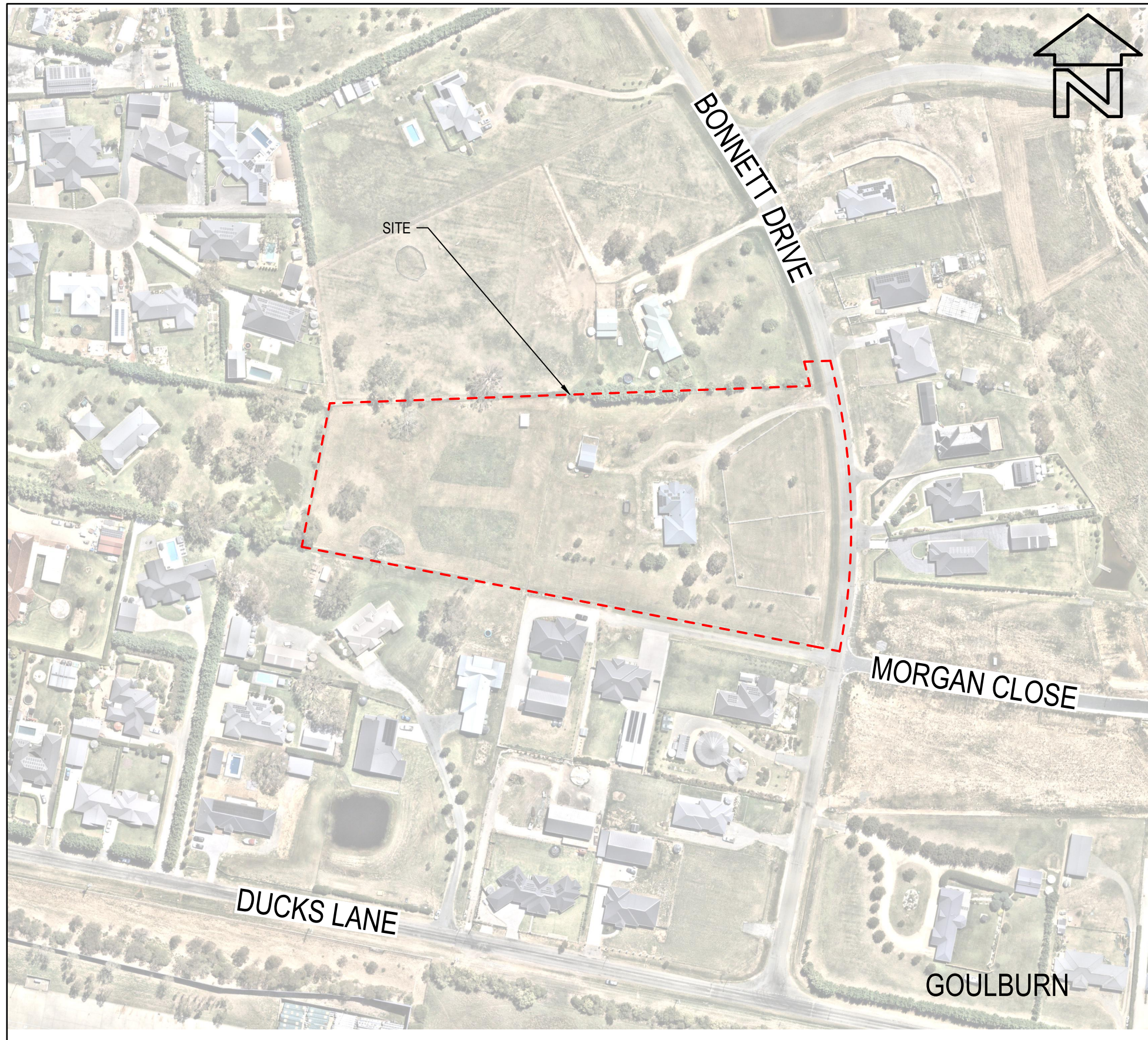


8 LOT RESIDENTIAL SUBDIVISION

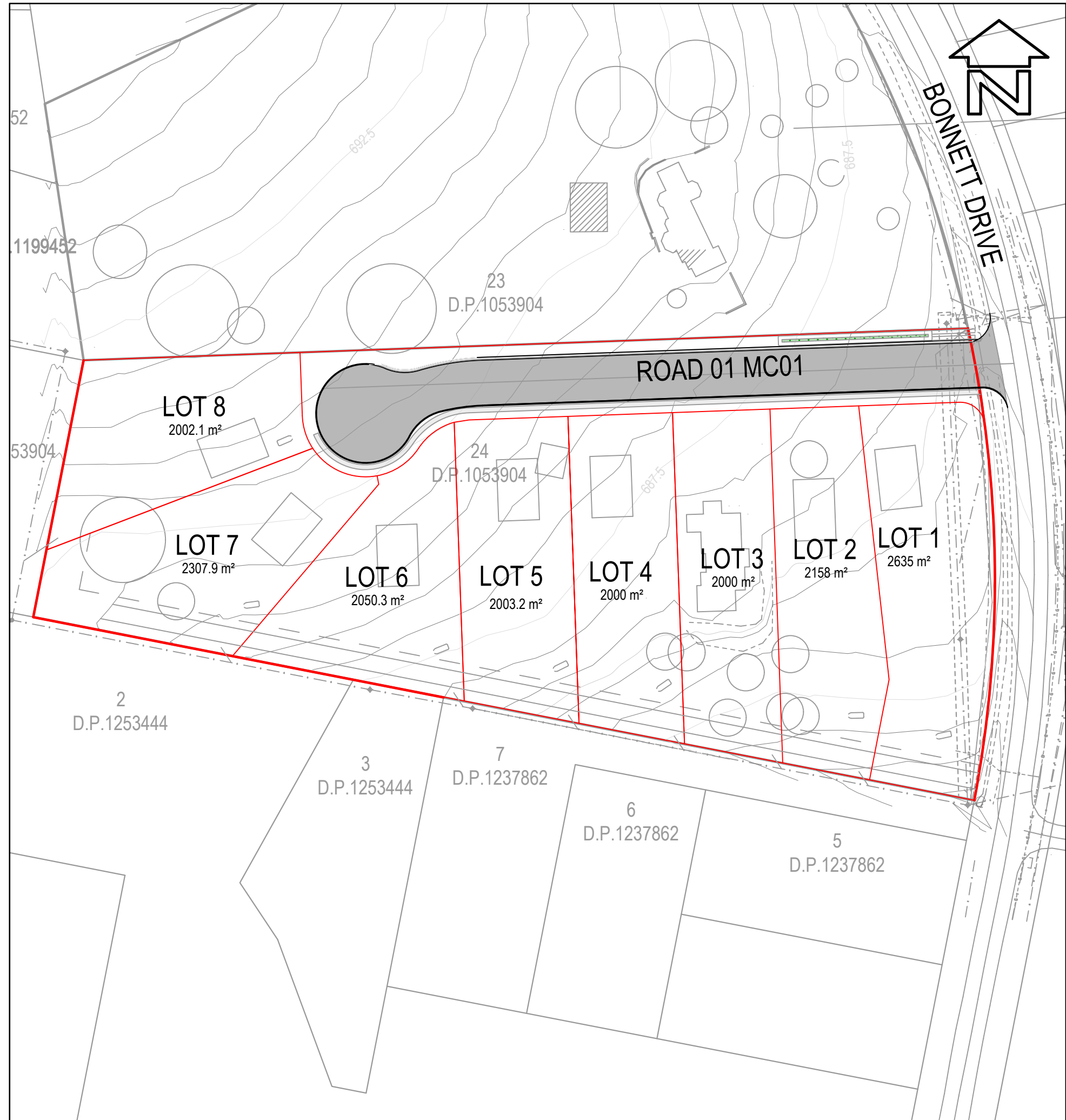
CIVIL ENGINEERING CONCEPT DESIGN

GOULBURN MULWAREE COUNCIL DEVELOPMENT CONSENT

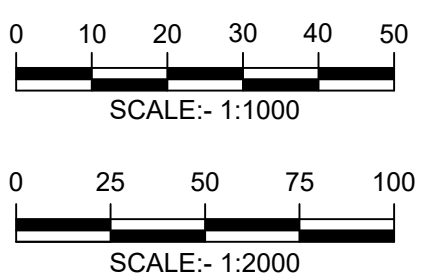


SITE LOCALITY PLAN

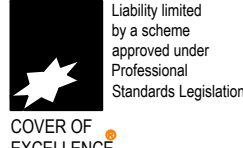
DRAWING SCHEDULE INDEX		
SHEET	TITLE	REVISION
25022-GA-1000	COVER AND INDEX	0
25022-GA-1005	GENERAL ARRANGEMENT PLAN	0
25022-GA-1010	EXISTING AND SITE PREPARATION PLAN	0
25022-GS-1100	SOIL AND WATER MANAGEMENT LAYOUT PLAN	0
25022-GS-1101	SOIL AND WATER MANAGEMENT DETAILS	0
25022-GV-1150	BULK EARTHWORKS PLAN	0
25022-RD-1200	ROAD LAYOUT PLAN	0
25022-RD-1230	ROAD 01 MC01 LONGITUDINAL AND TYPICAL SECTIONS	0
25022-RD-1280	ROAD AND PAVEMENT TYPICAL DETAILS	0
25022-SD-2000	DRAINAGE LAYOUT PLAN	0
25022-SQ-2055	STORMWATER QUANTITY MODELLING PLAN	0
25022-SQ-2056	STORMWATER QUALITY MODELLING PLAN 1 OF 2	0
25022-SQ-2057	STORMWATER QUALITY MODELLING PLAN 2 OF 2	0
25022-SE-3100	SEWER AND WATER NETWORK LAYOUT PLAN	0



GENERAL OVERVIEW



WARNING
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SCALE: A5 NOTED SIZE: A1 DATE OF SURVEY: 28 MAR 2025 DATUM: MGA2020, AHD	SURVEY	LP	REV	DESCRIPTION	DATE	CIVPLAN PTY LIMITED ALL RIGHTS RESERVED. THIS DOCUMENT IS PRODUCED BY CIVPLAN PTY LTD SOLELY FOR THE BENEFIT OF AND USE BY THE CLIENT IN ACCORDANCE WITH THE TERMS OF THE RETAINER. CIVPLAN PTY LTD DOES NOT AND SHALL NOT ASSUME ANY RESPONSIBILITY OR LIABILITY WHATSOEVER TO ANY THIRD PARTY ARISING OUT OF ANY USE OF RELIANCE BY THIRD PARTY ON THE CONTENT OF THIS DOCUMENT.  DEVELOPMENT & INFRASTRUCTURE CONSULTING CIVPLAN PTY LTD ABN: 49 620 926 114 CIVPLAN CONSULTING PTY LTD ABN: 79 157 731 912 SOUTH COAST OFFICE: 390 PRINCES HIGHWAY, BOMADERRY NSW 2541 SYDNEY OFFICE: 152 SAILORS BAY ROAD, NORTHBRIDGE NSW 2063 T: 1800 318 052 E: info@civplan.com.au W: www.civplan.com.au	JOB NAME: 8 LOT RESIDENTIAL SUBDIVISION LOCATION: 27 BONNETT DRIVE, RUN-O-WATERS, NSW LOT 24 DP 1053904 LGA: GOULBURN MULWAREE COUNCIL		FOR CONCEPT APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	
	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25		RELEASE DATE: 25 AUGUST 2025			
	DRAWN	JN					CLIENT: KIMBLA PASTORAL COMPANY PTY LTD	JOB-DRAWING NUMBER		REV
	CHECKED	TP					DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN	DRAWING: COVER AND INDEX		
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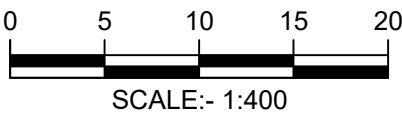


GENERAL ARRANGEMENT PLAN
1:400 @ A1

SHEET LEGEND

DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
BARRIER KERB 'KG'		KERB / PEDESTRIAN RAMP		SUB-SOIL AND FLUSH POINTS		STORMWATER LOCATION (EXISTING)		EXISTING WATER MAIN		EXISTING SEWER MAIN	
ROLL KERB 'SA'		NOMINAL CONTROL LINE		KERB ADAPTOR / OUTLET		SEWER LOCATION (EXISTING)		PROPOSED WATER MAIN		PROPOSED SEWER MAIN	
EDGE RESTRAINT 'KS'		ROAD PAVEMENT		LIMIT OF WORKS		WATER LOCATION (EXISTING)		PROPOSED HYDRANT		PROPOSED SEWER MANHOLE	
KERB ONLY 'KO'		PATH PAVING (CONCRETE)		PROPOSED LOT BOUNDARIES		TELSTRA LOCATION (EXISTING)		PROPOSED STOP VALVE		PROPOSED THRUST CONNECTOR	
MOUNTABLE SF TYPE KERB 'SF'		CONTOURS (MAJOR)		TREE AND LANDSCAPING		FIBRE OPTICS LOCATION (EXISTING)		PROPOSED THRUST CONNECTOR		PROPOSED SCOUR VALVE ASSEMBLY	
DISH DRAIN 'DD'		CONTOURS (MINOR)		DRAINAGE PIT - 1.8m PIT WITH LINTEL		ELECTRICAL LOCATION (EXISTING)		PROPOSED WATER SERVICE/METER		PROPOSED SEWER JUNCTION (I.O.)	
VEHICULAR CROSSING		RETAINING WALL STRUCTURES		DRAINAGE PIT - 2.4m SAG WITH LINTEL		GAS LOCATION (EXISTING)		PROPOSED THRUST BLOCK		PROPOSED THRUST BLOCK	

