

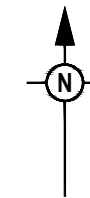
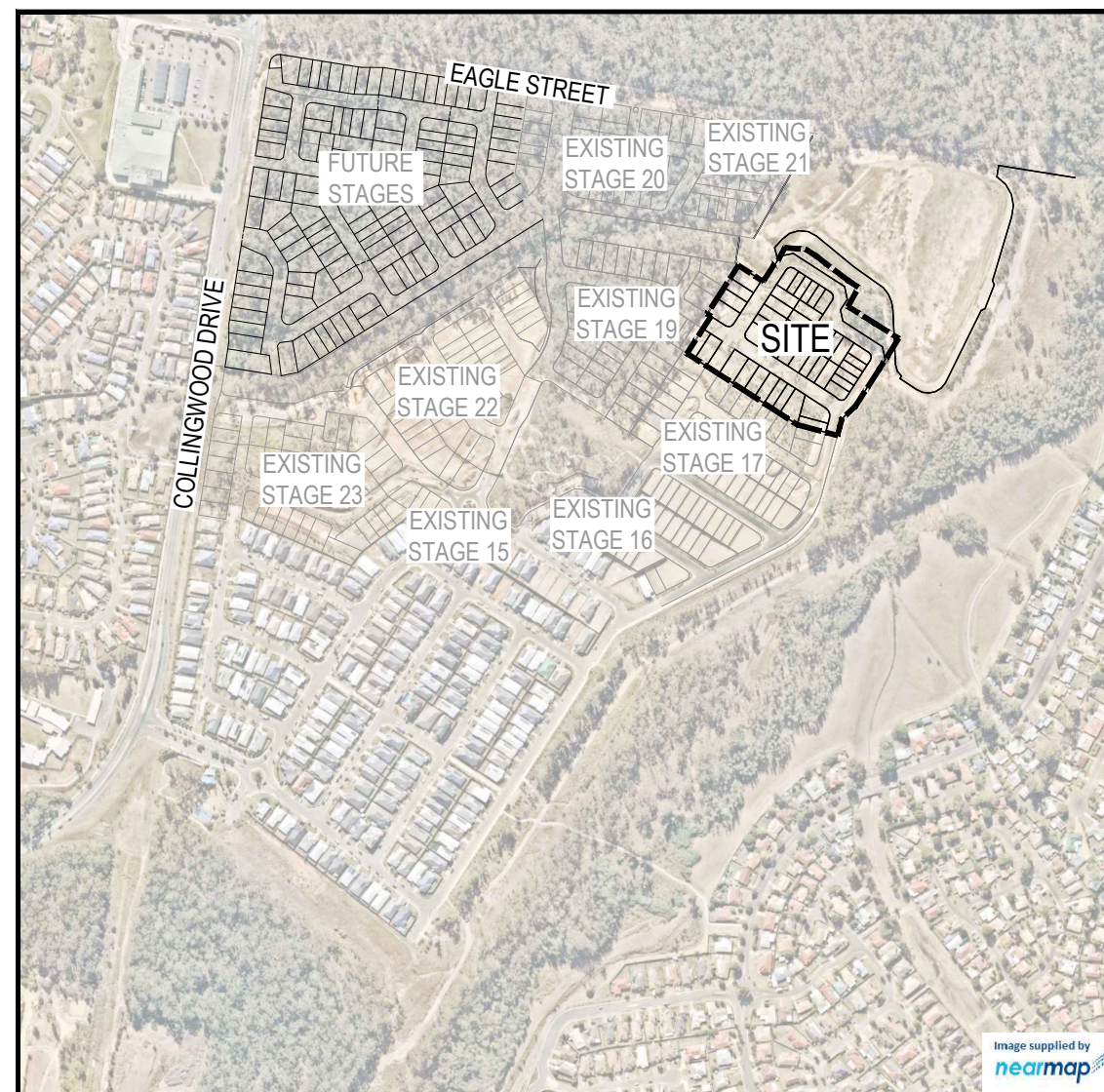
WOODLINKS VILLAGE - STAGE 18

COLLINGWOOD DRIVE, COLLINGWOOD PARK

EARTHWORKS, ROADWORKS AND DRAINAGE

22-0175-100	COVER PLAN
22-0175-101	GENERAL NOTES
22-0175-102	BULK EARTHWORKS LAYOUT PLAN
22-0175-103	BULK EARTHWORKS TYPICAL SECTIONS
22-0175-105	ROADWORKS AND DRAINAGE LAYOUT PLAN
22-0175-106	SURVEY SETOUT AND KERB TYPES LAYOUT PLAN
22-0175-107	ROAD 01 LONGITUDINAL SECTION
22-0175-108	ROAD 01 CROSS SECTIONS SHEET 1 OF 2
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22-0175-110	ELDER PARADE LONGITUDINAL SECTION
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22-0175-112	LANE 01 AND FOREBAY DRIVEWAY LONGITUDINAL SECTION AND CROSS SECTIONS
22-0175-113	INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2
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22-0175-117	SIGNS AND LINEMARKING LAYOUT PLAN
22-0175-118	STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN
22-0175-119	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
22-0175-120	STORMWATER DRAINAGE LONGITUDINAL SECTIONS AND STRUCTURE DETAILS
22-0175-121	STORMWATER DRAINAGE CALCULATIONS TABLE
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22-0175-300	SEWERAGE AND WATER RETICULATION COVER PLAN
22-0175-301	SEWERAGE AND WATER RETICULATION GENERAL NOTES
22-0175-302	SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS
22-0175-303	SEWERAGE LAYOUT PLAN
22-0175-304	SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 2
22-0175-305	SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 2
22-0175-306	WATER RETICULATION LAYOUT PLAN
22-0175-307	FIRE HYDRANT REACH LAYOUT PLAN



PROJECT INFORMATION SUMMARY:
No. OF LOTS = 44
AREA OF SITE = 3.502ha
RP DESCRIPTION
LOT 5007 ON SP317659
DATUM LEVEL AND LOCATION
P.M. 110122
RL 40.320 AHD
LOCAL AUTHORITY: IPSWICH CITY COUNCIL
COUNCIL REFERENCE NUMBER: 4280/15/MAMC/B

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:

- VEGETATION MANAGEMENT PLAN
- LANDSCAPE ARCHITECT'S PLANS
- ELECTRICAL, COMMUNICATIONS AND GAS CONSULTANT'S PLANS
- SEDIMENT AND EROSION HAZARD ASSESSMENT
- SAFETY IN DESIGN REPORT
- STORMWATER MANAGEMENT PLAN REPORTS
- FLOOD ASSESSMENT REPORT - WOODLINKS ESTATE - STAGE 9 AND NORTHERN FLOW PATH

LOCALITY PLAN
SCALE 1:4000 (A1)
SCALE 1:8000 (A3)

AS-CONSTRUCTED CERTIFICATION

Signature:  Date: 04/04/25

DANIEL COLLINS RPEQ No. 18631

For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
2	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED		AS SHOWN	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	WOODLINKS	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No.	DRAWING No.
3	04.04.25	CL	BP	AS CONSTRUCTED										ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744
				</										

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
2. THE EXISTING SERVICES THAT ARE SHOWN ON THE DRAWINGS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR INFORMATION THAT HAS BEEN SUPPLIED BY OTHERS, OR ANY EXISTING SERVICES THAT MAY BE PRESENT NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
3. ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
5. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
7. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS.
8. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
9. HOLD POINT: ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
10. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE MOVEMENT OF TRAFFIC AND THE PROTECTION OF PERSON AND PROPERTY THROUGH AND AROUND THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING THE DESIGN, CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ROADWAYS, DETOURS, SIGNS, LIGHTS AND BARRIER AS REQUIRED STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS.

BULK EARTHWORKS NOTES

1. NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
2. THE CONTRACTOR SHALL UNDERTAKE ALL CLEARING USING INDUSTRY BEST PRACTICE INCLUDING CONSIDERATION OF FAUNA RELOCATION.
3. THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
4. THE CONTRACTOR SHALL CONSIDER LOADS GENERATED BY THE EARTHWORKS OPERATIONS SO AS TO AVOID DAMAGE TO ALL PIPES, SERVICES AND STRUCTURES.
5. THE EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT'S SEDIMENT AND EROSION CONTROL PLAN, WHERE APPLICABLE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANNING, DESIGN, CERTIFICATION, IMPLEMENTATION AND MAINTENANCE OF AN EROSION AND SEDIMENT CONTROL PLAN THAT IS COMPLIANT WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINE 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' AND RELEVANT COUNCIL POLICIES.
7. ALLOTMENT FINISHED SURFACE LEVELS, SHOWN ON THE LAYOUT PLAN, INDICATE THE FINISHED SURFACE LEVEL AFTER TOPSOIL PLACEMENT.

ROADWORKS AND DRAINAGE NOTES

1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
2. NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
3. NEW CONSTRUCTION SHALL BE NEATLY JOINED TO EXISTING FORMATION. WHERE REQUIRED, THE EXISTING FORMATION SHALL BE SAW CUT IN ACCORDANCE WITH IPWEAQ STD DRG RS-170. LEVELS AND GRADIENTS AT CONNECTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SMOOTH CONNECTION.
4. THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
5. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH THE SUBGRADE TEST RESULTS NECESSARY FOR ALL PAVEMENT DESIGN.
6. THE CONTRACTOR SHALL ENSURE A MINIMUM OF 75mm TOPSOIL TO ALL VERGE AND BATTER AREAS (AND STABILISATION AS ORDERED)
7. THE CONTRACTOR SHALL INSTALL ALL FOOTPATH AND PRAM RAMPS IN COMPLIANCE WITH THE AUTHORITY'S STANDARD DRAWINGS. PRAM RAMPS ARE TO BE LOCATED CLEAR OF DRAINAGE GULLY PITS AND FUTURE DRIVEWAY POSITIONS INDICATED ON THE LAYOUT PLANS.
8. THE CONTRACTOR SHALL INSTALL SUBSOIL DRAINS UNDER ALL KERBS AS REQUIRED BY THE LOCAL AUTHORITY'S STANDARDS.
9. THE CONTRACTOR SHALL ENSURE THAT ALL RETAINING WALL SUBSOIL DRAINS ARE TO CONNECT TO EITHER KERB ADAPTORS OR STORMWATER DRAINAGE STRUCTURES. CONTRACTOR TO DEMONSTRATE TO SUPERINTENDENT THAT SUITABLE CONNECTIONS HAVE BEEN PROVIDED FOR ALL WALLS.
10. ALL STORMWATER DRAINAGE MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITIES STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
11. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS THE SUITABILITY OF MACHINERY USED ON SITE AND THE ANTICIPATED CONSTRUCTION LOADS, AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS3725-2007.
12. THE TERM D₅₀ DOCUMENTED ON THE DRAWINGS, IN RELATION TO ROCK ARMORING, CORRESPONDS TO THE REQUIRED MEDIAN DIAMETER OF THE PLACED ROCKS. THE ROCKS USED SHALL NOT VARY IN SIZE BY +/- 30% OF THE PROPOSED D₅₀ SIZE.

ROOFWATER NOTES

1. THE GEOMETRIC CENTRE SHALL BE TAKEN AS THE SETOUT POINT FOR ALL STRUCTURES, UNLESS DETAILED OTHERWISE.
2. ROOFWATER ALIGNMENT, COVER, MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
3. ALL PVC PIPES ARE TO BE MINIMUM CLASS SN8.
4. END CAPS SHALL BE INSTALLED ON ENDS OF ALL PIPES AND STUBS.
5. WHERE ROOFWATER PIPES ARE ALIGNED BEHIND PROPOSED RETAINING WALLS, THE CONTRACTOR IS TO REFER TO THE SPECIFIC PROJECT DESIGN DETAILS AND CONFIRM CLEARANCES WITH THE SUPERINTENDENT PRIOR TO LAYING OF THE PIPES.
6. PROPERTY CONNECTIONS SHALL BE 100Ø UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL EXTEND CONNECTIONS A MINIMUM OF 1.0m BEYOND ADJACENT SEWER LINES, WHERE APPLICABLE.
7. IN INSTANCES WHERE REAR ALLOTMENT DRAINAGE IS NOT PROVIDED, THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:

- TWO ROOFWATER KERB ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE IN ACCORDANCE WITH COUNCIL'S STANDARDS.

