

PROPOSED MULTI-DWELLING HOUSING

10 LAGOON STREET & 75-77 MURRAY STREET MORUYA



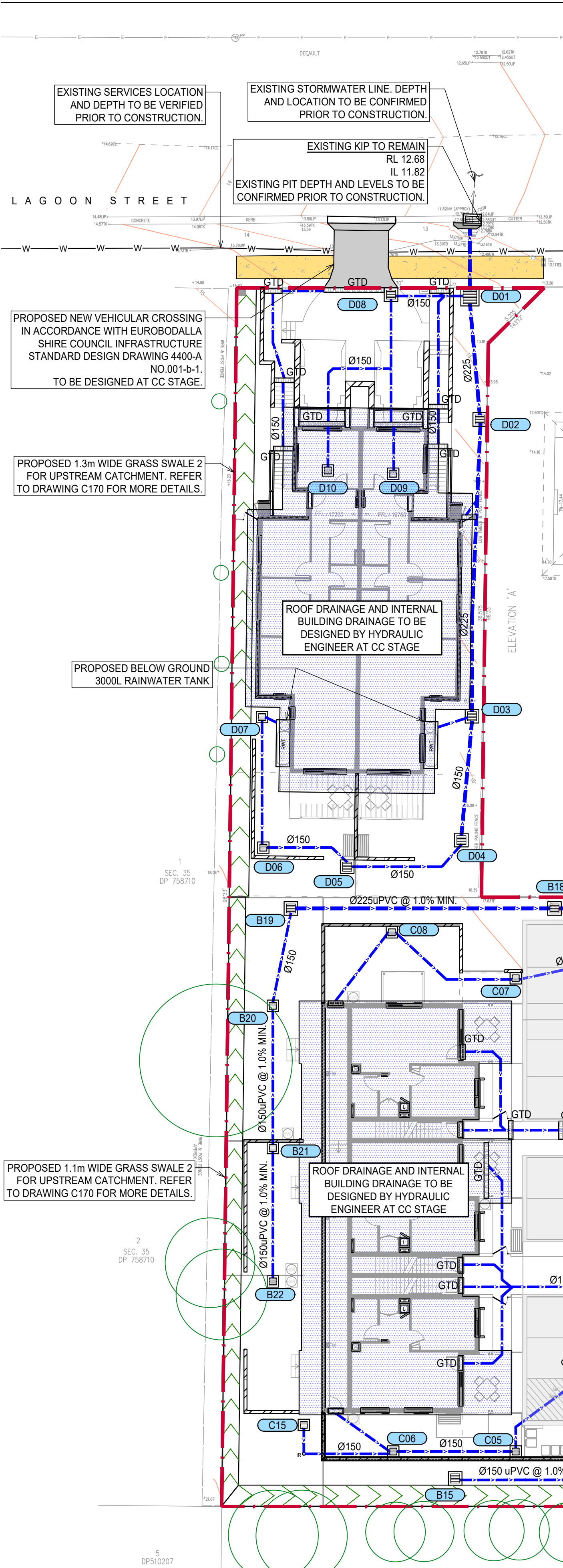
LOCALITY PLAN
IMAGE FROM SIXMAPS
05.04.2023

DRAWING SCHEDULE	
DRAWING NO.	DRAWING NAME
C000	COVER SHEET
C100	GENERAL ARRANGEMENT
C101	STORMWATER MANAGEMENT PLAN - LEVEL 00 PART 01
C102	STORMWATER MANAGEMENT PLAN - LEVEL 00 PART 02
C103	STORMWATER MANAGEMENT PLAN - LEVEL 01 PART 01
C104	STORMWATER MANAGEMENT PLAN - LEVEL 01 PART 02
C105	STORMWATER MANAGEMENT PLAN - LEVEL 02
C150	MUSIC RESULTS AND CATCHMENT AREA BREAKDOWN
C160	DRAINAGE LONG SECTIONS
C170	UPSTREAM CATCHMENT
C200	STORMWATER DRAINAGE DETAILS - SHEET 1
C201	STORMWATER DRAINAGE DETAILS - SHEET 2
C300	SOIL AND WATER MANAGEMENT PLAN
C350	SOIL AND WATER MANAGEMENT DETAILS



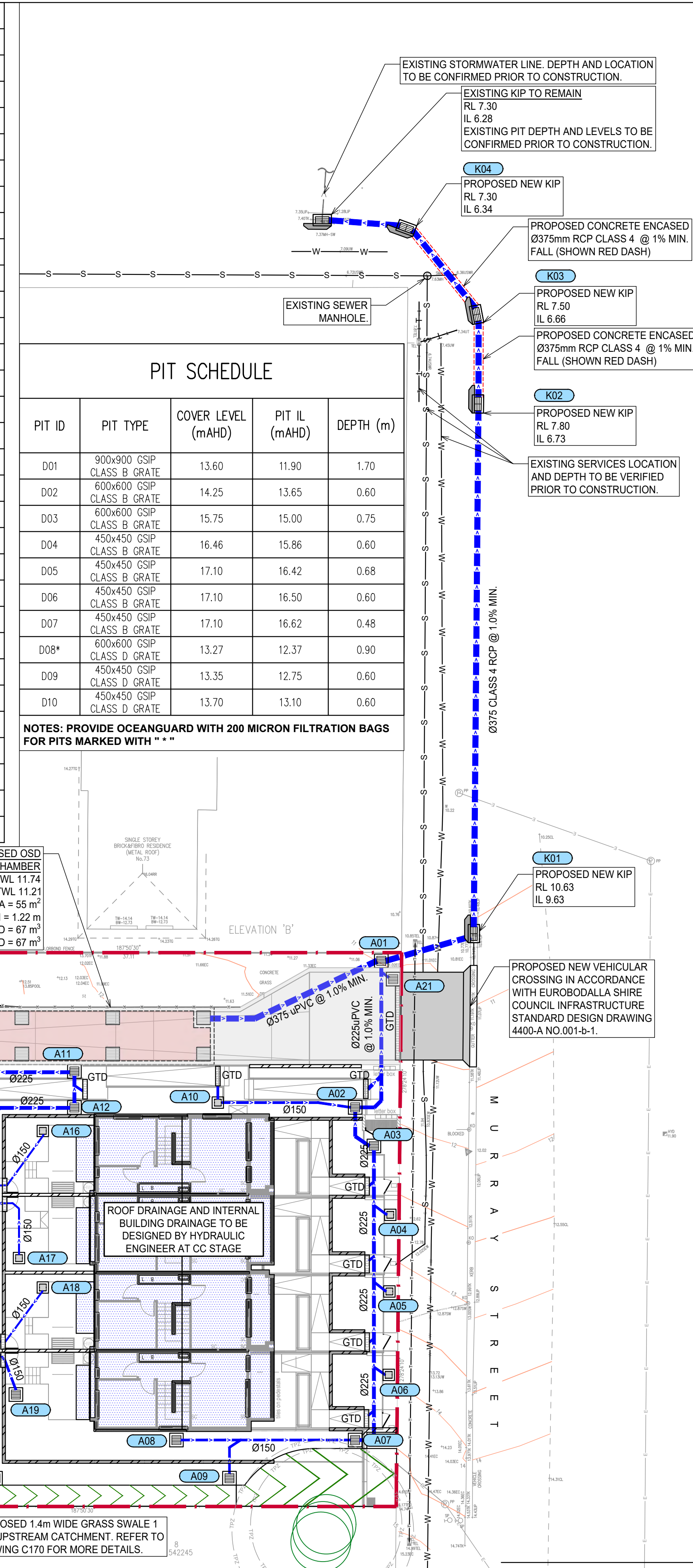
DEVELOPMENT APPLICATION

				Architect KENNEDY ASSOCIATES ARCHITECTS LEVEL 3 / 1 BOOTH ST ANNANDALE NSW 2038				Client PLANNING, INDUSTRY & ENVIRONMENT CLIENT ADDRESS				XAVIER KNIGHT				T : 02 8810 5800 E : info@xavierknight.com.au A : Level 7, 210 Clarence Street, Sydney NSW 2000 xavierknight.com.au This drawing is copyright and is the property of XAVIER KNIGHT CONSULTING ENGINEERS Pty. Ltd. and must not be used without authorisation.				North N				Project 10 LAGOON STREET MORUYA 10 MORUYA ST & 75-77 MURRAY ST MORUYA				Scale at A1 Drawn MH Approved JW			
A ISSUE FOR DEVELOPMENT APPLICATION				MH		MH		16.02.2024										Sheet Subject				Job No				Drawing No		Revision			
Rev Description				Eng		Draft		Date										COVER SHEET				221106				C000		A			



PIT SCHEDULE				
PIT ID	PIT TYPE	COVER LEVEL (mAHD)	PIT IL (mAHD)	DEPTH (m)
A01	600x600 GSP CLASS B GRATE	10.93	10.12	0.81
A02	600x600 GSP CLASS B GRATE	11.85	11.00	0.85
A03	600x600 GSP CLASS B GRATE	11.98	11.08	0.90
A04	450x450 GSP CLASS B GRATE	12.60	12.10	0.50
A05	450x450 GSP CLASS B GRATE	13.20	12.70	0.50
A06	450x450 GSP CLASS B GRATE	14.00	13.50	0.50
A07	600x600 GSP CLASS B GRATE	14.50	13.90	0.60
A08	450x450 GSP CLASS B GRATE	14.50	14.00	0.50
A09	600x600 GSP CLASS B GRATE	15.00	14.50	0.50
A10	450x450 GSP CLASS B GRATE	12.30	11.80	0.50
A11	600x600 GSP CLASS B GRATE	12.85	12.20	0.65
A12	450x450 GSP CLASS B GRATE	12.85	12.25	0.60
A13	450x450 GSP CLASS B GRATE	13.50	13.00	0.50
A14	600x600 GSP CLASS B GRATE	14.00	13.10	0.90
A15	600x600 GSP CLASS B GRATE	15.60	15.00	0.60
A16	450x450 GSP CLASS B GRATE	13.55	13.00	0.55
A17	450x450 GSP CLASS B GRATE	13.55	13.00	0.55
A18	450x450 GSP CLASS B GRATE	13.95	13.40	0.55
A19	450x450 GSP CLASS B GRATE	14.00	13.40	0.60
A20	450x450 GSP CLASS B GRATE	14.30	13.80	0.50
A21*	600x600 GSP CLASS D GRATE	11.02	10.14	0.88
B01	900x900 GSP CLASS D GRATE	13.88	12.20	1.68
B02	900x900 GSP CLASS D GRATE	14.25	12.30	1.95
B03	600x600 GSP CLASS D GRATE	14.23	13.40	0.83
B04	600x600 GSP CLASS D GRATE	14.31	13.51	0.80
B05	600x600 GSP CLASS B GRATE	14.55	13.75	0.80
B06	450x450 GSP CLASS B GRATE	14.47	13.92	0.55
B07	450x450 GSP CLASS B GRATE	14.47	14.02	0.45

B08	450x450 GSP CLASS B GRATE	14.47	13.91	0.56
B09	450x450 GSP CLASS B GRATE	14.45	14.00	0.45
B10	450x450 GSP CLASS B GRATE	14.55	14.00	0.55
B11	600x600 GSP CLASS B GRATE	14.45	13.75	0.70
B12	600x600 GSP CLASS B GRATE	16.65	15.75	0.90
B13	600x600 GSP CLASS B GRATE	17.45	16.55	0.90
B14	600x600 GSP CLASS B GRATE	18.50	17.60	0.90
B15	600x600 GSP CLASS B GRATE	19.60	18.70	0.90
B16	600x600 GSP CLASS B GRATE	13.00	12.40	0.60
B17	600x600 GSP CLASS B GRATE	14.50	13.60	0.90
B18	600x600 GSP CLASS B GRATE	16.00	15.10	0.90
B19	600x600 GSP CLASS B GRATE	18.10	17.10	1.00
B20	450x450 GSP CLASS B GRATE	18.75	18.15	0.60
B21	450x450 GSP CLASS B GRATE	19.93	19.33	0.60
B22	450x450 GSP CLASS B GRATE	20.20	19.60	0.60
B23	450x450 GSP CLASS B GRATE	14.50	14.00	0.50
B24	600x600 GSP CLASS D GRATE	14.40	13.70	0.70
C01	600x600 GSP CLASS D GRATE	16.60	15.70	0.90
C02	600x600 GSP CLASS D GRATE	16.80	16.10	0.70
C03	600x600 GSP CLASS D GRATE	16.97	16.27	0.70
C04	600x600 GSP CLASS D GRATE	17.18	16.48	0.70
C05	450x450 GSP CLASS B GRATE	17.42	16.82	0.60
C06	450x450 GSP CLASS B GRATE	17.42	16.97	0.45
C07	450x450 GSP CLASS B GRATE	16.80	16.24	0.56
C08	450x450 GSP CLASS B GRATE	16.80	16.35	0.45
C09	450x450 GSP CLASS B GRATE	17.25	16.75	0.50
C10	450x450 GSP CLASS B GRATE	17.25	16.80	0.45
C11	450x450 GSP CLASS B GRATE	17.30	16.80	0.50
C12	450x450 GSP CLASS B GRATE	17.30	16.85	0.45
C13	450x450 GSP CLASS B GRATE	17.50	17.05	0.45
C14	450x450 GSP CLASS B GRATE	17.45	17.00	0.45
C15	600x600 GSP CLASS B GRATE	20.40	19.50	0.90



KEY PLAN

LEGEND

- SITE BOUNDARY
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- SUBSOIL LINE
- PROPOSED SAFETY BARRIER
- PROPOSED GRATED DRAIN
- EXISTING TELECOMMUNICATION LINE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- RETAINING WALL
- GRATED SURFACE INLET PIT
- SEALED JUNCTION PIT
- DISH DRAIN OUTLET
- INSPECTION RISER
- PIT TAG/NUMBER
- FLOOR WASTE
- PROPOSED FINISHED LEVELS
- PROPOSED RETAINING WALL LEVELS
- EXISTING TREE TO BE REMAIN
- TPZ EXTENT

NOTES:

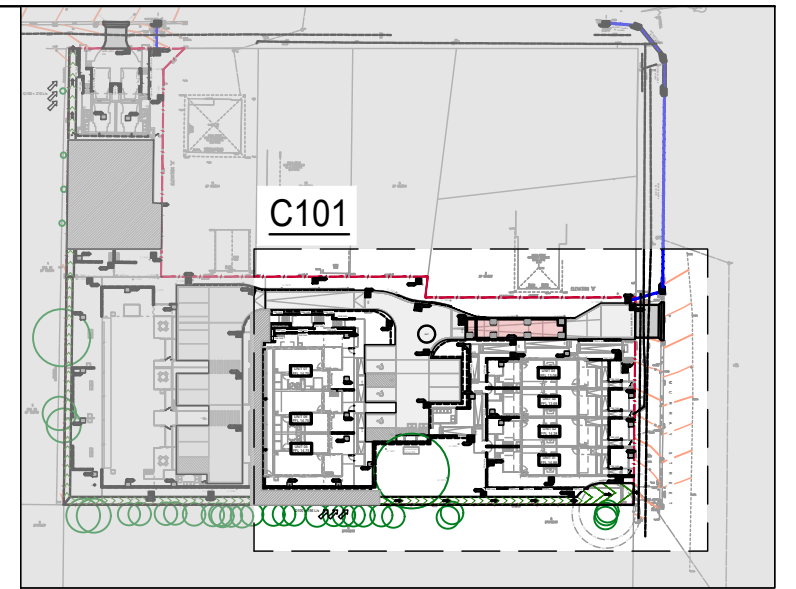
- ALL SERVICES LINES ARE INDICATIVE AND TO BE CONFIRMED BY THE OTHERS PRIOR TO CONSTRUCTION.
- SLAB TO BE GRADED 1% TOWARDS PITS TO MEET REQUIREMENTS OF AS 2890.
- ALL PIPES ARE Ø100mm uPVC @ 1% U.N.O.
- ALL DOWN PIPES ARE Ø100mm uPVC @ 1% U.N.O.
- SERVICES ON THIS DRAWING ARE SHOWN BELOW SLAB U.N.O.
- ALL REDUCED LEVELS ARE IN mAHD.
- ALL GSP GRATES HAVE CHILDPROOF LOCKS.
- ALL GRATED DRAINS LOCATED IN DRIVEWAY TO BE 200x200 GTD WITH CLASS D GRATE.
- ALL GRATED DRAINS LOCATED OUTSIDE OF DRIVEWAY TO BE 100x100 GTD WITH CLASS B GRATE
- REFER TO HYDRAULIC CONSULTANT'S DRAWINGS FOR INTERNAL BUILDING AND ROOF DRAINAGE DESIGN.
- GRATE AND FRAME OF STORMWATER COMPONENTS INCLUDING PITS, GTD, GPT, RWO AND PD ARE TO BE LIGHT DUTY OR CLASS B IN LANDSCAPE AREA U.N.O.
- GRATE AND FRAME OF STORMWATER COMPONENTS INCLUDING PITS, GTD, GPT, RWO AND PD ARE TO BE HEAVY DUTY OR CLASS D IN AREA SUBJECT TO VEHICULAR ROAD U.N.O.
- ALL EXTERNAL SITE WORKS ARE SUBJECT TO COUNCIL'S APPROVAL.
- REFER TO DRAWING C102 FOR PIT TABLES AND DETAILS.

LEGEND

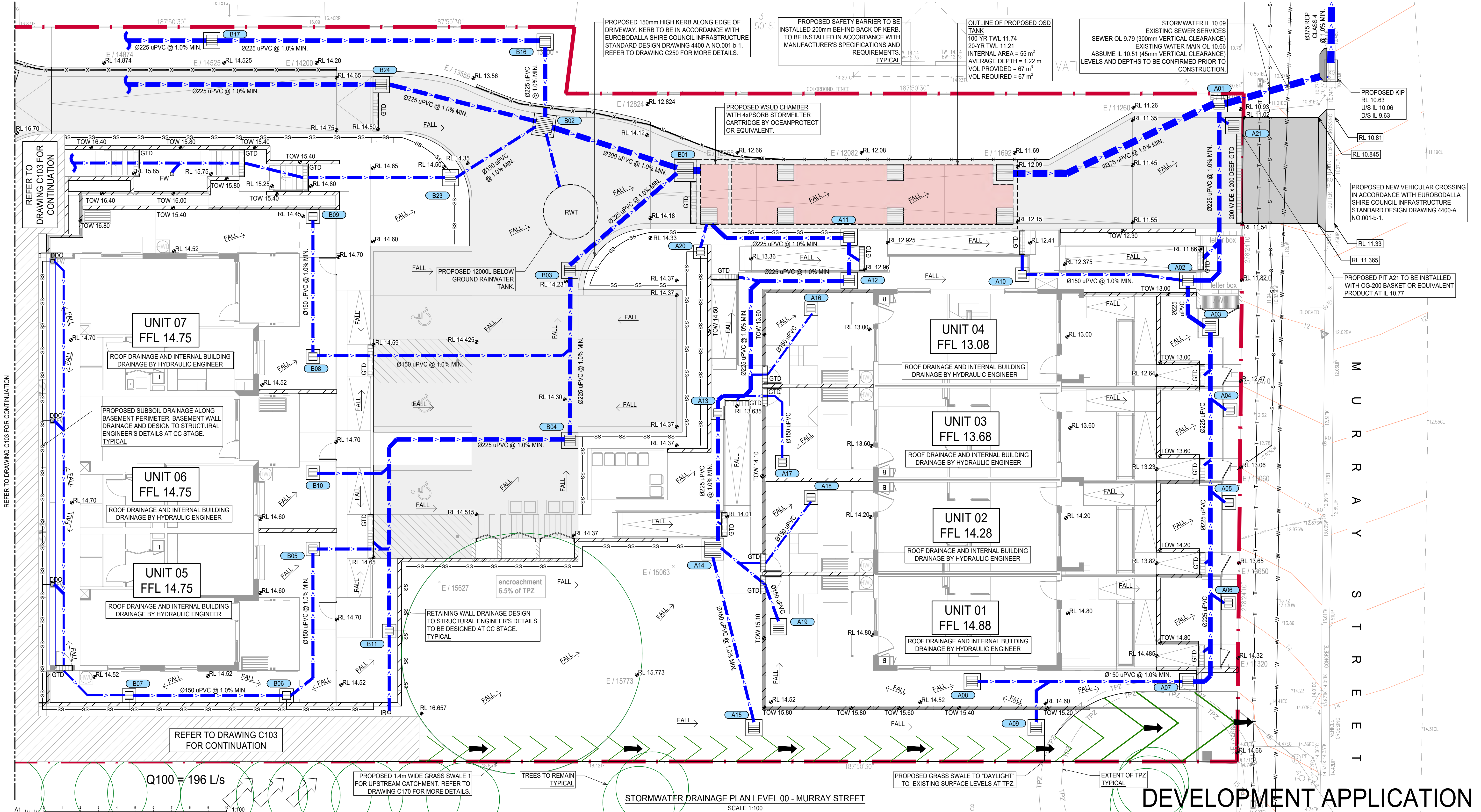
	SITE BOUNDARY		PROPOSED STORMWATER LINE		EXISTING TELECOMMUNICATION LINE		PIT TAG/NUMBER
	PROPOSED STORMWATER LINE		EXISTING STORMWATER LINE		EXISTING SEWER LINE		FLOOR WASTE
	EXISTING STORMWATER LINE		EXISTING WATER LINE		EXISTING WATER LINE		PROPOSED FINISHED LEVELS
	SUBSOIL LINE		GRATED SURFACE INLET PIT		GRATED SURFACE INLET PIT		PROPOSED RETAINING WALL LEVELS
	PROPOSED SAFETY BARRIER		SEALED JUNCTION PIT		SEALED JUNCTION PIT		EXISTING TREE TO BE REMAIN
	PROPOSED GRATED DRAIN		DISH DRAIN OUTLET		DISH DRAIN OUTLET		TPZ EXTENT
	RETAINING WALL		INSPECTION RISER		INSPECTION RISER		

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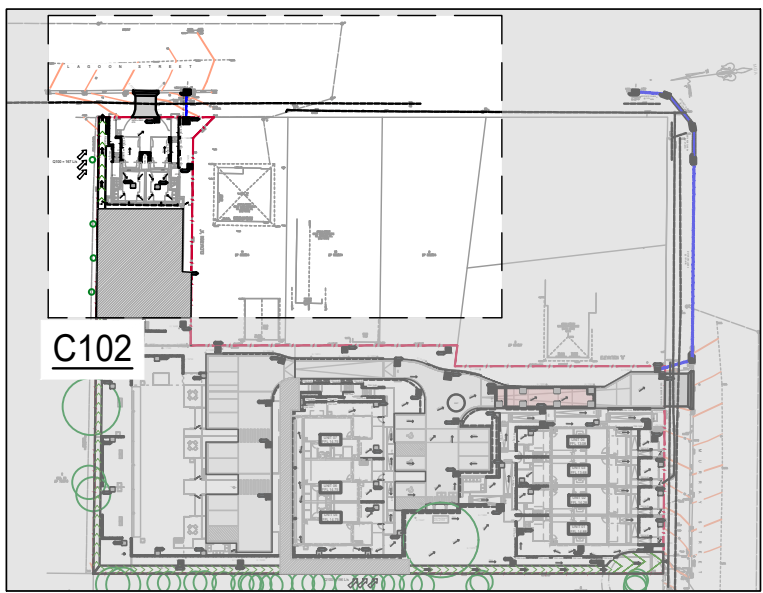
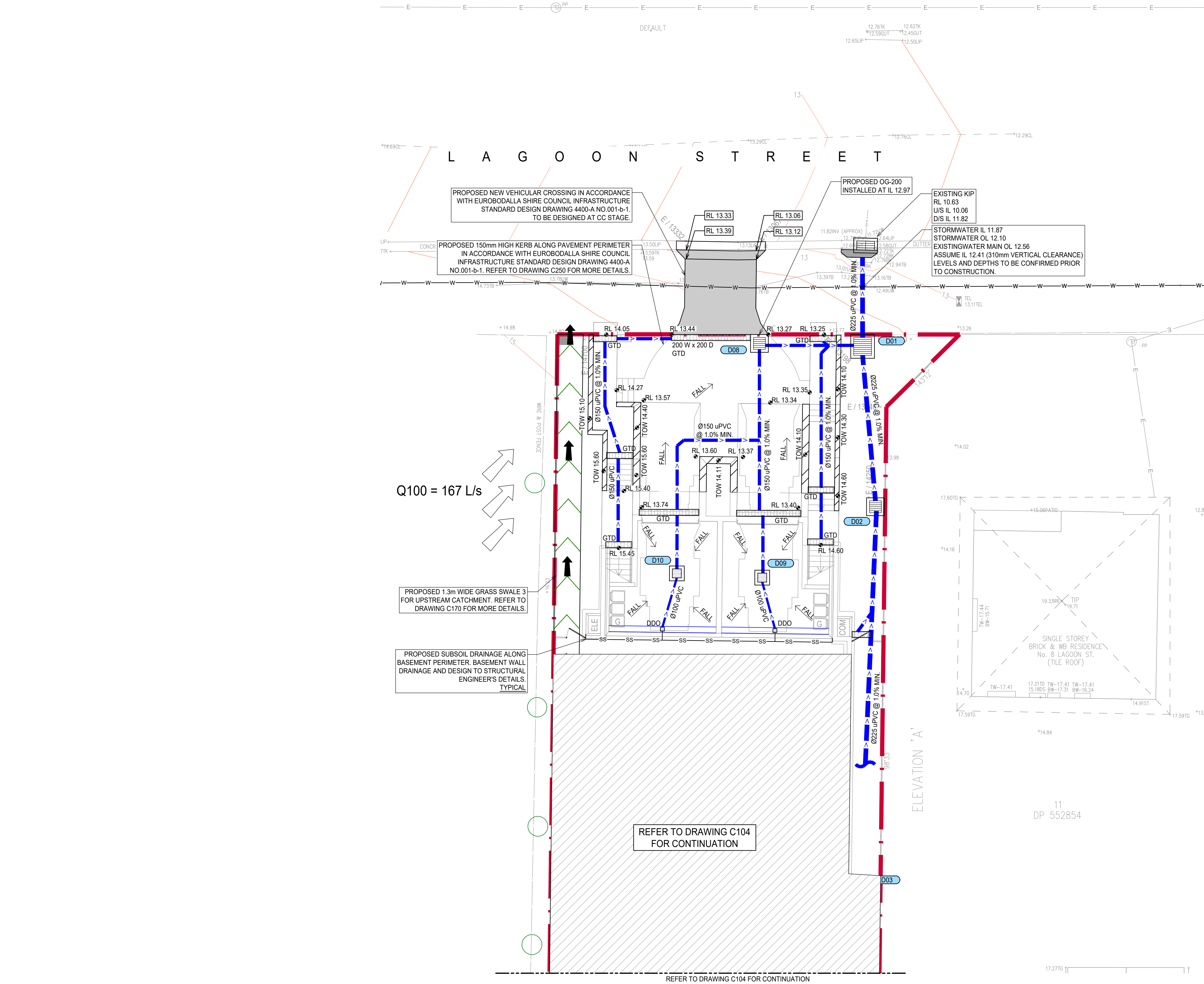


KEY PLAN



DEVELOPMENT APPLICATION

ARCHITECT KENNEDY ASSOCIATES ARCHITECTS LEVEL 3 / 1 BOOTH ST ANNANDALE NSW 2038				CLIENT PLANNING, INDUSTRY & ENVIRONMENT CLIENT ADDRESS				PROJECT 10 LAGOON STREET MORUYA 10 MORUYA ST & 75-77 MURRAY ST MORUYA				Scale at A1 1:100				Drawn MH				Approved JW			
Rev				Description				Job No 221106				Drawing No C101				Revision A							



KEY PLAN

LEGEND

- SITE BOUNDARY
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- SUBSOIL LINE
- PROPOSED SAFETY BARRIER
- PROPOSED GRATED DRAIN
- EXISTING TELECOMMUNICATION LINE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- RETAINING WALL
- GRATED SURFACE INLET PIT
- SEALED JUNCTION PIT
- DISH DRAIN OUTLET
- INSPECTION RISER
- PIT TAG/NUMBER
- FLOOR WASTE
- PROPOSED FINISHED LEVELS
- PROPOSED RETAINING WALL LEVELS
- EXISTING TREE TO BE REMAIN
- TPZ EXTENT
- OVERLAND FLOW PATH

NOTES:

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- ALL EXTERNAL SITE WORKS ARE SUBJECT TO COUNCIL'S APPROVAL.
- REFER TO DRAWING C100 FOR PIT TABLES AND DETAILS.

