



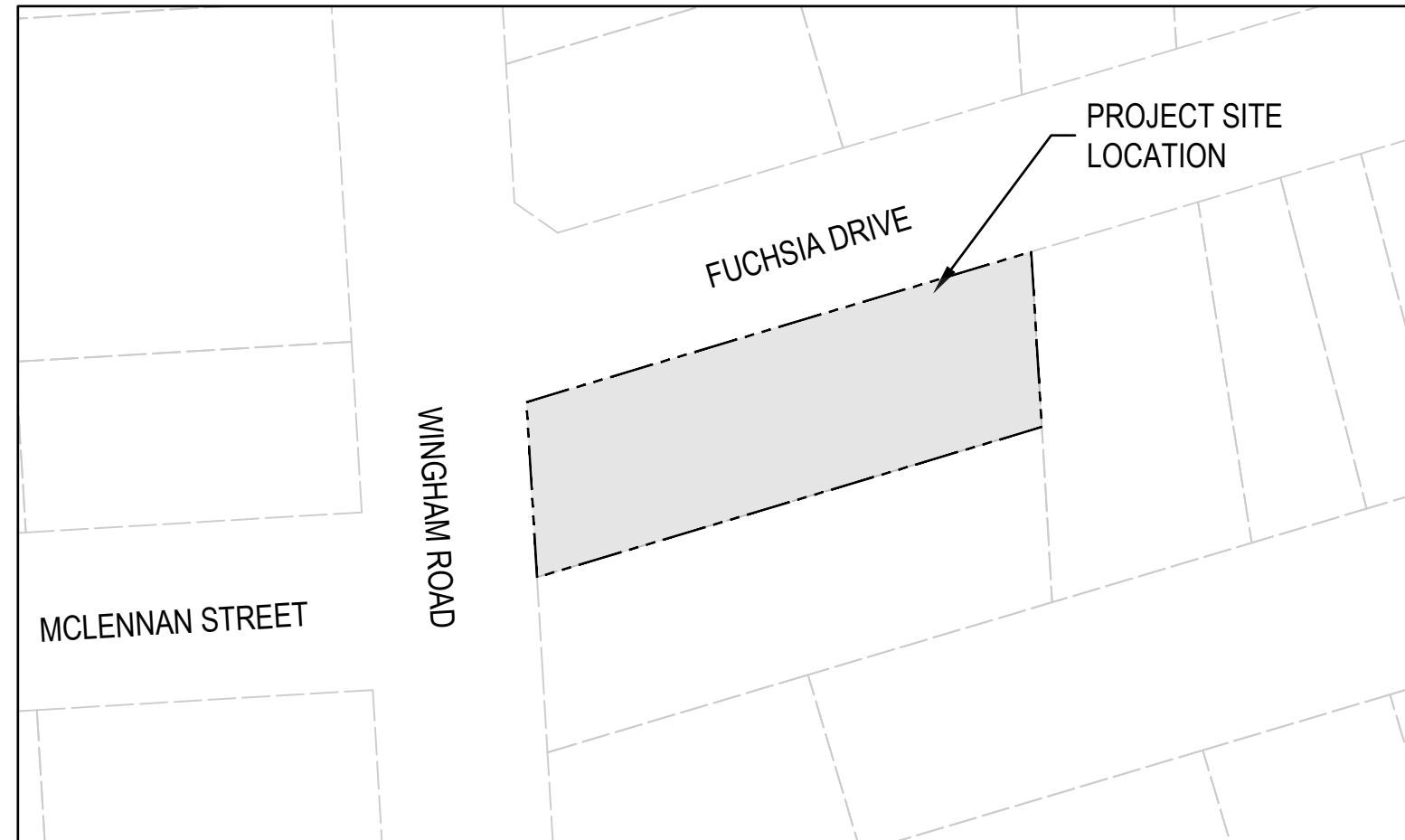
STORMWATER WORKS for 97 WINGHAM ROAD TAREE NSW 2430

Prepared by
WALLACE INFRASTRUCTURE DESIGN PTY LTD

KENNETH D BOYER
(BE Civil) MIE Aust CPEng

Chartered Professional Engineer
Membership No. 4404352

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
C05.01	STORMWATER MANAGEMENT PLAN
C05.02	MUSICX CATCHMENT PLAN AND RESULTS
C06.01	RAINGARDEN TYPICAL SECTION & DETAILS
C06.02	RAINWATER TANK DETAILS

ABBREVIATIONS

A/G	ABOVE GROUND	IFC	ISSUED FOR CONSTRUCTION	SV	STOP VALVE
AGG	AGGREGATE	IFCR	ISSUED FOR CLIENT REVIEW	SW	STORMWATER
ARCH	ARCHITECT	IL	INVERT LEVEL	SWP	STORMWATER PIT
ASP	ASPHALT	IO	INSPECTION OPENING	THK	THICKNESS
BM	BENCHMARK	KIP	KERB INLET PIT	TJ	TRAVERSE JOINT
CAD	COMPUTER AIDED DRAFTING	L	LENGTH	TOW	TOP OF WALL
C-C	CENTRE TO CENTRE	LP	LAMP POST (SURVEY)	TW	TRADE WASTE
CH	CHAINAGE	MAX	MAXIMUM	TYP	TYPICAL
CI	CAST IRON	MC	MASS CONCRETE	U/G	UNDERGROUND
CJ	CONSTRUCTION JOINT	MH	MANHOLE	UNO	UNLESS NOTED OTHERWISE
CL	COVER LEVEL or CENTRE LINE	MIN	MINIMUM	U/S	UPSTREAM
CO	CLEAN OUT (SUBSOIL)	MISC	MISCELLANEOUS	VC	VITRIFIED CLAY PIPE
COG	CHANGE OF GRADE	N	NORTH	VP	VENT PIPE
CONC	CONCRETE	NRV	NON RETURN VALVE	VR	VERTICAL RISER
CTRL	CONTROL	NTS	NOT TO SCALE	W	WIDTH
CR	CROWN	OD	OUTER DIAMETER	WC	WATER CLOSET
CTS	CENTRES	OF	OVERFLOW	WL	WATER LEVEL
D	DEPTH	OH	OVERHEAD	WM	WATER METER
DIA	DIAMETER	PP	POWER POLE	WS	WASTE STACK
DP	DOWNPIPE	PPE	PERSONAL PROTECTIVE EQUIP.		
DRG	DRAWING	PVC	POLYVINYLCHLORIDE	UNITS	
D/S	DOWN STREAM	PV	PRESSURE VENT	mm	MILLIMETRES
DTM	DIGITAL TERRAIN MODEL	PVP	PRESSURE VENT PIPE	cm	CENTIMETRES
EB	EDGE BITUMIN	QA	QUALITY ANALYSIS	m	METRES
EX	EXISTING	QTY	QUANTITY	m ²	SQUARE METRES
ESL	EXISTING SURFACE LEVEL	R	RADIUS	m ³	CUBIC METRES
FH	FIRE HYDRANT	RC	REINFORCED CONCRETE	L/s	LITRES PER SECOND
FHR	FIRE HOSE REEL	REV	REVISION	ha	HECTARES
FFL	FINISHED FLOOR LEVEL	RL	REDUCED LEVEL		
FGL	FINISHED GROUND LEVEL	RW	RETAINING WALL		
FSL	FINISHED SURFACE LEVEL	SEW	SEWER		
FW	FLOOR WASTE	SL	SURFACE LEVEL		
GA	GENERAL ARRANGEMENT	SMH	SEWER MANHOLE		
GI	GALVANISED IRON	SMV	SEWER MAIN VENT		
GFL	GARAGE FINISHED LEVEL	SOD	SIDE OUTLET DRAIN		
IC	INSPECTION CHAMBER	S/S	STAINLESS STEEL		
ID	INSIDE DIAMETER	STD	STANDARD		