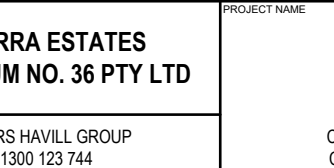
- ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

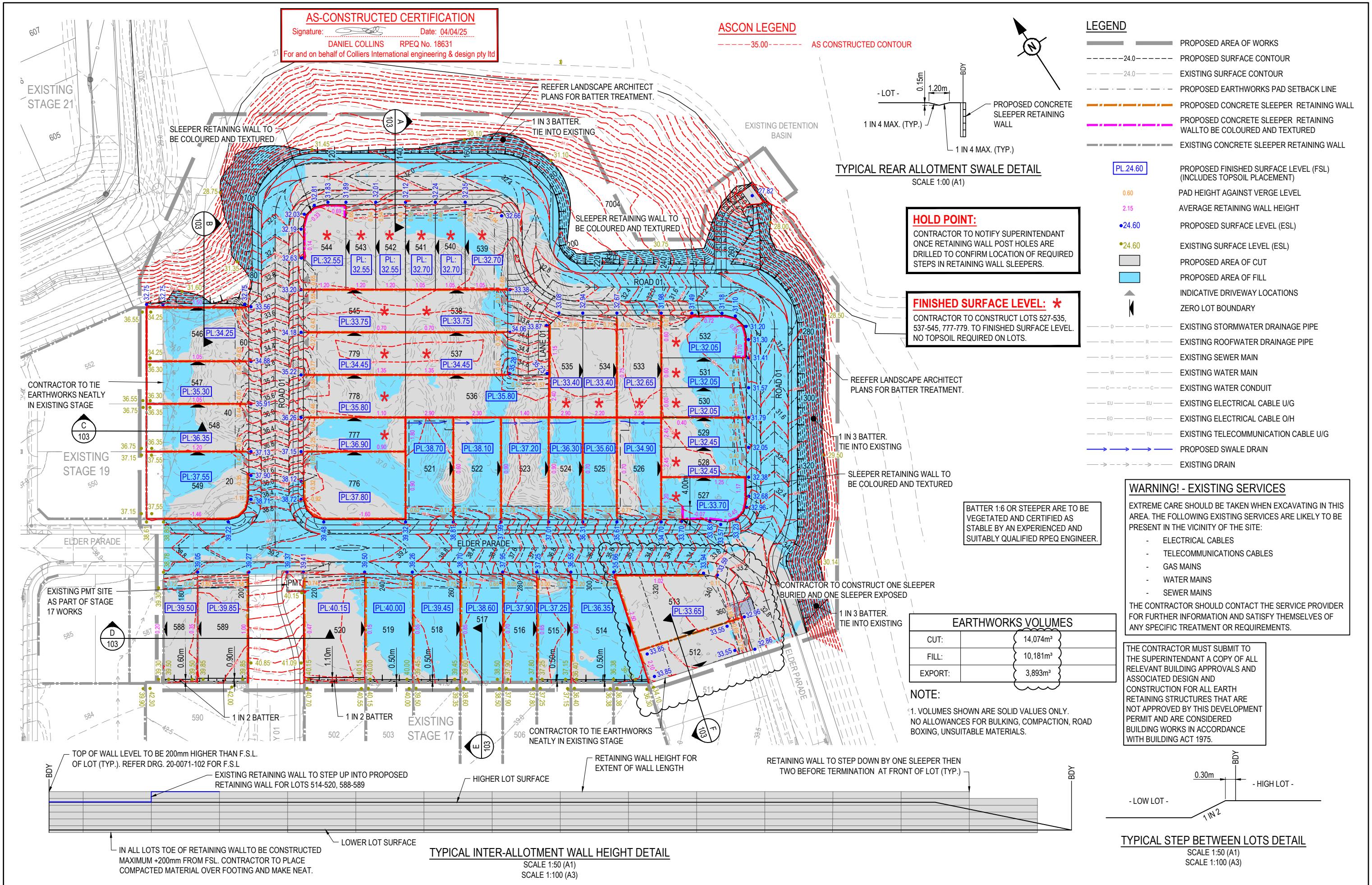
AS-CONSTRUCTED CERTIFICATION

Signature: _____ Date: 04/04/25

DANIEL COLLINS RPEQ No. 18631

For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	PROJECT NAME WOODLINKS	DRAWING TITLE						
2	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED					GENERAL NOTES						
3	04.04.25	CL	BP	AS CONSTRUCTED														
						DESIGN	APPROVED					COLLINGWOOD DRIVE COLLINGWOOD PARK						
							DATE 4.04.25											
										ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		DRAWING No. 22-0175	101	REVISION 3				



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
3	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION		
4	28.06.24	CL	BP	LOT 520, 519 AMENDED, ROAD 01 and ELDER PARADE AMENDED.		
5	17.09.24	CL	AK	WALL ADDED BETWEEN LOTS 512 AND 513, WALL REMOVED ON LOT BETWEEN LOTS 511 AND 512		
6	04.04.25	CL	BP	AS CONSTRUCTED		

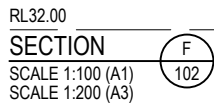
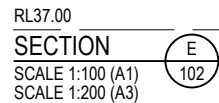
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		4.04.25

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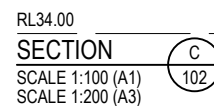
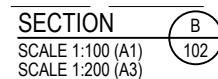
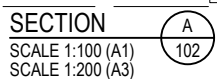
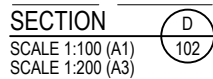
CLIENT	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD
ASSOCIATED CONSULTANT	SAUNDERS HAVILL GROUP PH: 1300 123 744

PROJECT NAME	WOODLINKS
	COLLINGWOOD DRIVE COLLINGWOOD PARK

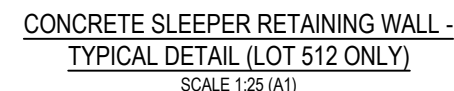
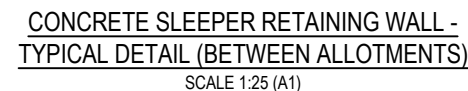
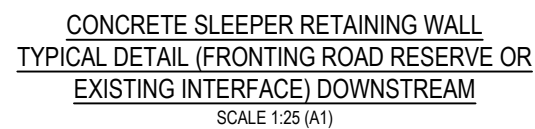
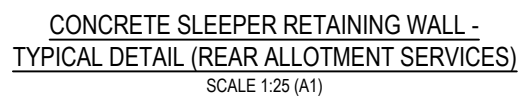
DRAWING TITLE	BULK EARTHWORKS LAYOUT PLAN
PROJECT No.	22-0175
DRAWING No.	102
REVISION	6



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DANIEL COLLINS RPEQ No. 18631
For and on behalf of Colliers International engineering & design pty Ltd

[illegible]

PAVEMENT DESIGN SUBJECT TO COUNCIL
APPROVAL FOLLOWING INSITU CBR TESTING.

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 01	ACCESS STREET	1.0 x 10 ⁵	3	35mm	125mm	100mm	160mm	420mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL
SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

AS CONSTRUCTED PAVEMENT DETAILS

ROAD	CHAINAGE	ESA	DESIGNED CBR	SURFACING	BASE COURSE CLASS 1	SUB BASE CLASS 2	TOTAL DEPTH
PYRITE CRESCENT	CH10.00 - CH20.00	1.0x10 ⁵ ACCESS STREET	10	35mm	125mm	100mm	260mm
PYRITE CRESCENT	CH20.00 - CH90.00	1.0x10 ⁵ ACCESS STREET	14	35mm	125mm	100mm	260mm
PYRITE CRESCENT	CH90.00 - CH160.00	1.0x10 ⁵ ACCESS STREET	10	35mm	125mm	100mm	260mm
PYRITE CRESCENT	CH160.00 - CH250.00	1.0x10 ⁵ ACCESS STREET	12	35mm	125mm	100mm	260mm
PYRITE CRESCENT	CH250.00 - CH330.00	1.0x10 ⁵ ACCESS STREET	11	35mm	125mm	100mm	260mm
PYRITE CRESCENT	CH330.00 - CH350.878	1.0x10 ⁵ ACCESS STREET	15	35mm	125mm	100mm	260mm

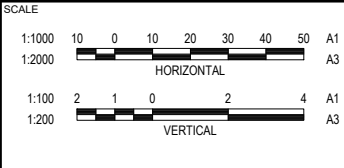
DATUM RL 14.0

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0.172			38.870	38.582	12.643	R11.800
0.091			38.642	38.466	14.000	
-0.012			38.255	38.164	17.643	
-0.018			37.985	37.996	19.845	
-0.379			37.966	37.964	20.000	
-1.941			37.026	37.516	27.345	
-1.915			36.026	37.026	34.845	
-1.600			35.900	36.328	40.000	
-2.454			34.352	36.012	60.000	
-1.538			34.240	35.952	80.000	
0.629			32.711	34.356	95.502	
0.627			32.706	32.818	97.200	
0.818			31.954	31.989	100.000	
-0.148			31.821	31.109	115.456	
-0.154			31.596	31.718	115.735	
-0.225			31.612	31.718	120.000	
-0.256			31.625	31.961	123.002	
-0.386			31.656	31.768	140.000	
0.240			31.881	32.378	160.000	
0.470			31.992	32.378	168.635	
0.734			32.145	32.016	180.000	
0.058			32.256	31.900	187.171	
-1.978			32.370	31.786	196.071	
-2.340			32.520	32.073	200.000	
-1.222			32.615	32.124	205.088	
-0.351			32.621	32.851	210.497	
0.063			32.715	34.109	214.606	
0.062			32.751	32.866	220.000	
0.816			32.765	32.714	220.088	
0.809			32.665	32.693	235.088	
0.812			32.775	31.333	240.000	
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1.002			31.741	30.079	258.197	
1.006			30.984	31.084	260.000	
1.095			30.978	30.049	261.006	
1.667			30.944	30.029	266.713	
1.679			30.857	29.901	273.894	
1.673			30.952	29.392	279.542	
1.326			31.050	29.478	280.000	
1.362			31.271	29.491	292.554	
1.259			31.047	30.057	300.000	
1.133			31.426	30.171	307.554	
1.338			31.621	30.469	320.000	
1.845			31.616	31.010	322.554	
0.468			32.031	32.142	330.905	
0.428			32.036	32.242	339.858	
0.270			32.135	32.575	340.000	
-0.327			32.463	32.933	340.661	
-0.026			32.469	32.511	345.661	
				32.938	350.878	

REFER INTERSECTION DETAILS PLAN FOR KERB RETURN LONGITUDINAL SECTIONS

ROAD 01

AS CONSTRUCTED



CLIENT

**CANBERRA ESTATES
CONSORTIUM NO. 36 PTY LTD**

ASSOCIATED CONSULTANT
SAUNDERS HAVILL GROUP
PH: 1300 123 744

PROJECT NAME

WOODLINKS

COLLINGWOOD DRIVE
COLLINGWOOD PARK

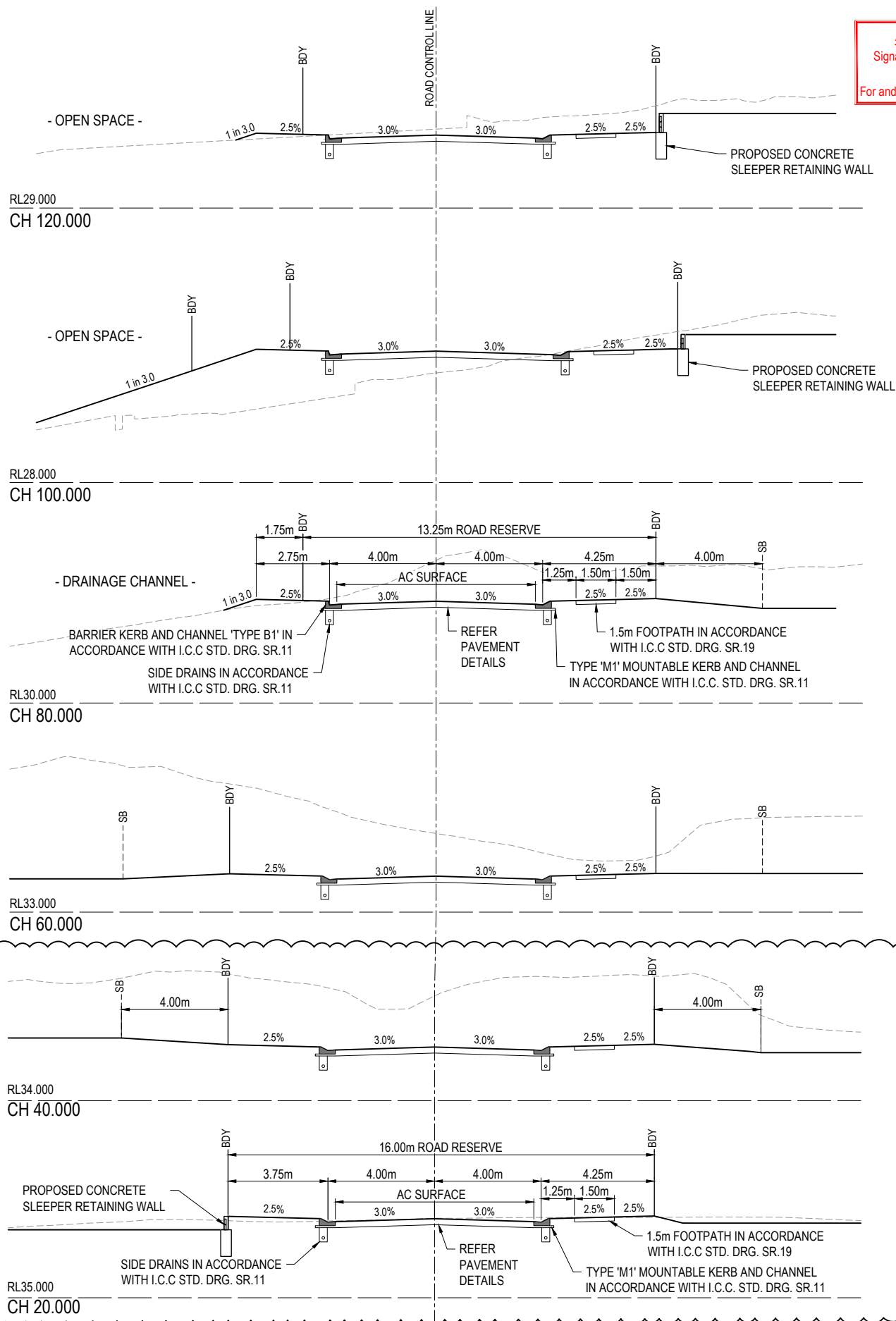
DRAWING TITLE

**ROAD 01 LONGITUDINAL
SECTION**

PROJECT No. **22-0175**

DRAWING No. **107**

REVISION **5**

[illegible]