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	RELEASE DATE: 25 AUGUST 2025										
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	DRAWN	JN						DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN	25022-GA-1005		0
	CHECKED	TP						DRAWING: GENERAL ARRANGEMENT PLAN			
APPROVED	JW										



EXISTING AND SITE PREPERATION PLAN

1:400 @ A1

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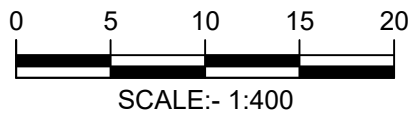


SHEET LEGEND	
DESCRIPTION	DETAIL
TREES TO BE REMOVED	
DEMOLITION WORKS	
TREE TO BE RETAIN	
TELSTRA CABLE (DBYD)	
WATER MAIN (DBYD)	
SEWER MAIN (DBYD)	
STORMWATER (DBYD)	
ELECTRICAL (DBYD)	
TREE PROTECTION	

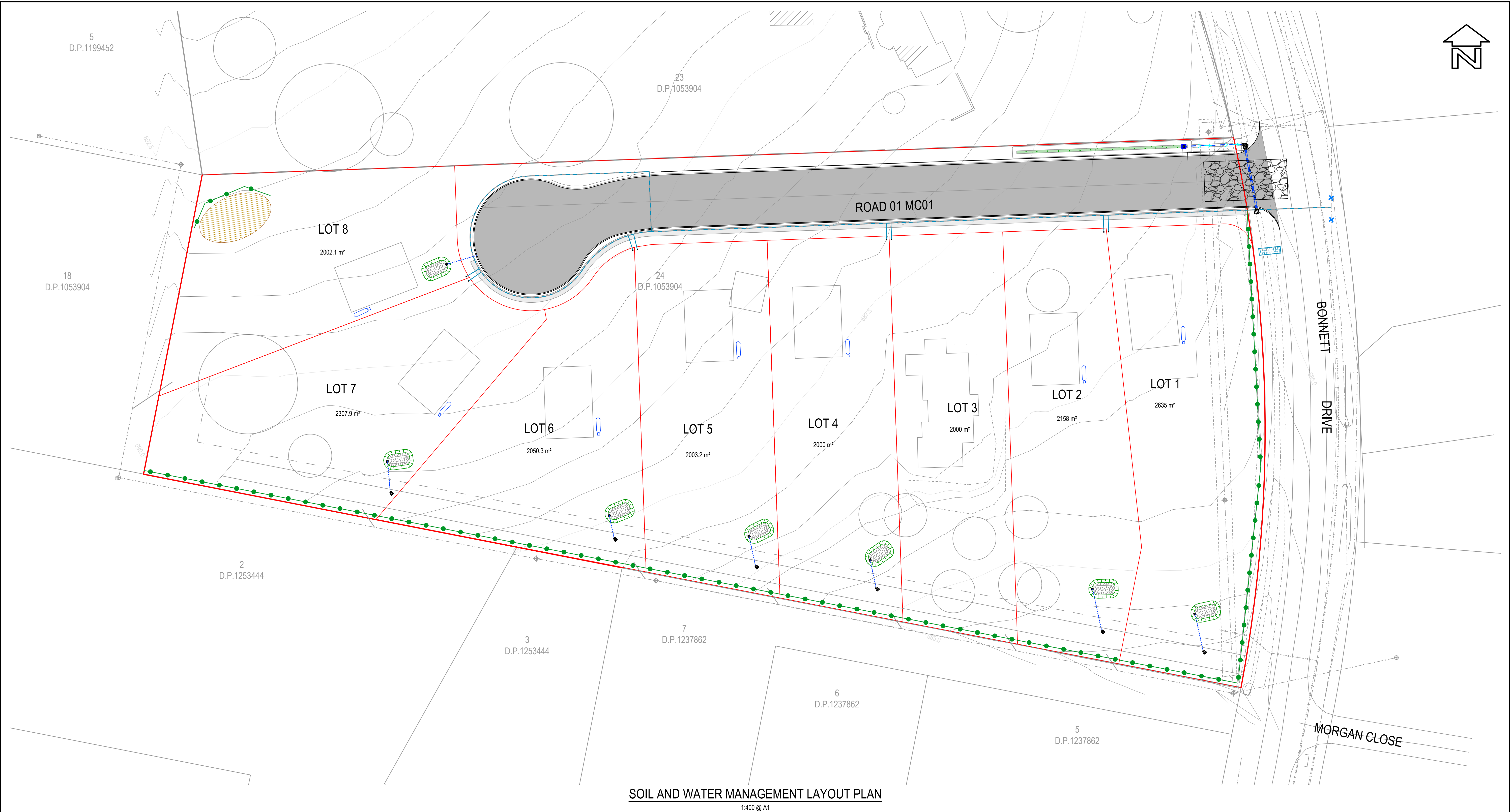
DEMOLITION AND SUBSEQUENT LAND REMEDIATION (IF REQUIRED) TO BE UNDERTAKEN IN ACCORDANCE WITH THE DA CONSENT, AUSTRALIAN STANDARDS, SAFEWORK NSW CODES OF PRACTICE AND EPA GUIDELINES

ALL CLEARING IS TO BE CONDUCTED AS APPROVED BY COUNCIL AND UNDER SUPERVISION OF AN ECOLOGIST IN ACCORDANCE WITH THE ECOLOGICAL MANAGEMENT PLAN (EMP).

ALL INTERNAL SERVICES TO BE ADJUSTED/ISOLATED AND RELEVANT INSPECTIONS COMPLETED PRIOR TO COMMENCEMENT OF DEMOLITION WORKS.



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	DRAWN	JN						CLIENT: KIMBLA PASTORAL COMPANY PTY LTD		JOB-DRAWING NUMBER		REV
	CHECKED	TP						DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN		25022-GA-1010		0
	APPROVED	JW						DRAWING: EXISTING AND SITE PREPERATION PLAN				



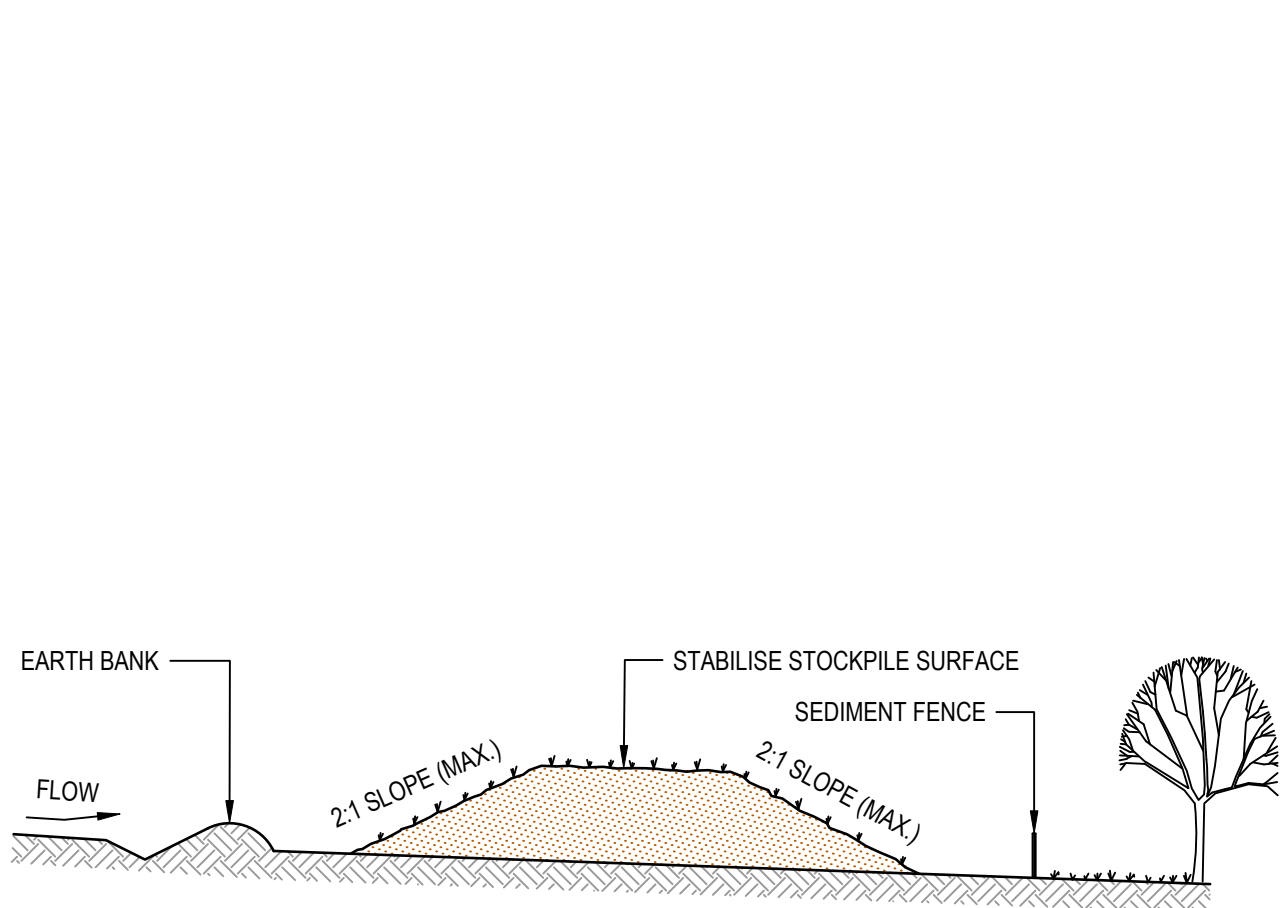
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SHEET LEGEND							
DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
MAJOR DESIGN CONTOURS		GRAVEL INLET FILTER		STRAW BALE FILTER		TOPSOIL STOCKPILES WITH DOWNSTREAM SILT FENCING	
MINOR DESIGN CONTOURS							
SILT FENCE		STABILISED ACCESS / GRID & WHEEL WASH		GEOTEXTILE COVER		TEMPORARY SEDIMENT BASIN	
CLEAN WATER DIVRSION							



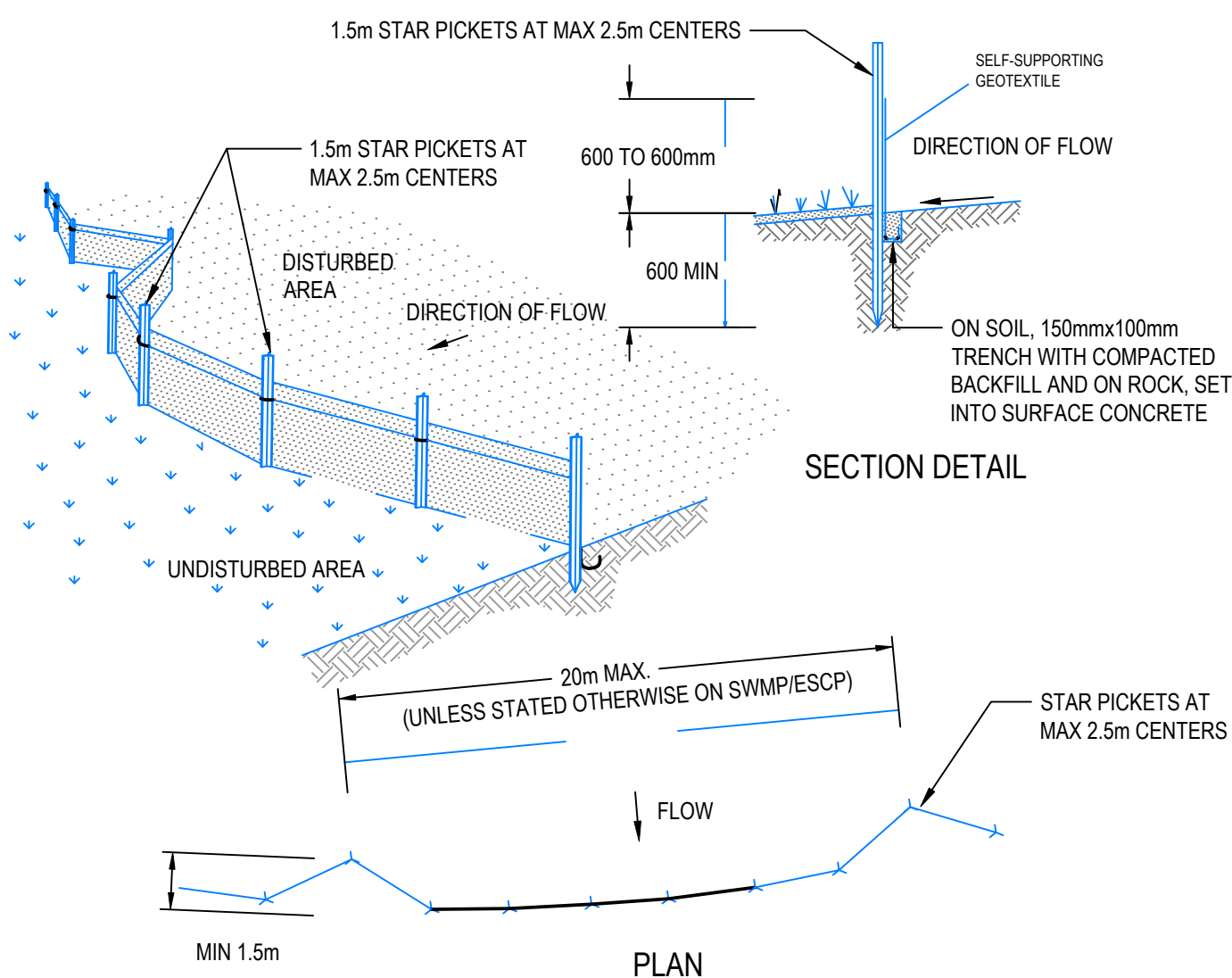
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	DRAWN	JN						CLIENT: KIMBLA PASTORAL COMPANY PTY LTD		JOB-DRAWING NUMBER		REV
	CHECKED	TP						DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN		25022-GS-1100		0
	APPROVED	JW						DRAWING: SOIL AND WATER MANAGEMENT LAYOUT PLAN				