A1 1:100

Rev	Description	Eng	Draft	Date
A	ISSUE FOR DEVELOPMENT APPLICATION	MH	MH	16.02.2024

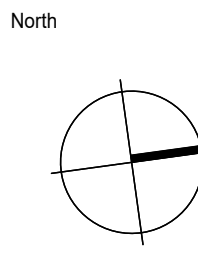
Architect
KENNEDY ASSOCIATES ARCHITECTS
LEVEL 3 / 1 BOOTH ST ANNANDALE NSW 2038

Client
PLANNING, INDUSTRY & ENVIRONMENT
CLIENT ADDRESS



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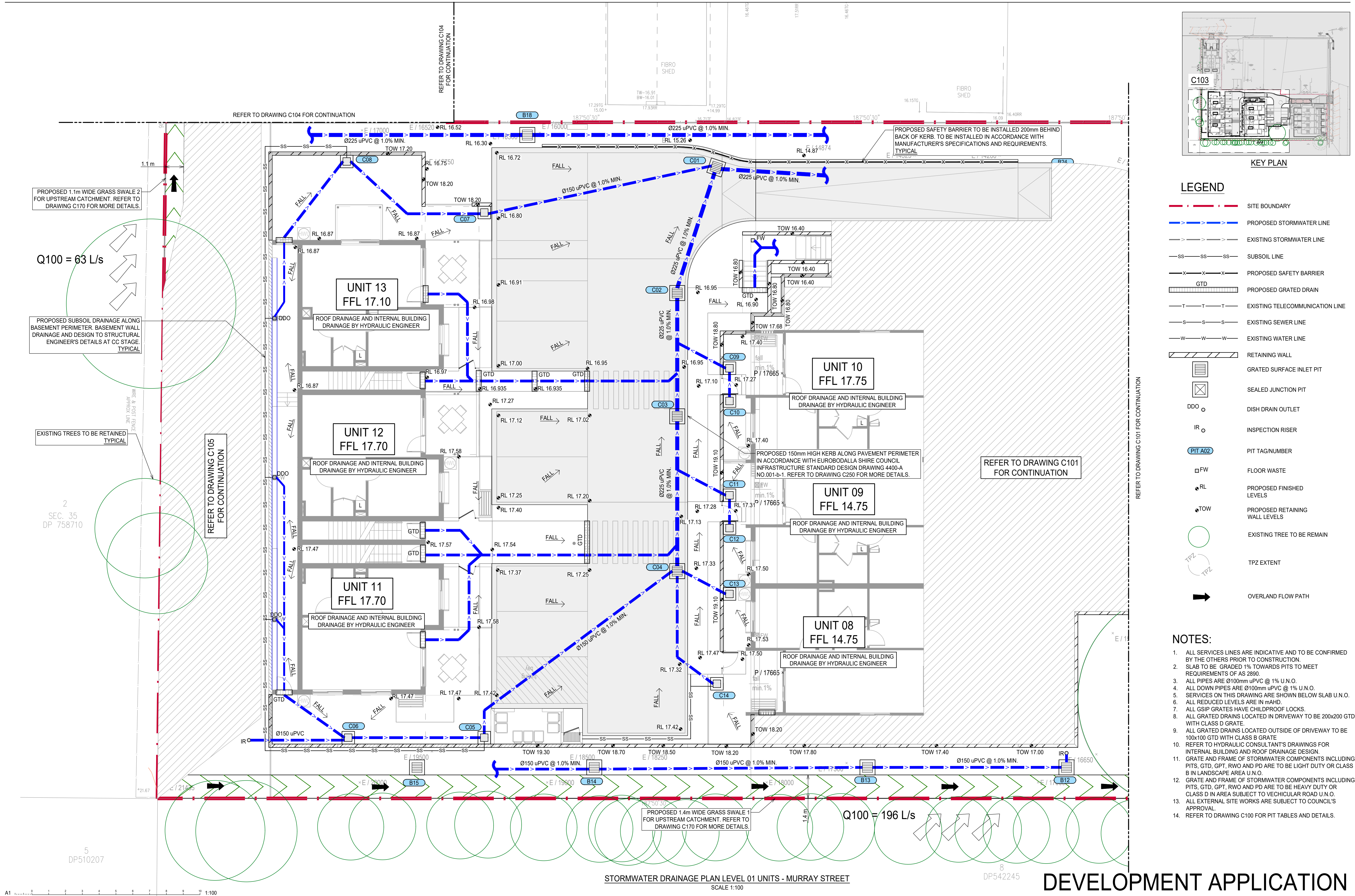
Project
10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA

Sheet Subject
STORMWATER MANAGEMENT PLAN -
LEVEL 00 PART 02

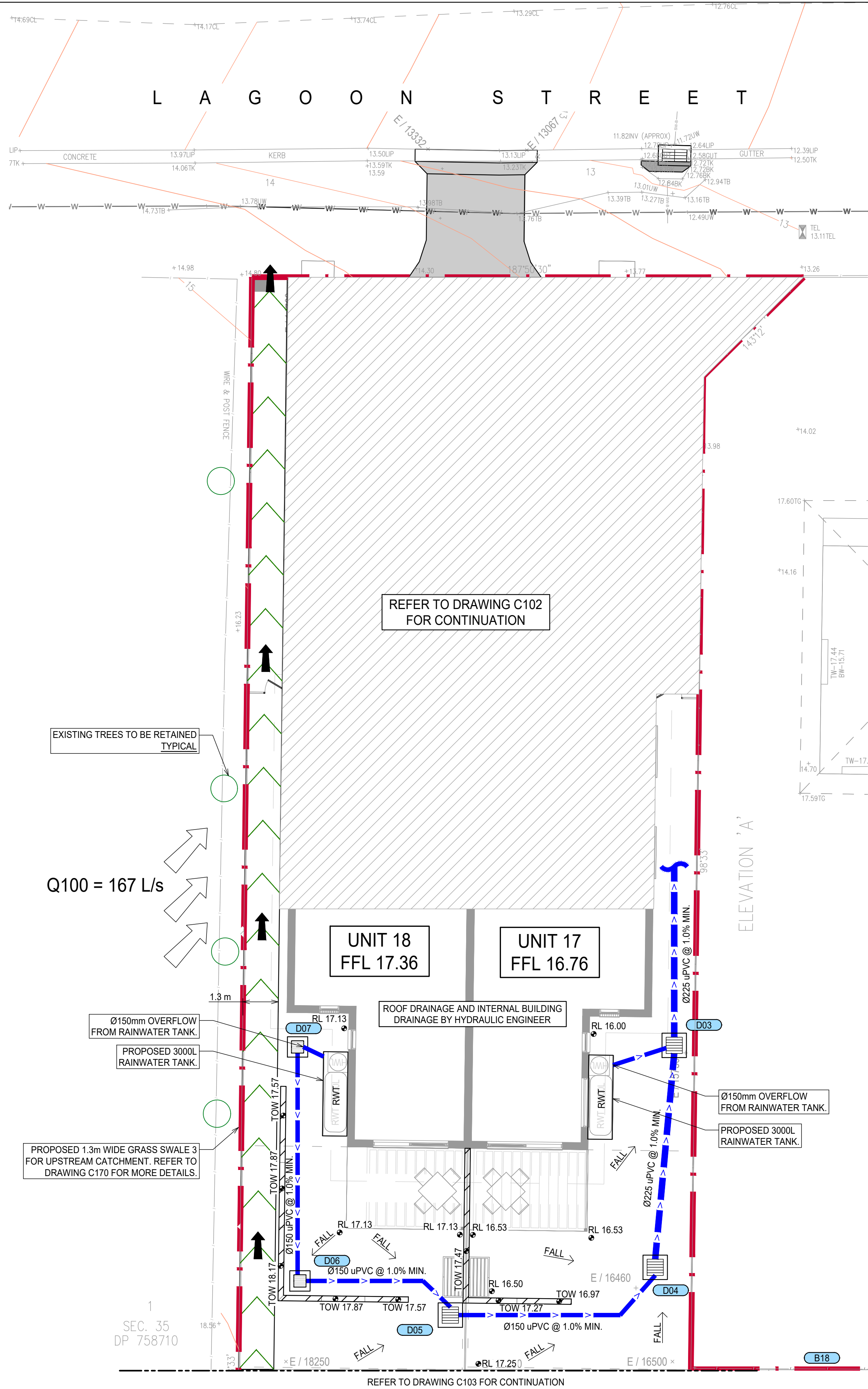
Scale at A1
1:100
Drawn
MH
Approved
JW

Job No
221106
Drawing No
C102
Revision
A

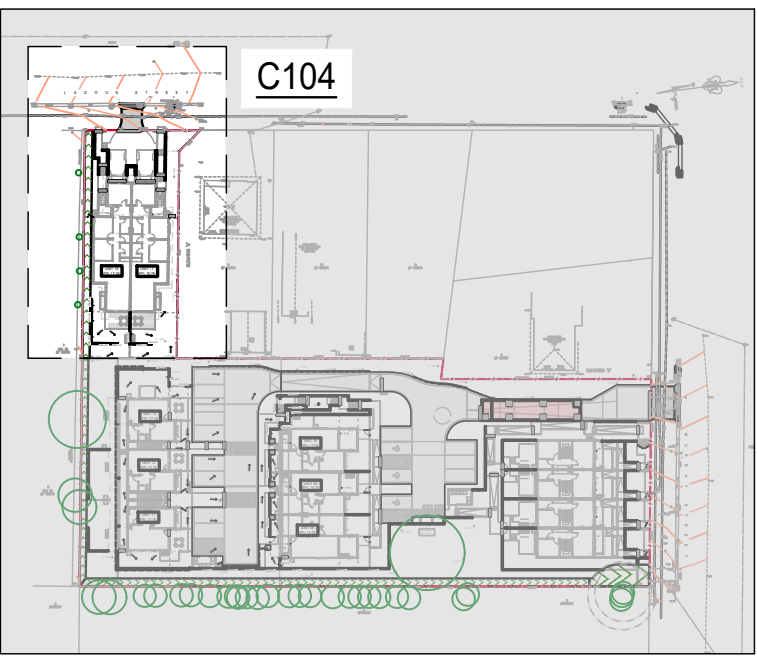
DEVELOPMENT APPLICATION



A1 1 2 3 4 5 6 7 8 9 10 1:100				Architect KENNEDY ASSOCIATES ARCHITECTS LEVEL 3 / 1 BOOTH ST ANNANDALE NSW 2038		Client PLANNING, INDUSTRY & ENVIRONMENT CLIENT ADDRESS		XAVIER KNIGHT		T : 02 8810 5800 E : info@xavierknight.com.au A : Level 7, 210 Clarence Street, Sydney NSW 2000 xavierknight.com.au This drawing is copyright and is the property of XAVIER KNIGHT CONSULTING ENGINEERS Pty. Ltd. and must not be used without authorisation.		North		Project 10 LAGOON STREET MORUYA 10 MORUYA ST & 75-77 MURRAY ST MORUYA		Scale at A1 1:100		Drawn MH		Approved JW	
A ISSUE FOR DEVELOPMENT APPLICATION MH MH 16.02.2024 Rev Description Eng Draft Date														Sheet Subject STORMWATER MANAGEMENT PLAN - LEVEL 01 PART 01		Job No 221106		Drawing No C103		Revision A	



STORMWATER DRAINAGE PLAN LEVEL 01 UNITS - LAGOON STREET
SCALE 1:100



KEY PLAN

LEGEND

- SITE BOUNDARY
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- SUBSOIL LINE
- PROPOSED SAFETY BARRIER
- GTD
- PROPOSED GRATED DRAIN
- EXISTING TELECOMMUNICATION LINE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- RETAINING WALL
- GRATED SURFACE INLET PIT
- SEALED JUNCTION PIT
- DDO --- DISH DRAIN OUTLET
- IR --- INSPECTION RISER
- PIT A02 --- PIT TAG/NUMBER
- FW --- FLOOR WASTE
- RL --- PROPOSED FINISHED LEVELS
- TOW --- PROPOSED RETAINING WALL LEVELS
- EXISTING TREE TO BE REMAIN
- TPZ --- TPZ EXTENT
- OVERLAND FLOW PATH

NOTES:

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- SLAB TO BE GRADED 1% TOWARDS PITS TO MEET REQUIREMENTS OF AS 2890.
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A1 1 2 3 4 5 6 7 8 9 10 1:100

Architect	KENNEDY ASSOCIATES ARCHITECTS
Client	PLANNING, INDUSTRY & ENVIRONMENT
Client Address	LEVEL 3 / 1 BOOTH ST ANNANDALE NSW 2038
Rev	Description
A	ISSUE FOR DEVELOPMENT APPLICATION
MH	Eng
MH	Draft
16.02.2024	Date