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

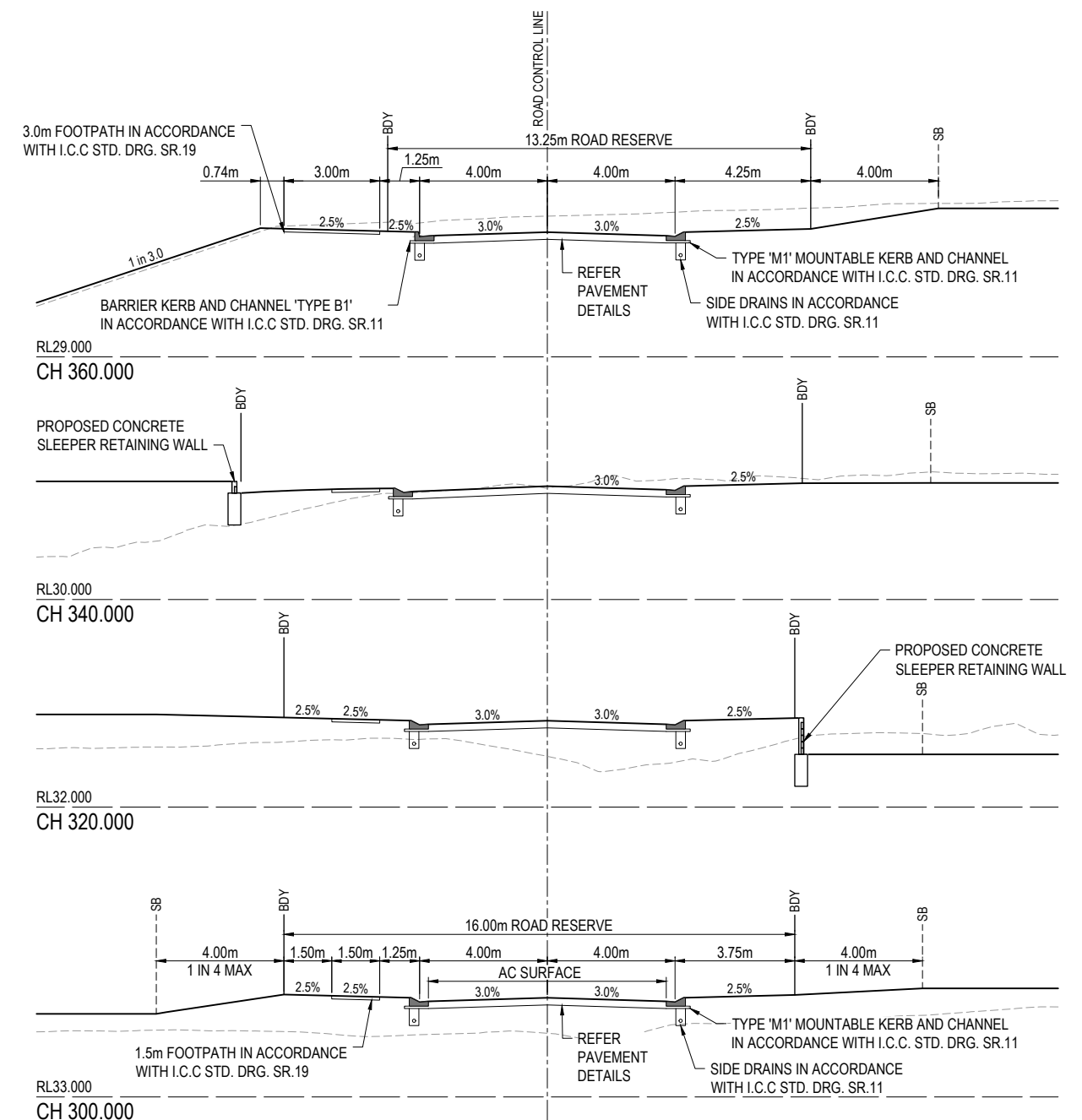
~~NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN.~~

ROAD	CHAINAGE	ESA	DESIGNED CBR	SURFACING	BASE COURSE CLASS 1	SUB BASE CLASS 2	TOTAL DEPTH
ELDER PARADE	CH175.744 - CH260.00	1.0x10 ⁵ ACCESS STREET	11	35mm	125mm	100mm	260mm
ELDER PARADE	CH260.00 - CH320.00	1.0x10 ⁵ ACCESS STREET	13	35mm	125mm	100mm	260mm
ELDER PARADE	CH320.00 - CH372.573	1.0x10 ⁵ ACCESS STREET	15	35mm	125mm	100mm	260mm

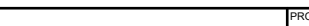


REFER INTERSECTION DETAILS PLAN FOR KERB RETURN LONGITUDINAL SECTIONS ELDER PARADE

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME WOODLINKS COLLINGWOOD DRIVE COLLINGWOOD PARK	DRAWING TITLE ELDER PARADE LONGITUDINAL SECTION		
2	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED	DATE 4.04.25		1:1000		A1		CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD		
4	28.06.24	CL	BP	ROAD 01 UPDATED (CH160.00 - 250.00)						1:2000		A3				
5	04.04.25	CL	BP	AS CONSTRUCTED						1:100		A1				
										1:200		A3				
						DESIGN	APPROVED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		PROJECT No. 22-0175	DRAWING No. 110	REVISION 5



Signature:  Date: 04/04/25
DANIEL COLLINS RPEQ No. 18631
For and on behalf of Colliers International engineering & design pty Ltd

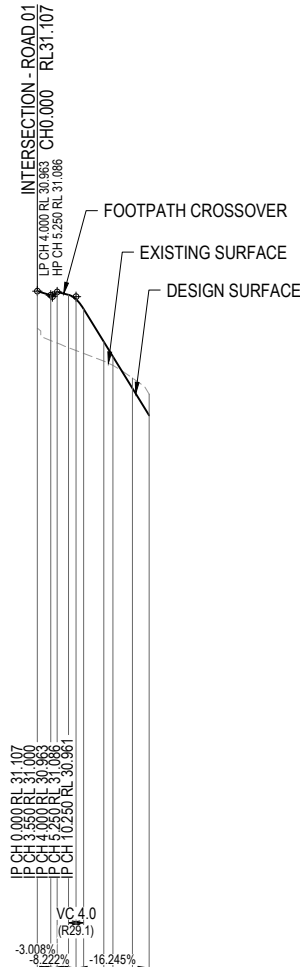
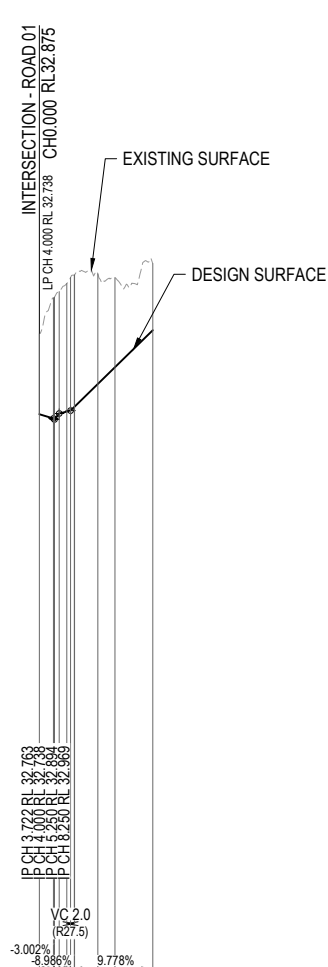
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:100 1 0 1 2 3 4 5 A1 1:200  A3	CLIENT CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	PROJECT NAME WOODLINKS COLLINGWOOD DRIVE COLLINGWOOD PARK	DRAWING TITLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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DRIVEWAY CONCRETE NOTES:

- DRIVEWAY CONCRETE TO BE 175mm THICK (N32), SL72 MESH WITH 50 TOP COVER, ON 150mm THICK BASE COURSE TYPE 2.3 (CBR45) FINISHED TO LANDSCAPE ARCHITECT PLANS

AS-CONSTRUCTED CERTIFICATION

Signature:  Date: 04/04/25
DANIEL COLLINS RPEQ No. 18631
For and on behalf of Colliers International engineering & design pty ltd



DATUM RL 17.0	
CUT (-) / FILL	-2.126 -3.189 -3.233 -3.225 -3.387 -3.487 -3.484 -2.911 -2.371 -1.758
LHS LIP LEVEL	#
RHS LIP LEVEL	#
DESIGN SURFACE	32.875 32.763 32.738 32.894 32.944 32.987 33.034 33.113 33.121 33.134 33.766 34.208 35.098
EXISTING SURFACE	35.001 35.952 35.971 36.120 36.331 36.491 36.554 36.558 36.587 36.489 36.856
CHAINAGES	0.000 3.722 4.000 5.250 7.250 8.250 9.315 15.476 20.000 30.022
HORIZONTAL CURVES	R-10.000

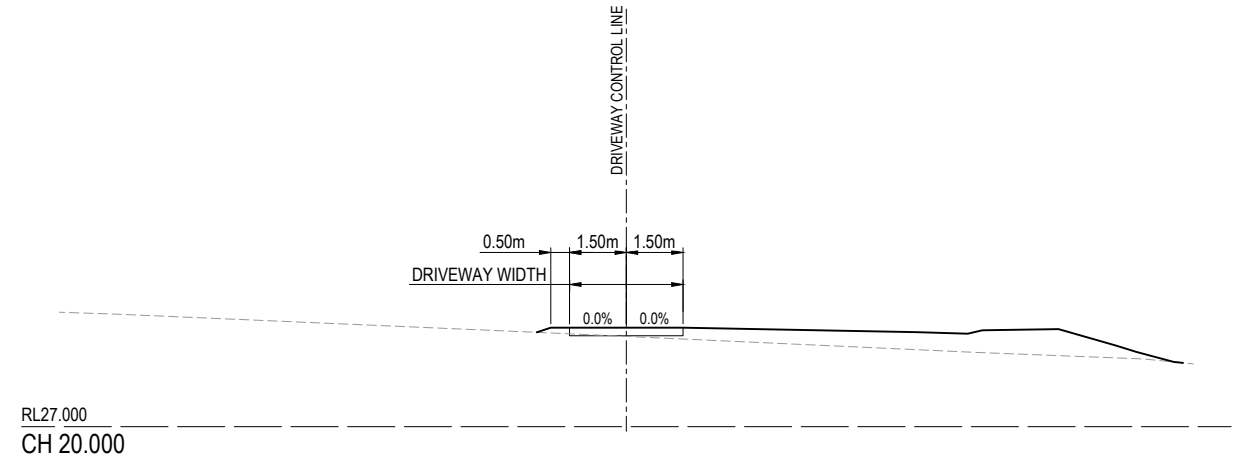
DRIVEWAY CROSSOVER IN ACCORDANCE WITH IPWEAQ STD. DRG. RS-051

LANE 01

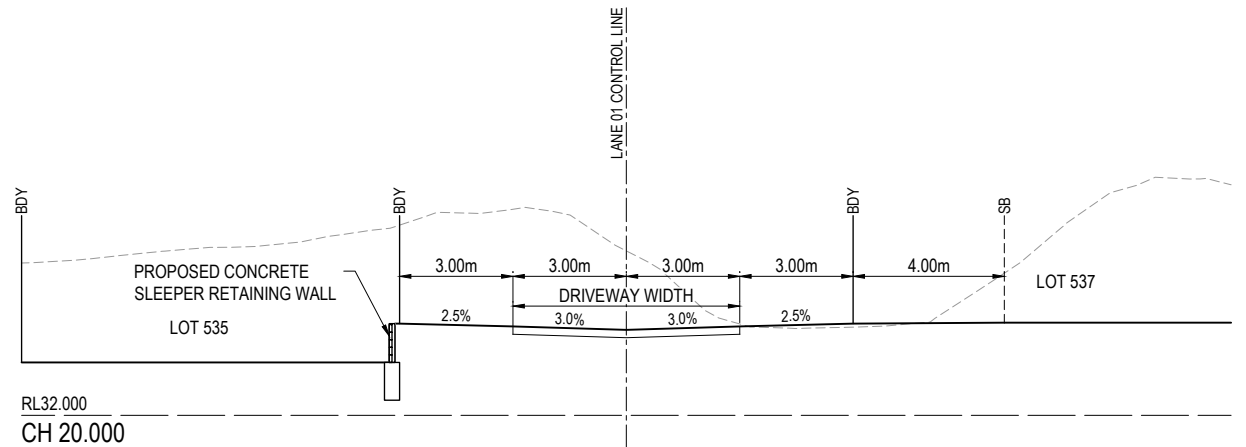
DATUM RL 12.0	
CUT (-) / FILL	0.993 1.199 1.181 1.352 1.398 1.355 1.174 0.512 0.232 -0.272 -0.563
LHS LIP LEVEL	#
RHS LIP LEVEL	#
DESIGN SURFACE	31.107 31.000 30.963 31.086 31.011 30.884 30.636 30.636 29.769 29.377 28.538 27.820
EXISTING SURFACE	30.124 29.801 29.782 29.734 29.613 29.537 29.462 29.258 29.145 28.810 28.383
CHAINAGES	0.000 3.550 4.000 5.250 8.250 10.250 12.250 17.587 20.000 25.165 29.586
HORIZONTAL CURVES	R8.000

DRIVEWAY CROSSOVER IN ACCORDANCE WITH IPWEAQ STD. DRG. RS-051

FOREBAY DRIVEWAY

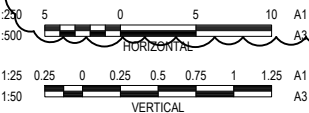


FOREBAY DRIVEWAY

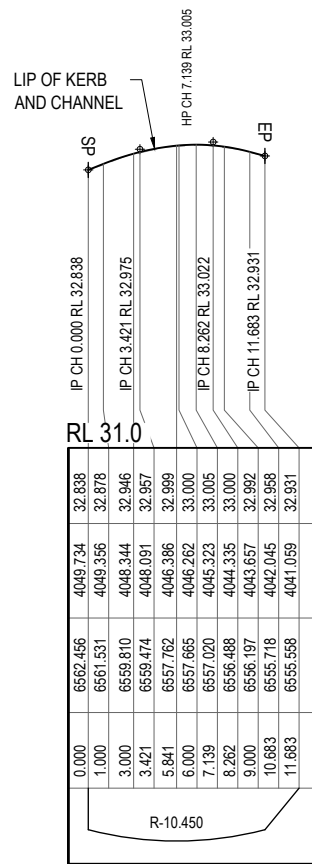
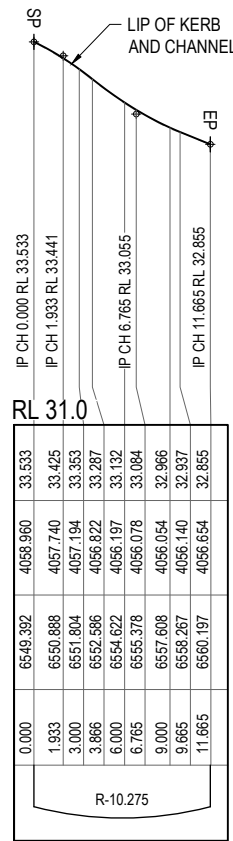
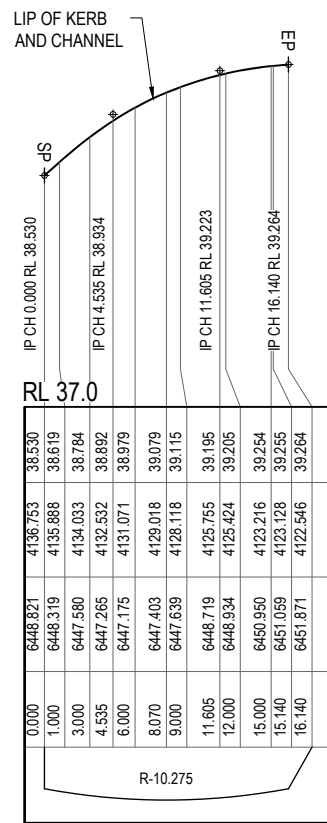