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

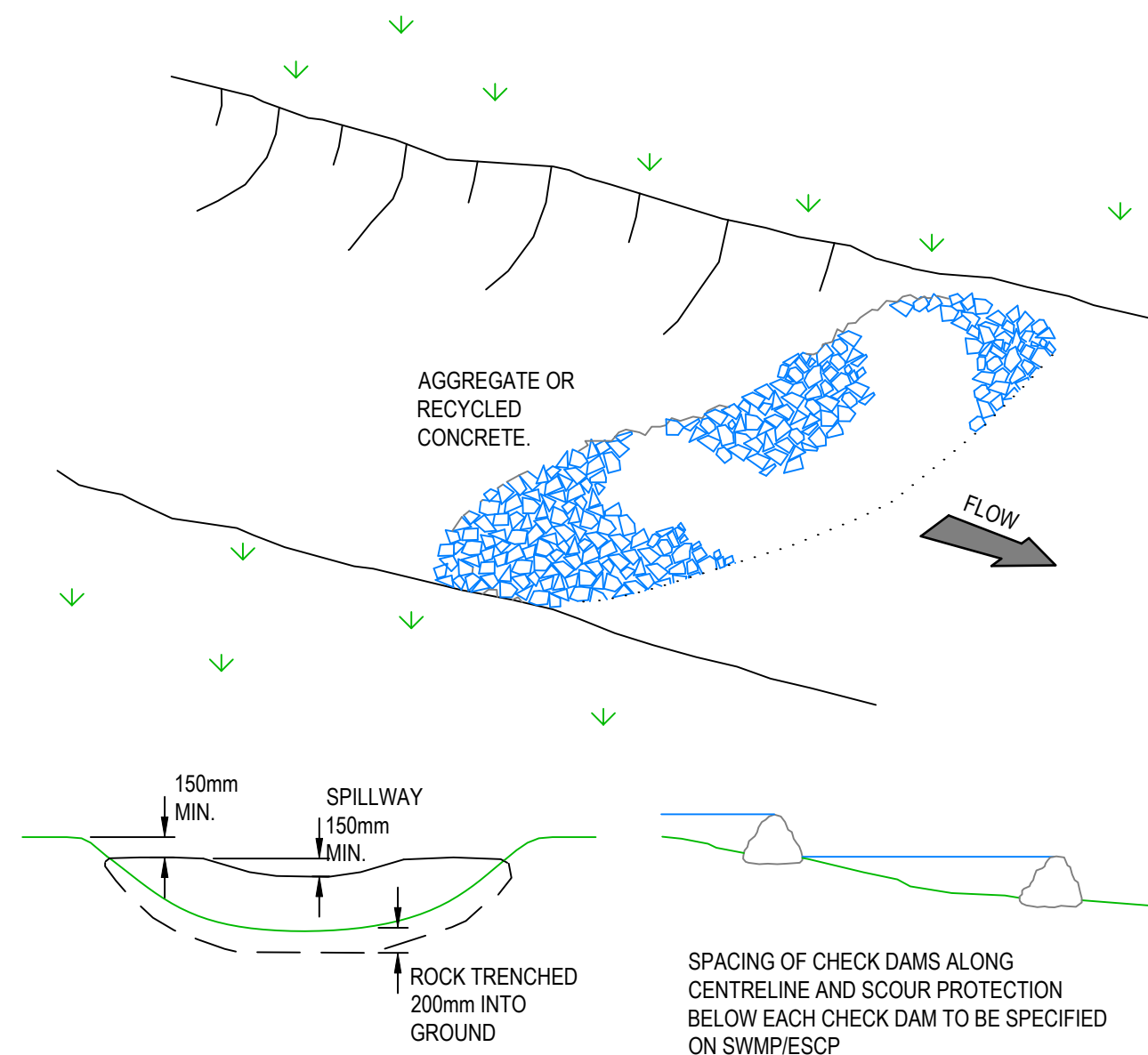
STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

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 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE 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 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)

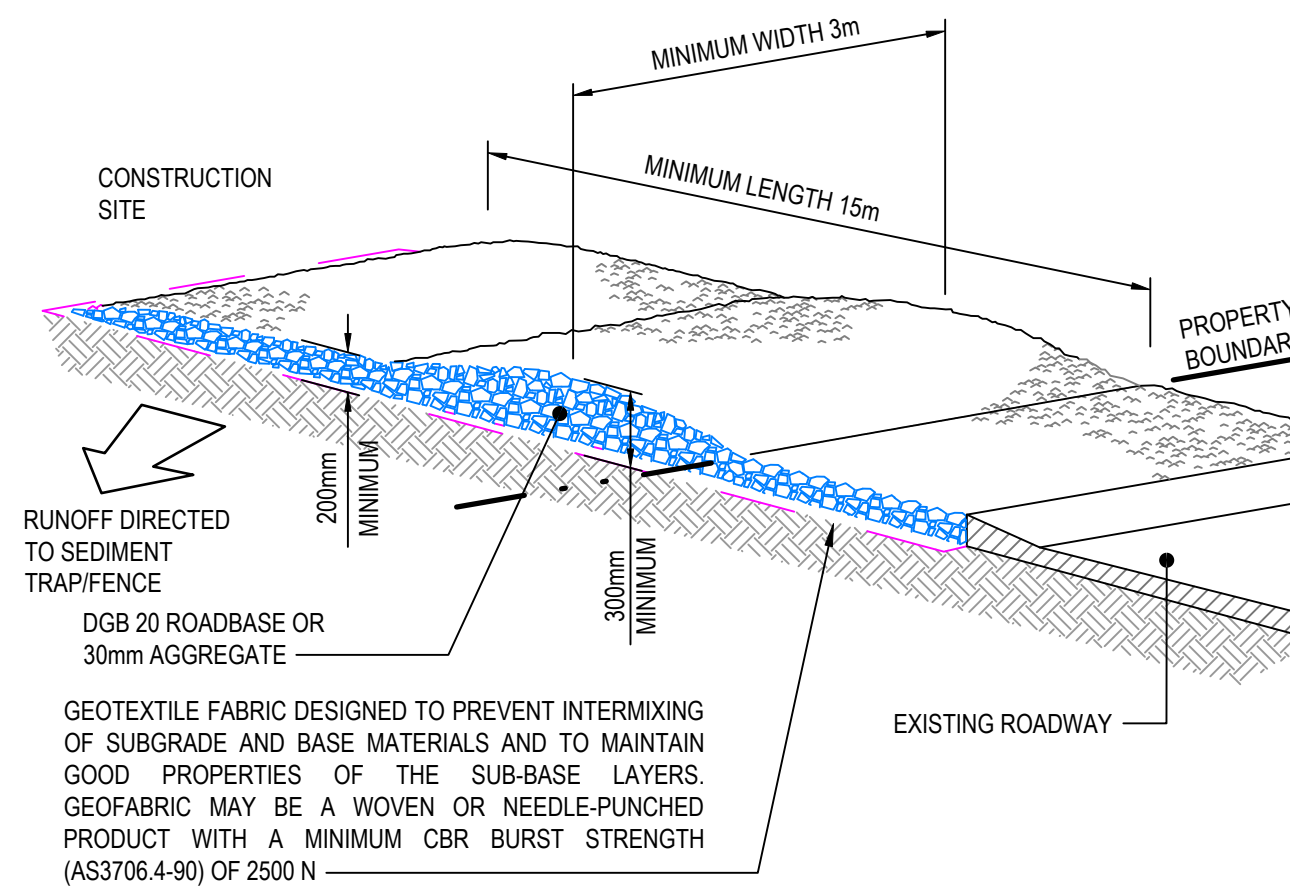


CONSTRUCTION NOTES

1. CHECK DAMS CAN BE BUILT WITH VARIOUS MATERIALS, INCLUDING ROCKS, LOGS, SANDBAGS AND STRAW BALES. THE MAINTENANCE PROGRAM SHOULD ENSURE THEIR INTEGRITY IS RETAINED, ESPECIALLY WHERE CONSTRUCTED WITH STRAW BALES. IN THE CASE OF BALES, THIS MIGHT REQUIRE THEIR REPLACEMENT EACH TWO TO FOUR MONTHS.
2. TRENCH THE CHECK DAM 200mm INTO THE GROUND ACROSS ITS WHOLE WIDTH. WHERE ROCK IS USED, FILL THE TRENCHES TO AT LEAST 100mm ABOVE THE GROUND SURFACE TO REDUCE THE RISK OF UNDERCUTTING.
3. NORMALLY, THEIR MAXIMUM HEIGHT SHOULD NOT EXCEED 600mm ABOVE THE GULLY FLOOR. THE CENTRE SHOULD ACT AS A SPILLWAY, BEING AT LEAST 150mm LOWER THAN THE OUTER EDGES.
4. SPACE THE DAMS SO THE TOE OF THE UPSTREAM DAM IS LEVEL WITH THE SPILLWAY OF THE NEXT DOWNSTREAM DAM.

ROCK CHECK DAM (SD 5-4)

SE5.4



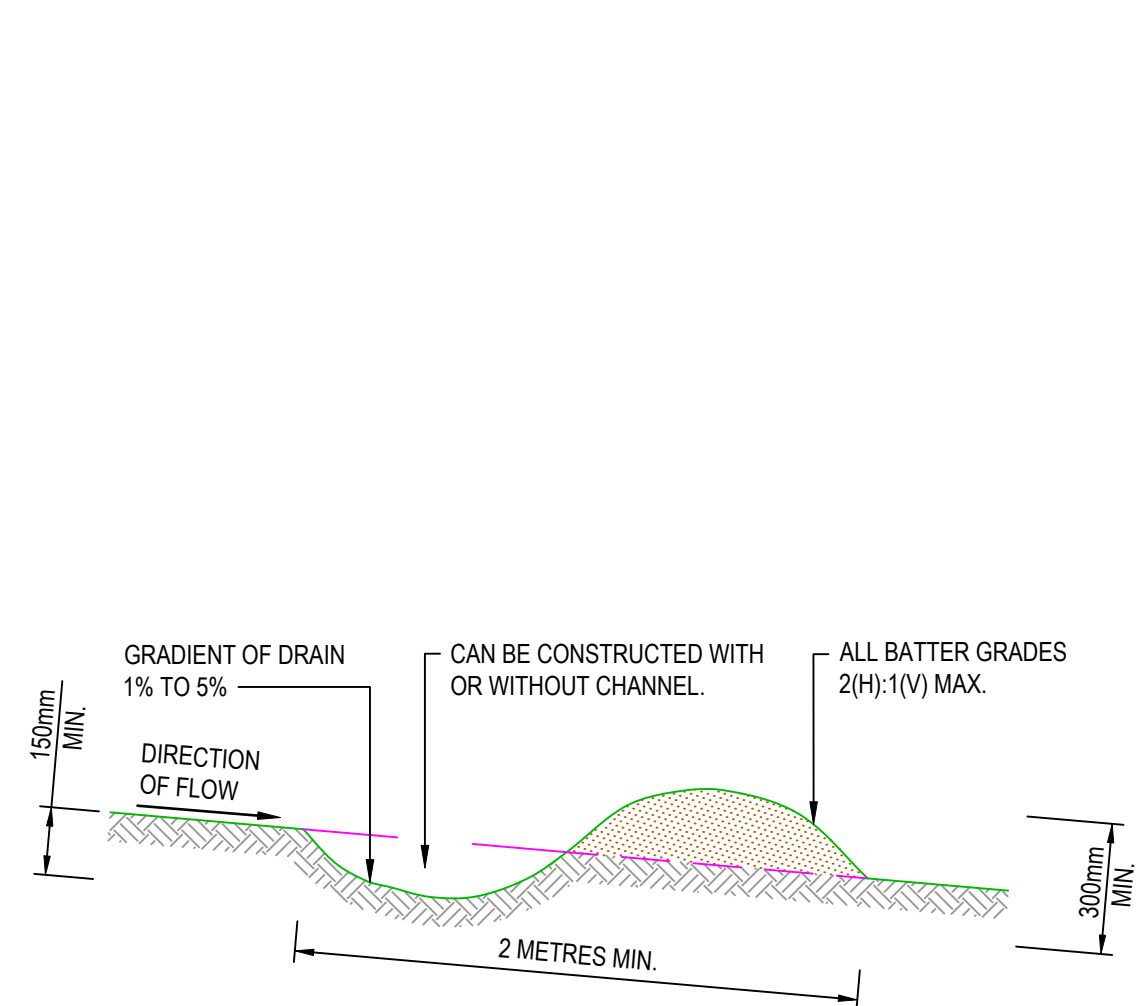
ALTERNATIVE OPTION - VIBRATING ACCESS GRID

PENDING PREFERENCE OF THE NOMINATED MANAGING CONTRACTOR A VIBRATING ACCESS GRID CAN ALSO BE UTILISED DURING CONSTRUCTION. FOR FURTHER DETAILS PLEASE REFER TO THE CATCHMENTS AND CREEKS STANDARD "CONSTRUCTION EXITS - VIBRATION GRIDS - SEDIMENT CONTROL TECHNIQUE - VERSION 2 - APRIL 2010".

CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS (SD 6-14)

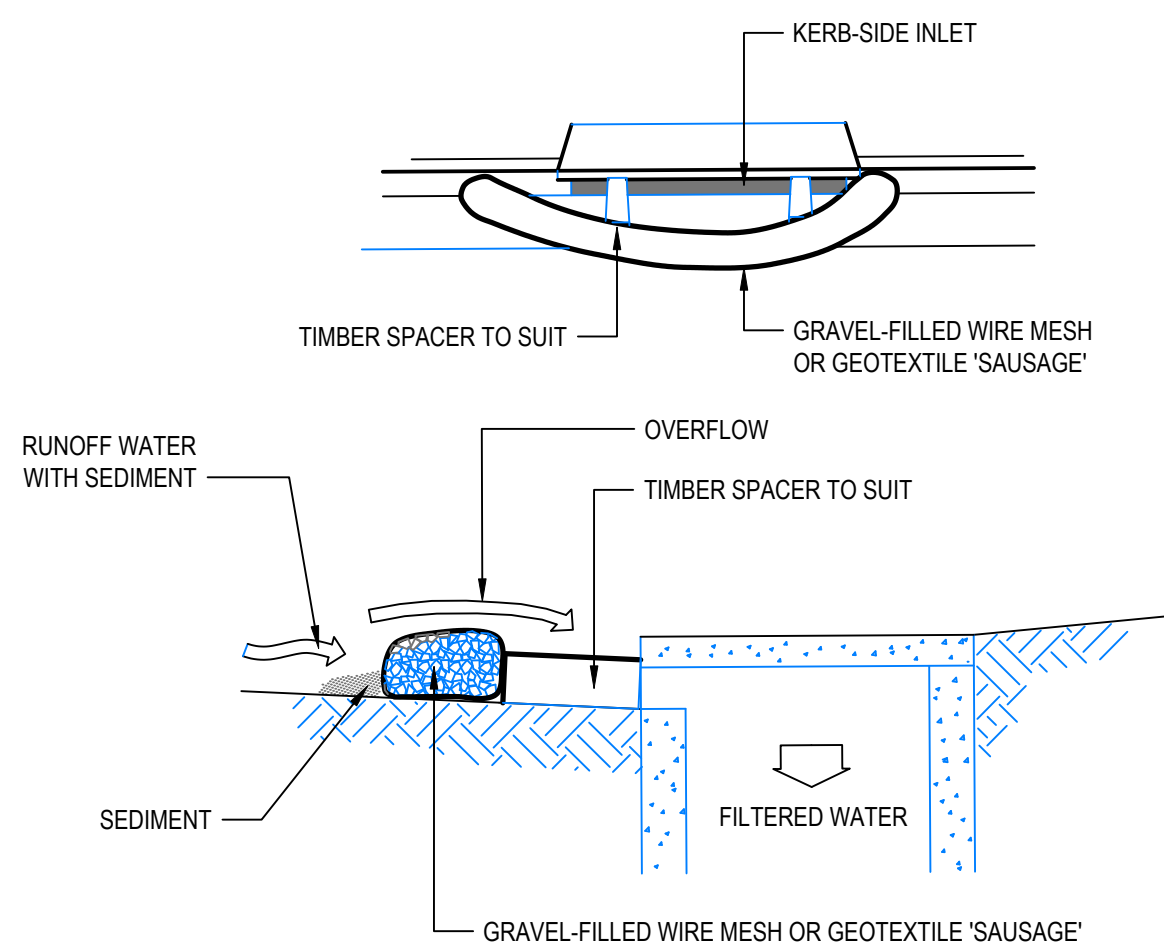


CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK - LOW FLOW (SD 5-5)

NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

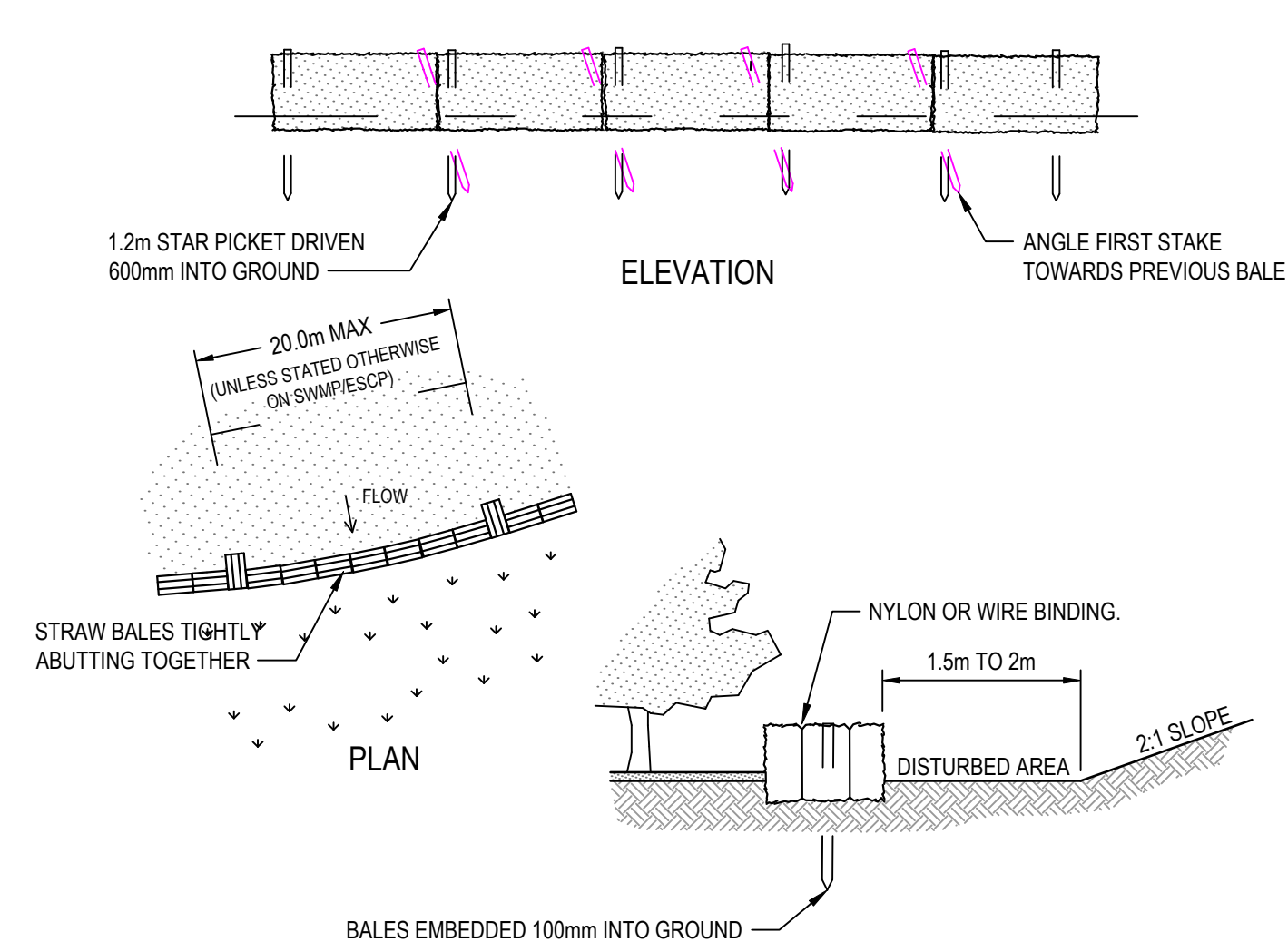


NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

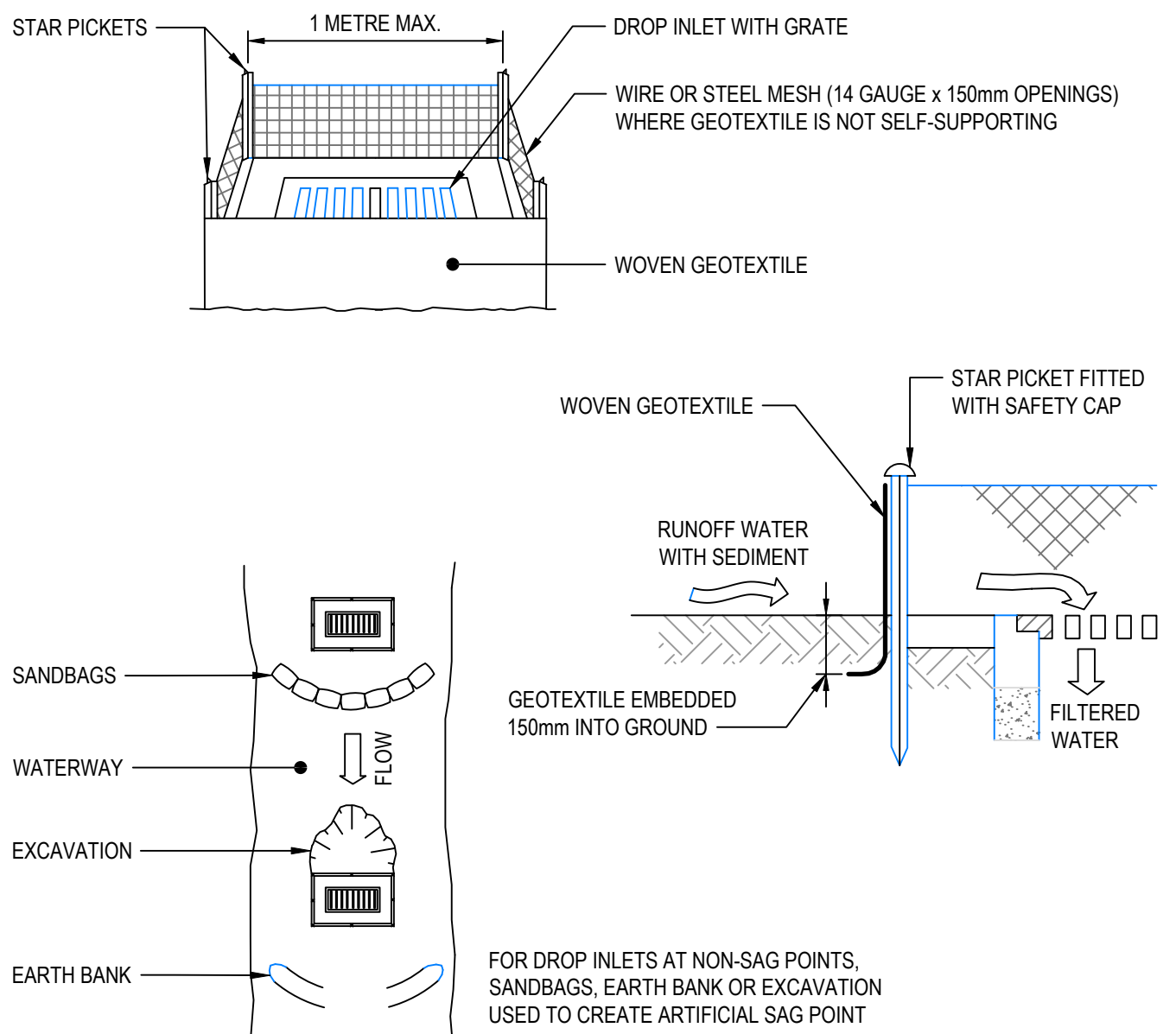
MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER (SD 6-7)