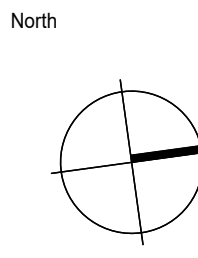
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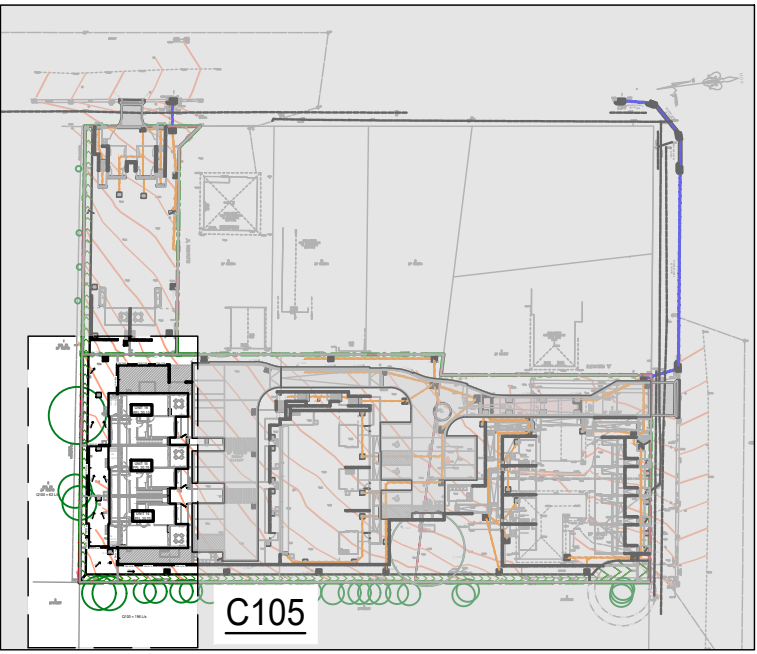
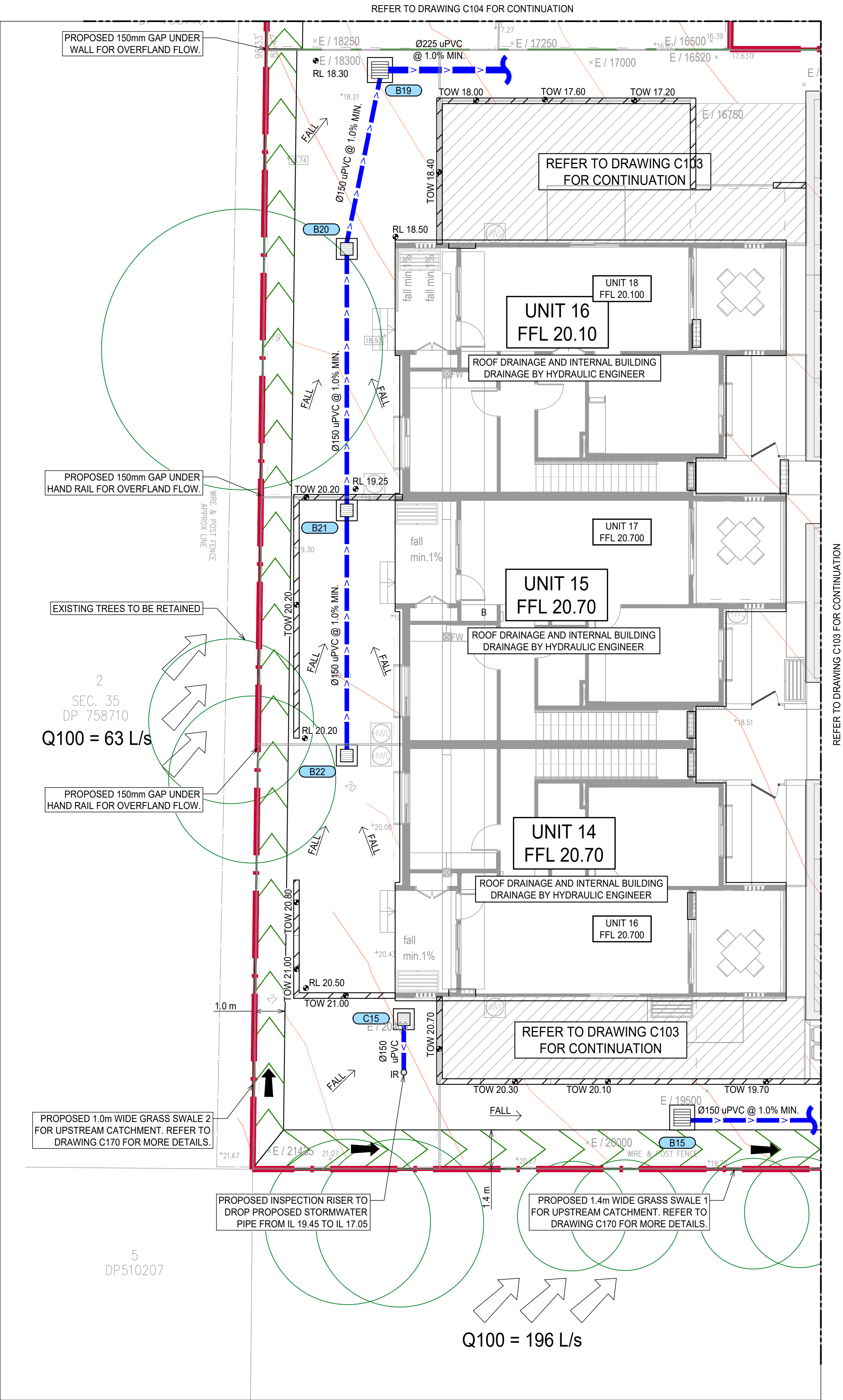
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Project
10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA

Sheet Subject
STORMWATER MANAGEMENT PLAN -
LEVEL 01 PART 02

Scale at A1	Drawn	Approved
1:100	MH	JW
Job No	Drawing No	Revision
221106	C104	A



LEGEND

- SITE BOUNDARY
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- SUBSOIL LINE
- PROPOSED SAFETY BARRIER
- PROPOSED GRATED DRAIN
- EXISTING TELECOMMUNICATION LINE
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A1 1:100

Rev	Description	Eng	Draft	Date
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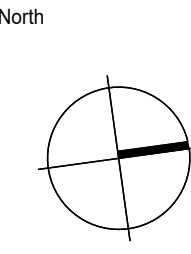
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Project
10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA

Sheet Subject
STORMWATER MANAGEMENT PLAN -
LEVEL 02

Scale at A1
1:100

Drawn
MH

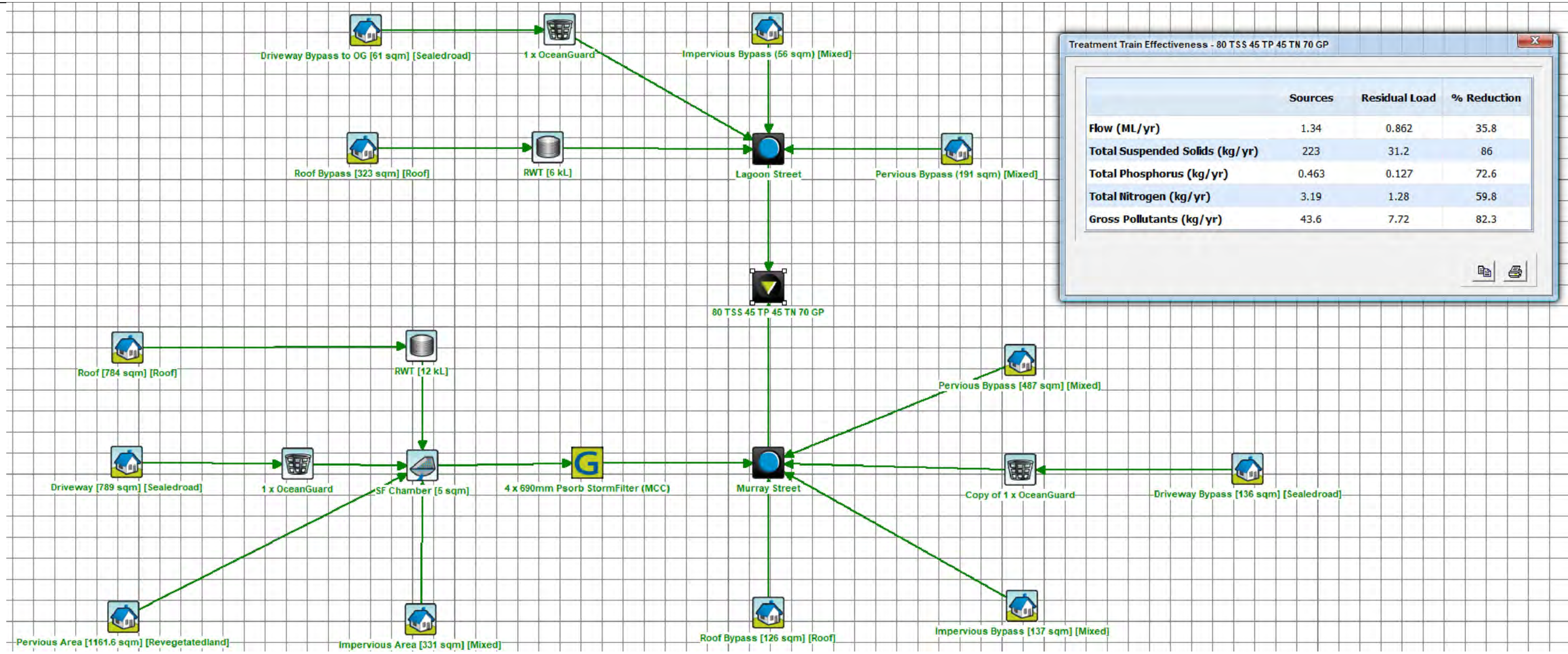
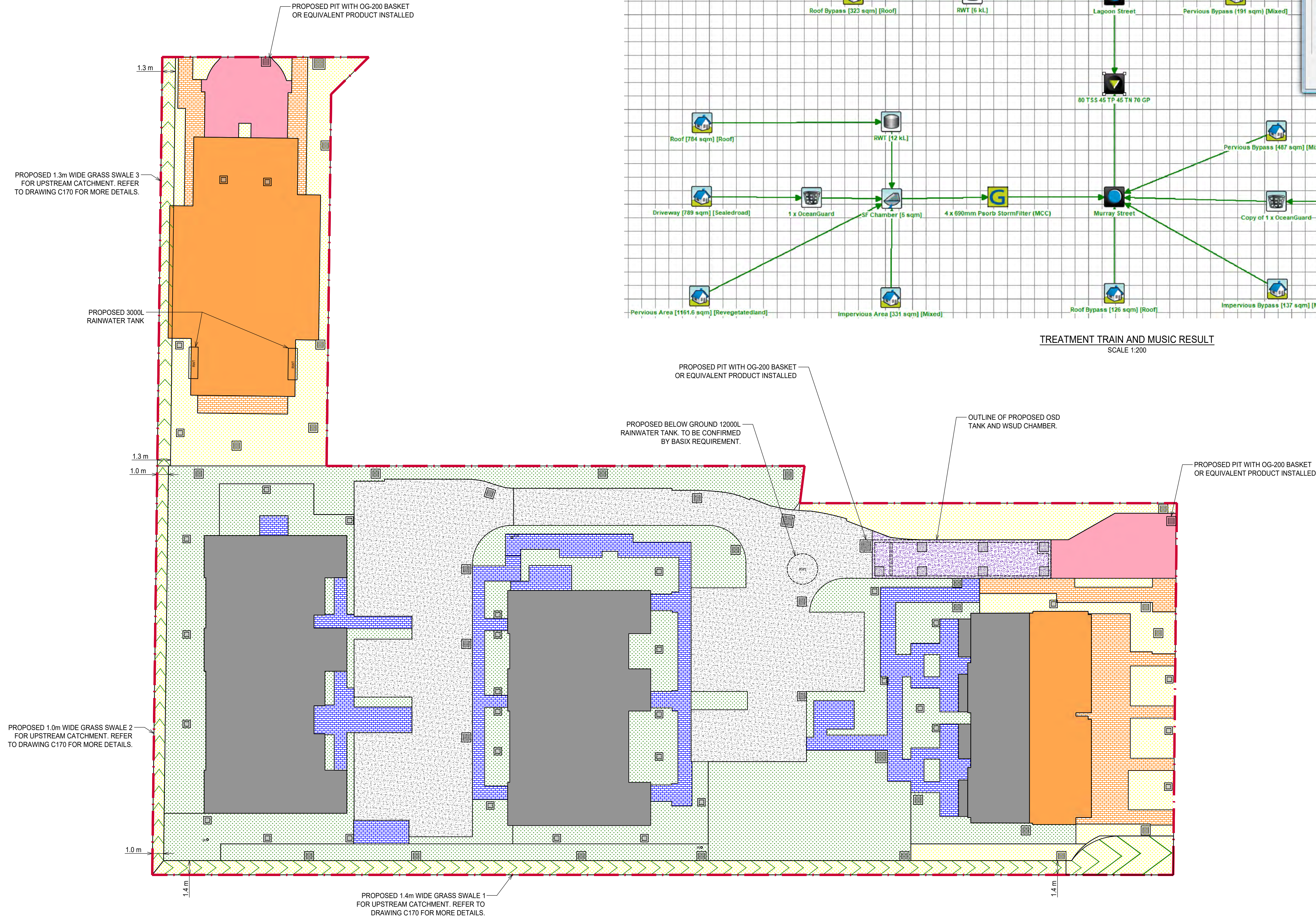
Approved
JW

Job No
221106

Drawing No
C105

Revision
A

DEVELOPMENT APPLICATION



Treatment Train Effectiveness - 80 TSS 45 TP 45 TN 70 GP			
	Sources	Residual Load	% Reduction
Flow (ML/yr)	1.34	0.862	35.8
Total Suspended Solids (kg/yr)	223	31.2	86
Total Phosphorus (kg/yr)	0.463	0.127	72.6
Total Nitrogen (kg/yr)	3.19	1.28	59.8
Gross Pollutants (kg/yr)	43.6	7.72	82.3

TREATMENT TRAIN AND MUSIC RESULT
SCALE 1:200

LEGEND

- SITE BOUNDARY
- ROOF AREA DRAINING TO RWT AND OSD (784 m²)
- IMPERVIOUS PAVEMENT AREA DRAINING TO OSD (331 m²)
- LANDSCAPE AREA DRAINING TO WSUD AND OSD (1161.6 m²)
- DRIVEWAY AREA DRAINING TO WSUD AND OSD (789 m²)
- DRIVEWAY AREA BYPASSING WSUD AND DRAINING TO OSD (68 m²)
- DRIVEWAY AREA BYPASSING WSUD AND OSD (129 m²)
- IMPERVIOUS PAVEMENT AREA BYPASSING OSD (193 m²)
- ROOF AREA BYPASSING OSD (449 m²)
- LANDSCAPE AREA BYPASSING OSD (678 m²)

WATER QUALITY TARGET

IN ACCORDANCE TO EUROODALLA SHIRE COUNCIL INFRASTRUCTURE DESIGN STANDARD SECTION 11.3.1 THE FOLLOWING WATER QUALITY TARGETS NEED TO BE ACHIEVED:

- 80% TOTAL SUSPENDED SOLIDS (TSS)
- 45% TOTAL PHOSPHORUS (TP)
- 45% TOTAL NITROGEN (TN)
- 70% GROSS POLLUTANTS

PRINTING NOTE:

THIS DRAWING TO BE PRINTED IN COLOUR.