LANE 01

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
2	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION			1:100 1:200 1:1000 1:2000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	WOODLINKS	LANE 01 AND FOREBAY DRIVEWAY LONGITUDINAL SECTION AND CROSS SECTIONS
3	04.04.25	CL	BP	AS CONSTRUCTED		AS CONSTRUCTED	1:100 1:200 1:1000 1:2000	ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 22-0175
					DESIGN	APPROVED				DRAWING No. 112
						DATE 4.04.25				REVISION 3

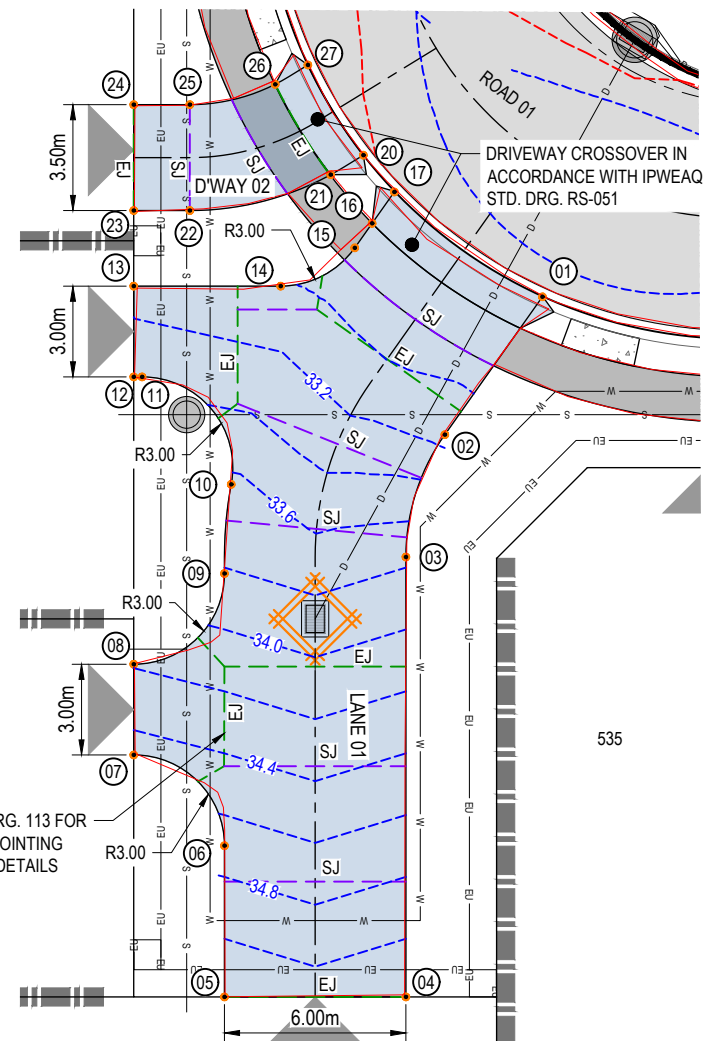
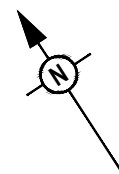


LIP LEVEL		39.002
NORTHING	4137.748	39.029
EASTING	6428.357	39.049
CHAINAGES	0.000	39.048
HORIZONTAL CURVES	R-10.275	



DRIVEWAY 02 - SETOUT		
POINT	EASTING	NORTHING
20	6544.447	4151.833
21	6543.189	4151.875
22	6538.634	4153.409
23	6537.076	4154.416
24	6538.977	4157.355
25	6540.534	4156.348
26	6543.271	4155.382
27	6544.525	4155.332

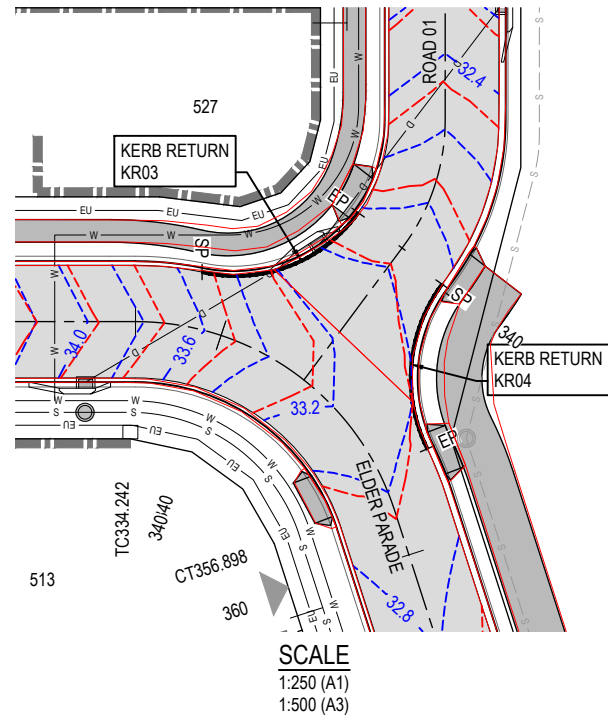
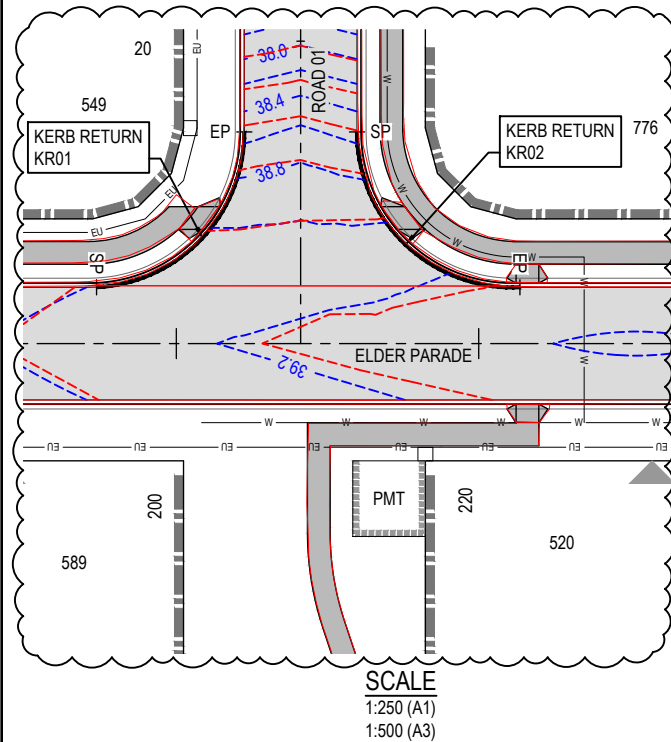
LANE 01 SETOUT		
POINT	EASTING	NORTHING
01	6546.876	4144.684
02	6541.692	4142.608
03	6538.415	4139.910
04	6530.518	4127.695
05	6525.479	4130.953
06	6528.194	4135.152
07	6527.304	4139.300
08	6528.932	4141.819
09	6533.080	4142.710
10	6534.868	4145.062
11	6534.321	4149.648
12	6534.090	4149.797
13	6535.719	4152.316
14	6539.800	4149.678
15	6542.544	4149.412
16	6543.466	4149.781
17	6544.646	4150.254



REFER TO DRG. 113 FOR
CONCRETE JOINTING
NOTES AND DETAILS

SCALE
1:125 (A1)
1:250 (A3)

KERB TYPES NOTE:
REFER TO THE SURVEY SETOUT ENGINEERING DRAWING
FOR KERB TYPES AND TRANSITION LOCATIONS



	PROPOSED ROAD PAVEMENT
	PROPOSED KERB INVERT LINE
	PROPOSED EDGE OF BITUMEN
	PROPOSED KERB SETOUT NODE
	PROPOSED CONCRETE PATH AND PRAM RAMP
	PROPOSED NEW ROAD PAVEMENT
	PROPOSED CONCRETE DRIVEWAY
	INDICATIVE DRIVEWAY LOCATION
	PROPOSED PAVEMENT CONTOUR (0.2m INTERVAL)
	PROPOSED KERB SETOUT LINE
	PROPOSED KERB SETOUT START POINT
	PROPOSED KERB SETOUT END POINT
	PROPOSED SLEEPER RETAINING WALL
	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	PROPOSED WATER MAIN
	PROPOSED WATER CONDUIT
	PROPOSED EXPANSION/CONSTRUCTION JOINT
	PROPOSED SAWM CONTRACTION JOINT
	TRIMMER BARS - N12 BARS 2000 LONG 50 COVER TO CORNER

-----40.00----- AS CONSTRUCTED CONTOUR

1. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS3600.
2. PREPARATION OF SUB-BASE LEVEL WITH UTS SYSTEM.
3. CONCRETE STRENGTH N32 CONCRETE.
4. MAXIMUM DRYING SHRINKAGE STRAIN - 600 MICROSTRAIN AT 56 DAYS.
5. CONCRETE TO BE PLACED ON A LAYER OF FORTECON.
6. CONCRETE TO HAVE SOFT BRISTLE BROOMED FINISH.
7. CONCRETE TO BE CURED UNDER LAYER OF FORTECON/ BUILDERS PLASTIC TO REDUCE MOISTURE LOSS.
8. REINFORCING TO BE WETTED DOWN IMMEDIATELY PRIOR TO CONCRETE POUR AS REQUIRED DUE TO HIGH TEMPERATURE WEATHER CONDITIONS.

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

[illegible]



INITIAL CUT TO DEPTH 'T/4' (T/3 FOR STEEL FIBRE REINFORCED CONCRETE AS SOON AS POSSIBLE AND WITHIN 18 HOURS OF POURING CONCRETE. INSERT POLYURETHANE BACKING ROD TO PREVENT INGRESS OF DIRT UNTIL SEALANT APPLIED (MIN 28 DAYS LATER). ROD DIAMETER TO BE MIN. 1.25 x CUT WIDTH.

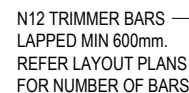
REMOVE ALL DIRT FROM SAW CUT, USING HIGH PRESSURED COMPRESSED AIR. REPLACE BACKING ROD WITH LARGER DIAMETER IF LOOSE. PUSH BACKING ROD INTO SAW CUT 1mm BELOW DEPTH 'D'. IF NECESSARY, REMOVE AND REPLACE BACKING ROD. WIDEN SAW CUT TO WIDTH 'W' AND DEPTH 'D' WITH ADDITIONAL SAW CUTS.

REMOVE ALL FOREIGN MATERIAL USING HIGH PRESSURE WATER WASH. DRY USING HIGH PRESSURE COMPRESSED AIR AND ALLOW ADDITIONAL 16 HRS TO DRY THOROUGHLY.

INSTALL POLYETHYLENE BOND BREAKER TAPE.

PRIME FACES OF CUT CONCRETE (REFER TABLE)

INSTALL SEALANT AS SPECIFIED (REFER TABLE) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

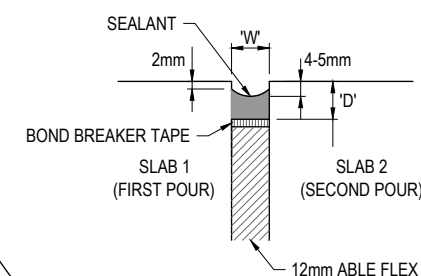


1:20 (A1)
1:40 (A3)



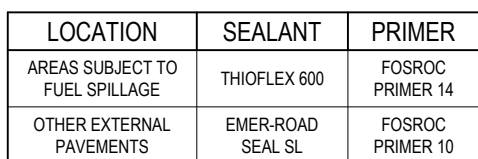
1:10 (A1)
1:20 (A3)

POINT	EASTING	NORTHING
30	6592.942	4122.763
31	6593.621	4123.813
32	6595.249	4126.332
33	6600.319	4134.173
34	6605.875	4137.157
35	6606.923	4136.207
36	6609.920	4136.356
37	6609.722	4140.351
38	6605.307	4140.132
39	6597.799	4135.802
40	6592.730	4127.961
41	6591.101	4125.442
42	6590.423	4124.392



1:1 (A1)
1:2 (A3)

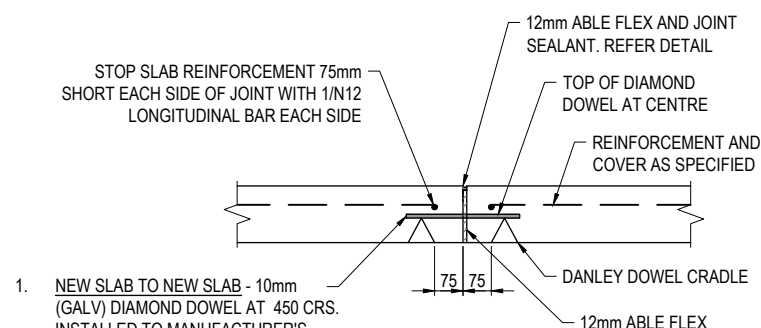
1. AFTER SLAB CURING PERIOD (MIN 28 DAYS), REMOVE TEARAWAY PORTION OF ABLE FLEX AND WASH OUT REBATE USING HIGH PRESSURE WATER. DRY USING HIGH PRESSURE COMPRESSED AIR AND ALLOW ADDITIONAL 16 HRS TO DRY THOROUGHLY.
2. INSTALL POLYETHYLENE BOND BREAKER TAPE FOR FULL WIDTH 'W'.
3. PRIME FACES OF SIDES OF REBATE (REFER TABLE).
4. INSTALL SEALANT AS SPECIFIED (REFER TABLE) IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