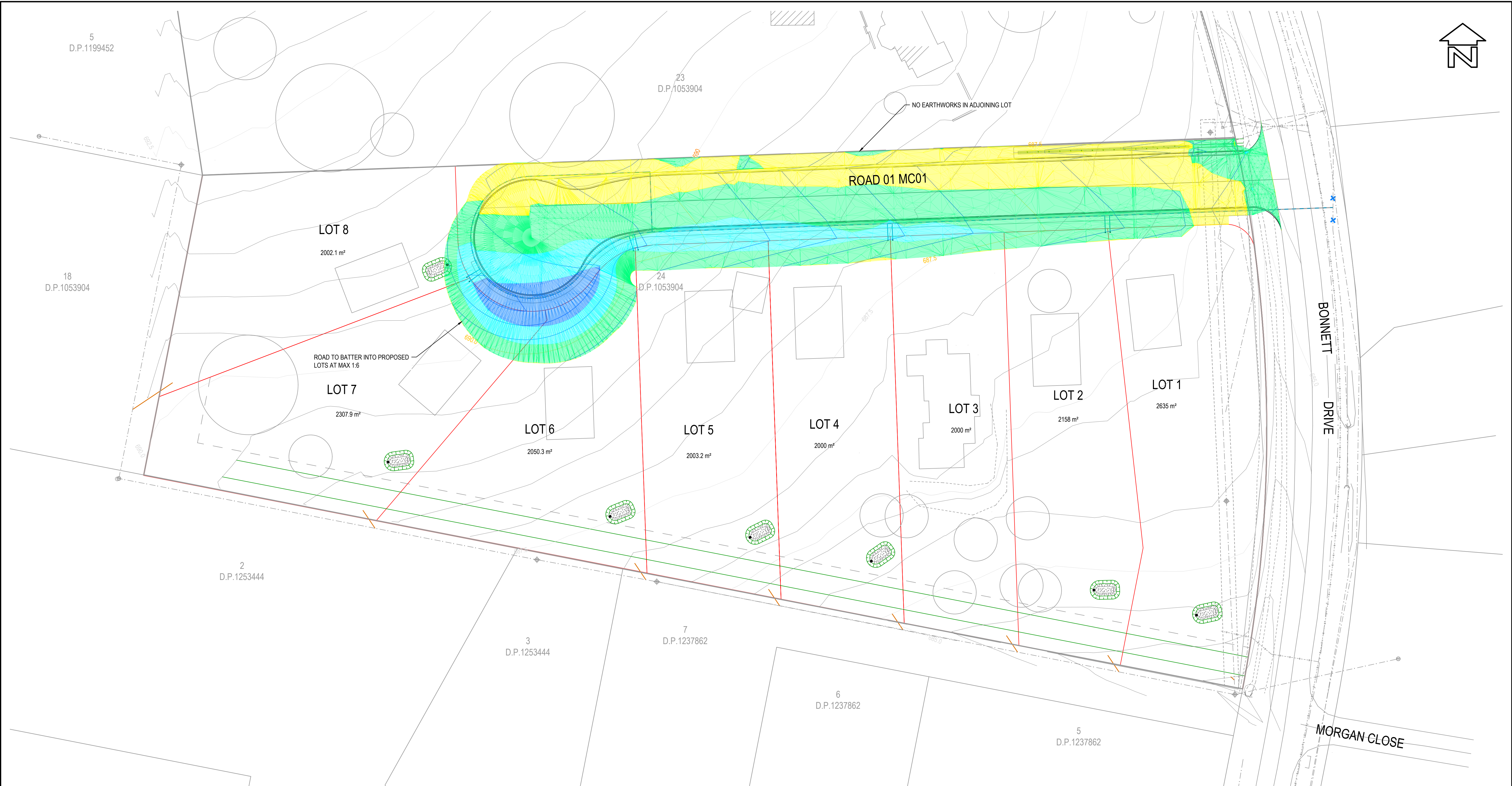


CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)

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	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25				RELEASE DATE: 25 AUGUST 2025	
	DRAWN	JN							JOB-DRAWING NUMBER	
	CHECKED	TP							25022-GS-1101	
	APPROVED	JW							REV	
										0



BULK EARTHWORKS PLAN
1:400 @ A1

DEPTHS TABLE	
ELEVATION	COLOUR
5.00 to 4.00	
4.00 to 3.00	
3.00 to 2.00	
2.00 to 1.00	
1.00 to 0.50	
0.50 to 0.00	
0.00 to -0.50	
-0.50 to -1.00	
-1.00 to -2.00	
-2.00 to -3.00	
-3.00 to -4.00	
-4.00 to -5.00	

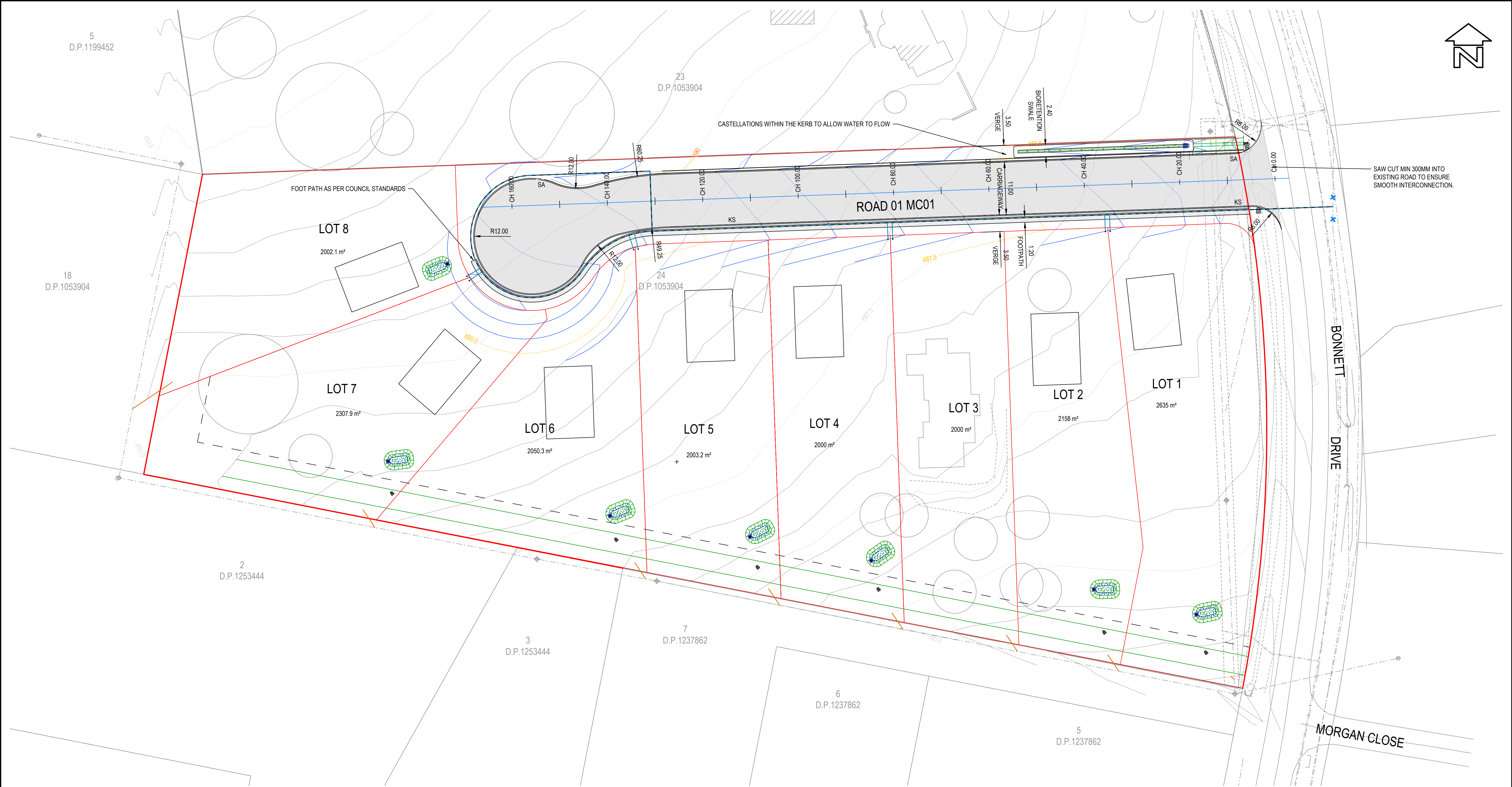
VOLUME SUMMARY TABLE	
ITEM	AMOUNT
TOTAL CUT	186m³
TOTAL FILL	1,189m³
NET VOLUME (FILL)	1,002m³
TOTAL CUT AREA	1,858m²
TOTAL FILL AREA	3,071m²
TOTAL WORKS AREA	4,929m²



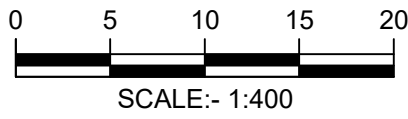
WARNING
BEWARE OF UNDERGROUND SERVICES
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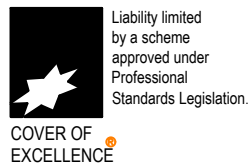
SCALE: AS NOTED SIZE: A1 DATE OF SURVEY: 28 MAR 2025 DATUM: MGA2020, AHD	SURVEY	LP	REV	DESCRIPTION	DATE	CIVPLAN PTY LIMITED ALL RIGHTS RESERVED. THIS DOCUMENT IS PRODUCED BY CIVPLAN PTY LTD SOLELY FOR THE BENEFIT OF AND USE BY THE CLIENT IN ACCORDANCE WITH THE TERMS OF THE RETAINER. CIVPLAN PTY LTD DOES NOT AND SHALL NOT ASSUME ANY RESPONSIBILITY OR LIABILITY WHATSOEVER TO ANY THIRD PARTY ARISING OUT OF ANY USE OF RELIANCE BY THIRD PARTY ON THE CONTENT OF THIS DOCUMENT.	 CIVPLAN PTY LTD ABN: 49 620 926 114 CIVPLAN CONSULTING PTY LTD ABN: 79 157 731 912 SOUTH COAST OFFICE: 390 PRINCES HIGHWAY, BOMADERRY NSW 2541 SYDNEY OFFICE: 152 SAILORS BAY ROAD, NORTHBRIDGE NSW 2063 T: 1800 318 052 E: info@civplan.com.au W: www.civplan.com.au	JOB NAME: 8 LOT RESIDENTIAL SUBDIVISION LOCATION: 27 BONNETT DRIVE, RUN-O-WATERS, NSW LOT 24 DP 1053904 LGA: GOULBURN MULWAREE COUNCIL	FOR CONCEPT APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES				
	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25								
	DRAWN	JN									CLIENT: KIMBLA PASTORAL COMPANY PTY LTD	JOB-DRAWING NUMBER	REV
	CHECKED	TP									DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN	25022-GV-1150	0
	APPROVED	JW									DRAWING: BULK EARTHWORKS PLAN		



ROAD LAYOUT PLAN
1:400 @ A1



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SHEET LEGEND											
DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
BARRIER KERB 'KG'		KERB / PEDESTRIAN RAMP		SUB-SOIL AND FLUSH POINTS		STORMWATER LOCATION (EXISTING)		EXISTING WATER MAIN		EXISTING SEWER MAIN	
ROLL KERB 'SA'		NOMINAL CONTROL LINE		KERB ADAPTOR / OUTLET		SEWER LOCATION (EXISTING)		PROPOSED WATER MAIN		PROPOSED SEWER MAIN	
EDGE STRIP 'KS'		ROAD PAVEMENT		LIMIT OF WORKS		WATER LOCATION (EXISTING)		PROPOSED HYDRANT		PROPOSED SEWER MANHOLE	
KERB ONLY 'KO'		PATH PAVING (CONCRETE)		PROPOSED LOT BOUNDARIES		TELSTRA LOCATION (EXISTING)		PROPOSED STOP VALVE		PROPOSED THRUST CONNECTOR	
MOUNTABLE SF TYPE KERB 'SF'		CONTOURS (MAJOR)		TREE AND LANDSCAPING		FIBRE OPTICS LOCATION (EXISTING)		PROPOSED THRUST CONNECTOR		PROPOSED SCOUR VALVE ASSEMBLY	
DISH DRAIN 'DD'		CONTOURS (MINOR)		DRAINAGE PIT - 1.8m PIT WITH LINTEL		ELECTRICAL LOCATION (EXISTING)		PROPOSED WATER SERVICE/METER		PROPOSED SEWER JUNCTION (I.O.)	
VEHICULAR CROSSING		RETAINING WALL STRUCTURES		DRAINAGE PIT - 2.4m SAG WITH LINTEL		GAS LOCATION (EXISTING)		PROPOSED THRUST BLOCK		PROPOSED THRUST BLOCK	

SCALE: AS NOTED
SIZE: A1
DATE OF SURVEY: 28 MAR 2025
DATUM: MGA2020, AHD

SURVEY	LP	REV	DESCRIPTION	DATE
DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25
DRAWN	JN			
CHECKED	TP			
APPROVED	JW			

SURVEY	LP	REV	DESCRIPTION	DATE
DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25
DRAWN	JN			
CHECKED	TP			
APPROVED	JW			

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DEVELOPMENT & INFRASTRUCTURE CONSULTING

CIVPLAN PTY LTD ABN: 49 620 926 114 | CIVPLAN CONSULTING PTY LTD ABN: 79 157 731 912
SOUTH COAST OFFICE: 390 PRINCES HIGHWAY, BOMADERRY NSW 2541
SYDNEY OFFICE: 152 SAILORS BAY ROAD, NORTHBRIDGE NSW 2063
T: 1800 318 052 E: info@civplan.com.au W: www.civplan.com.au

