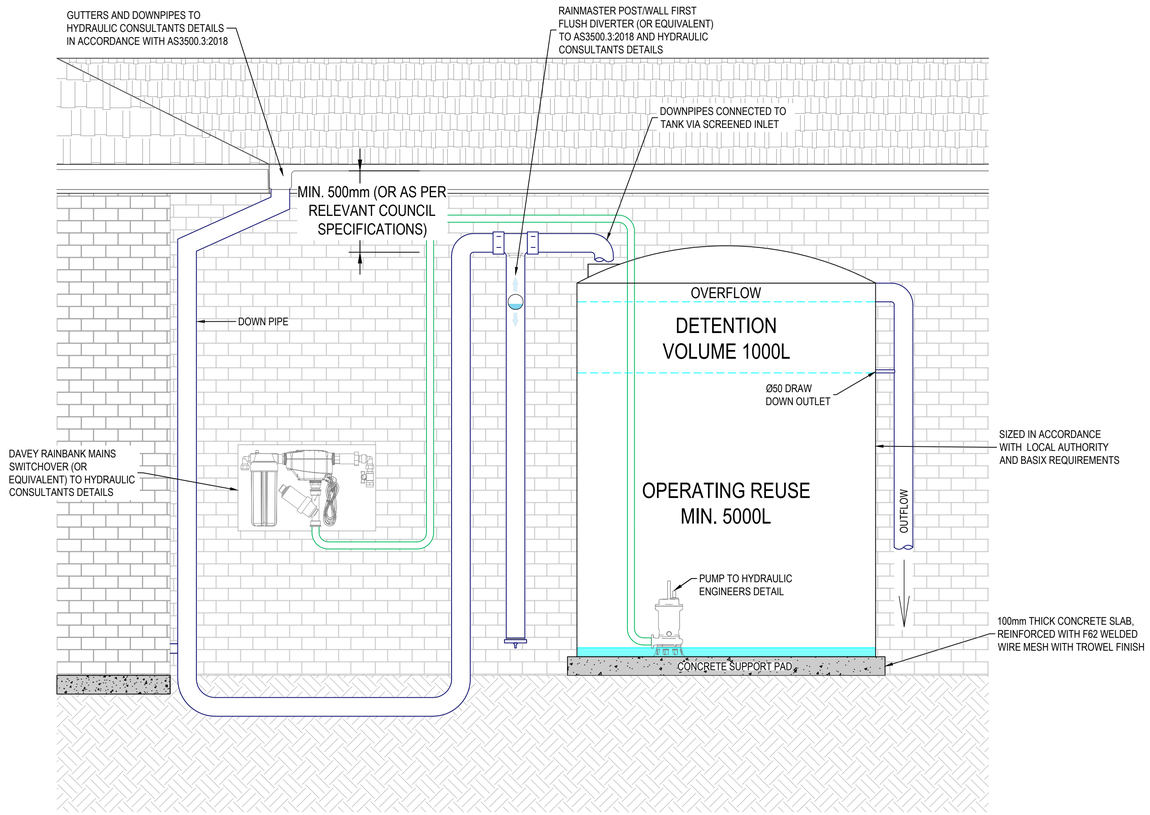
SCALE:				ORIG. SIZE
1:100				A1
DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE
MS	AK	KB	KB		14.05.25
PROJECT No.		DRAWING No.		REV
25095		C05.01		B

PLOTTED BY:- ARYAN DATE:- 14 May 2025 11 27 AM FILENAME:- O:\PROJECTS\2025\25095 - 99 ISABELLA STREET, WINGHAM\3. CAD\15. TITLE\25095_CIV_DA-[B] - 99 ISABELLA ST WINGHAM

GENERAL RAINWATER TANK NOTES:

1. ALL UNITS ARE TO BE CONNECTED TO THE SPECIFIED RAINWATER REUSE/STORAGE TANK AS NOTED ON THE STORMWATER DRAINAGE PLAN SHEET.
2. DAVEY RAINBANK MAINS SWITCHOVER (OR EQUIVALENT) AND RAINWATER TANK TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
3. VOLUMES SHOWN FOR REUSE AND DETENTION ARE PROVIDED TO COMPLY WITH BASIX AND/OR COUNCIL GUIDELINES AND DO NOT INCLUDE THE PERMANENT VOLUME REQUIRED FOR OPERATION OF THE PUMP.



TYPICAL ABOVEGROUND
RAINWATER REUSE TANK SECTION
NTS

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LOT 01, DP 925163
99 ISABELLA STREET
WINGHAM NSW 2429

DRAWING TITLE:
CIVIL SERVICES
RAINWATER TANK TYPICAL SECTIONS & DETAILS

DRAWING STATUS: **DA APPROVAL**
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