LINETYPES & SYMBOLS

GENERAL

SITE BOUNDARY	---
CADASTRAL BOUNDARY	---
EASEMENT BOUNDARY	---
EXISTING FEATURES	
CONTOURS	---30---
STORMWATER PIPE	---
STORMWATER PIT	---
ELECTRICAL CABLE - U/G	---E---
ELECTRICAL CABLE - O/H	---OHE---
EXISTING SEWER PIPE	---S---
EXISTING WATER	---W---
EXISTING WATER (HYDRANT)	●
EXISTING WATER (STOP VALVE)	X
EXISTING TELECOM	---OFC---
COMMUNICATIONS PIT	---
EXISTING GAS	---G---
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	---OFC---
COMMUNICATIONS PIT	---
GAS	---
ELECTRICAL CABLE - U/G	---E---
ELECTRICAL CABLE - O/H	---OHE---
REDUNDANT	· X · X · X · X · X · X ·
PROPOSED - EROSION AND SEDIMENT CONTROL	
SITE EXCLUSION FENCE	---[X]---[X]---[X]---
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	---10---
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	---
GROSS POLLUTANT TRAP	---
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)	---

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

AutoCAD Civil 3D 2021

© COPYRIGHT - THIS DOCUMENT AND DESIGN REMAIN THE COPYRIGHT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING MUST NOT BE REPRODUCED IN ANY FORM WITHOUT THE CONSENT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING HAS BEEN PRODUCED FOR THE PURPOSE OF INDICATING THE DIAGRAMMATIC DESIGN INTENT AND SCOPE OF WORKS REQUIRED FOR THE INSTALLATION OF SERVICES AS DETAILED, AND PERTAINED WITHIN THE SPECIFICATION AND SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SPECIFICATION, ASSOCIATED SPECIFICATION CODES AND STANDARDS. ALL DIMENSIONS, LEVELS AND EXISTING SERVICES SHALL BE INVESTIGATED AND CONFIRMED ON SITE BY THE SUBCONTRACTOR AND BUILDER PRIOR TO THE COMMENCEMENT OF ANY WORKS.

THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED

A	DA ISSUE	07.02.25	KB	-
REV	DESCRIPTION	DATE	APPVD	ENDOD

ARCHITECT:

TIM CROSS
BUILDING DESIGN & DRAFTING SERVICES
TIM CROSS
02 65536114 / 0429021748
timcross1@bigpond.com

CLIENT:

DARREN WAMSLEY
P.O. BOX 755
TAREE NSW 2430
darren@mvpal.com.au
0488 723 355

WALLACE INFRASTRUCTURE DESIGN PTY LTD
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 96 154 694 952
PO BOX 23, CHARLESTOWN, NSW 2290
phone: (02) 49 294 109
email: enq@wddgroup.com.au
web: www.wddgroup.com.au

PROJECT:

CIVIL WORKS for
LOT 2, DP 20629
97 WINGHAM ROAD
TAREE NSW 2430

DRAWING TITLE:

CIVIL SERVICES
LEGEND, DRAWING SCHEDULE AND LOCATION PLAN

DRAWING STATUS

DA APPROVAL
NOT TO BE USED FOR CONSTRUCTION

SCALE:

N.T.S.

ORIG. SIZE

A1

DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE
AK	AK	KB	KB	--	07.02.25

PROJECT No.

24289

DRAWING No.

C01.01

REV

A

PLOTTED BY:- ARYAN

DATE:- 7 February 2025 11:5 AM

FILENAME:- O:\PROJECTS\2024\24289 - 97 WINGHAM ROAD, TAREE\CAD\TITLE\24289_CIV_DA-[A]- 97 WINGHAM RD

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.

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 COUNCIL'S 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.

SURVEY NOTES

1. THE EXISTING SURVEY CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN DERIVED FROM SURVEY INFORMATION SUPPLIED BY TIM CROSS BUILDING DESIGN AND DRAFTING SERVICES.
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 TIM CROSS BUILDING DESIGN AND DRAFTING SERVICES AND OR WALLACE DESIGN GROUP FOR CLARIFICATION.
4. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.



AutoCAD Civil 3D 2021

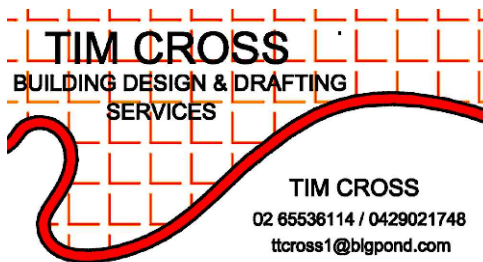
© COPYRIGHT: THIS DOCUMENT AND DESIGN REMAIN THE COPYRIGHT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING MUST NOT BE REPRODUCED IN ANY FORM WITHOUT THE CONSENT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING HAS BEEN PRODUCED FOR THE PURPOSE OF INDICATING THE DIAGRAMMATIC DESIGN INTENT AND SCOPE OF WORKS REQUIRED FOR THE INSTALLATION OF SERVICES AS DETAILED, AND PERTAINED WITHIN THE SPECIFICATION AND SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SPECIFICATION, ASSOCIATED SPECIFICATION, CODES AND STANDARDS. ALL DIMENSIONS, LEVELS AND EXISTING SERVICES SHALL BE INVESTIGATED AND CONFIRMED ON SITE BY THE SUBCONTRACTOR AND BUILDER PRIOR TO THE COMMENCEMENT OF ANY WORKS.



DWG IN COLOUR

THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED					
A	DA ISSUE		07.02.25	KB	-
REV	DESCRIPTION		DATE	APPVD	END'D

ARCHITECT:



CLIENT:

DARREN WAMSLEY
P.O. BOX 755
TAREE NSW 2430
darren@mvpal.com.au
0488 723 355



**WALLACE INFRASTRUCTURE
DESIGN PTY LTD**
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 96 154 894 952
PO BOX 23, CHARLESTOWN, NSW 2290
phone: (02) 49 294 109
email: enq@wdsgrgroup.com.au
web: www.wdsgrgroup.com.au

PROJECT:

CIVIL WORKS for
LOT 2, DP 20629
97 WINGHAM ROAD
TAREE NSW 2430

DRAWING TITLE:

CIVIL SERVICES
GENERAL NOTES

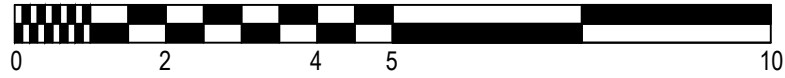
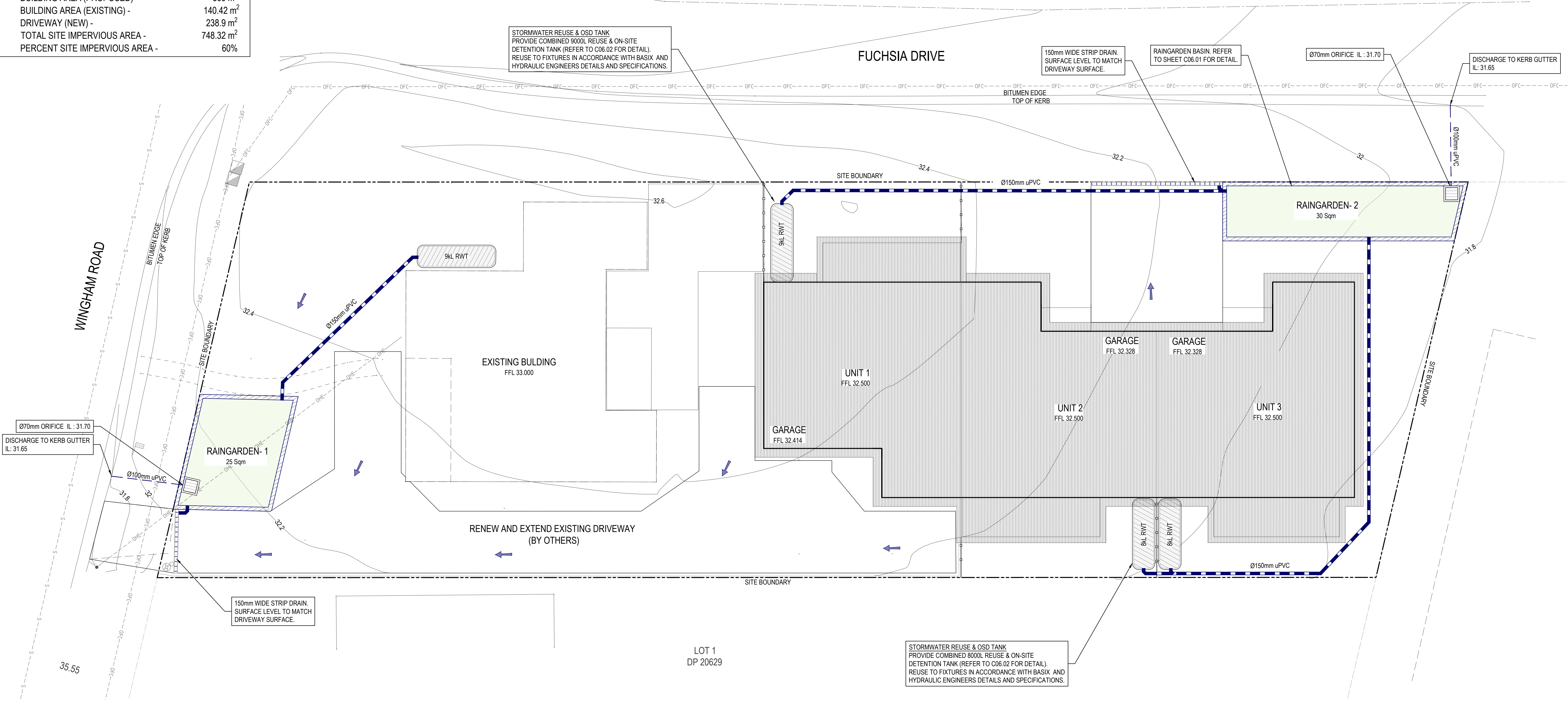
DRAWING STATUS **DA APPROVAL**
NOT TO BE USED FOR CONSTRUCTION

SCALE:		N.T.S.		ORIG. SIZE	
				A1	
DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE
AK	AK	KB	KB	--	07.02.25
PROJECT No.		DRAWING No.			REV
24289		C02.01			A

GENERAL SITE CALCULATIONS:

TOTAL SITE AREA: 1,247.18 m²

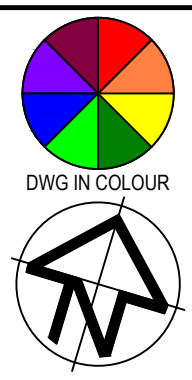
BUILDING AREA (PROPOSED) -	369 m ²
BUILDING AREA (EXISTING) -	140.42 m ²
DRIVEWAY (NEW) -	238.9 m ²
TOTAL SITE IMPERVIOUS AREA -	748.32 m ²
PERCENT SITE IMPERVIOUS AREA -	60%



SCALE METRES 1:100 @ A1

AutoCAD Civil 3D 2021

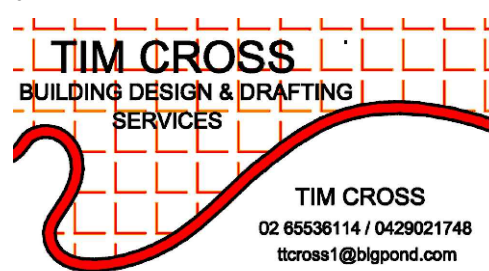
© COPYRIGHT: THIS DOCUMENT AND DESIGN REMAIN THE COPYRIGHT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING MUST NOT BE REPRODUCED IN ANY FORM WITHOUT THE CONSENT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING HAS BEEN PRODUCED FOR THE PURPOSE OF INDICATING THE DIAGRAMMATIC DESIGN INTENT AND SCOPE OF WORKS REQUIRED FOR THE INSTALLATION OF SERVICES AS DETAILED, AND PERTAINED WITHIN THE SPECIFICATION AND SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SPECIFICATION, ASSOCIATED SPECIFICATION, CODES AND STANDARDS. ALL DIMENSIONS, LEVELS AND EXISTING SERVICES SHALL BE INVESTIGATED AND CONFIRMED ON SITE BY THE SUBCONTRACTOR AND BUILDER PRIOR TO THE COMMENCEMENT OF ANY WORKS.



THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED

REV	DESCRIPTION	DATE	APPVD	END/D
A	DA ISSUE	07.02.25	KB	-

ARCHITECT:



CLIENT:

DARREN WAMSLEY
P.O. BOX 755
TAREE NSW 2430
darren@mvpal.com.au
0488 723 355



WALLACE INFRASTRUCTURE DESIGN PTY LTD
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 96 154 894 952
PO BOX 23, CHARLESTOWN, NSW 2290
phone: (02) 49 294 109
email: info@wdesigngroup.com.au
web: www.wdesigngroup.com.au

PROJECT:

CIVIL WORKS for
LOT 2, DP 20629
97 WINGHAM ROAD
TAREE NSW 2430

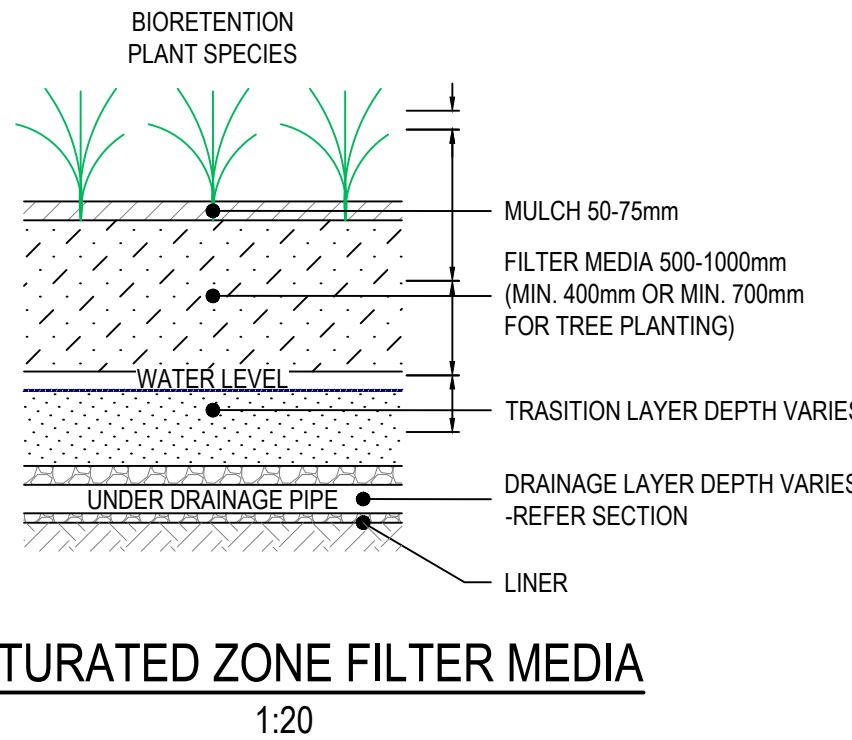
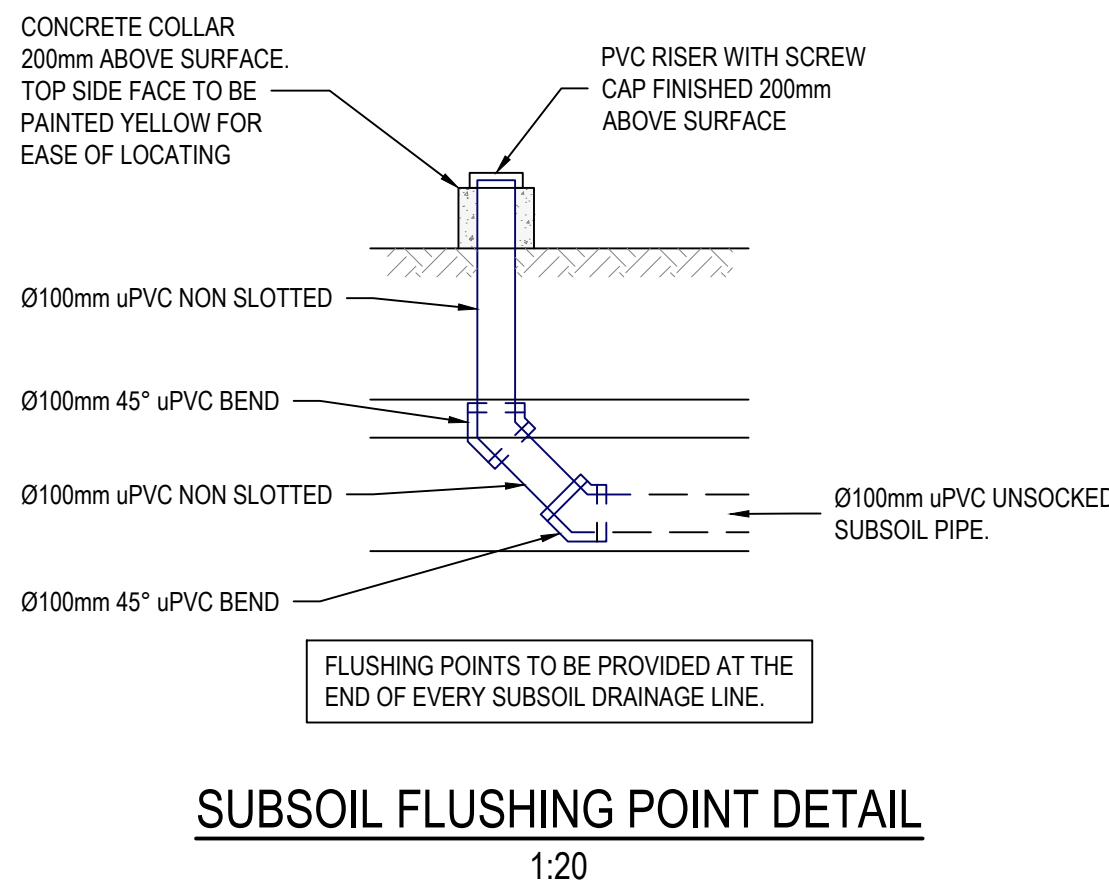