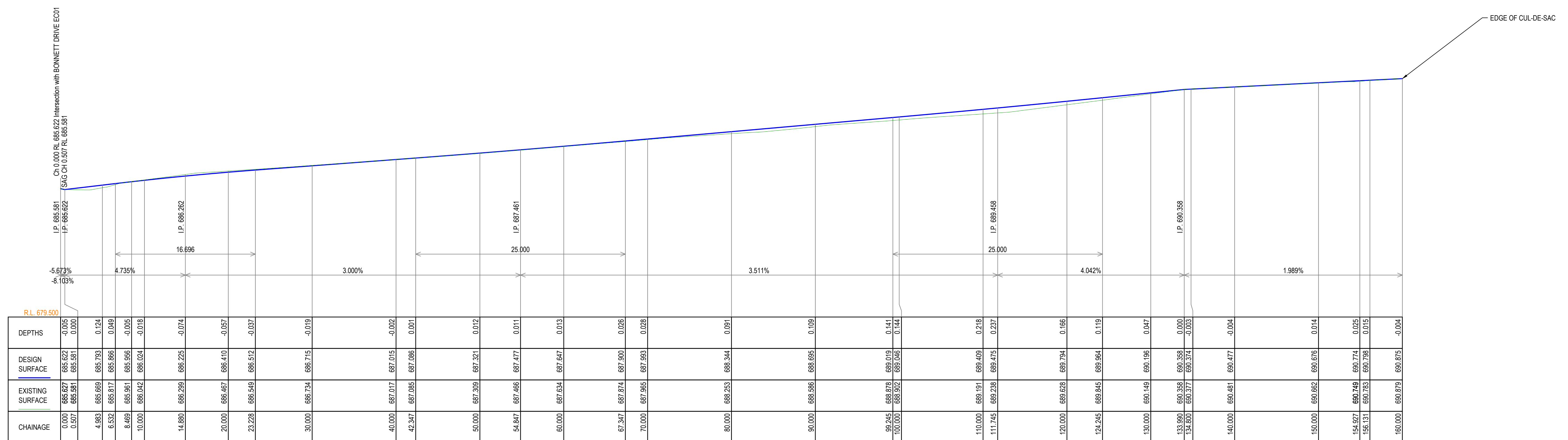
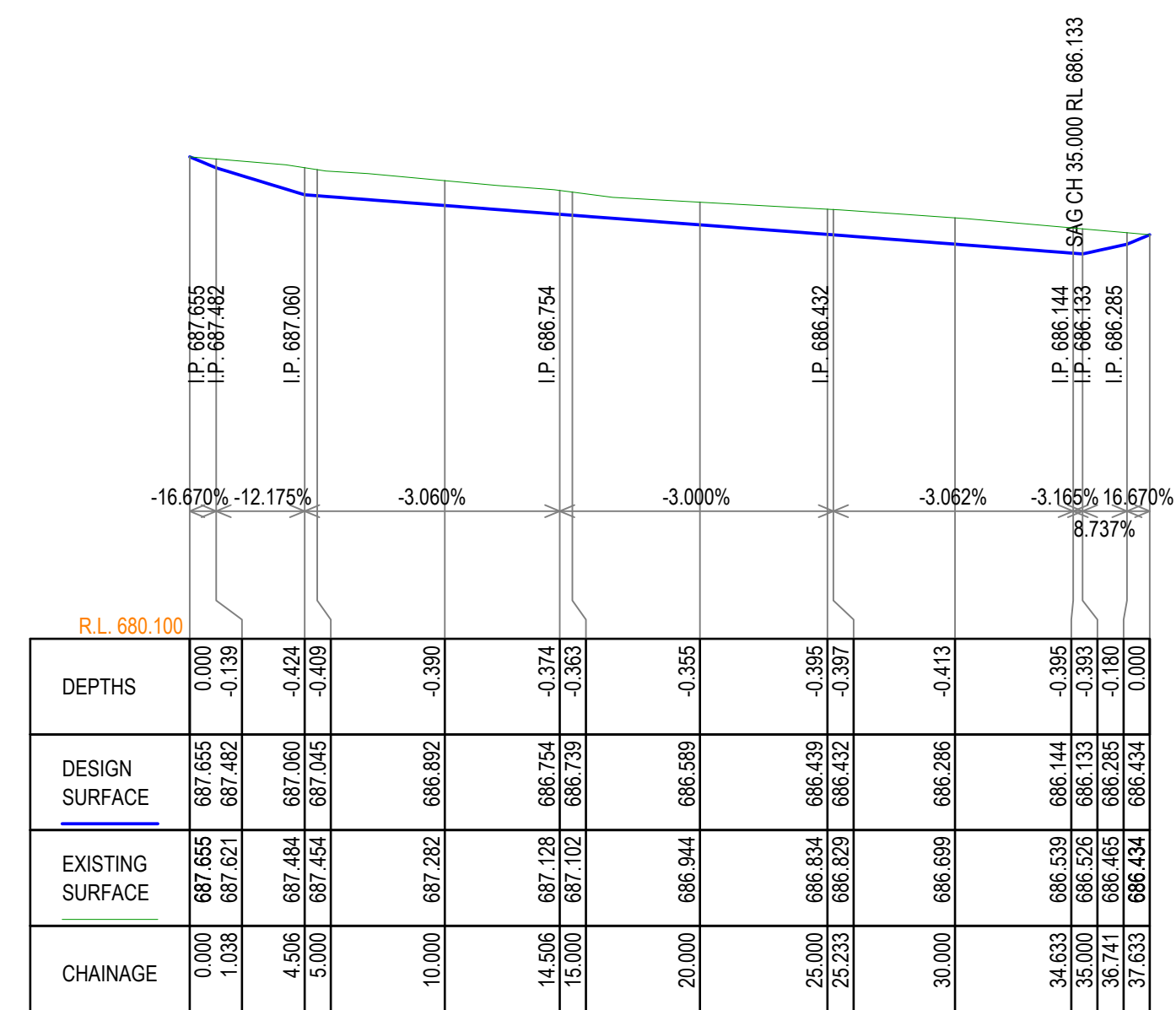
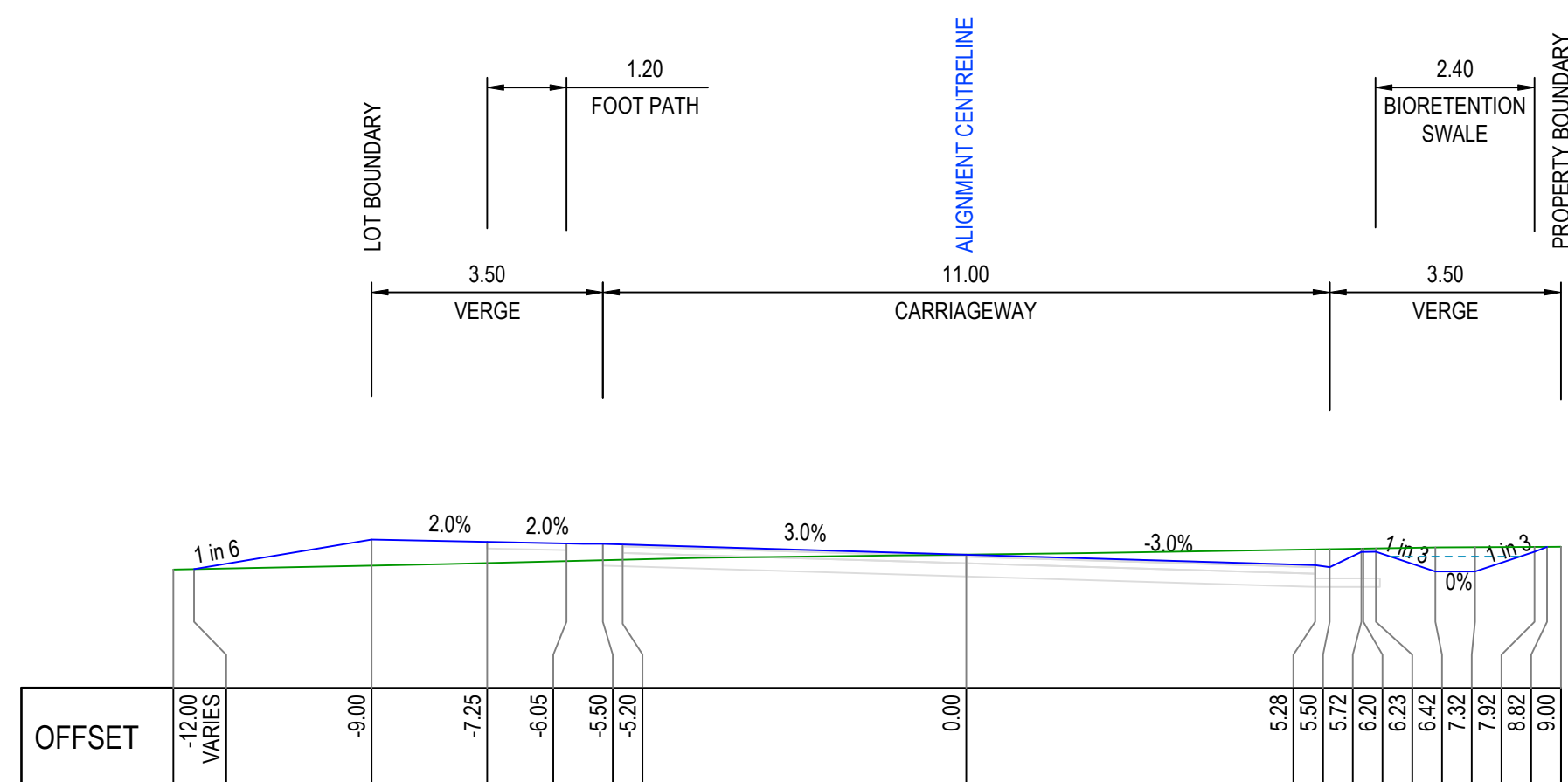
JOB NAME: 8 LOT RESIDENTIAL SUBDIVISION
LOCATION: 27 BONNETT DRIVE, RUN-O-WATERS, NSW LOT 24 DP 1053904
LGA: GOULBURN MULWAREE COUNCIL

CLIENT: KIMBLA PASTORAL COMPANY PTY LTD

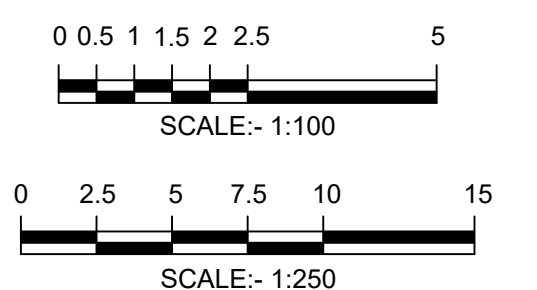
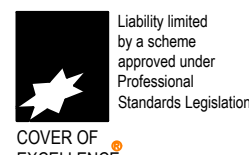
DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN

DRAWING: ROAD LAYOUT PLAN

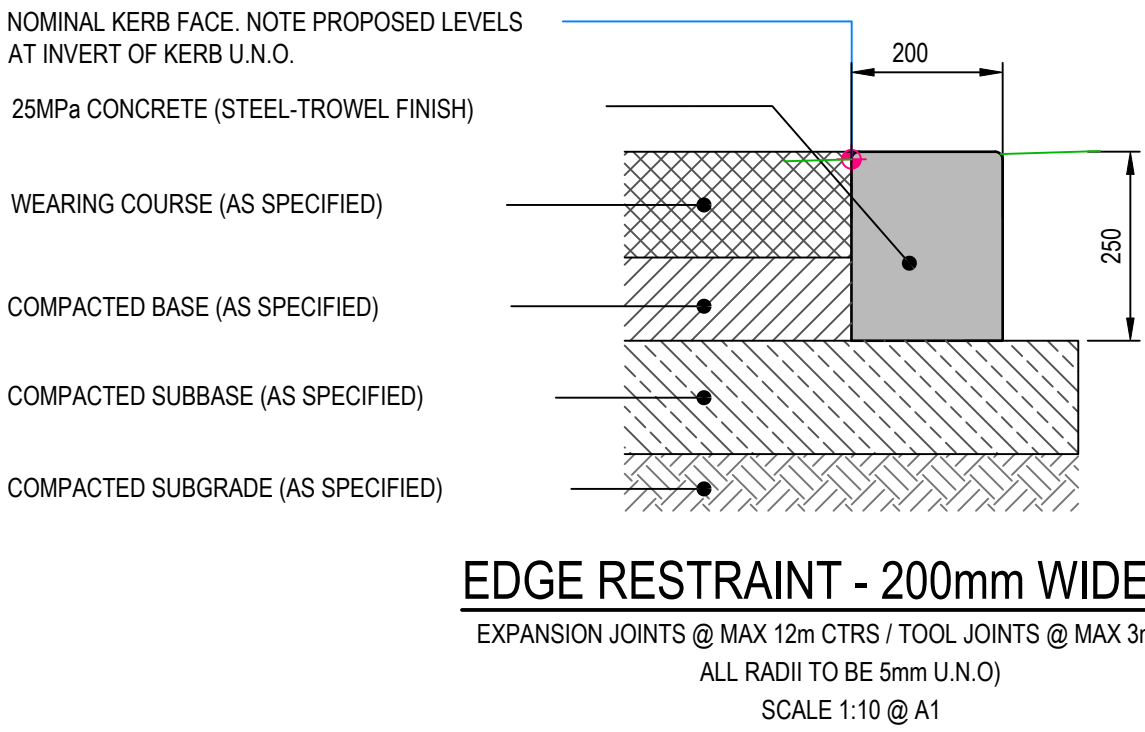
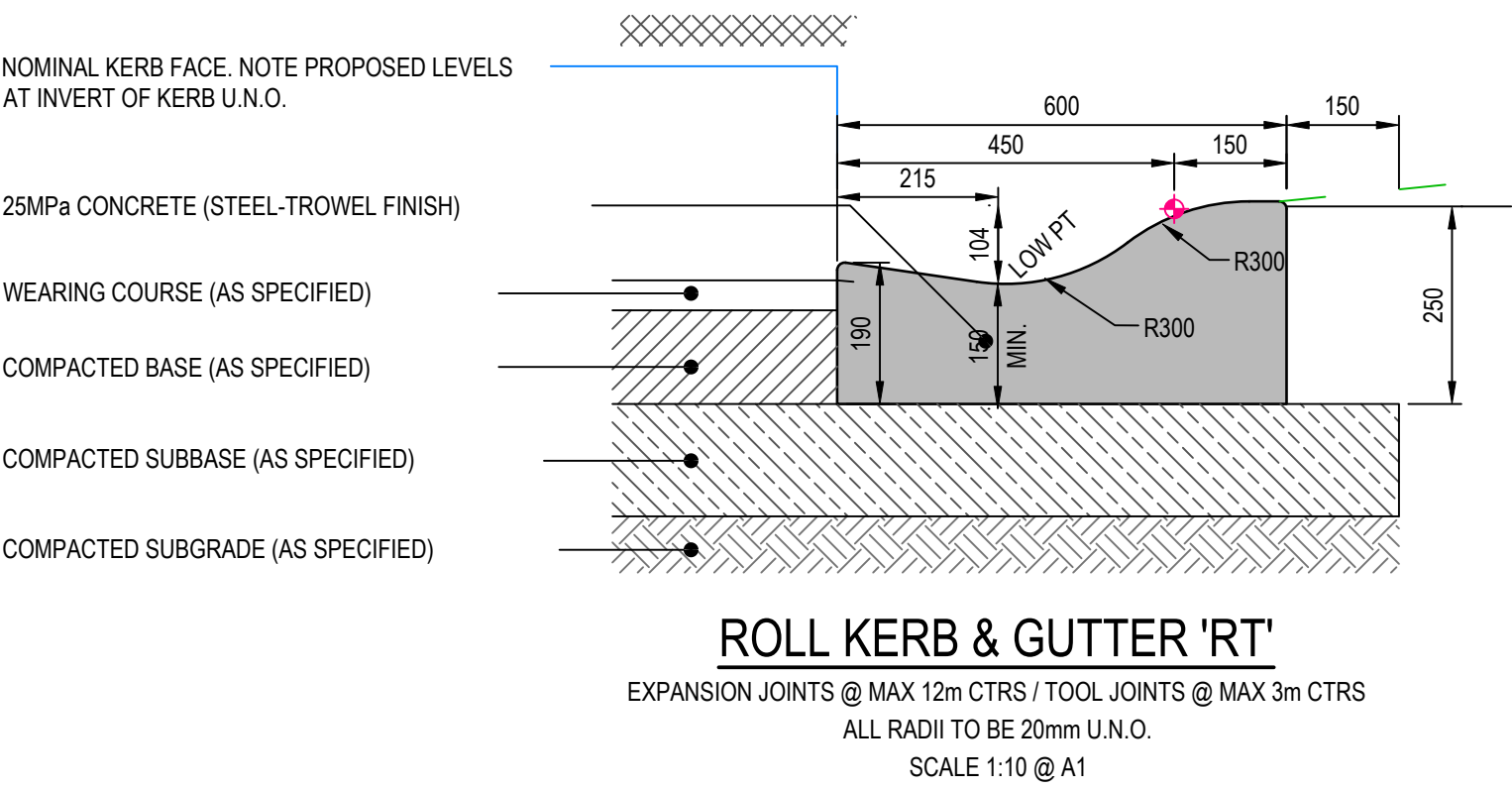
FOR CONCEPT APPROVAL	
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
RELEASE DATE: 25 AUGUST 2025	
JOB-DRAWING NUMBER	REV
25022-RD-1200	0