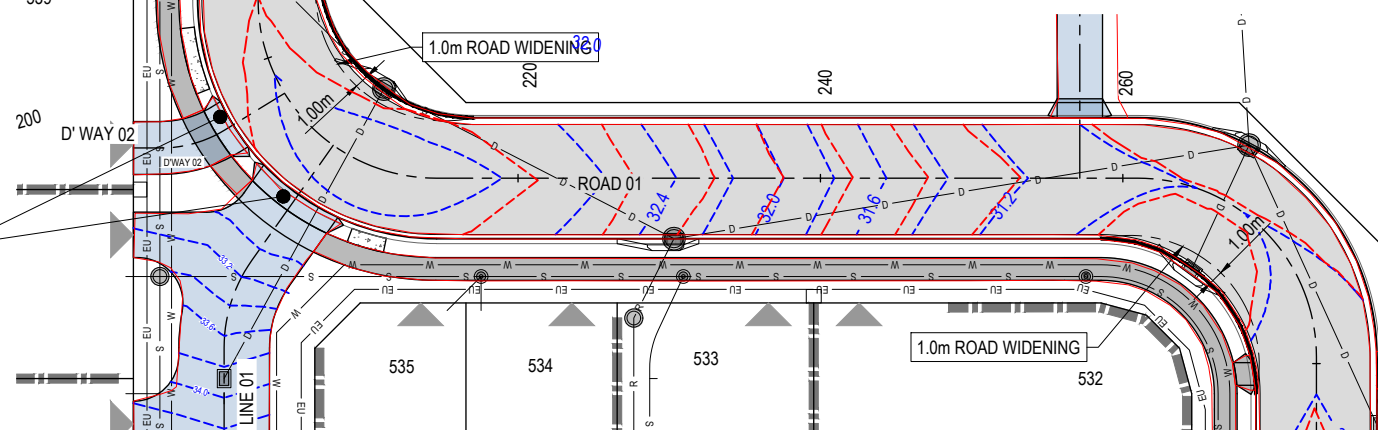
ALTERNATIVE SEALANTS MUST HAVE

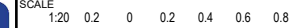
- MOVEMENT ACCOMMODATION FACTOR +/- 50%
- PRIMER TO MANUFACTURER'S SPECIFICATION
- INSTALLATION TO MANUFACTURER'S RECOMMENDATIONS
- PRIOR APPROVAL BY SUPERINTENDENT.

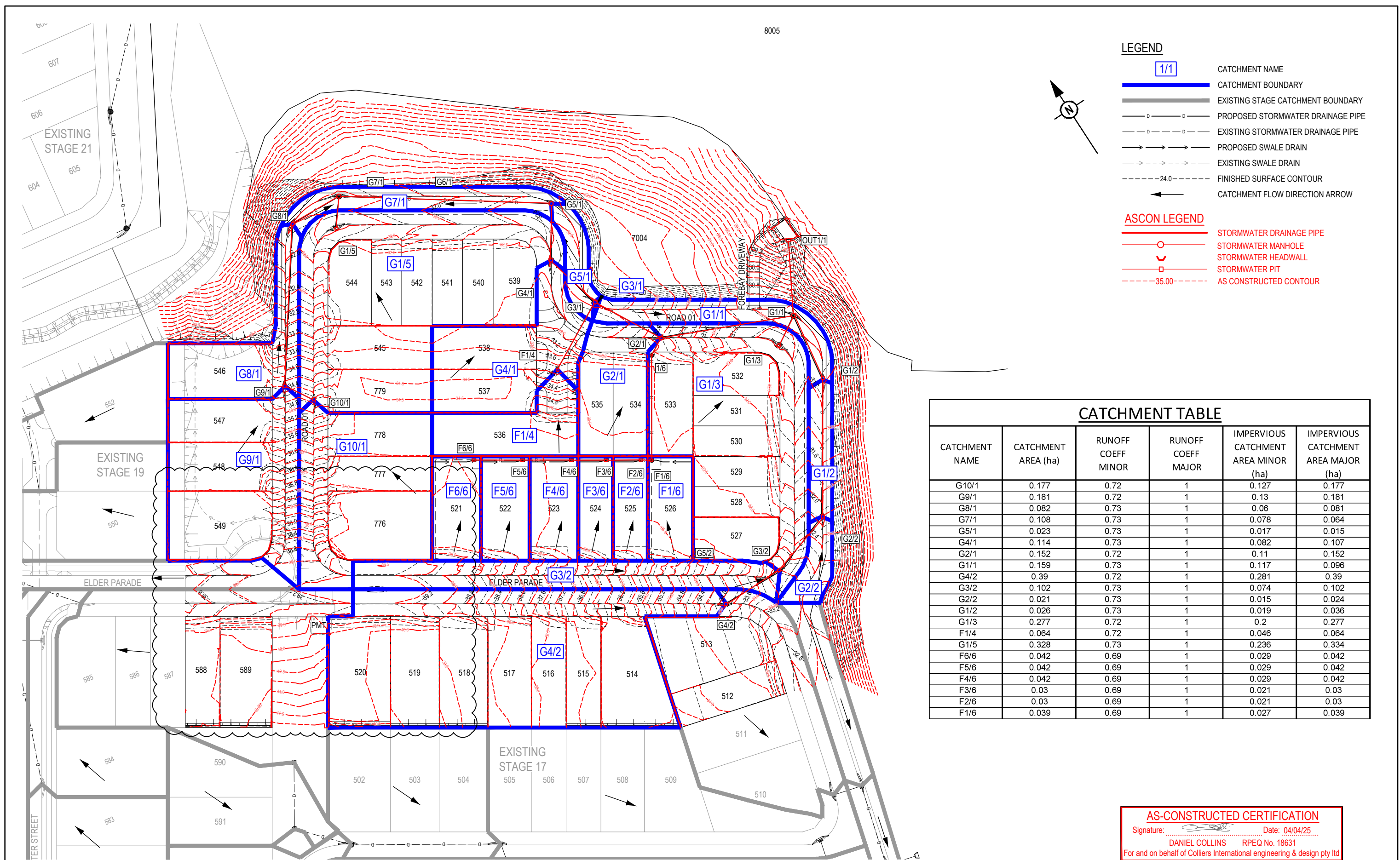
REFER TO THE SURVEY SETOUT ENGINEERING DRAWING
FOR KERB TYPES AND TRANSITION LOCATIONS



1:10 (A1)
1:20 (A3)



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE	CLIENT		PROJECT NAME		DRAWING TITLE									
2	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED	1:20		0.2	0	0.2	0.4	0.6	0.8	1	A1	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	WOODLINKS	INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2				
3	04.04.25	CL	BP	AS CONSTRUCTED				1:40									A3							
								1:125		2.5	0										2.5	5	A1	
						DESIGN	APPROVED	DATE		4.04.25	1:250										A3			
										1:250	5	0									5	10	A1	
										1:500								A3	ASSOCIATED CONSULTANT		COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No.	DRAWING No.	REVISION
																			SAUNDERS HAVILL GROUP PH: 1300 123 744			22-0175	114	3



**STORMWATER
STRUCTURE NOTE:**

STANDARD ROUND MANHOLES LESS THAN
3.0m DEEP:

CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.

STANDARD ROUND MANHOLES 3.0m > 5.3m
DEEP:

CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.

STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:

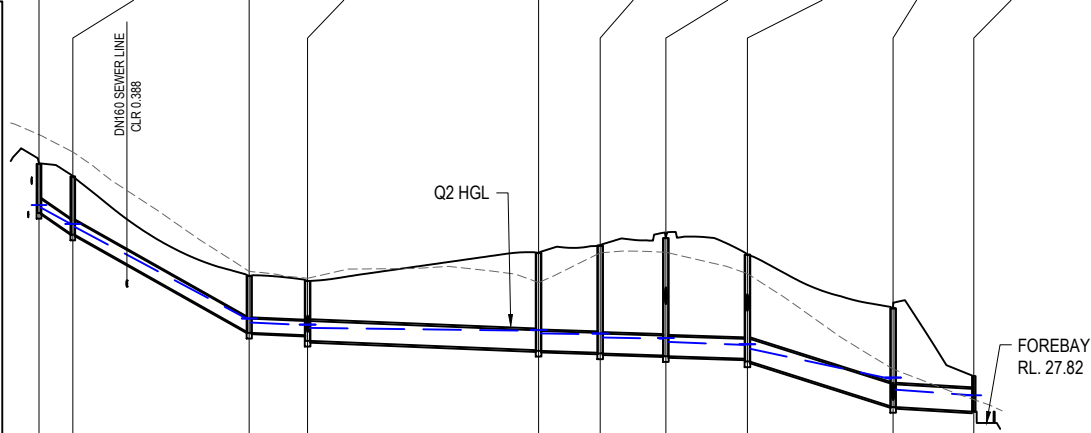
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

ROUND EXTENDED (900mm MAX) MANHOLES:

CONSTRUCT IN ACCORDANCE WITH
COLLIERS INTERNATIONAL STD DRAWINGS
S-101 & S-102.

RECTANGULAR STRUCTURE (SPECIAL):

SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.



PIPE SIZE (mm)		375	375	375	525	525	525	525	600	600
PIPE CLASS		3	3	3	3	3	3	3	3	3
PIPE GRADE (%)		5.80%	5.41%	0.45%	0.38%	0.25%	0.26%	0.25%	2.95%	0.61%
PIPE SLOPE (1 in X)		6.18% 16.17	5.52% 18.42	0.40% 240.22	0.40% 245.42	0.30% 332.68	0.30% 327.93	0.30% 332.04	3.67% 32.55	0.56% 177.94
FULL PIPE VELOCITY (m/s)		17.24	18.48	221.86	265.48	406.25	390.44	392.55	33.89	164.69
PART FULL VELOCITY (m/s)		0.36 2.47	0.73 2.90	0.89 1.14	0.80 1.33	0.81 1.19	0.92 1.23	0.98 1.23	0.97 3.18	1.53 1.85
DATUM RL		19.0								
H.G.L IN PIPE & W.S.E IN STRUCTURE		33.582 33.516 33.079 33.084 33.007	30.569 30.584 30.476	30.409 30.420 30.335	30.259 30.276 30.187	30.166 30.185 30.080	30.048 30.066 29.963	29.884 29.901 29.784	28.984 28.971 28.701	28.551 28.551 28.551
PIPE FLOW (Cumecs)		0.040	0.081	0.099	0.174	0.175	0.199	0.212	0.273	0.432
PIPE CAPACITY AT GRADE (Cumecs)		0.436	0.412	0.111	0.272	0.236	0.238	1.077	0.461	
DEPTH TO INVERT		1.99 1.28	1.51 1.50	1.48 1.55	1.48 1.48	2.61 2.54	2.64 2.64	2.73 2.73	2.57 2.52	0.93 0.93
INVERT LEVEL OF DRAIN		33.38 32.84 32.919 32.77	30.25 30.223 30.203 30.20	30.13 30.13 30.144 29.99	29.99 29.97	29.74 29.726 29.71 29.677	29.64 29.64 29.585 29.584	29.53 29.519 29.444 29.45	28.31 28.260 28.24 28.120	28.11 28.11 28.11 28.120
DESIGN SURFACE LEVEL		34.66 34.674	34.35 34.339	31.75 31.740	31.61 31.574	32.35 32.320	32.54 32.511	32.71 32.709	32.26 32.274	30.88 30.862
SETOUT COORDINATES		E 6471.043 N 4170.619	E 6466.497 N 4178.321	E 6493.597 N 4216.314	E 6509.036 N 4215.706	E 6559.209 N 4180.821	E 6550.360 N 4167.134	E 6554.053 N 4150.151	E 6564.795 N 4131.434	E 6600.102 N 4115.976
RUNNING CHAINAGE		0.000 8.944 8.944	46.56 46.667 55.612	15.53 15.451 71.063	61.06 61.106	132.171 162.298 148.469	17.57 17.388 165.849	21.59 21.580 187.429	38.63 38.542 223.971	21.41 21.349 247.321

LINE

1

The diagram illustrates the proposed and existing ground surfaces for a sewer line. A solid black line represents the 'PROPOSED SURFACE', while a dashed black line represents the 'EXISTING SURFACE'. A blue line indicates the 'DN160 SEWER LINE CLR 1,700'. The sewer line is shown as a series of segments with vertical manholes. The ground surface is shown as a series of connected line segments. The diagram shows that the proposed surface is higher than the existing surface in some areas, particularly around the manholes, to ensure proper drainage and clearance for the sewer line.

2

3

4

A diagram of a vertical double door. A horizontal bar is positioned across the middle of the door. A dashed line starts from the top left, goes down, then right, then up, and finally right again, ending at the top right. The bar is labeled with '1' on the left and '2' on the right.

5

REAR ALLOTMENT SWALE.
REFER DRG.102 FOR DETAILS.

6

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:10001001020304050A1 1:2000HORIZONTALA3 1:1002102A1 1:200VERTICALA3	CLIENT	PROJECT NAME	DRAWING TITLE		
2	17.05.24	CL	CL	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED			CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	WOODLINKS	STORMWATER DRAINAGE LONGITUDINAL SECTIONS		
3	04.04.25	CL	BP	AS CONSTRUCTED										
						DESIGN	APPROVED	DATE	4.04.25	ASSOCIATED CONSULTANT				
										SAUNDERS HAVILL GROUP PH: 1300 123 744				
										PROJECT NAME				
										COLLINGWOOD DRIVE COLLINGWOOD PARK				
										DRAWING TITLE				
										STORMWATER DRAINAGE LONGITUDINAL SECTIONS				
										PROJECT No.	DRAWING No.	REVISION		
										22-0175	119	3		

**STORMWATER
STRUCTURE NOTE:**

STANDARD ROUND MANHOLES LESS THAN
3.0m DEEP:

CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.

STANDARD ROUND MANHOLES 3.0m > 5.3m
DEEP:

CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.

STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:

SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

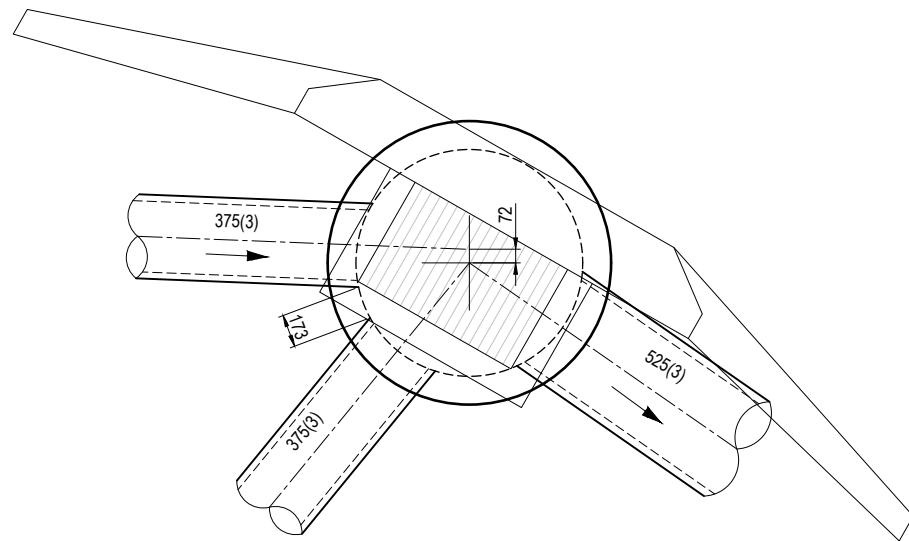
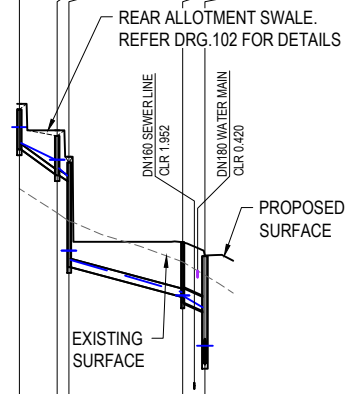
ROUND EXTENDED (900mm MAX) MANHOLES:

CONSTRUCT IN ACCORDANCE WITH
COLLIERS INTERNATIONAL STD DRAWINGS
S-101 & S-102.

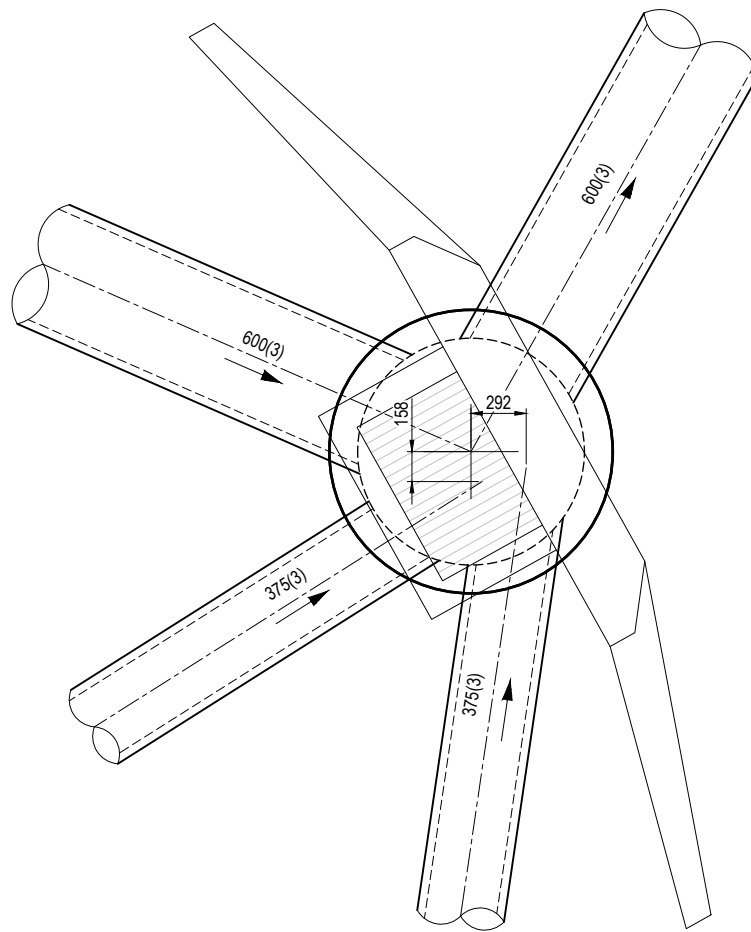
RECTANGULAR STRUCTURE (SPECIAL):

SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

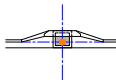
LINE 6



G7/1 - STANDARD 1200mm
MANHOLE UNDER GULLY
1:20 (A1)
1:40 (A3)



G1/1 - STANDARD 1200mm
MANHOLE UNDER GULLY
1:20 (A1)
1:40 (A3)

<u>STRUCTURE SETUP REFERENCE POINT</u>		
STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	 CL MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	 INTERSECTION OF CL PIT AND KERB INVERT LNE # (INCLUDING MANHOLES UNDER GULLIES)	KERB INVERT LEVEL
HEADWALL	 INTERSECTION OF HEADWALL FACE & PIPE CENTRE LINE	TOP OF HEADWALL

NOTE:
WITHIN GULLY PIT CHAMBER, CONTRACTOR TO ENSURE
STORMWATER PIPES ARE OFFSET AS REQUIRED SO
THAT PIPES ENTER WHOLLY WITHIN A SIDE WALL

AS-CONSTRUCTED CERTIFICATION

Signature:  Date: 04/04/25

DANIEL COLLINS RPEQ No. 18631

For and on behalf of Colliers International engineering & design pty ltd

[illegible]

AS-CONSTRUCTED CERTIFICATION

Signature:  Date: 04/04/25

DANIEL COLLINS RPEQ No. 18631

For and on behalf of Colliers International engineering & design pty ltd



AS-CONSTRUCTED CERTIFICATION

Signature: Date: 04/04/25

DANIEL COLLINS RPEQ No. 18631

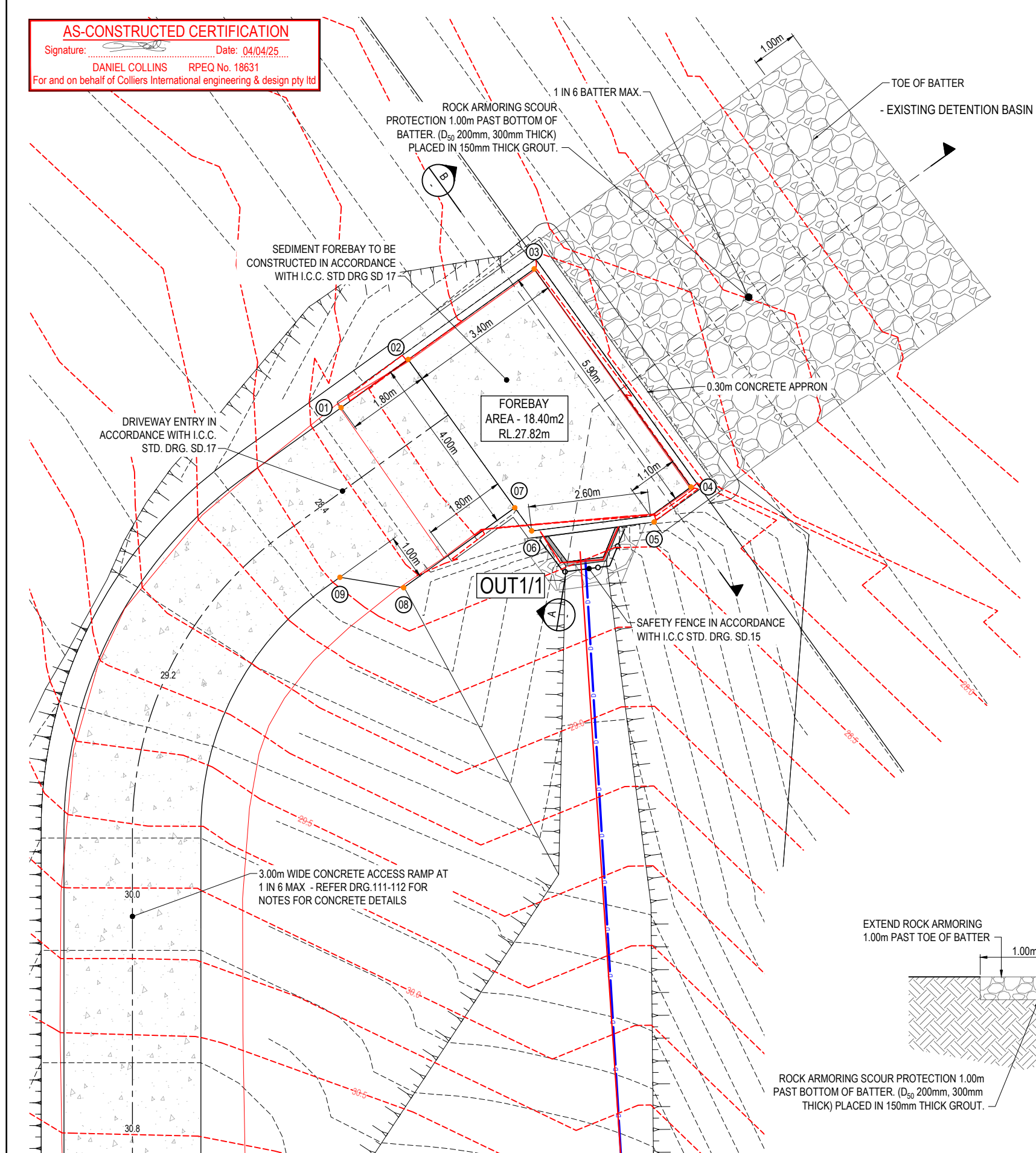
For and on behalf of Colliers International engineering & design pty ltd

AS-CONSTRUCTED CERTIFICATION

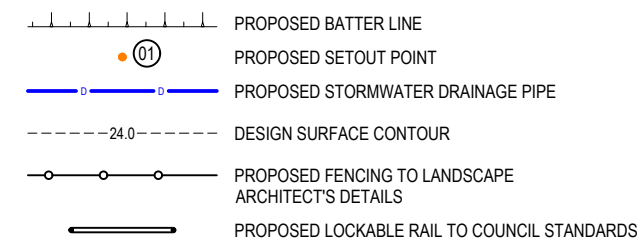
Signature:  Date: 04/04/25

DANIEL COLLINS RPEQ No. 18631

For and on behalf of Colliers International engineering & design pty ltd



LEGEND



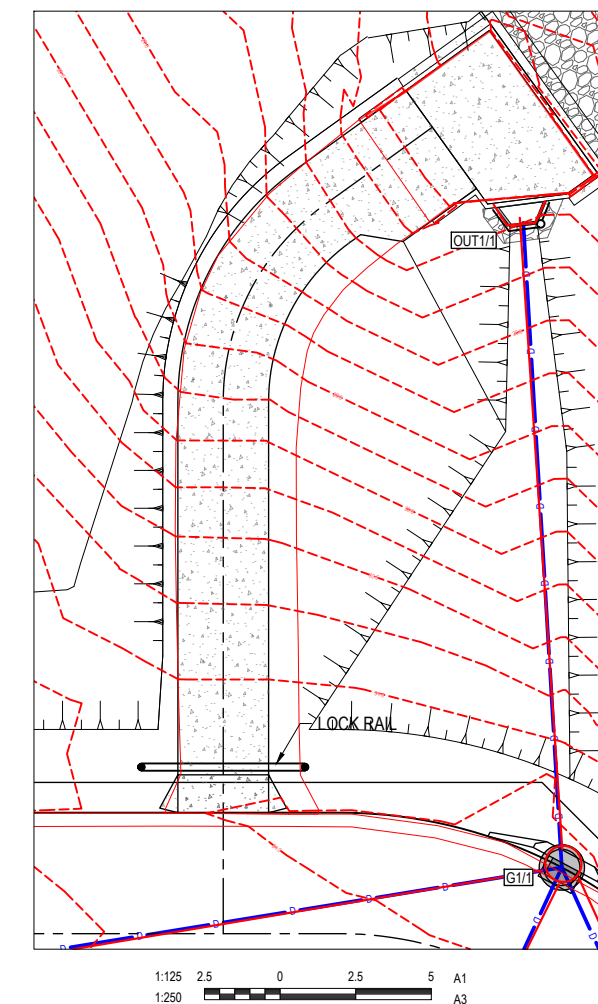
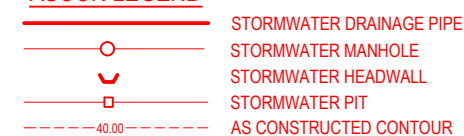
NOTE:

- NOTE:**
1. FOR DESIGN AND CONSTRUCTION NOTES REFER TO IPWEA STANDARD DRAWING DS-078.
 2. DRAWINGS TO BE READ IN CONJUNCTION WITH SITE BASED STORMWATER MANAGEMENT PLAN AND LANDSCAPE ARCHITECT'S PLANS

FOREBAY SETOUT

POINT	EASTING	NORTHING
01	6606.568	4140.195
02	6609.722	4140.351
03	6613.117	4140.519
04	6613.409	4134.640
05	6611.809	4134.561
06	6609.924	4136.268
07	6609.920	4136.356
08	6606.923	4136.207
09	6605.875	4137.157