CATCHMENT PLAN
SCALE 1:200

A1 0 2 4 6 8 10 12 14 16 18 20 1:200

Architect			
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Client			
PLANNING, INDUSTRY & ENVIRONMENT			
CLIENT ADDRESS			
Rev Description			
A	ISSUE FOR DEVELOPMENT APPLICATION	MH	16.02.2024
Eng		Draft	Date

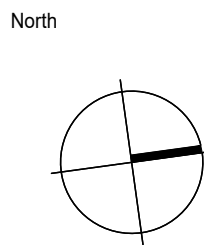
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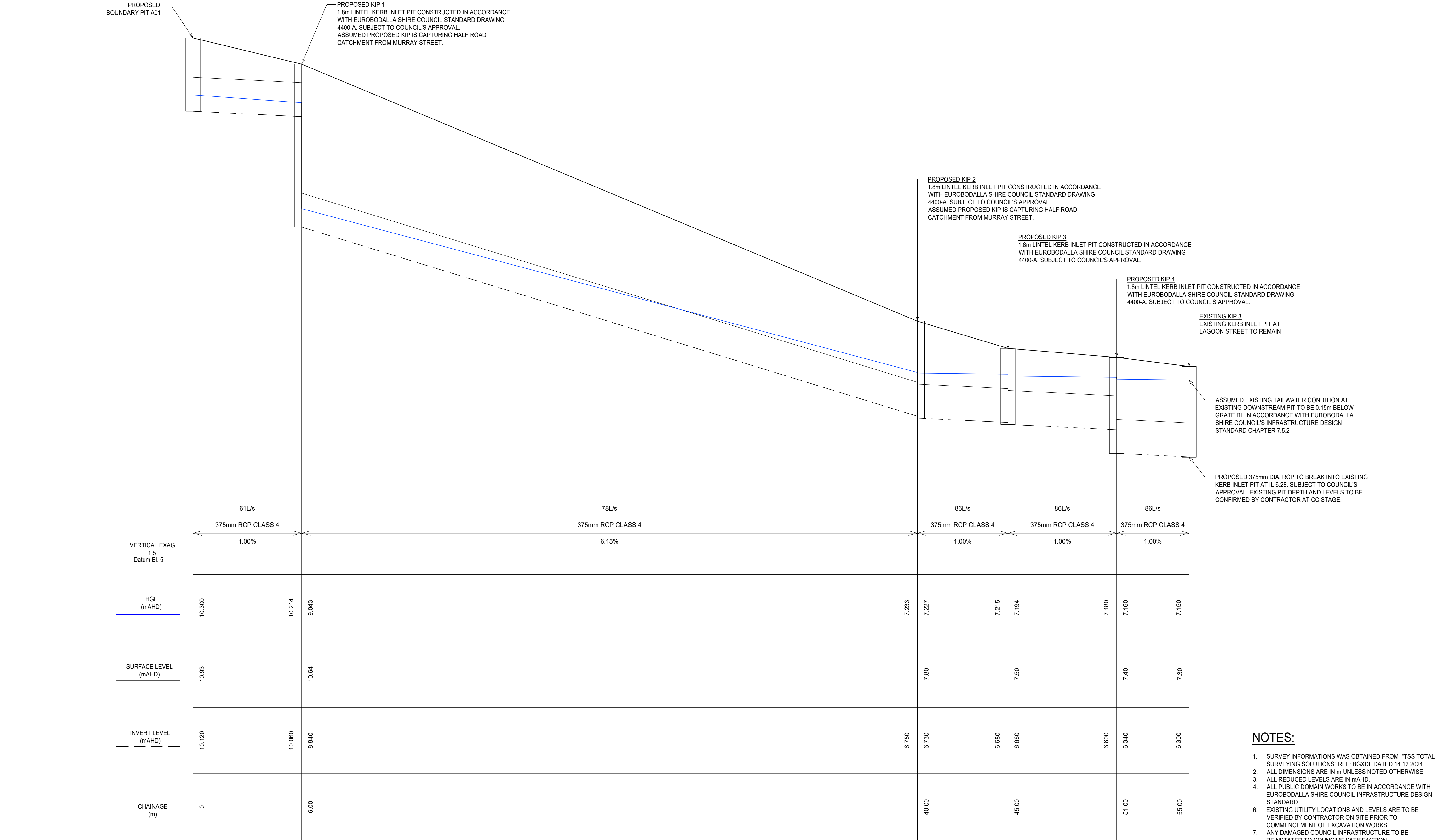


Project
10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA

Sheet Subject
MUSIC RESULTS AND CATCHMENT AREA
BREAKDOWN

Scale at A1	Drawn	Approved
AS SHOWN	MH	JW
Job No	Drawing No	Revision
221106	C150	A

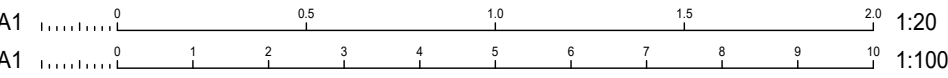
DEVELOPMENT APPLICATION



20-YEAR STORMWATER DRAINAGE LONG SECTION
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

NOTES:

1. SURVEY INFORMATION WAS OBTAINED FROM "TSS TOTAL SURVEYING SOLUTIONS" REF: BGXDL DATED 14.12.2024.
2. ALL DIMENSIONS ARE IN m UNLESS NOTED OTHERWISE.
3. ALL REDUCED LEVELS ARE IN mAHd.
4. ALL PUBLIC DOMAIN WORKS TO BE IN ACCORDANCE WITH EUROBODALLA SHIRE COUNCIL INFRASTRUCTURE DESIGN STANDARD.
5. EXISTING UTILITY LOCATIONS AND LEVELS ARE TO BE VERIFIED BY CONTRACTOR ON SITE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
6. ANY DAMAGED COUNCIL INFRASTRUCTURE TO BE REINSTATED TO COUNCIL'S SATISFACTION.
7. HYDRAULIC GRADE LINE SHOWN REPRESENTS 20 YEAR STORM EVENT.



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Project			
10 LAGOON STREET MORUYA			
10 MORUYA ST & 75-77 MURRAY ST MORUYA			
Sheet Subject			
DRAINAGE LONG SECTIONS			
Scale at A1			
AS SHOWN			
Drawn			
MH			
Approved			
JW			
Job No			
221106			
Drawing No			
C160			
Revision			
A			
A ISSUE FOR DEVELOPMENT APPLICATION			
MH MH 16.02.2024			
Rev Description Eng Draft Date			

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10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA

Sheet Subject
DRAINAGE LONG SECTIONS

Scale at A1
AS SHOWN

Drawn
MH

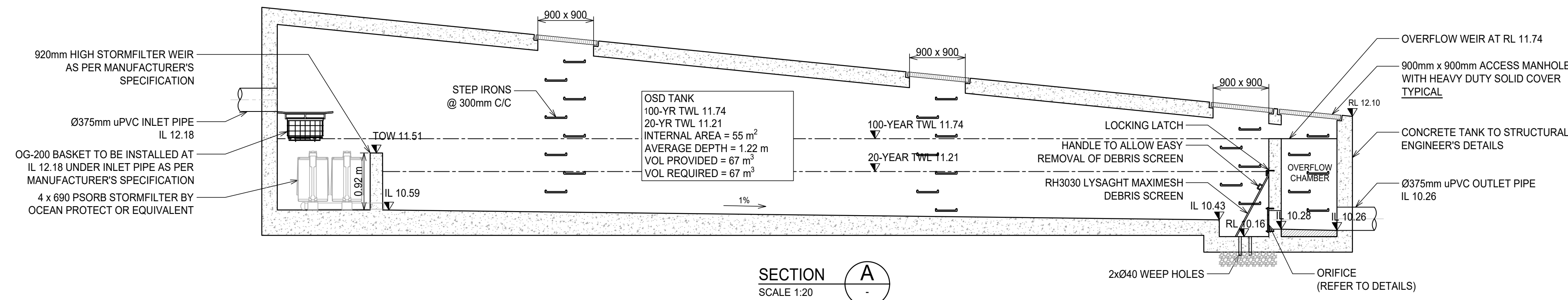
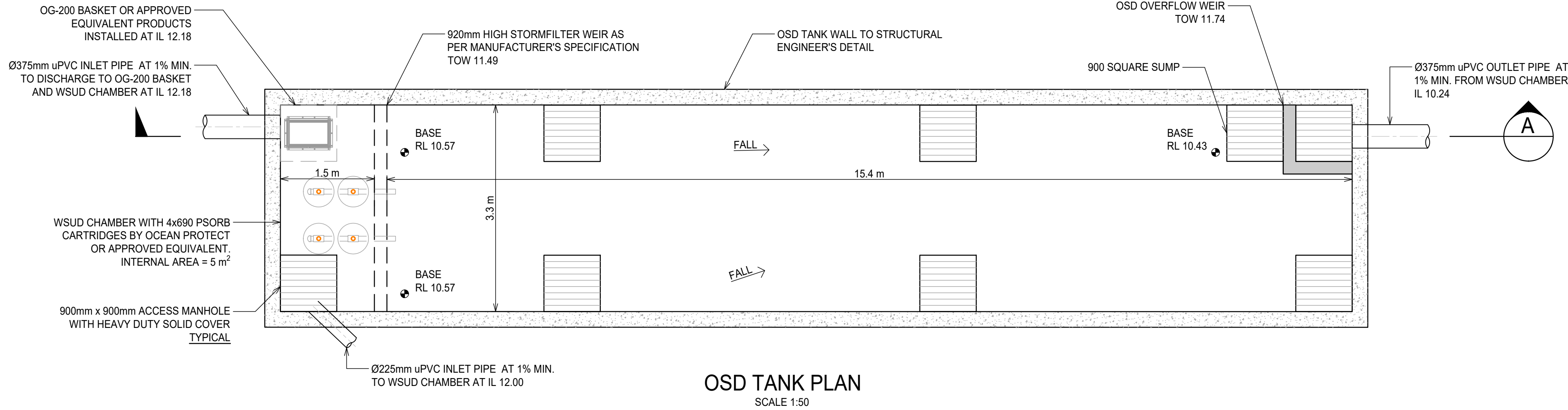
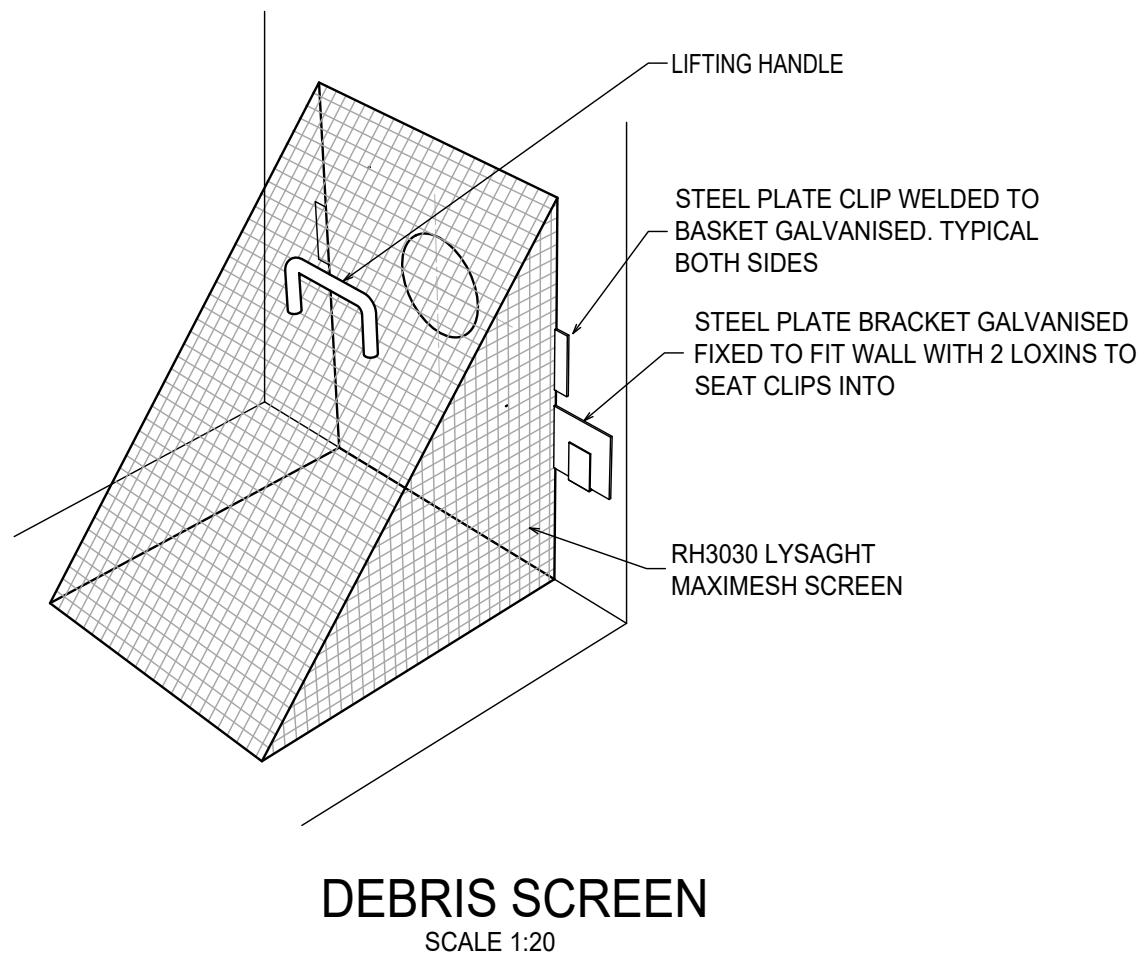
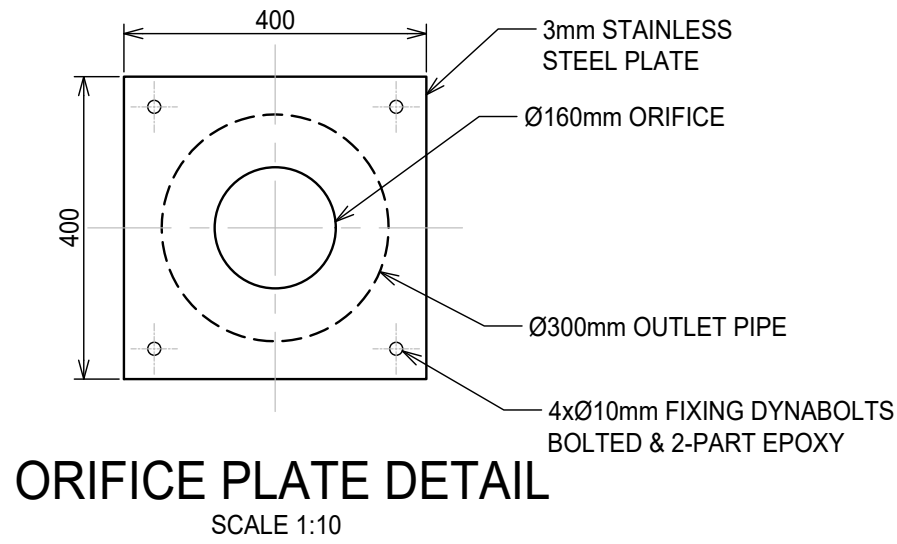
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221106

Drawing No
C160

Revision
A

DEVELOPMENT APPLICATION



STORMWATER DRAINAGE CONCEPT

IN ACCORDANCE WITH EUROBODALLA SHIRE COUNCIL'S INFRASTRUCTURE DESIGN STANDARD CHAPTER 9.1 "TO PROTECT COUNCIL'S EXISTING STORMWATER DRAINAGE ASSETS FROM OVERLOADING AS A RESULT OF NEW DEVELOPMENTS WHICH INCREASE THE AMOUNT OF STORMWATER RUNOFF BEING GENERATED FROM A PARTICULAR PROPERTY", A STORMWATER ON-SITE DETENTION TANK HAS BEEN PROPOSED FOR THE DEVELOPMENT.

PROPOSED SITE STORMWATER DRAINAGE TO DRAIN IN ACCORDANCE WITH 'OSD AREA BREAKDOWN' SHOWN. BELOW GROUND ON-SITE DETENTION TANK SYSTEM HAS BEEN PROPOSED TO PROVIDE MINIMUM REQUIRED SITE STORAGE AND LIMIT POST-DEVELOPMENT TOTAL SITE DISCHARGE FROM BOTH LAGOON STREET AND MURRAY STREET TO BE LESS THAN OR EQUAL TO PRE-DEVELOPMENT SCENARIO.

PROPOSED SITE DISCHARGE POINT IS THE EXISTING STORMWATER KERB INLET PIT IN THE INTERSECTION BETWEEN LAGOON STREET AND MURRAY STREET LOCATED DOWNSTREAM OF THE PROPOSED DEVELOPMENT.