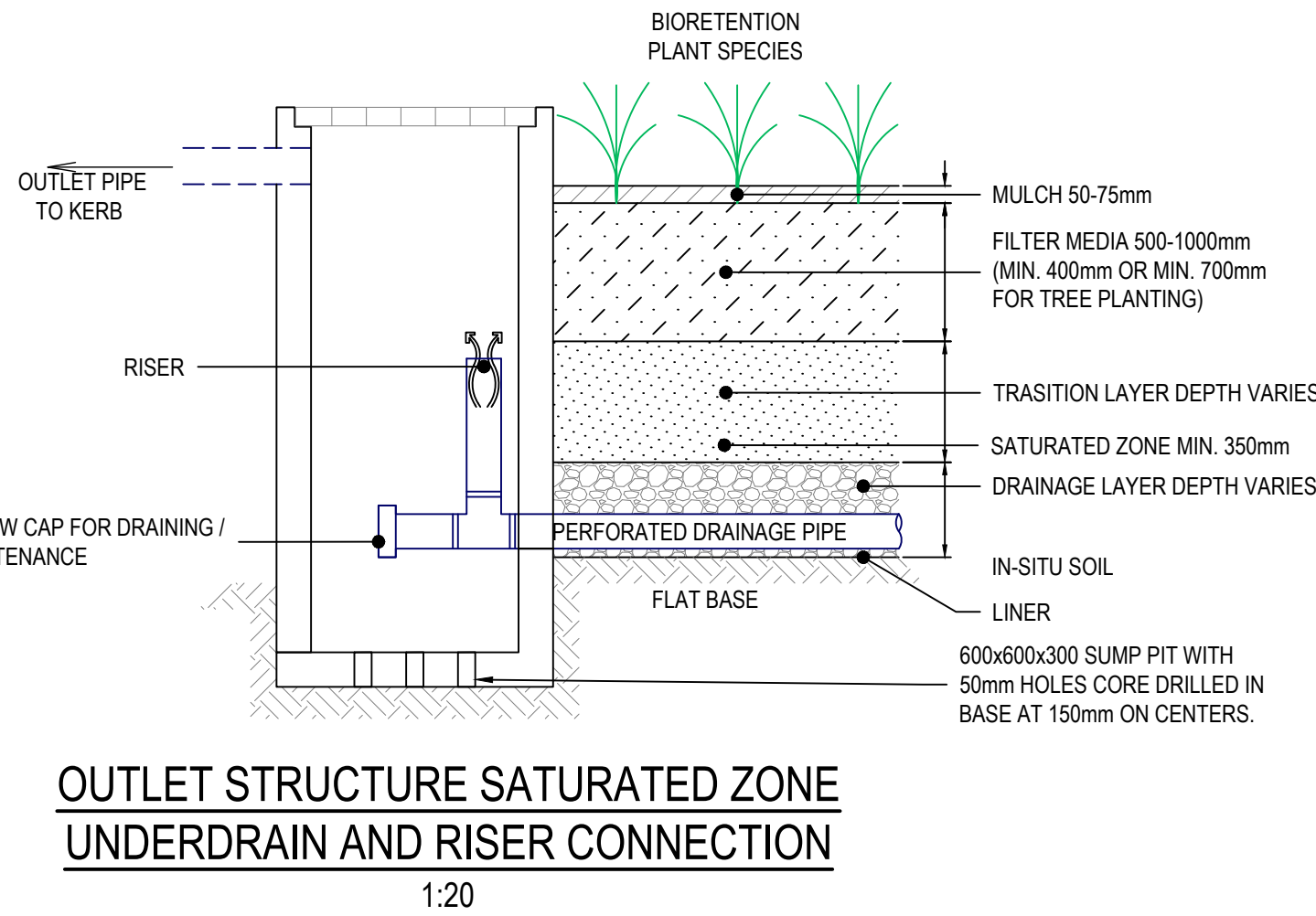
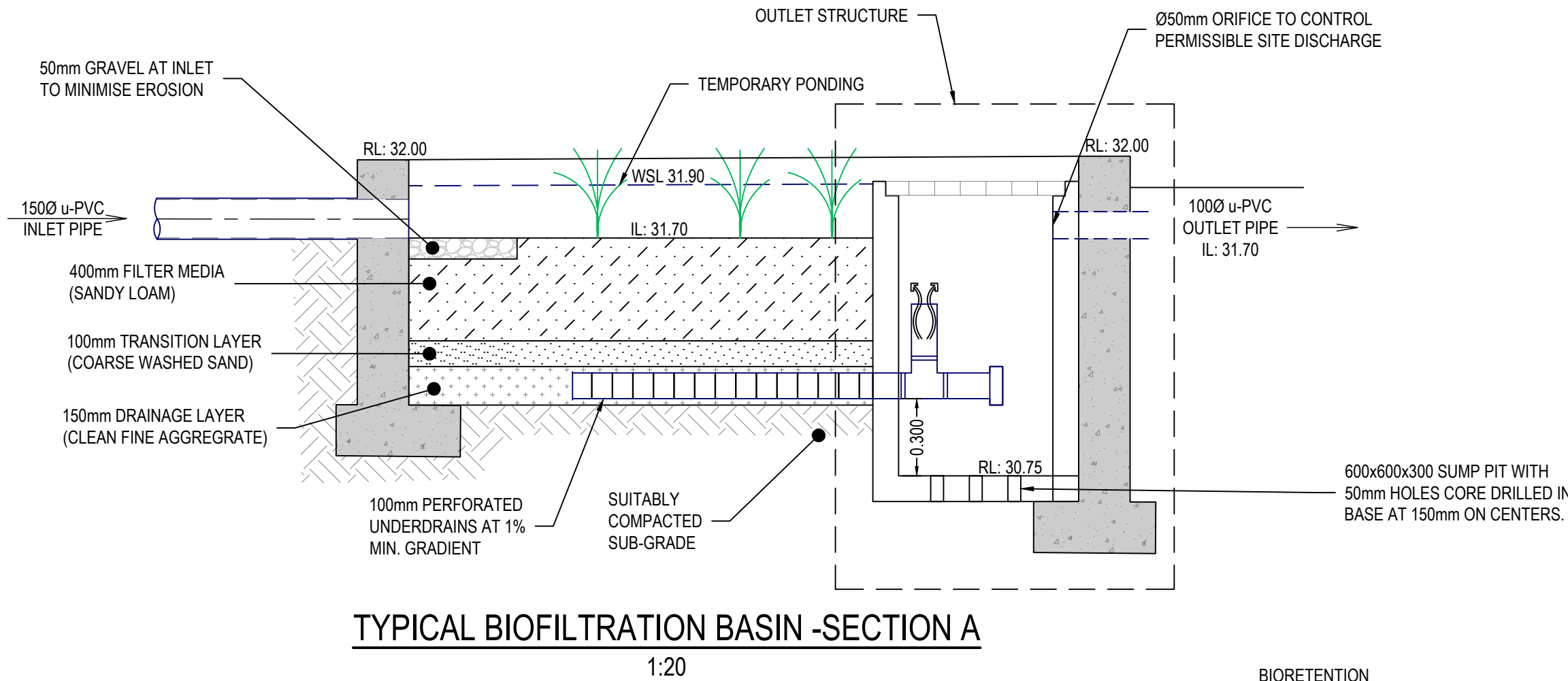
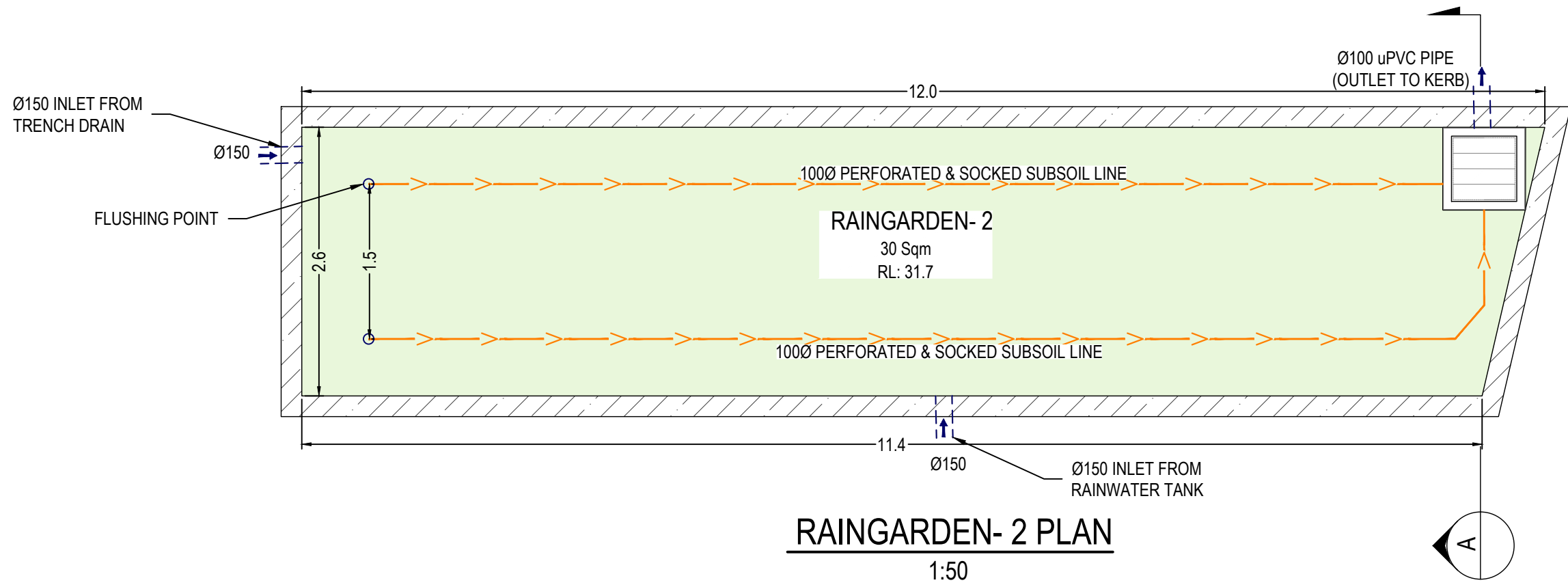
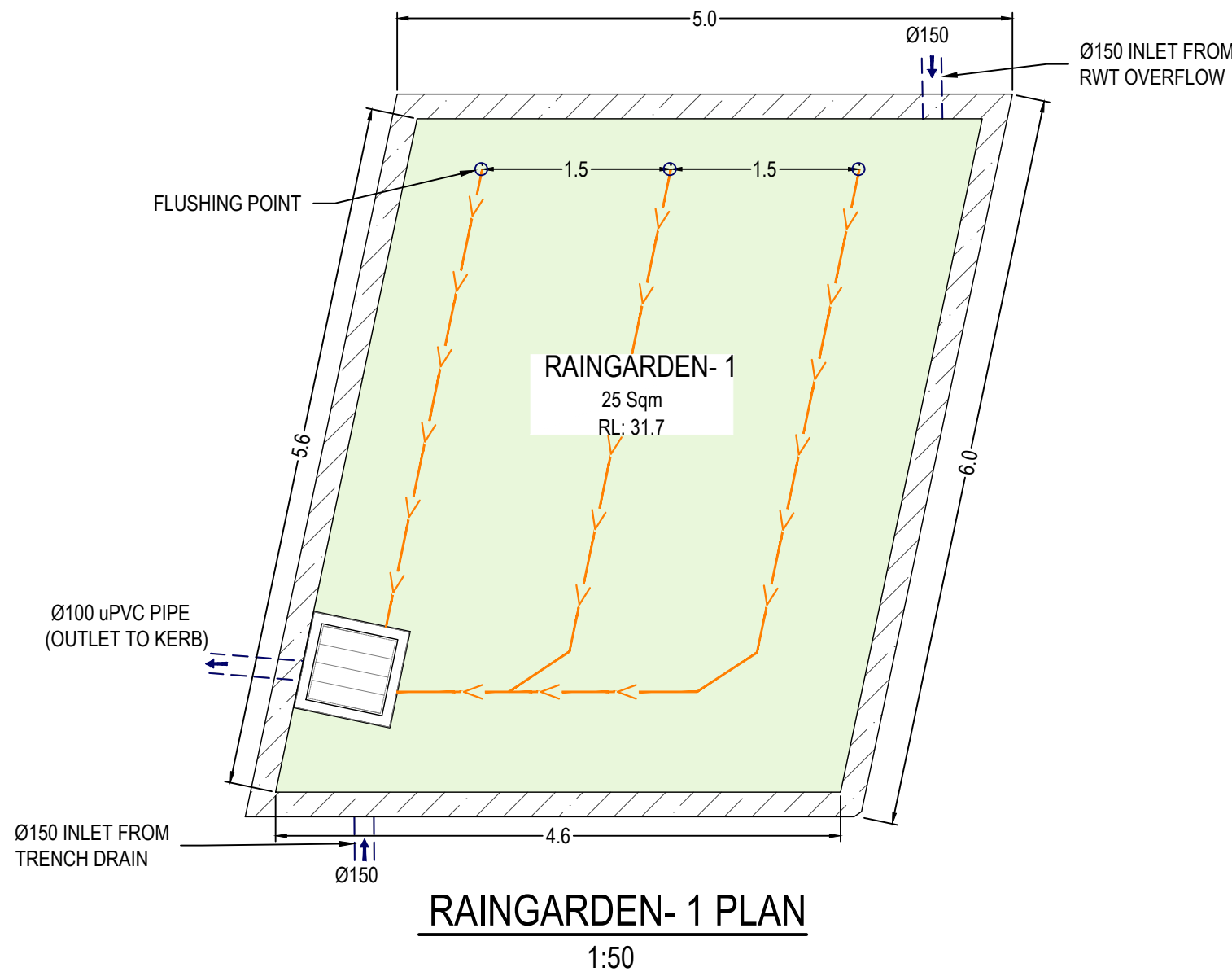
DRAWING TITLE:

CIVIL SERVICES
STORMWATER MANAGEMENT PLAN

DRAWING STATUS **DA APPROVAL**

NOT TO BE USED FOR CONSTRUCTION

SCALE:					ORIG. SIZE	
1:100					A1	
DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE	
AK	AK	KB	KB	--	07.02.25	
PROJECT No.				DRAWING No.		REV
24289				C05.01		A



BIORETENTION CONSTRUCTION NOTES:

- A 150mm TOPSOIL TEMPORARY SURFACE TREATMENT AND GEOTECTILE LAYER ARE TO BE INSTALLED WITHIN THE TOP 150mm OF THE FILTER MEDIA UNTIL SUCH TIME THAT THE UPSTREAM CATCHMENT DRAINING TO THE BASIN IS 80% DEVELOPED.
- ONCE THE UPSTREAM CATCHMENT AREA DRAINING TO THE BASIN IS 80% DEVELOPED, THE TOP LAYER IS TO BE REMOVED BY PEELING BACK AND DISPOSING OF THE GEOTECTILE LAYER, TOPSOIL AND TURF; AND REFILLING THE AREA WITH THE APPROPRIATE FILTER MEDIA, AND LANDSCAPING.
- THE FILTER MEDIA SPECIFICATION AND GRADING ARE TO BE VERIFIED BY COUNCIL'S INSPECTOR PRIOR TO PLACEMENT. RELEVANT MATERIAL SPECIFICATION SHEETS ARE TO BE PROVIDED BY THE CONTRACTOR.
- THE SUBSOIL DRAINAGE PIPES WITHIN THE BIORETENTION SYSTEM ARE TO BE SLOTTED 100mm uPVC CONSISTENT WITH AS/NZS 1254. JOINTS ARE TO BE SOLVENT CEMENT GLUED AND BENDS ARE TO BE 45° TO MINIMIZE BLOCKAGE.
- FILTER MEDIA TO BE LIGHTLY COMPACTED USING A SINGLE PASS VIBRATING PLATE OR ROLLER (ETC. DRUM LAWN ROLLER). UNDER NO CIRCUMSTANCES SHOULD HEAVY COMPACTION OR MULTIPLE PASSES BE MADE.
- FILTER MEDIA MUST BE INSTALLED IN TWO LIFTS UNLESS DEPTH OF MEDIA IS <500mm.
- DURING CONSTRUCTION, THE TOP 100mm OF THE MEDIA IS TO BE AMELIORATED WITH APPROPRIATE ORGANIC MATTER, FERTILISER AND TRACE ELEMENTS TO AID PLANT ESTABLISHMENT AS PER THE TABLE BELOW:

CONSTITUENT AND QUANTITY (kg/100m² OF FILTER AREA)

GRANULATED POULTRY MANURE FINES	50
SUPERPHOSPHATE	2
MAGNESIUM SULPHATE	3
POTASSIUM SULPHATE	2
TRACE ELEMENT MIX	1
FERTILIZER NPK (16.4.14)	4
LIME	20