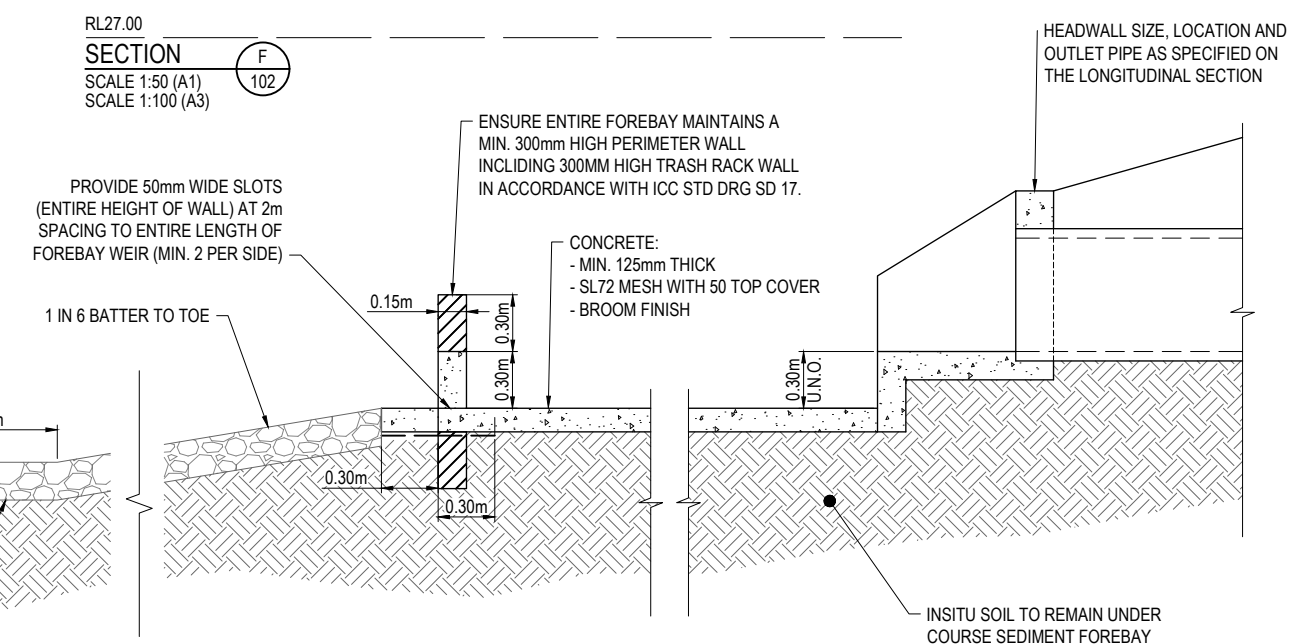
ASCON LEGEND



0.30m CONCRETE APPRON 5.80m (FORBAY AT RL27.82) 0.30m CONCRETE APPRON

RL27.00
SECTION

SCALE 1:50 (A1)
SCALE 1:100 (A3)



SECTION A - SEDIMENT FOREBAY DETAIL

SECTION A - SEDIMENT FOREBAY DETAIL
SCALE 1:20 (A1) 1:40 (A3)

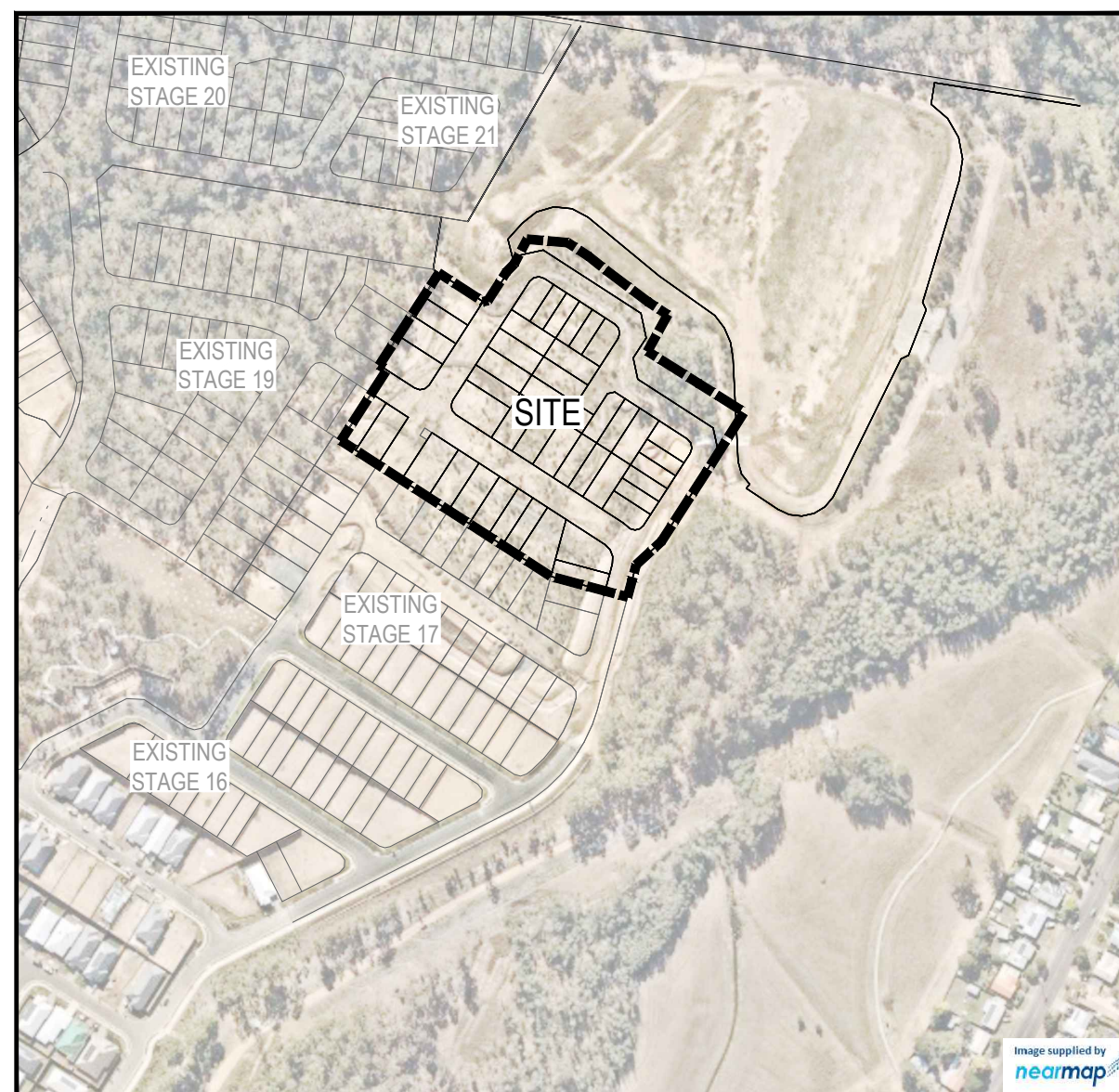
[illegible]

WOODLINKS VILLAGE STAGE 18
COLLINGWOOD DRIVE, COLLINGWOOD PARK
FOR 'CANBERRA ESTATES CONSORTIUM NO.36 PTY LTD'

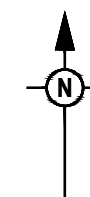
DRAWING LIST

SEWERAGE AND WATER RETICULATION

22-0175-300	SEWERAGE AND WATER RETICULATION COVER PLAN
22-0175-301	SEWERAGE AND WATER RETICULATION GENERAL NOTES
22-0175-302	SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS
22-0175-303	SEWERAGE LAYOUT PLAN
22-0175-304	SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 2
22-0175-305	SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 2
22-0175-306	WATER RETICULATION LAYOUT PLAN
22-0175-307	FIRE HYDRANT REACH LAYOUT PLAN



LOCALITY PLAN
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)



ESTATE/STAGE	WOODLINKS VILLAGE STAGE 18
CLIENT	CANBERRA ESTATES CONSORTIUM NO.36 PTY LIMITED
URBAN UTILITIES APPLICATION No.	23/06/2023
URBAN UTILITIES APPROVAL DATE	22-PNT-63740

No. OF ALLOTMENTS			44 LOT		
ASSET REGISTER - SEWERAGE					
MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN110	PE100 PN16	-	91m	112m
	DN160	PE100 PN16	-	598m	581m

ASSET REGISTER - WATER RETICULATION					
MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN125	PE100 PN16	-	390m	399m
	DN180	PE100 PN16	-	164m	161m

SERVICES	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN25	PE100 PN16	-	83m	94m
	DN32	PE100 PN16	-	18	-
	DN40	PE100 PN16	-	71m	67m

METERS	DIAMETER	MATERIAL		NUMBER	
		DESIGN	CONST	DESIGN	CONST
	20Ø	PE100 PN16	-	42	42
	25Ø	PE100 PN16	-	-	-
	32Ø	PE100 PN16	-	-	-

WATER SERVICE DETAILS

NO	SIZE	LOT NUMBERS
32	DN25 PE100	LOTS 512 TO 520, 527 TO 545 AND 776 TO 779
10	DN32 PE100 ○	LOTS 521 TO 526 AND LOTS 546 TO 549
-	DN40 PE100 △	ROAD CROSSING SERVICE

URBAN UTILITIES REF. NUMBER. : 22-PNT-63740

[illegible]

1. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
2. EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONSIDERED THROUGHOUT DESIGN AND IS BASED ON SURVEY INFORMATION PROVIDED BY THE SURVEYOR AND THE CONTRACTOR. THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ HAVE RELIED UPON THIS INFORMATION TO INFORM THE DESIGN. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
3. ALL DESIGN AND CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
5. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
7. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND/OR CONTRACTOR AT THE TIME OF DESIGN. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
8. HOLD POINT: ONCE THE BASE OF MANHOLES HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
9. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED DURING THE PRE-START, IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.
10. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
11. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.

VEGETATION PROTECTION

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.

B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT URBAN UTILITIES STANDARDS AND THE WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION
4. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE URBAN UTILITIES SEWERAGE SYSTEM.
5. ALL LIVE WORK SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH A VALID WORKS PERMIT, UNDER THE SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPER'S COST.
6. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST, UNLESS APPROVED BY URBAN UTILITIES.
7. BENCH MARK AND LEVELS TO AHD.
8. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY URBAN UTILITIES UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
9. SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
10. CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-SEW-1200-1, 1200-2, 1201-1 TO 1205-1 AND COUNCIL STANDARDS FOR ROADWAYS.
11. CONSTRUCT BULKHEADS AND TRENCH STOPS TO SEQ-1206-1 AND TRENCH DRAINS TO SEQ-SEW-1207-1.
12. EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE PROPERTY CONNECTION SHALL BE PROVIDED. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS AND SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm. REFER SEQ-SEW-1106-1 TO 1106-6.
13. CONSTRUCT MH'S TO SEQ-SEW-1301-1 TO 1301-5 (TYPE G), 1301-8 TO 1301-11 (TYPE F), 1301-14 TO 1301-25 (TYPE X), 1301-26 (TOP SLAB), 1301-27 (LADDERS), 1304-1, 1305-1, 1307-4 (STUB CUT IN), 1313-1 (CONNECTION).
14. CONSTRUCT MH INSERTIONS AND REPAIRS TO 1501-1 (JUNCTIONS) AND 1502-1 (INSET MS).
15. CONSTRUCT MAINTENANCE SHAFTS AND TERMINAL ENTRY POINTS TO SEQ-SEW 1315-1, 1316-1 AND 1502-1 (INSET MS).
16. INSTALL MH/MS TYPE B COVERS TO SEQ-SEW-1308-2 TO 1308-7.
17. INSTALL MH/MS TYPE D COVERS TO SEQ-SEW-1308-8 TO 1308-11.
18. INSTALL DETECTABLE MARKER TAPE ON ALL SEWER MAINS AND PROPERTY CONNECTIONS.
19. THE UNDERSIDE OF ALL MAINTENANCE HOLE ASPROS MUST BE PE LINED AS PER STD DRG SEQ-SEW-1301-26.
20. CONCRETE FOR MH CONSTRUCTION SHALL BE SPECIAL CLASS TO WSA PS-358 WITH REQUIREMENTS FOR CALCAREOUS AGGREGATE.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1106-1 TO SEQ-SEW-1106-6.

No.	SEQ CODE CLAUSE	DETAILS FOR PROPOSED VARIATION	REASONS OF PROPOSED VARIATION
1	5.4.5.2	SEWER MAIN LESS THAN MINIMUM VERTICAL CLEARANCE BETWEEN WATER MAIN OF 1.0m (PROPOSED MIN. 0.778m)	LINE 6 SEWER MAIN (BETWEEN STRUCTURE 2/EX2 AND HTP2/6) HAS BEEN DESIGNED TO CONNECT INTO EXISTING INFRASTRUCTURE AND GRADE TO APPROPRIATE LEVEL WITH MINIMUM VERTICAL CLEARANCE OF 1.00m
2	5.6.5.4	LOTS 548, 546 - PROPERTY CONNECTION LEVEL IS DEEPER THAN 1.50m (PROPOSED 1.774m DEEP)	IN ACCORDANCE WITH CLAUSE 5.6.5.4 (b) LOTS 553, 557 WARRANT CONNECTIONS DEEPER THAN 1.5m TO ENSURE LOTS CAN BE SERVICED FROM ROAD RESERVE IN LIEU OF REAR LOT PRIVATE PROPERTY RETICULATION SEWERS.