IN ACCORDANCE WITH EUROBODALLA SHIRE COUNCIL'S INFRASTRUCTURE DESIGN STANDARD CHAPTER 7.5.2 "WHERE DOWNSTREAM STARTING POINT IS A PIT AND HGL IS UNKNOWN A LEVEL OF 0.15m BELOW THE INVERT OF THE PIT ITLET IN THE DOWNSTREAM PIT IS TO BE ADOPTED", THE FOLLOWING DOWNSTREAM WATER SURFACE LEVEL HAVE BEEN ADOPTED:

- TAILWATER CONDITION FOR MAJOR-STORM (100-YEAR ARI) : EXISTING STORMWATER KERB INLET PIT RL
- TAILWATER CONDITION FOR ALL OTHER STORM EVENT: 0.15m BELOW EXISTING STORMWATER KERB INLET PIT RL

FURTHERMORE, THE FOLLOWING ASSUMPTION HAS BEEN MADE:

- EXISTING COUNCIL'S STORMWATER DRAINAGE PIPE TO BE 375mm DIAMETER PIPE.

AN ILSAX DRAINS MODEL WAS USED TO DETERMINE THE REQUIRED DETENTION VOLUMES BASED ON THE PRE-DEV AND POST-DEV TOTAL SITE DISCHARGE. A SUMMARY OF THE PRE-DEV AND POST-DEV TOTAL SITE DISCHARGE HAS BEEN PROVIDED. TOTAL POST-DEV SITE DISCHARGE TO INCLUDE DISCHARGE RATE FROM BOTH MURRAY STREET AND LAGOON STREET FRONTAGE.

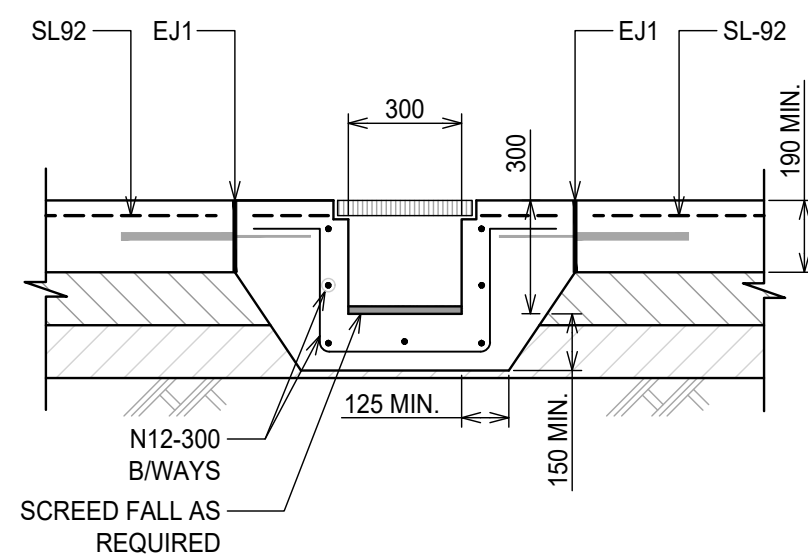
LEGEND

	PERVIOUS AREA DRAINING TO OSD TANK = 1,161.6 m ²
	IMPERVIOUS AREA DRAINING TO OSD TANK = 1,972m ²
	PERVIOUS AREA BYPASSING OSD TANK = 678 m ²
	IMPERVIOUS AREA BYPASSING OSD TANK = 771 m ²

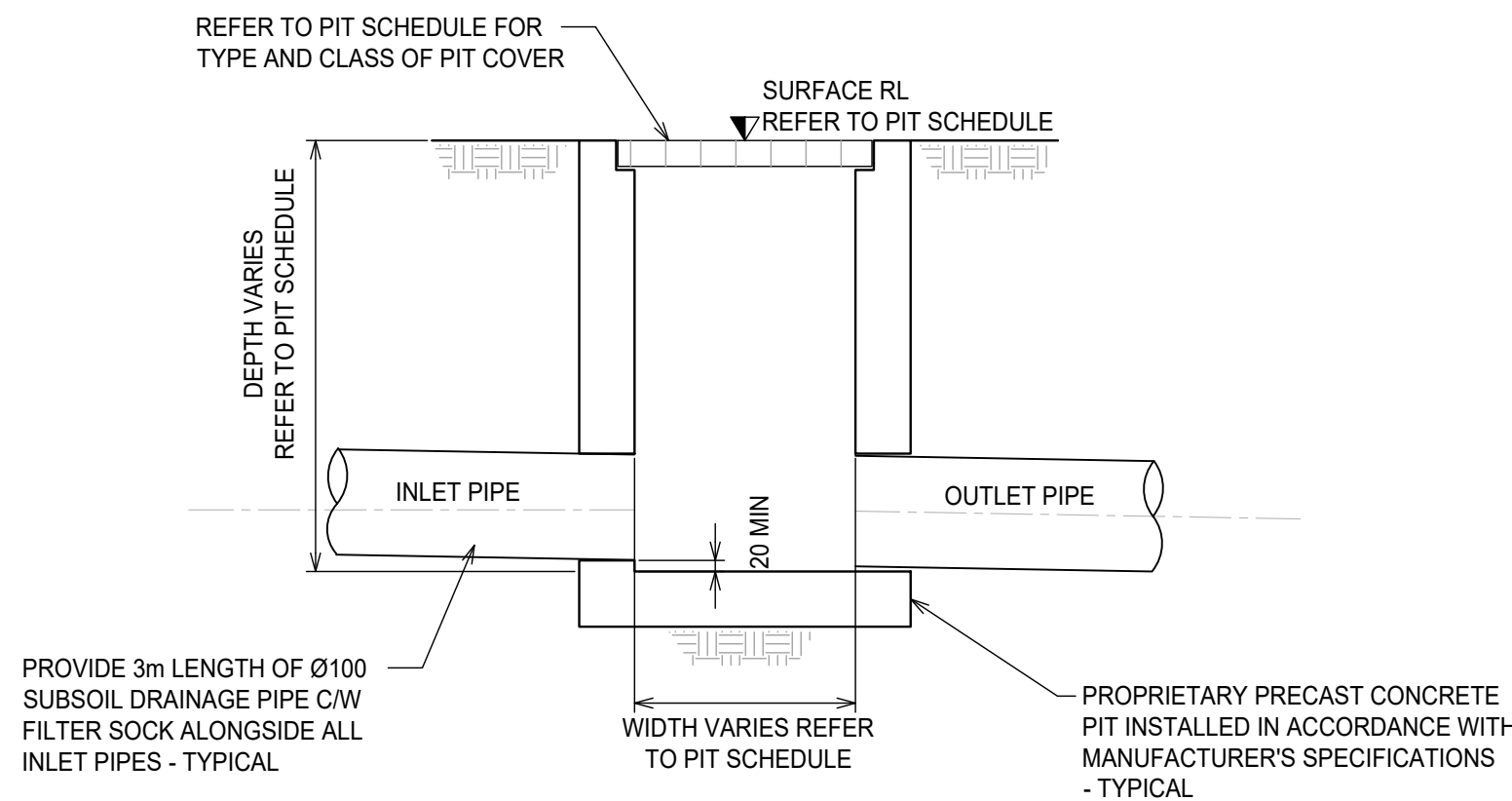


OSD AREA BREAKDOWN
NTS

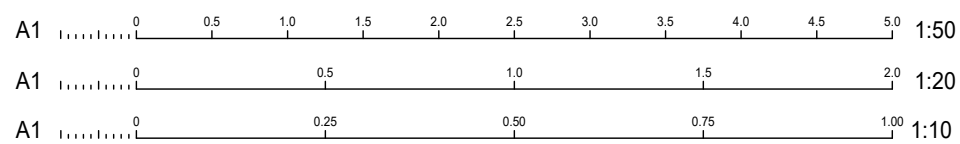
LOT AREA (m ²)	STORM ARI (YEARS)	PRE-DEV TOTAL SITE DISCHARGE (m ³ /s)	MURRAY STEET POST-DEV SITE DISCHARGE (m ³ /s)	LAGOON STREET POST-DEV SITE DISCHARGE (m ³ /s)	POST-DEV TOTAL SITE DISCHARGE (m ³ /s)	PRE-DEV DISCHARGE > POST-DEV DISCHARGE	OSD STORAGE PROVIDED (m ³)
4582.6	5	0.065	0.045	0.016	0.061	YES	67.00
	10	0.092	0.052	0.020	0.072	YES	
	20	0.121	0.061	0.024	0.085	YES	
	100	0.178	0.084	0.035	0.119	YES	



GRADED TRENCH DRAIN DETAIL
SCALE 1:20



STORMWATER DRAINAGE PIT
- PRECAST PIT
SCALE 1:20



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Rev	Description	Eng	Draft	Date