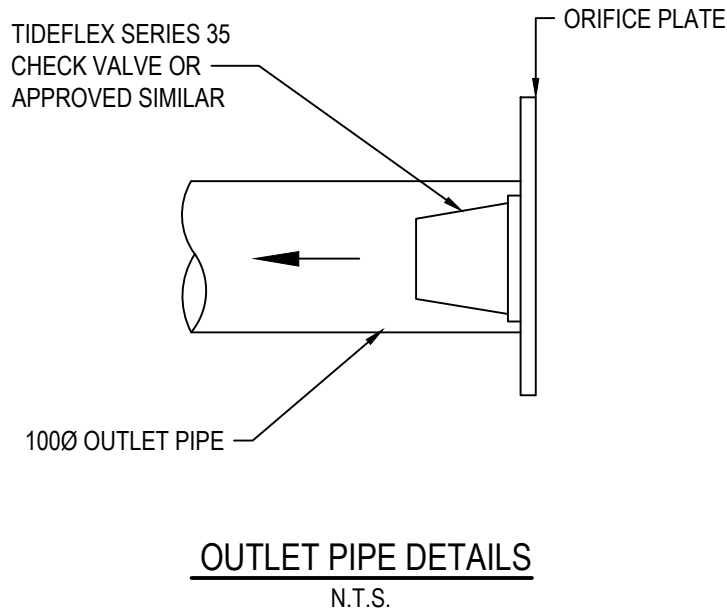
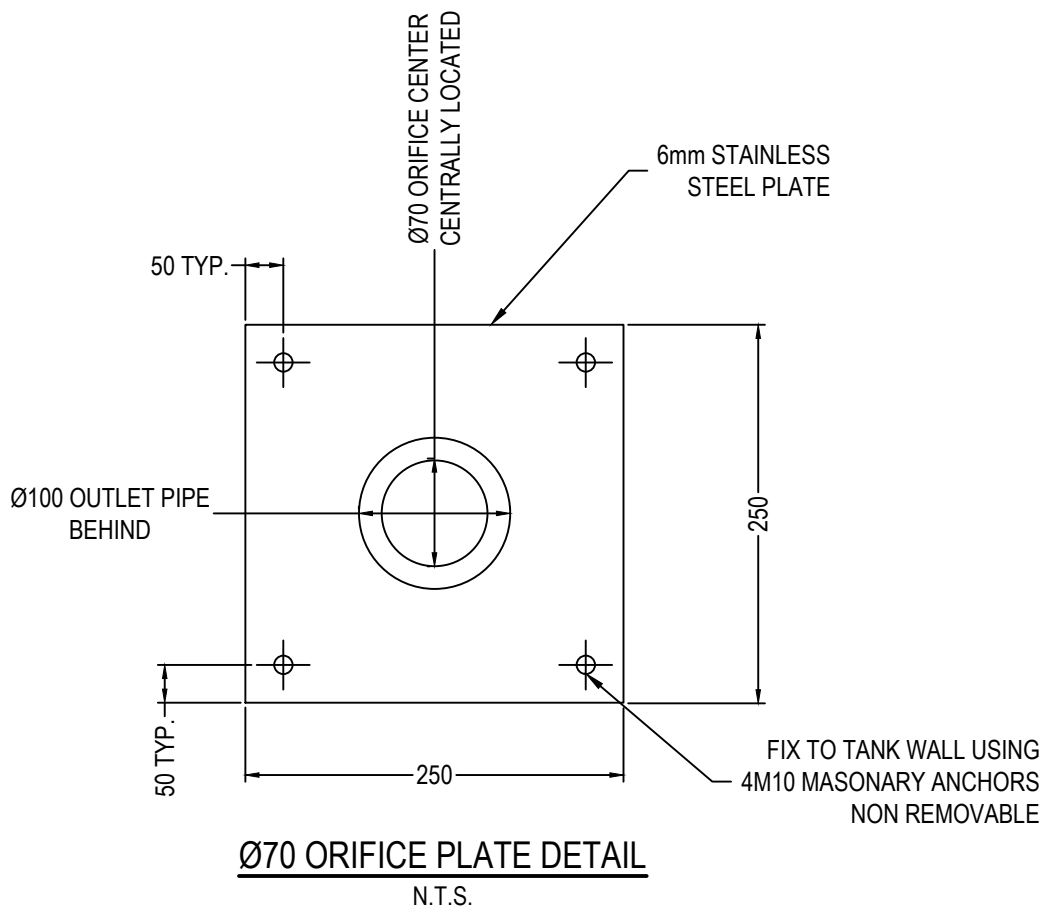
- THE MEDIA IS TO BE PLANTED IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT REQUIREMENTS.

NOTES:

- BIORETENTION FILTER MEDIA: SPECIFICATION AND HYDRAULIC CONDUCTIVITY SHALL BE IN ACCORDANCE WITH THE FACILITY FOR ADVANCING WATER BIOFILTRATION (FAWB, 2009) "ADOPTION GUIDELINES FOR STORMWATER BIOFILTRATION SYSTEM".
- THE FILTER MEDIA SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - pH BETWEEN 5.5 AND 7.5
 - ORTHOPHOSPHATE CONTENT = 50mg/kg
 - ORGANIC MATTER CONTENT 3 TO 5% w/w
 - TOTAL NITROGEN CONTENT = 800mg/kg
 - SATURATED HYDRAULIC CONDUCTIVITY = 180mm/hr
- THE FILTER MEDIA SHALL BE WELL GRADED AND GENERALLY BE A LOAMY SAND AND BE FREE OF CONTAMINANTS SUCH AS RUBBISH, DELETERIOUS MATERIAL, TOXICANTS, DECLARED PLANTS AND WEEDS AND SHOULD NOT BE HYDROPHOBIC.
- THE COURSE SAND TRANSITION LAYER SHALL BE OF A CLEAN WELL GRADED SAND/COARSE SAND MATERIAL CONTAINING LITTLE OR NO FINES.
- THE DRAINAGE LAYER SHALL BE OF A CLEAN FINE GRAVEL CONSISTING OF 5 TO 7mm WASHED SCREENINGS.
- REFER TO COUNCIL'S LANDSCAPE DESIGN GUIDELINES FOR TOPSOIL, MULCH AND PLANTING SPECIFICATIONS.

TYPICAL BIORETENTION FILTER MEDIA DETAIL

1:20



AutoCAD Civil 3D 2021

© COPYRIGHT: THIS DOCUMENT AND DESIGN REMAIN THE COPYRIGHT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING MUST NOT BE REPRODUCED IN ANY FORM WITHOUT THE CONSENT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING HAS BEEN PRODUCED FOR THE PURPOSE OF INDICATING THE DIAGRAMMATIC DESIGN INTENT AND SCOPE OF WORKS REQUIRED FOR THE INSTALLATION OF SERVICES AS DETAILED, AND PERTAINED WITHIN THE SPECIFICATION AND SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SPECIFICATION, ASSOCIATED SPECIFICATION, CODES AND STANDARDS. ALL DIMENSIONS, LEVELS AND EXISTING SERVICES SHALL BE INVESTIGATED AND CONFIRMED ON SITE BY THE SUBCONTRACTOR AND BUILDER PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DWG IN COLOUR