WARNING
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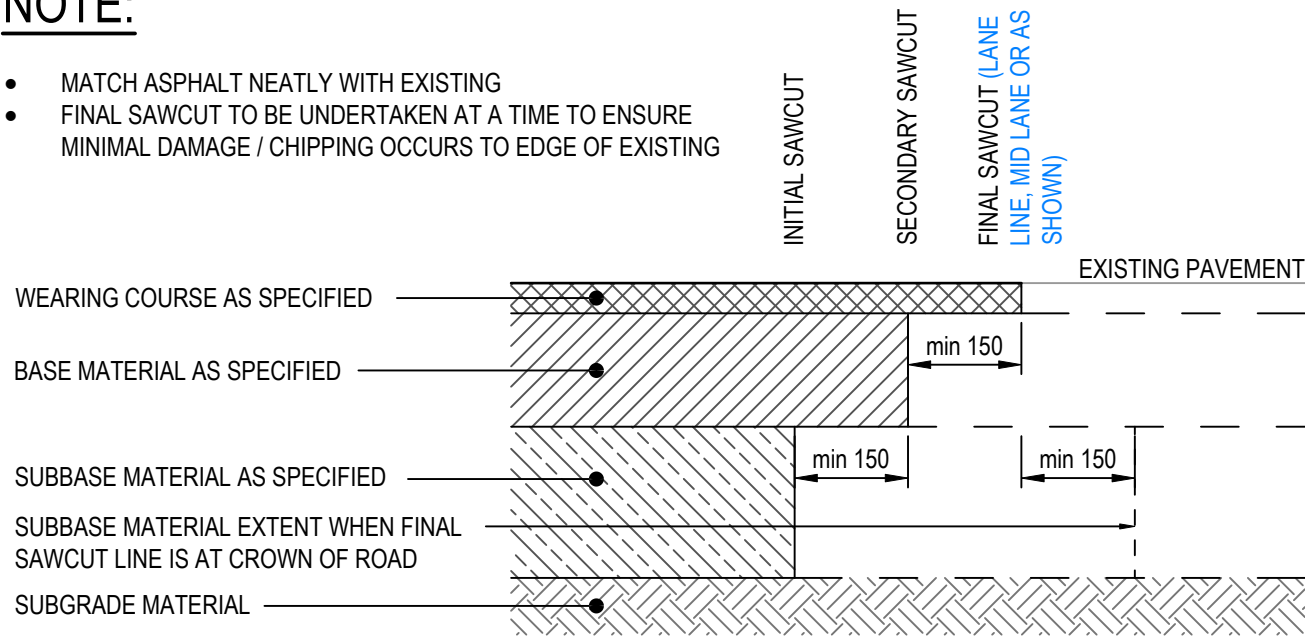


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	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25							
	DRAWN	JN							CLIENT: KIMBLA PASTORAL COMPANY PTY LTD	RELEASE DATE: 25 AUGUST 2025		
	CHECKED	TP							DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN	JOB-DRAWING NUMBER		REV
	APPROVED	JW							DRAWING: ROAD 0X MC0X LONGITUDINAL AND TYPICAL SECTIONS	25022-RD-1230		0

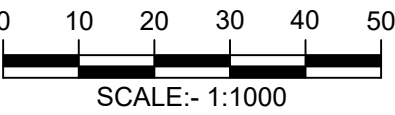


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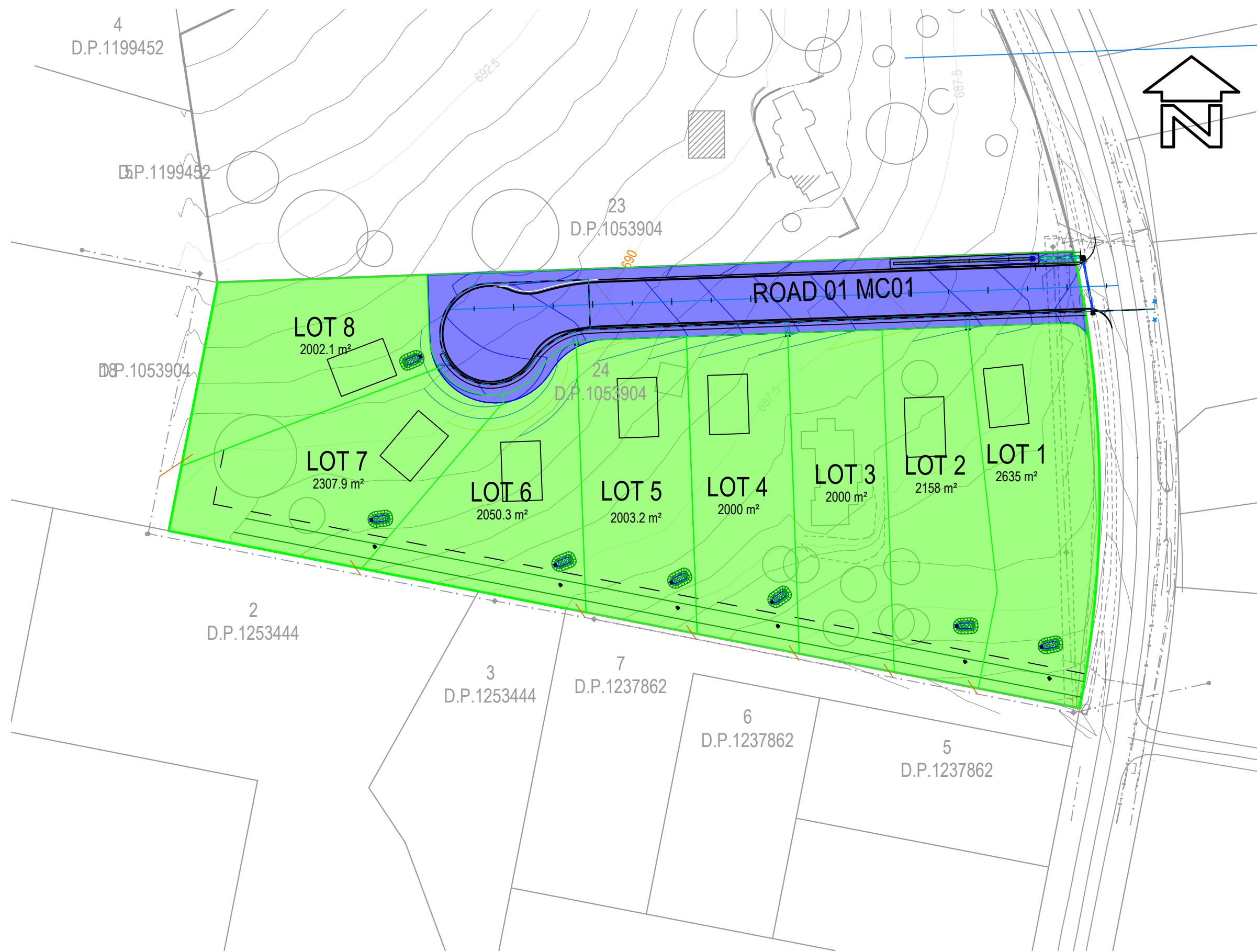
- MATCH ASPHALT NEATLY WITH EXISTING
- FINAL SAWCUT TO BE UNDERTAKEN AT A TIME TO ENSURE MINIMAL DAMAGE / CHIPPING OCCURS TO EDGE OF EXISTING



WARNING
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	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25				RELEASE DATE: 25 AUGUST 2025		
	DRAWN	JN							CLIENT: KIMBLA PASTORAL COMPANY PTY LTD		
	CHECKED	TP							DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN		
	APPROVED	JW							DRAWING: ROAD AND PAVEMENT TYPICAL DETAILS		
								JOB-DRAWING NUMBER		REV	
								25022-RD-1280		0	



Drains Catchment Plan

1:1000 @ A1

POST-DEVELOPMENT CATCHMENT:



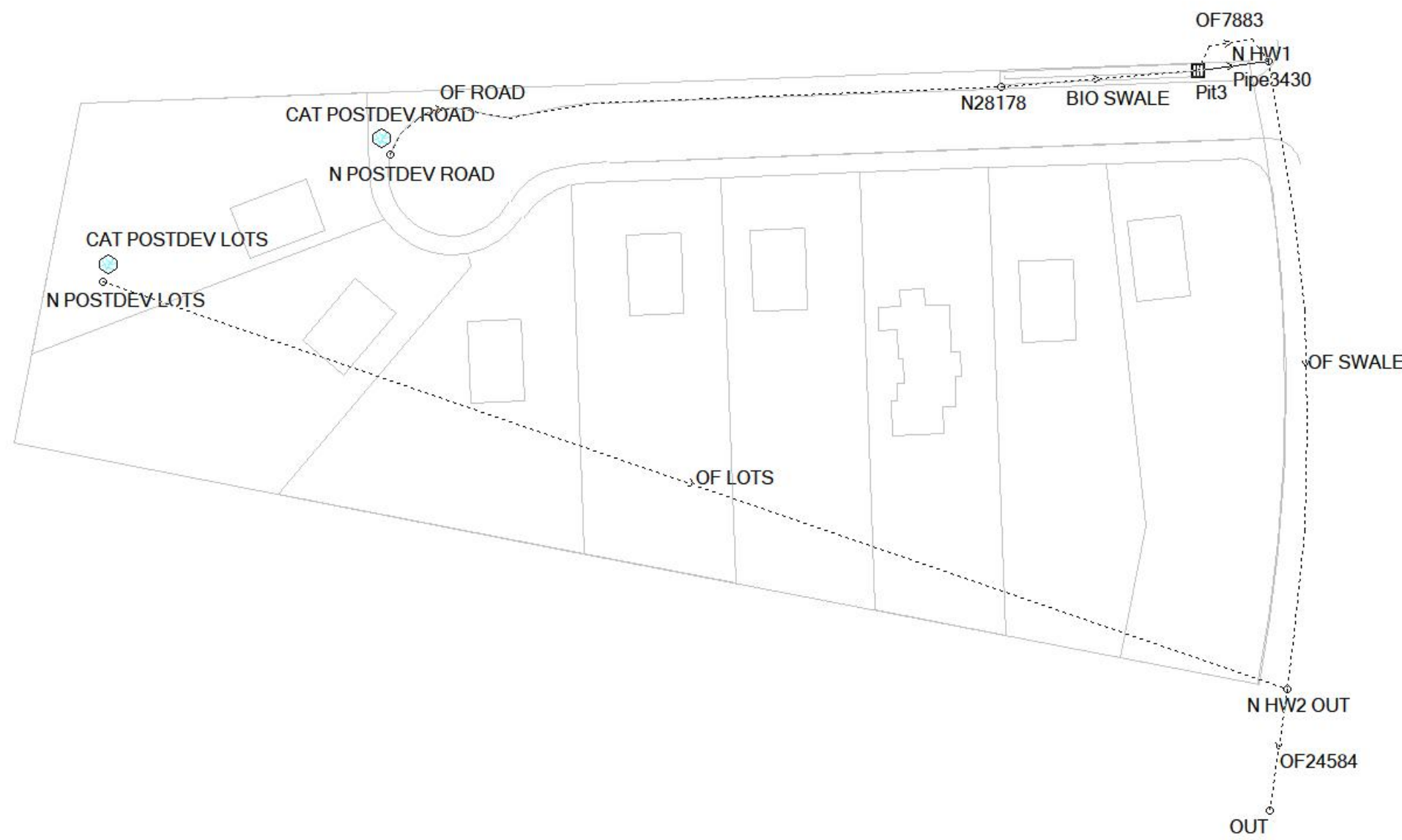
LOT PERMISSIBLE SITE DISCHARGE (PSD) REQUIREMENT						
CRITICAL STORM	PRE DEV SITE	POST DEV SITE	POST DEV ROADS	POST DEV SITE - PRE DEV SITE	PSD REQUIREMENT	
% AEP	m3/s	m3/s	m3/s	m3/s	m3/s/ha	L/s/ha
50	0.056	0.154	0.053	0.003	0.001	1.47
20	0.104	0.276	0.073	0.031	0.015	15.14
10	0.133	0.349	0.086	0.047	0.023	22.96
5	0.170	0.402	0.098	0.072	0.035	35.17
2	0.226	0.492	0.114	0.112	0.055	54.71
1	0.278	0.554	0.125	0.153	0.075	74.74