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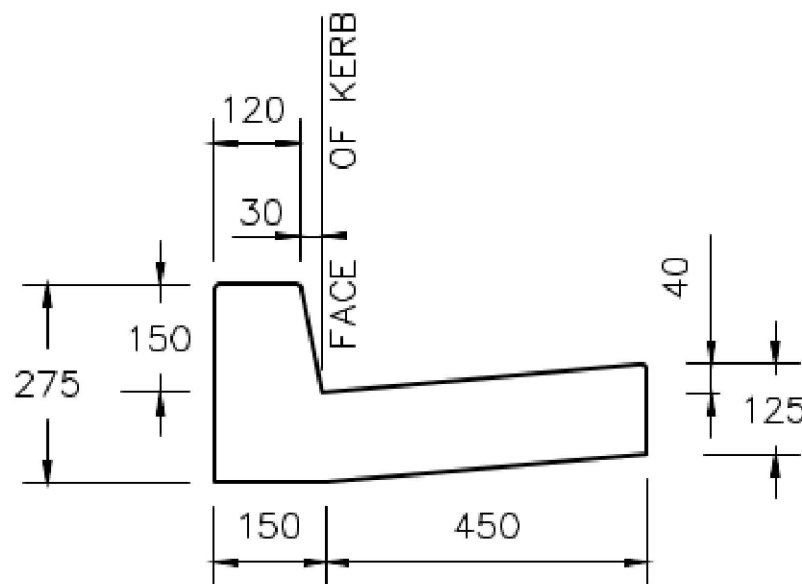
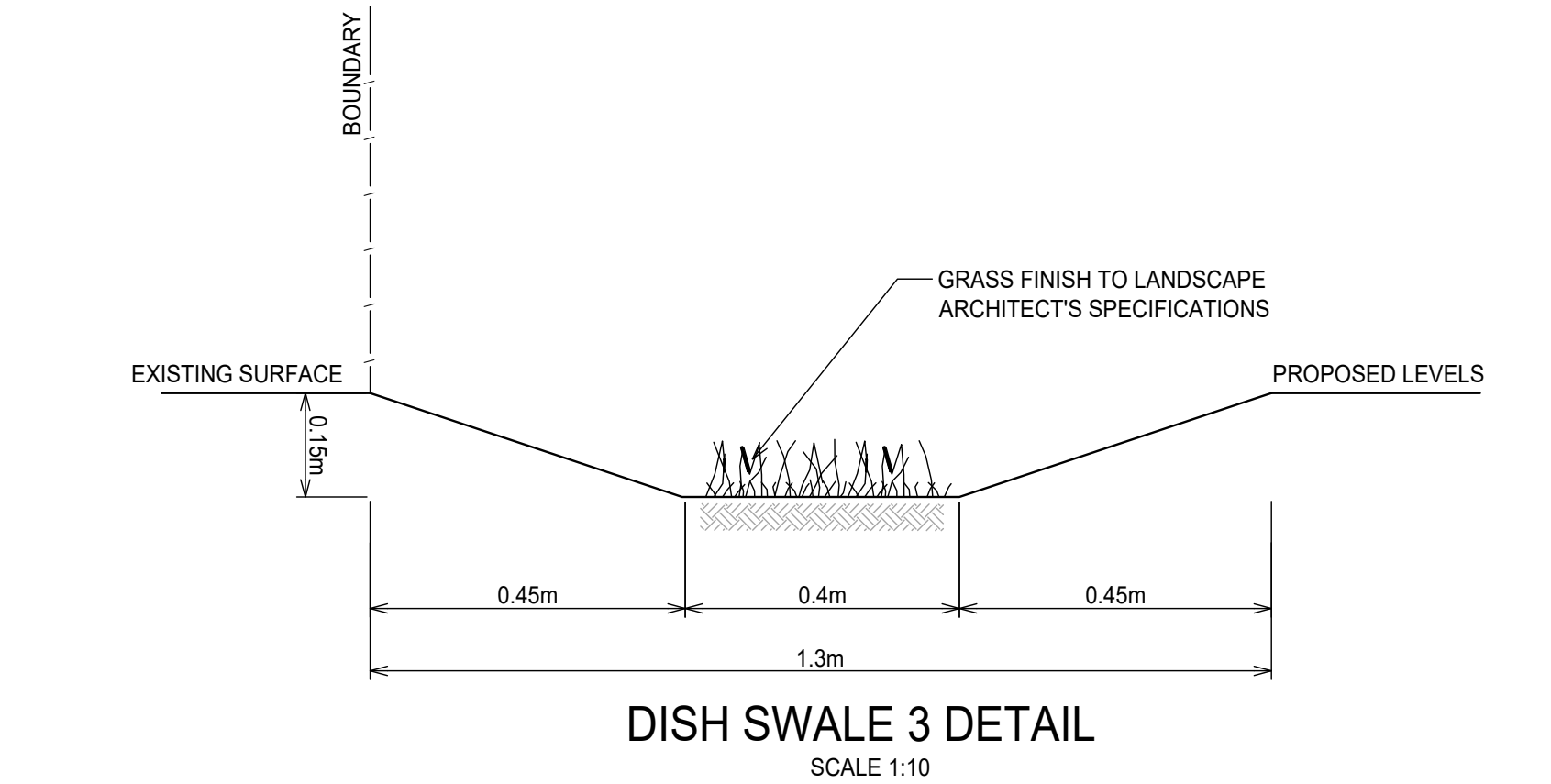
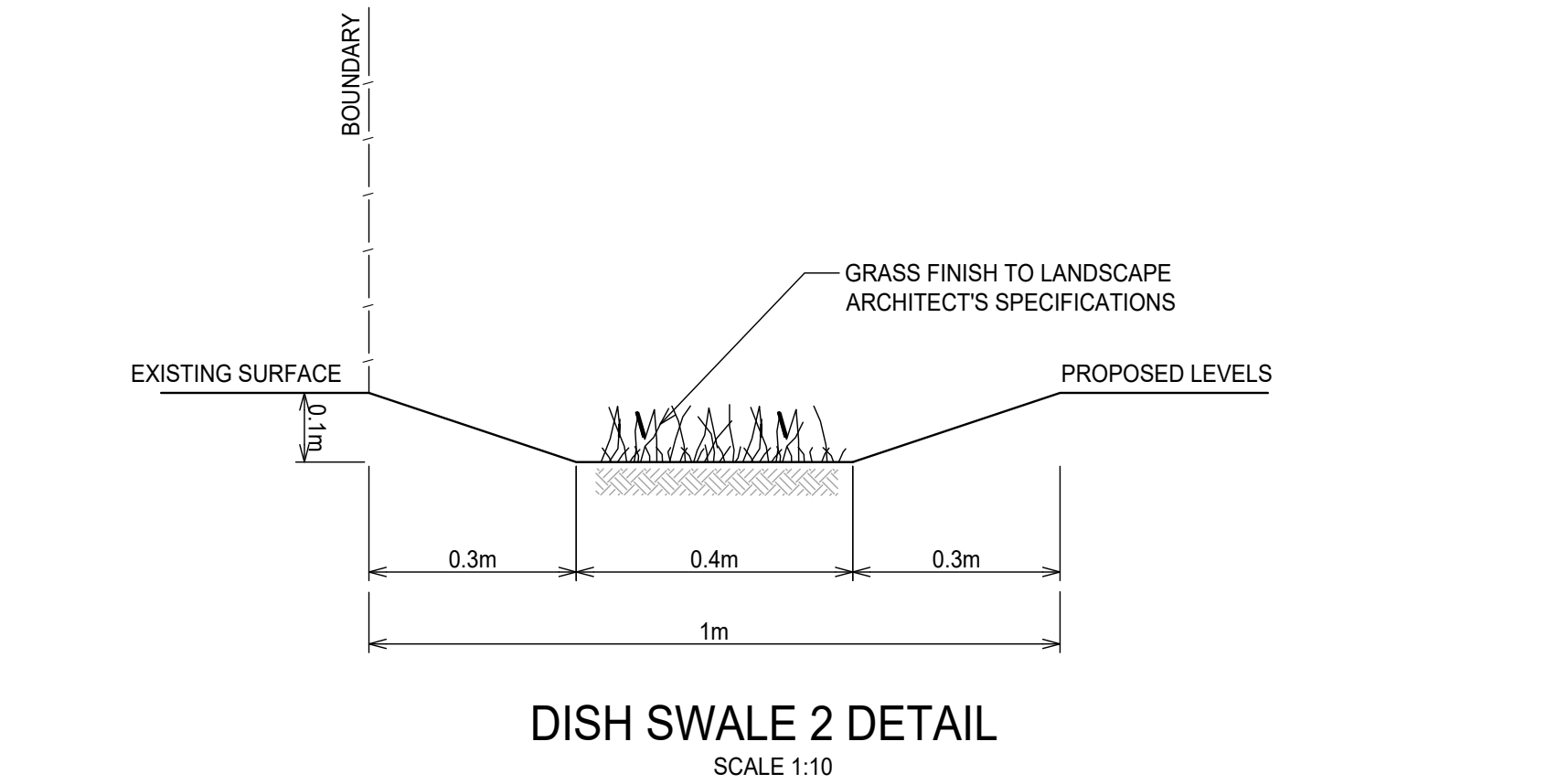
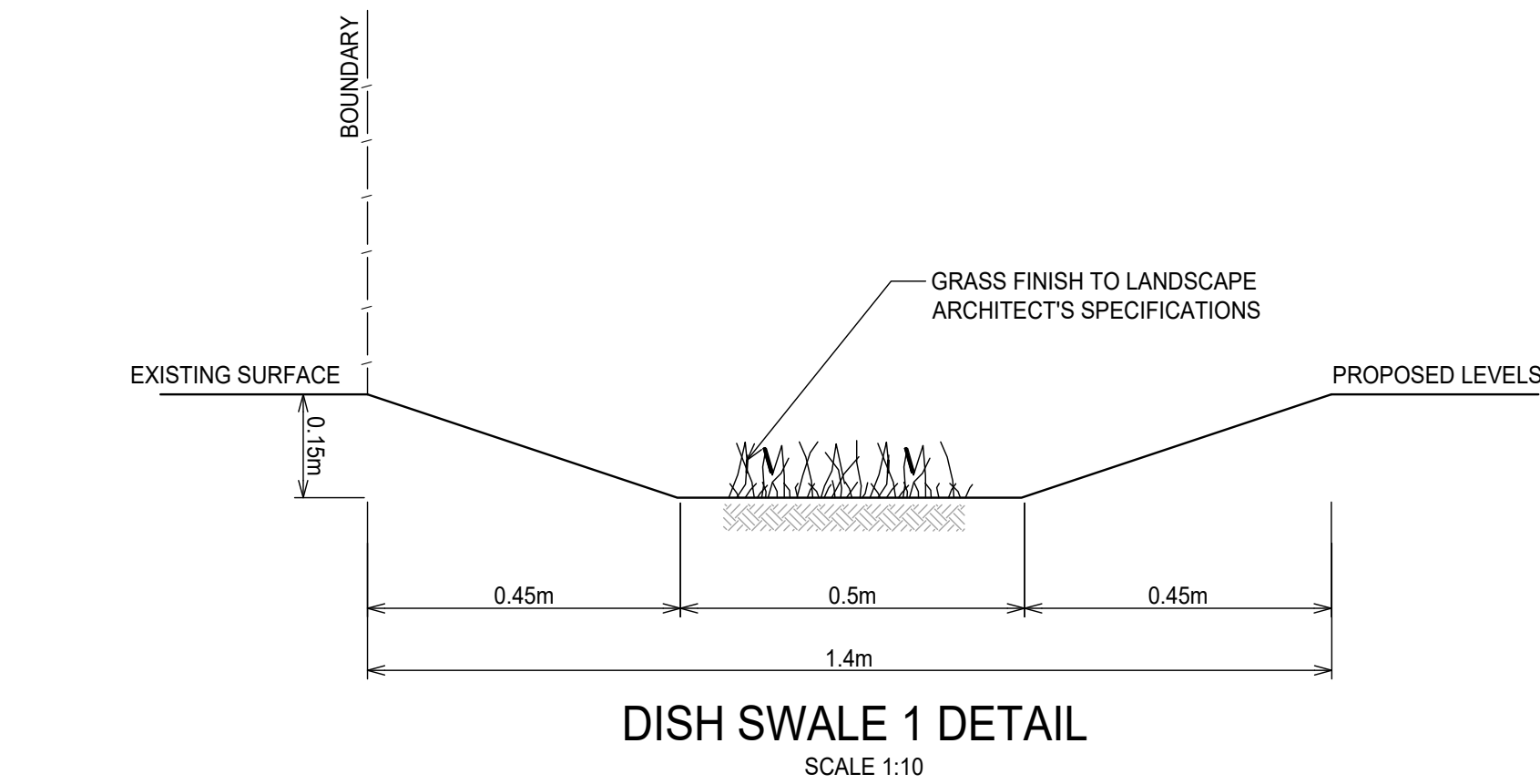
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Project
10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA

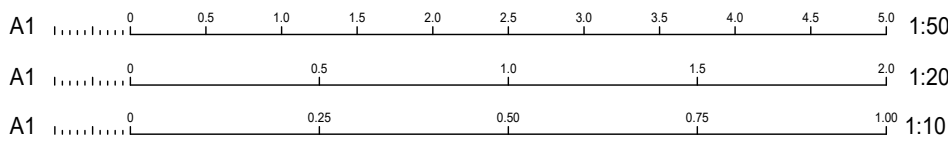
Sheet Subject
STORMWATER DRAINAGE DETAILS - SHEET 1

Scale at A1	Drawn	Approved
AS SHOWN	MH	JW
Job No	Drawing No	Revision
221106	C200	A



KERB & GUTTER

EUROBODALLA SHIRE COUNCIL
STANDARD KERB & GUTTER
NTS



Rev	Description	Eng	Draft	Date
A	ISSUE FOR DEVELOPMENT APPLICATION	MH	MH	16.02.2024

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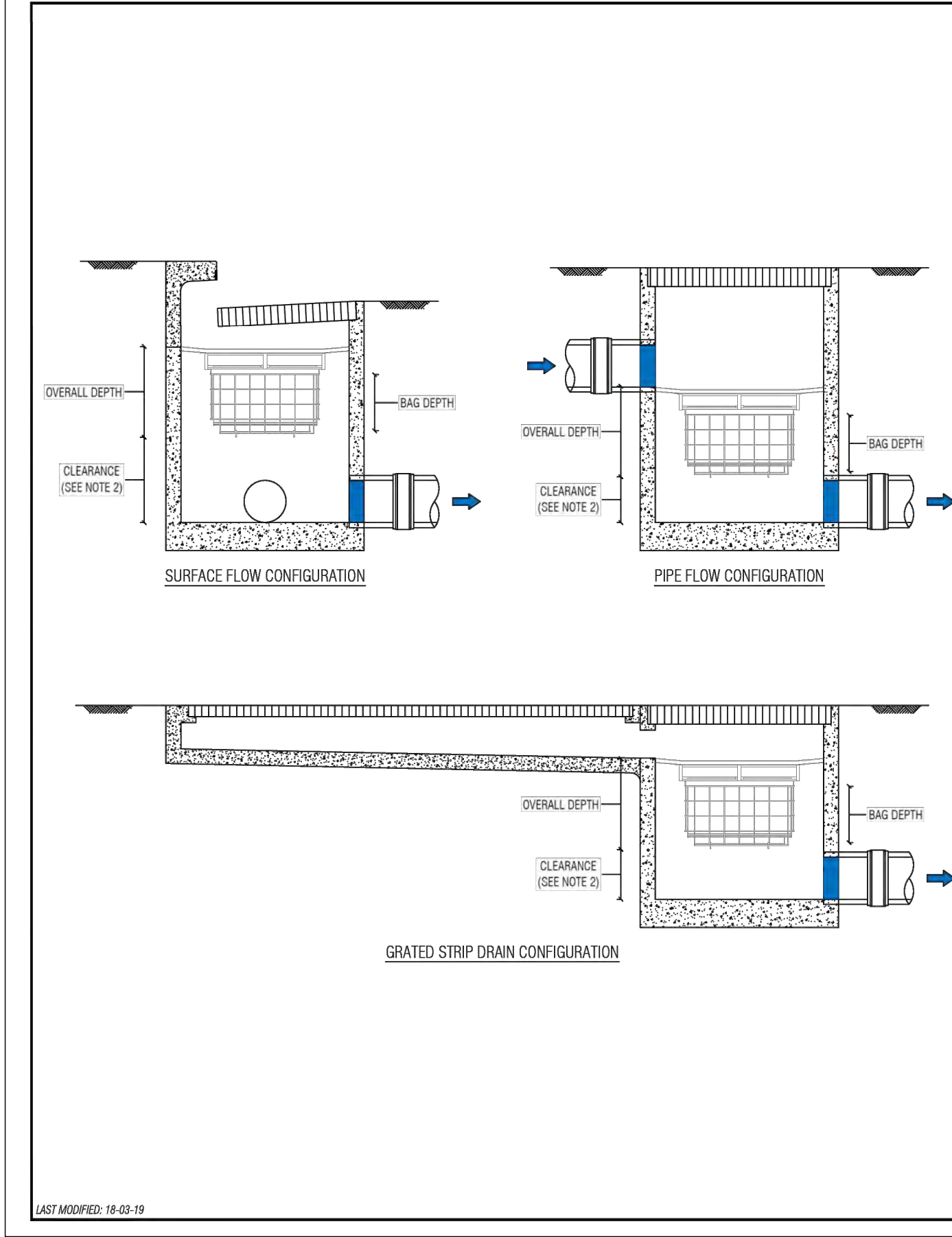


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Project
10 LAGOON STREET MORUYA
10 MORUYA ST & 75-77 MURRAY ST MORUYA
Sheet Subject
STORMWATER DRAINAGE DETAILS - SHEET 2

Scale at A1	Drawn	Approved
AS SHOWN	MH	JW
Job No	Drawing No	Revision
221106	C201	A



OG-200 OCEAN GUARD PRODUCT NTS

PLAN ID		MAXIMUM PIT PLAN DIMENSIONS		
	S	450mm x 450mm		
	M	600mm x 600mm		
	L	900mm x 900mm		
	XL	1200mm x 1200mm		

DEPTH ID		BAG DEPTH	OVERALL DEPTH
	1	170	270
	2	300	450
	3	600	700

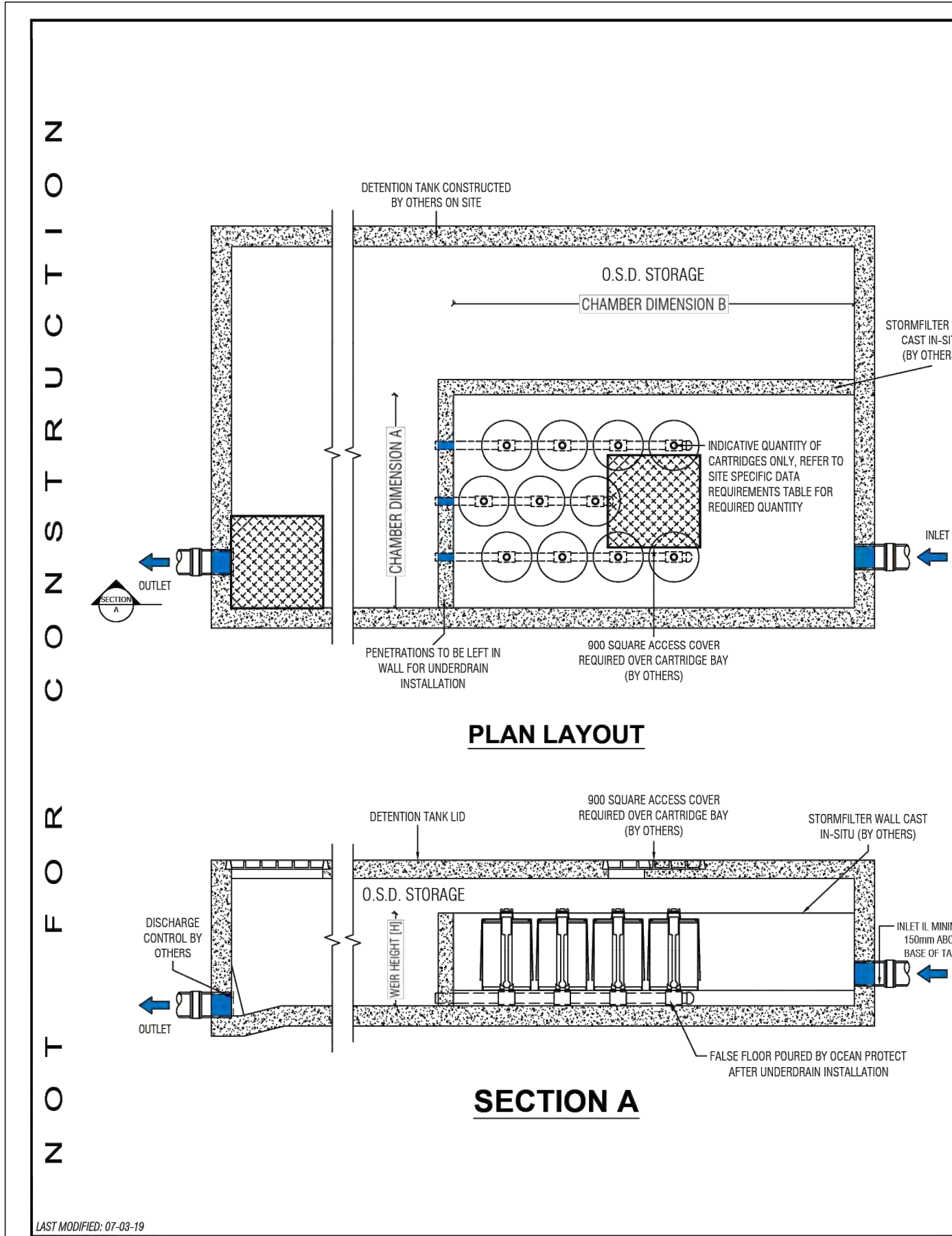
PLAN ID		DEPTH ID		
		1	2	3
	S	■	■	■
	M	■	■	■
	L	■	■	■
	XL	■	■	■

GENERAL NOTES

- THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
- CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
- OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
- DRAWINGS NOT TO SCALE.