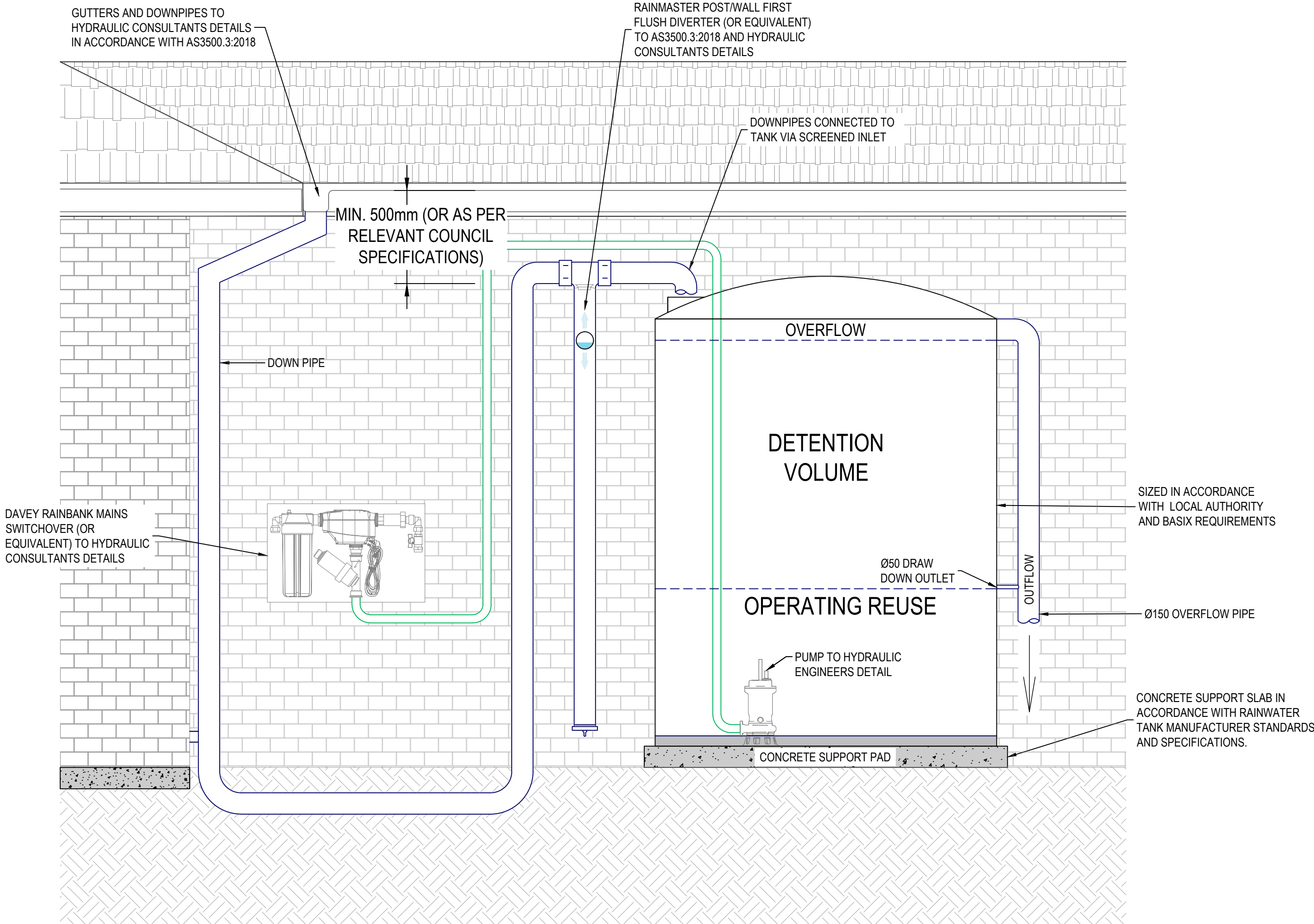
THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED					ARCHITECT:	
					TIM CROSS 02 65536114 / 0429021748 timross1@bigpond.com	
CLIENT:					DARREN WAMSLEY P.O. BOX 755 TAREE NSW 2430 darren@mvpal.com.au 0488 723 355	
					WALLACE INFRASTRUCTURE DESIGN PTY LTD PART OF WALLACE DESIGN GROUP PTY LTD ABN: 96 154 894 952 PO BOX 23, CHARLESTOWN, NSW 2290 phone: (02) 49 294 109 email: civil@wdesigngroup.com.au web: www.wdesigngroup.com.au	
PROJECT:					CIVIL WORKS for LOT 2, DP 20629 97 WINGHAM ROAD TAREE NSW 2430	
DRAWING TITLE:					CIVIL SERVICES RAINGARDEN TYPICAL SECTION & DETAILS	
DRAWING STATUS:					DA APPROVAL NOT TO BE USED FOR CONSTRUCTION	
SCALE:					1:50 1:20 ORIG. SIZE A1	
DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE	
AK	AK	KB	KB	--	07.02.25	
PROJECT No.					DRAWING No.	
24289					C06.01	
					REV A	

PLOTTED BY: ARYAN DATE: 7 February 2025 11 5 AM FILENAME: O:\PROJECTS\2024\24289 - 97 WINGHAM ROAD, TAREE\CAD\TITLE\24289_CIV_DA-[A]- 97 WINGHAM RD

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.

RAINWATER TANK				
REUSE TANK	REUSE VOL (kL)	DRAW DOWN OUT, IL (m)	OSD VOL (kL)	O/F IL (m)
EXISTING HOUSE	2	0.435+ BASE RL	7	1.82+ BASE RL
UNIT 1	2	0.435+ BASE RL	7	1.82+ BASE RL
UNIT 2	2	0.484+ BASE RL	6	1.82+ BASE RL
UNIT 3	2	0.484+ BASE RL	6	1.82+ BASE RL



TYPICAL ABOVEGROUND
RAINWATER REUSE TANK SECTION
NTS

AutoCAD Civil 3D 2021

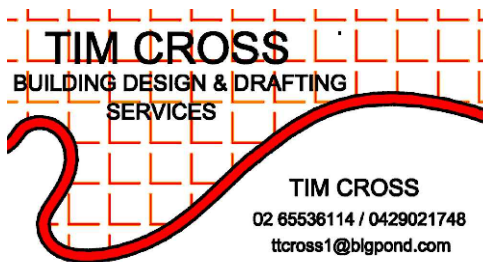
© COPYRIGHT: THIS DOCUMENT AND DESIGN REMAIN THE COPYRIGHT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING MUST NOT BE REPRODUCED IN ANY FORM WITHOUT THE CONSENT OF WALLACE INFRASTRUCTURE DESIGN PTY LTD. THIS DRAWING HAS BEEN PRODUCED FOR THE PURPOSE OF INDICATING THE DIAGRAMMATIC DESIGN INTENT AND SCOPE OF WORKS REQUIRED FOR THE INSTALLATION OF SERVICES AS DETAILED, AND PERTAINED WITHIN THE SPECIFICATION AND SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SPECIFICATION, ASSOCIATED SPECIFICATION, CODES AND STANDARDS. ALL DIMENSIONS, LEVELS AND EXISTING SERVICES SHALL BE INVESTIGATED AND CONFIRMED ON SITE BY THE SUBCONTRACTOR AND BUILDER PRIOR TO THE COMMENCEMENT OF ANY WORKS.



THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED

REV	DESCRIPTION	DATE	APPVD	ENDOD
A	DA ISSUE	07.02.25	KB	-

ARCHITECT:



CLIENT:

DARREN WAMSLEY
P.O. BOX 755
TAREE NSW 2430
darren@mvpal.com.au
0488 723 355



**WALLACE INFRASTRUCTURE
DESIGN PTY LTD**
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 96 154 694 952
PO BOX 23, CHARLESTOWN, NSW 2290
phone: (02) 49 294 109
email: info@wdsgrgroup.com.au
web: www.wdsgrgroup.com.au

PROJECT:

CIVIL WORKS for
LOT 2, DP 20629
97 WINGHAM ROAD
TAREE NSW 2430

DRAWING TITLE:

CIVIL SERVICES
RAINWATER TANK DETAILS

DRAWING STATUS **DA APPROVAL**
NOT TO BE USED FOR CONSTRUCTION

SCALE:					ORIG. SIZE
N.T.S.					A1
DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE
AK	AK	KB	KB	--	07.02.25
PROJECT No.		DRAWING No.			REV
24289		C06.02			A