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT 7000 WATER SUPPLY CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND WATER CODE AND URBAN UTILITIES STANDARDS.
4. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
5. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH URBAN UTILITIES ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY URBAN UTILITIES.
6. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
7. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
8. CONSTRUCT EMBEDMENT AND TRENCH FILL TO SEQ-WAT-1200-1 TO 1204-1 AND COUNCIL STANDARDS FOR ROADWAY CROSSINGS.
9. PROVIDE BULKHEADS / TRENCH STOPS IN ACCORDANCE WITH SEQ WATER SUPPLY CODE TABLE 7.5 AND SEQ-WAT-1209-1 AND 1210-1.
10. CONSTRUCT THRUST BLOCKS ON ALL UNRESTRAINED VALVES, BENDS, TEES, TAPERS, DEAD ENDS TO SEQ-WAT-1205-1, 1206-1 AND 1207-1 AND WHERE OTHER PIPES CONNECT TO PE PIPE.
11. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
12. CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 AND 1409-1.
13. CONSTRUCT SCOURS TO SEQ-WAT-1307-2 (ONLY MAINS DN315 AND LARGER). SCOURS MUST DISCHARGE INTO AN OPEN STORMWATER GULLY PIT. DISCHARGE TO THE FACE OF KERB AND CHANNEL IS NOT ACCEPTABLE TO URBAN UTILITIES.
14. INSTALL ROAD AND PAVEMENT MARKERS TO SEQ-WAT-1107-1, 1107-2, 1300-1 AND 1300-2.
15. CONSTRUCT HYDRANTS AT THE ENDS OF ALL NEW MAINS BEFORE THE SCOUR AND WHERE REQUIRED FOR COMMISSIONING PURPOSES. URBAN UTILITIES PREFERENCE IS TO AVOID TAPPING BANDS FOR TEST POINTS AND PROVIDE EITHER A TEMPORARY DUCKFOOT HYDRANT OR FLANGED SHORT PIPE WITH A TEMPORARY TAPPED BLANK FLANGE. TESTING AGAINST LIVE MAINS AND VALVES IS NOT PERMITTED.
16. TESTING LOCATIONS AND TEMPORARY FITTINGS ARE REQUIRED ON SERVICES OVER 10m LONG UNLESS APPROVED IN WRITING FOR WORKS TO BE UNDERTAKEN AS LIVE WORKS. TESTING AND AS -CONSTRUCTED REQUIREMENTS TO BE DOCUMENTED ON DRAWINGS.
17. 316SS BACKING RINGS SHALL BE USED WITH FULL-FACE PE FLANGES. PE STUB-FLANGES ARE NOT ACCEPTED. WHEN JOINING TO EXISTING UNRESTRAINED PIPELINES, PROVIDE A DICL SHORT PIPE WITH THRUST FLANGE AND THRUST BLOCK. BOLT ON UNI FLANGES SHALL NOT BE USED AS THRUST FLANGES. THRUST (PUDDLE) FLANGES SHALL BE AN APPROVED PREFABRICATED DICL/MSCL SHORT PIPE WITH PREFABRICATED THRUST FLANGE.
18. ALL DISUSED SERVICES SHALL BE PLUGGED AT THE MAIN AND FERRULE CLOSED OR TAPPING BAND REMOVED AND SECTION OF MAIN SUBSTITUTED AS LIVE WORKS. LARGE DIAMETER SERVICES SHALL BE DISUSED BY REMOVING ANY PROPERTY SERVICE PIPEWORK AT THE POINT OF CONNECTION TO THE MAIN, AND INSTALLING A BLANK FLANGE DIRECTLY ON THE TEE.
19. AC MAINS SHALL BE REPLACED COLLAR-COLLAR.
20. CONSTRUCT PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
21. PROVIDE DN40 PE100 WATER SERVICES FOR ROAD CROSSINGS SERVICING TWO DWELLINGS. PROVIDE DN32 PE100 WATER SERVICES FOR ROAD CROSSINGS SERVICING A SINGLE DWELLING. IF THE LONG TERM STATIC HEAD OF THE PROPERTY SERVICE IS LESS THAN 350 kPa (35m) OR IF PRIVATE BOOSTER IS REQUIRED, THE MINIMUM SIZE OF PROPERTY SERVICE SHALL BE DN40 PE100.
22. WATER SERVICE UNDER ROADS MUST BE PLACED WITHIN 100mm DIA. CONDUITS, REFER SEW-WAT-1107-1.
23. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE URBAN UTILITIES STANDARD DRAWING.
24. WATER METER AND FIRE HYDRANTS MUST BE LOCATED MINIMUM 1.1m CLEAR OF ENERGEX PILLARS.

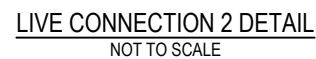
1. The information contained in this drawing / document is in compliance with approved drawings and design.
2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
3. This generally represents an accurate record of as-constructed works
4. I accept responsibility for the information contained in this drawing / document.

RPEQ (signature) RPEQ No. 18631 Date: 04/04/25

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
2	20.06.24	CL	TR	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED				CANBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	WOODLINKS	SEWERAGE AND WATER RETICULATION GENERAL NOTES	
3	04.04.25	CL	BP	AS CONSTRUCTED										
						DESIGN	APPROVED	DATE 4.04.25		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	22-0175	301	3




 RPEQ (signature) RPEQ No. 18631 Date: 04/04/25



SCALE 1:50 (A1)
SCALE 1:100 (A3)

CONNECTION 1				CONNECTION 2			
STREET	ELEDER PARADE NEAR LOT 512			STREET	ELEDER PARADE NEAR LOT 589		
LOCATION	FRONT OF LOT 512			LOCATION	FRONT OF 589		
LENGTH	3.00m	TYPE OF MAIN	DN180 PE100	LENGTH	3.00m	TYPE OF MAIN	DN180 PE100
DATE COMMENCED		DATE COMPLETED		DATE COMMENCED		DATE COMPLETED	
SIGNATURE				SIGNATURE			

1. ALL LIVE WORKS SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT, UNDER THE SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPERS EXPENSE.
2. PRE-CHLORINATED FITTINGS SHALL BE USED FOR ALL DRINKING WATER LIVE WORKS CONNECTIONS.

1. ALL LIVE WORKS SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT, UNDER THE SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPERS EXPENSE.
2. LIVE WORKS CANNOT COMMENCE UNTIL ALL RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED AND ACCEPTED BY URBAN UTILITIES.

No.	DESCRIPTION	DIA. SEWER	EXISTING ASSET ID AT CONNECTION	MH/MS TYPE	COVER TYPE	LOT & PLAN No.	F.S.L.	E.S.L.	CONNECTION I.L.	CONNECTION DEPTH TO INVERT	ALTERATION TO EXISTING MH BENCHING REQUIRED (Y/N)
1 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO CONSTRUCT A DN160 STUB (TEMPORARY END CAPPED) IN MH1/1 (MH569786).	DN160 PE100	MH569786 (1/1)	MH (F)	BD	P303	31.462 31.42	30.928 30.928	27.869 27.86	3.593 3.56	Y
1 (B)	0.50m FROM EXISTING STUB, CONSTRUCTOR TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.										
1 (C)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
2 (A)	0.50m FROM EXISTING STUB, CONSTRUCTOR TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.	DN160 PE100	LS988882 (2/EX2)	LINE	-	P303	32.815 31.42	32.815 30.928	31.297 31.31	1.518 3.56	N
2 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
3 (A)	CONSTRUCTOR TO RAISE EXISTING MAINTENANCE HOLE MH569786 (1/1) BY 0.472m IN ACCORDANCE WITH STRUCTURAL ENGINEERING DRAWINGS. CONSTRUCTOR TO REUSE EXISTING CONVERTOR SLAB	DN160 PE100	MH569786 (1/1)	MH (F)	BD	P303	31.462 31.42	30.928 30.928	27.86	3.56	-



(ROAD CROSSING)
SCALE 1:50 (A1)
SCALE 1:100 (A3)

URBAN UTILITIES REF. NUMBER. : 22-PNT-63740

[illegible]

STRUCTURE NAME

4/1

HTP1/3

HTP2/3

1/3

2/3

6/1

E/4

2/EX2

HTP1/6

HTP2/6

1/6

2/6

E/6

J1/1

HTP1/J1

HTP2/J1

E/J1

J2/1

HTP1/J2

HTP2/J2

E/J2

STRUCTURE TYPE & DROP

STRUCTURE LID TYPE

JUNCT. LINE No.

JUNCT. DROP TYPES

DEPTH TO HC

HC INVERT LEVEL

HC TYPE

HC LOT No.

CH FROM DS STRUCTURE

STRUCTURE TYPES
G = CONCRETE 0.9000
F = CONCRETE 1.2000
X = CONCRETE 1.2000
MS = PE 0.6000
MH DROP TYPES:
AS PER SEQ STD DRG SEQ-SEW-1301 SERIES
MS DROP TYPES:
MS-A = 20mm DROP THROUGH BULB
MS-B = >750mm DROP INTO RISER
LID TYPES
B = NON-TRAFFICABLE
D = TRAFFICABLE
D(BD) = TRAFFICABLE WITH BOLT DOWN

NOTE: PE LINING OF MAINTENANCE HOLES;
MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥
4.0m IN DEPTH, REQUIRE PE LINED
PROTECTIVE COATING

EMBEDMENT NOTE:
PIPE EMBEDMENT & TRENCHFILL SHALL BE
IN ACCORDANCE WITH SEQ-SEW-1200-2,
1201-1 TO 1201-5. TYPE 4 SUPPORT IS
PROPOSED UNTIL FINAL GEOTECHNICAL
INVESTIGATIONS ARE COMPLETED PRIOR
TO CONSTRUCTION.

* STORMWATER BRIDGING NOTE:
WHERE A STORMWATER PIPE ≥ 600mm DIA
CROSSES OVER A SEWER, THE PIPE SHALL
BE SUPPORTED BY A BRIDGE STRUCTURE
THAT SPANS THE SEWER TRENCH. REFER
COLLIERS STD DRG S-100.

DATUM RL(m)

LAND USE

PIPE DIA & TYPE

PIPE GRADE (1 in x)

EMBEDMENT

JUNCTION INVERT LEVEL

DEPTH TO INVERT

SEWER INVERT LEVEL

DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL

SETOUT

RUNNING CHAINAGE

LINE NUMBER

LINE 3

LINE 4

LINE 6

LINE J1

LINE J2

ENGINEER'S CERTIFICATION

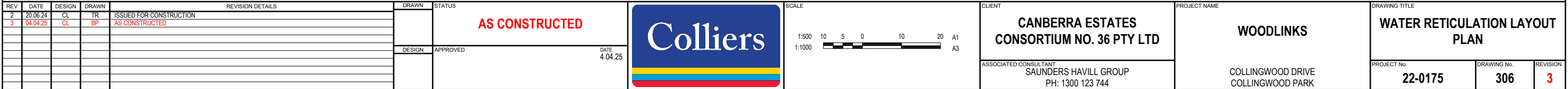
I, Dan Collins, hereby certify that:

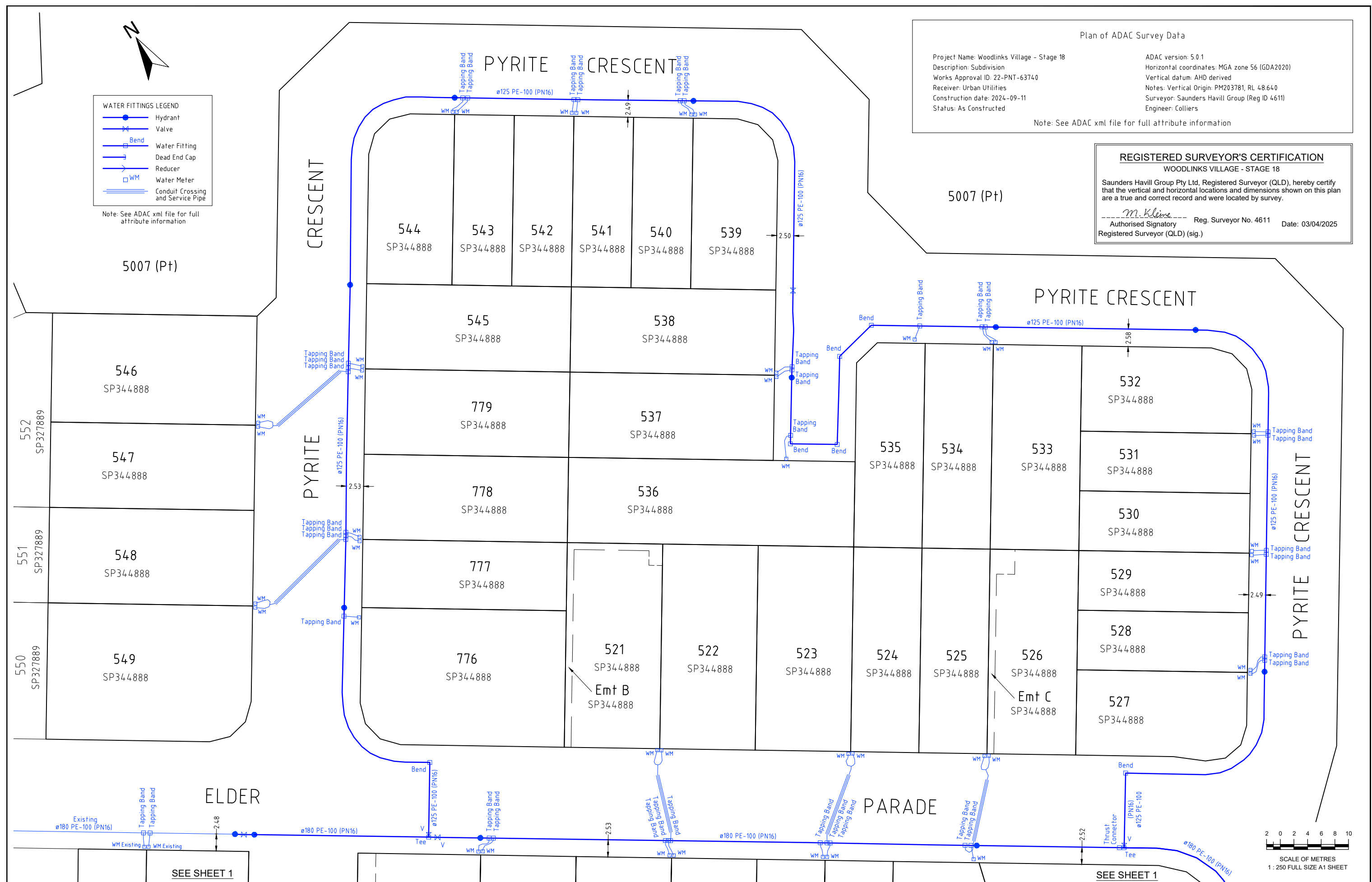
1. The information contained in this drawing / document is in compliance with approved drawings and design.
2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
3. This generally represents an accurate record of as-constructed works
4. I accept responsibility for the information contained in this drawing / document.

RPEQ (signature) RPEQ No. 18631 Date: 04/04/25

1 TRENCHSTOPS
LOCATED CENTRALLYLIVE CONNECTION 2
REFER LIVE WORKS
TABLE FOR DETAILS

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
2	20.06.24	CL	TR	ISSUED FOR CONSTRUCTION			1:1000 10 0 10 20 30 40 50 A1	CANBERRA ESTATES	WOODLINKS	SEWERAGE LONGITUDINAL
3	04.04.25	CL	BP	AS CONSTRUCTED		AS CONSTRUCTED	1:2000 HORIZONTAL A3	CONSORTIUM NO. 36 PTY LTD		SECTIONS SHEET 2 OF 2
					DESIGN	APPROVED	1:100 2 1 0 2 4 A1	ASSOCIATED CONSULTANT	COLLINGWOOD DRIVE	PROJECT No. 22-0175
							1:200 VERTICAL A3	SAUNDERS HAVILL GROUP	COLLINGWOOD PARK	DRAWING No. 305
								PH: 1300 123 744		REVISION 3



[illegible]