OCEAN PROTECT
OCEANGUARD
TYPICAL ARRANGEMENTS
SPECIFICATION DRAWING

PHONE: 1300 354 722
www.oceanprotect.com.au



STORMFILTER PRODUCT NTS

STORMFILTER DESIGN TABLE			
- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED. - THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S). - FILTER CARTRIDGES SHALL BE MEDIA FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 170mm.			
CARTRIDGE NAME / SIPHON HEIGHT (mm)	690	460	310
CARTRIDGE PHYSICAL HEIGHT (mm)	840	600	600
TYPICAL WEIR HEIGHT [H] (mm)	920	690	540
CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)	1.6	1.1	0.7
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)	0.9	0.46	0.39

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	
NUMBER OF CARTRIDGES REQ'D	
SIPHON HEIGHT (310 / 460 / 690)	
MEDIA TYPE (ZPG / PSORB)	
WATER QUALITY FLOW RATE (L/S)	
DIMENSION A	
DIMENSION B	
TOTAL CARTRIDGE BAY AREA (A x B) TO MATCH AREA REQUIRED BY MUSIC MODELLING OR COUNCIL SPECIFIC REQUIREMENTS	

GENERAL NOTES

- INLET AND OUTLET PIPES TO BE IN ACCORDANCE WITH APPROVED PLANS.
- A HIGH FLOW BYPASS ARRANGEMENT OR DISSIPATION STRUCTURE MAY BE REQUIRED TO MINIMISE RE-SUSPENSION OF SOLIDS OR ANY SIGNIFICANT INERTIAL FORCES ON THE CARTRIDGES.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.
- CONCRETE STRUCTURE AND ACCESS COVERS DESIGNED AND PROVIDED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 800 X 900 ABOVE CARTRIDGES. CHAS REGARDING ACCESS COVERS AND TANK ACCESS TO BE ASSESSED BY OTHERS ON SITE.
- THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.
- DRAWINGS NOT TO SCALE.

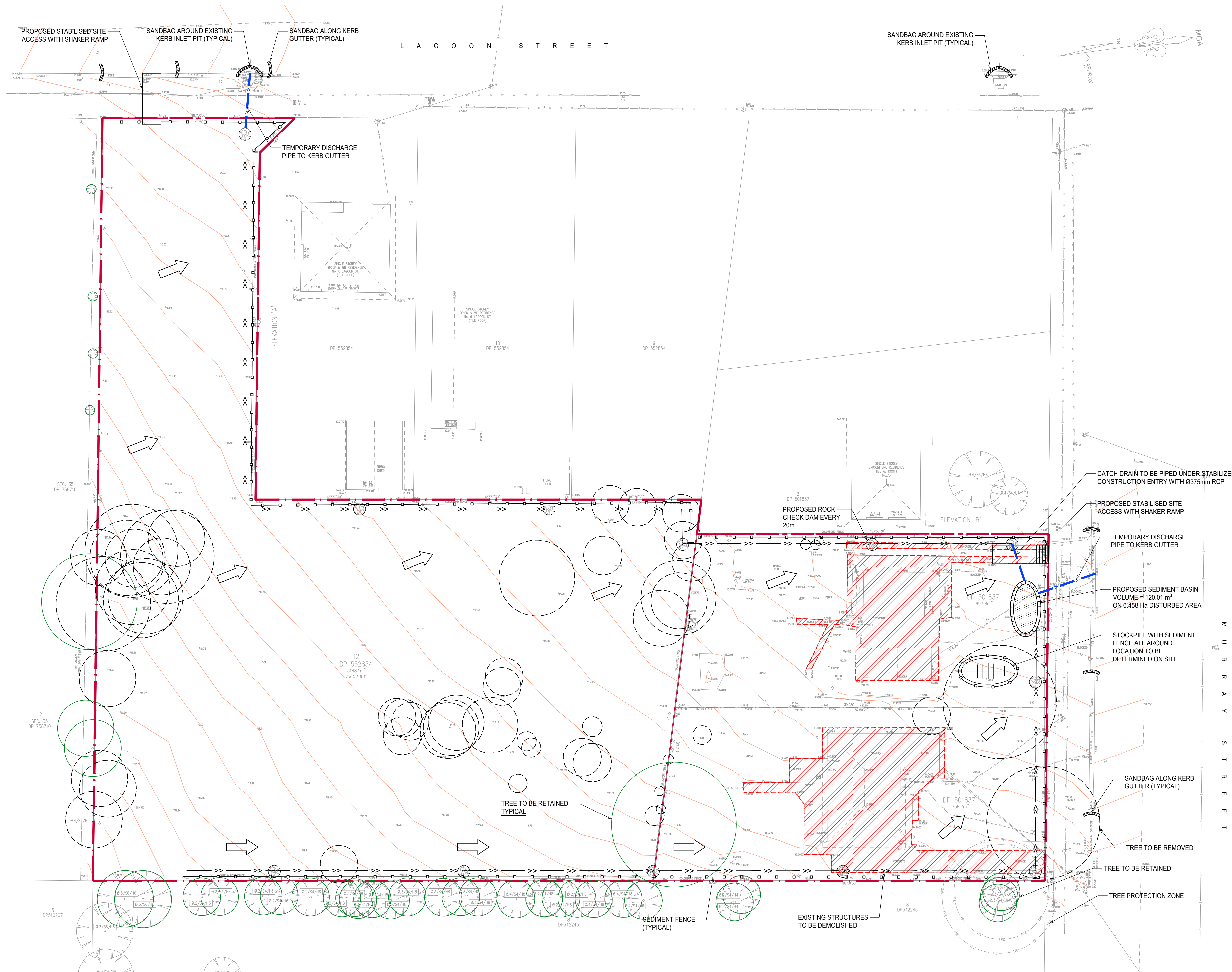
INSTALLATION NOTES

- UNDERDRAIN AND FALSE FLOOR INSTALLED BY OCEAN PROTECT.

OCEAN PROTECT
STORMFILTER SYSTEM
DETENTION TANK ARRANGEMENT
SPECIFICATION DRAWING

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www.oceanprotect.com.au

DEVELOPMENT APPLICATION



LEGEND

- SITE BOUNDARY
- 40.5 — EXISTING CONTOUR (0.5m)
- EXISTING STRUCTURES TO BE DEMOLISHED
- ROAD CENTER LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EXISTING TELECOMMUNICATION LINE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- SEDIMENT FENCE
- TEMPORARY CATCH DRAIN
- TEMPORARY DRAINAGE PIPE
- PROPOSED CHECK DAM
- FLOW DIRECTION
- SAND BAG
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REMAIN
- TPZ EXTENT

RUSLE CALCULATION NOTE:

REVISED UNIVERSAL SOIL LOSS EQUATION:

$$A = R * K * LS * P * C \text{ (t/ha/yr)}$$

$$R = 164.74 \text{ (1.1177)}^S * S^{0.6444}$$

WHERE S = 10.67 mm/h

$$R = 2481.59$$

K = 0.08 (ASSUMED)

LS = 1.68 (BASED ON 6% SLOPE FOR 100m)

$$P = 1.3$$

$$C = 1.0$$

$$A = 433.58 \text{ t/ha/yr}$$

$$\text{SITE AREA} = 0.458 \text{ Ha}$$

$$\text{SOIL LOSS} = 433.58 \text{ t/ha/yr} < 500 \text{ t/ha/yr}$$

HENCE, PER TABLE 4.2 OF LANDCOM BLUE BOOK,
EROSION HAZARD = MODERATE

SEDIMENT BASIN CALCULATION

SOIL TYPE: TYPE D OR F (ASSUMED)

RAINFALL DEPTH = 64mm (2-YR ARI, 6 HR EVENT)

CV = 0.79 (TABLE F2)

$$A = 0.458 \text{ Ha}$$

$$R_{75\%,5DAY} = 22.10 \text{ mm (TABLE 6.3A)}$$

$$\text{SETTLING ZONE} = 10 \times CV \times A \times R = 80.01 \text{ m}^3$$

$$\text{SEDIMENT STORAGE ZONE} = 40.0 \text{ m}^3 \text{ (50 PERCENT OF SETTLING ZONE CAPACITY)}$$

$$\text{TOTAL SEDIMENT BASIN VOLUME} = 120.01 \text{ m}^3$$



SOIL AND WATER MANAGEMENT PLAN
SCALE 1:200

DEVELOPMENT APPLICATION

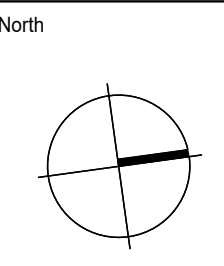
A1 0 2 4 6 8 10 12 14 16 18 20 1:200

Rev	Description	Eng	Draft	Date
A	ISSUE FOR DEVELOPMENT APPLICATION	MH	MH	16.02.2024

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Client	PLANNING, INDUSTRY & ENVIRONMENT CLIENT ADDRESS



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Project	10 LAGOON STREET MORUYA 10 MORUYA ST & 75-77 MURRAY ST MORUYA
Sheet Subject	SOIL AND WATER MANAGEMENT PLAN

Scale at A1	1:200	Drawn	MH	Approved	JW
Job No	221106	Drawing No	C300	Revision	A



1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150 mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 m LONG STAR PICKETS INTO GROUND @ 2.5 m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150 mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

1. THIS SEDIMENT AND EROSION CONTROL WORKS FOR THE SITE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION, 4TH EDITION (2004)" BY LANDCOM.
2. AS REQUIRED BY COUNCIL, SEDIMENT CONTROL MEASURES WILL BE REQUIRED DURING THE CONSTRUCTION OF ALL DEVELOPMENTS/BUILDING WORKS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN AND COUNCIL'S REQUIREMENTS.
3. THE CONTRACTOR SHALL ENSURE THAT ALL SUBCONTRACTORS ARE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.
4. THE NON-DISTURBED PORTION OF THE CATCHMENT OUTSIDE OF OPERATING AREA IS TO BYPASS THE BASINS BY MEANS OF LINED CATCH DRAINS.
5. WHERE PRACTICABLE, THE SOIL EROSION HAZARD SHALL BE KEPT AS LOW AS POSSIBLE. LIMITATIONS TO ACCESS ARE TO BE VIA STANLEY LANE UNLESS OTHERWISE APPROVED BY COUNCIL.
6. ENSURE THAT ALL DRAINS ARE OPERATING EFFECTIVELY AND SHALL MAKE ANY NECESSARY REPAIRS. REMOVE TRAPPED SEDIMENT WHERE THE CAPACITY OF THE TRAPPING DEVICE FALLS BELOW 60%.
7. CONSTRUCT ADDITIONAL EROSION OR SEDIMENT CONTROL WORKS AS MAY BE APPROPRIATE TO ENSURE THE PROTECTION OF DOWNSLOPE LANDS AND WATERWAYS.
8. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION AT ALL TIMES UNTIL THE SITE IS REHABILITATED.
9. REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:-

1. INSTALL SEDIMENT FENCING AND CUT DRAINS TO MEET THE REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLAN. WASTE COLLECTION BINS SHALL BE INSTALLED ADJACENT TO SITE OFFICE.
2. CONSTRUCT STABILISED SITE ACCESS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
3. REDIRECT CLEAN WATER AROUND THE CONSTRUCTION SITE.
4. INSTALL SEDIMENT CONTROL PROTECTION MEASURES AT ALL NATURAL AND MAN-MADE DRAINAGE STRUCTURES. MAINTAIN UNTIL ALL THE DISTURBED AREAS ARE STABILISED.
5. CLEAR AND STRIP THE WORK AREAS, MINIMISE THE DAMAGE TO THE GRASS AND LOW GROUND COVER OF NON-DISTURBED AREAS.
6. ANY DISTURBED AREAS, OTHER THAN BUILDING PAD AREAS, SHALL IMMEDIATELY BE COVERED WITH SITE TOPSOIL WITHIN 7 DAYS OF CLEARING. BUILDING PAD AREAS SHALL BE COVERED WITH BITUMEN EMULSION AS SPECIFIED.
7. APPLY PERMANENT STABILISATION TO SITE (LANDSCAPING).

DEVELOPMENT APPLICATION

	Architect	Client	Project	North	Project	Scale at A1	Drawn	Approved
	KENNEDY ASSOCIATES ARCHITECTS LEVEL 3 / 1 BOOTH ST ANNANDALE NSW 2038	PLANNING, INDUSTRY & ENVIRONMENT CLIENT ADDRESS	X XAVIER KNIGHT	T : 02 8810 5800 E : info@xavierknight.com.au A : Level 7, 210 Clarence Street, Sydney NSW 2000 xavierknight.com.au This drawing is copyright and is the property of XAVIER KNIGHT CONSULTING ENGINEERS Pty. Ltd. and must not be used without authorisation.	10 LAGOON STREET MORUYA 10 MORUYA ST & 75-77 MURRAY ST MORUYA	AS SHOWN	MH	JW
					Sheet Subject	Job No	Drawing No	Revision
A ISSUE FOR DEVELOPMENT APPLICATION MH MH 16.02.2024					SOIL AND WATER MANAGEMENT DETAILS	221106	C350	A
Rev Description Eng Draft Date								