27 BONNET DRIVE - DRAINS CATCHMENT				
PRE DEVELOPMENT				
SITE	2.047	ha	6% IMP	

27 BONNET DRIVE - DRAINS CATCHMENT				
POST DEVELOPMENT				
SITE LOTS	1.710	ha	40% IMP	
SITE DRIVEWAY	0.337	ha	90% IMP	

CRITICAL STORM	PRE DEV VOL	POST DEV VOL	SSR FOR LOTS	
% AEP	m3	m3	m3	m3/ha
1% <i>2hour</i>	829.0	960.8	131.8	64

LOT	AREA	OSD REQUIRED	
	ha	m3	L
LOT 1	0.264	17	17000
LOT 2	0.216	14	14000
LOT 3	0.200	13	13000
LOT 4	0.200	13	13000
LOT 5	0.200	13	13000
LOT 6	0.205	13	13000
LOT 7	0.231	15	15000
LOT 8	0.200	13	13000



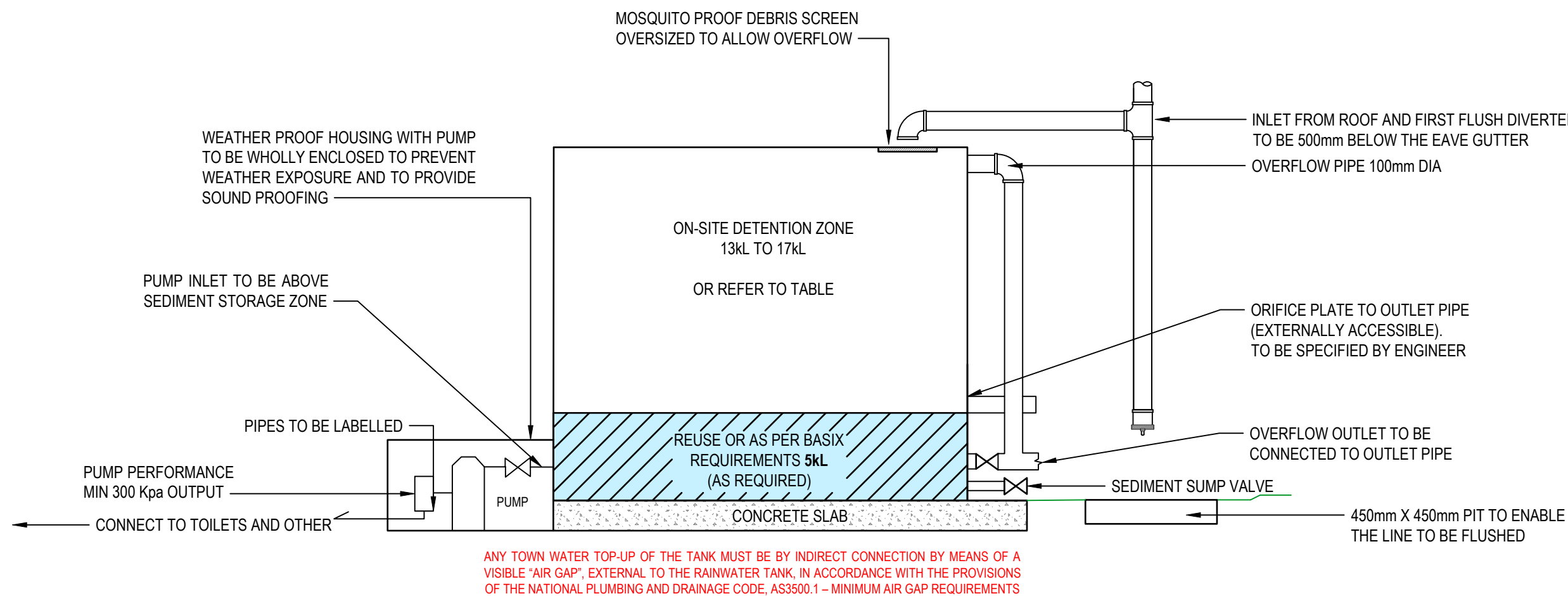
POST DEVELOPMENT DRAINS MODEL



PRE DEVELOPMENT DRAINS MODEL

DRAINS MODELLING NOTES:

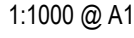
- RAINFALL DATA FROM GOULBURN, NSW ARR2019 PROTOCOLS FROM THE NEAREST GRID CELL LONGITUDE 149.6875 (E) AND LATITUDE 34.7625 (S)
- COUNCIL REQUIREMENTS TO MATCH PRE & POST DEVELOPMENT FLOWS FOR 50%, 20%, 10%, 5%, 2% AND 1% AEP STORM EVENTS

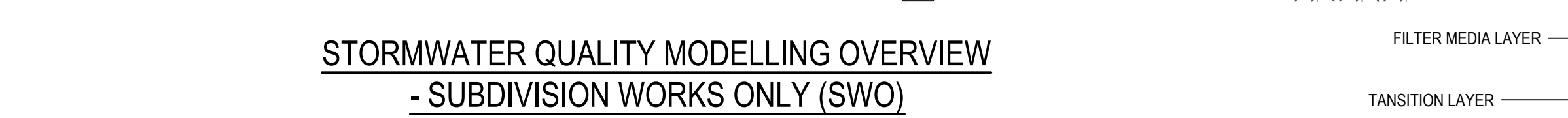
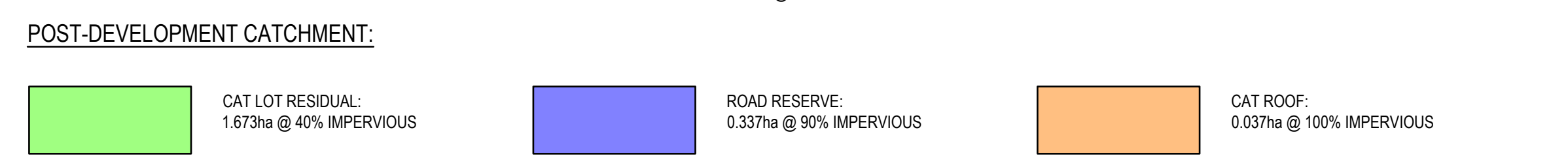


TYPICAL RAINWATER / OSD AT-SOURCE TANK

NTS

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	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25			RELEASE DATE: 25 AUGUST 2025				
	DRAWN	JN						CLIENT: KIMBLA PASTORAL COMPANY PTY LTD		JOB-DRAWING NUMBER		REV
	CHECKED	TP						DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN		25022-SQ-2055		0
	APPROVED	JW						DRAWING: STORMWATER QUANTITY MODELLING PLAN				



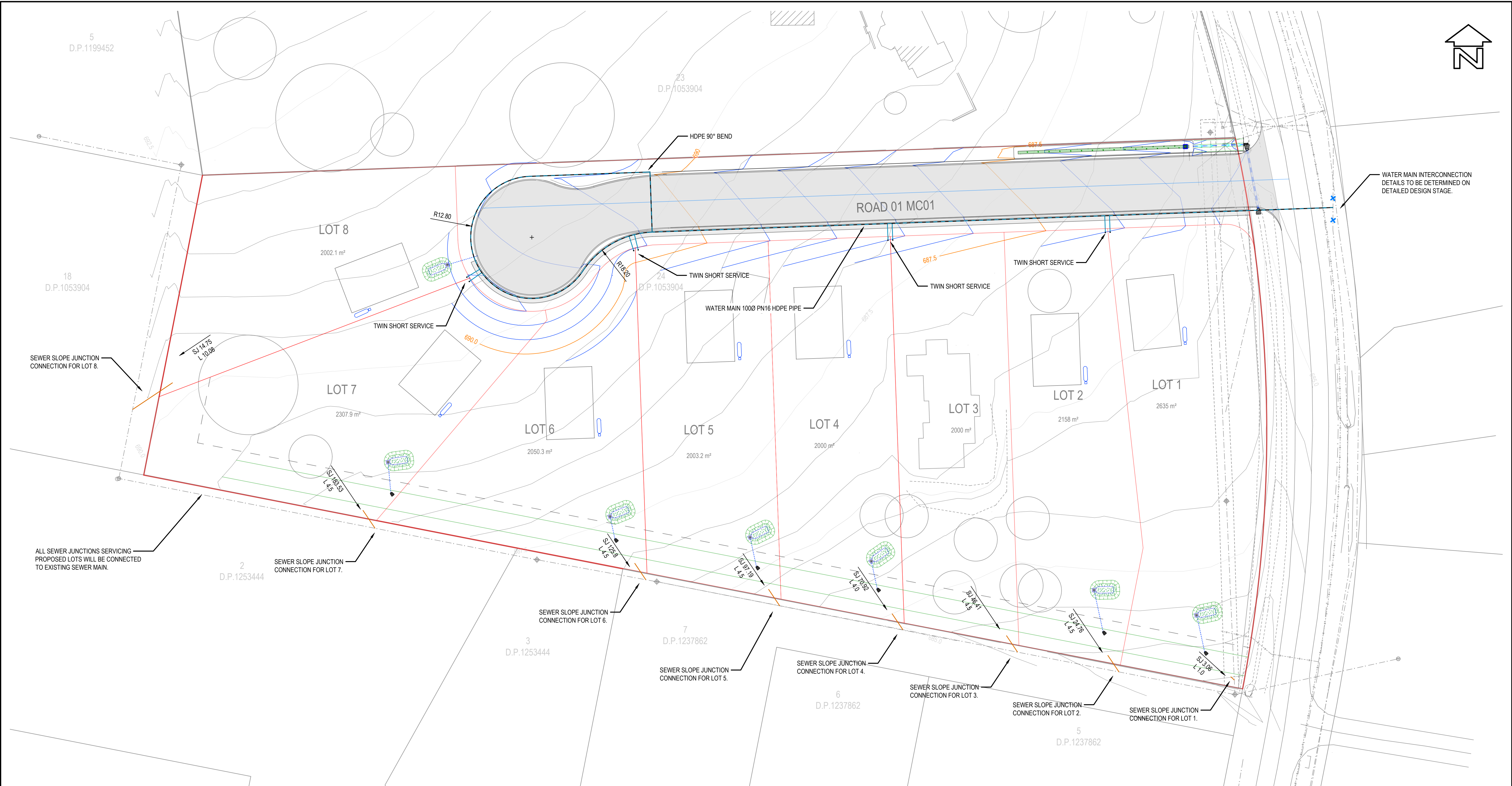


STORMWATER QUALITY MODELLING CATCHMENTS - SWO

STORMWATER QUALITY MODELLING RESULTS - SUBDIVISION WORKS ONLY (SWO)



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	DESIGN	AD	0	SUBMISSION FOR DA APPROVAL	25 AUG 25				RELEASE DATE: 25 AUGUST 2025			
	DRAWN	JN							JOB-DRAWING NUMBER			REV
	CHECKED	TP							DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN			
	APPROVED	JW							DRAWING: STORMWATER QUALITY MODELLING PLAN 2 OF 2			
								25022-SQ-2057		0		



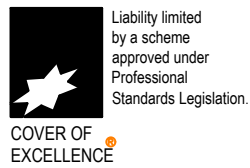
SEWER AND WATER NETWORK LAYOUT PLAN

1:1000 @ A1

SHEET LEGEND

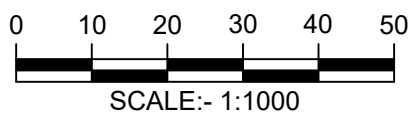
EXISTING SEWER MAIN	
PROPOSED SEWER MAIN	
PROPOSED SEWER STUB	
EXISTING WATER MAIN	
PROPOSED WATER MAIN	
PROPOSED HYDRANT POINT	
PROPOSED STOP VALVE	

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NOTE:

EXISTING SEWER MAIN TO BE PHYSICALLY LOCATED PRIOR TO SWC AND JUNCTION DEPTHS TO BE PROVIDED AT DETAILED DESIGN.



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	DRAWN	JN							CLIENT: KIMBLA PASTORAL COMPANY PTY LTD	
	CHECKED	TP							DESCRIPTION: CIVIL ENGINEERING CONCEPT DESIGN	
	APPROVED	JW							DRAWING: SEWER AND WATER NETWORK LAYOUT PLAN	
									JOB-DRAWING NUMBER	
									25022-SE-3100	
									REV	
									0	