

# WOODLINKS VILLAGE - STAGE 22

## COLLINGWOOD DRIVE, COLLINGWOOD PARK

### FOR 'CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED'

#### DRAWING LIST

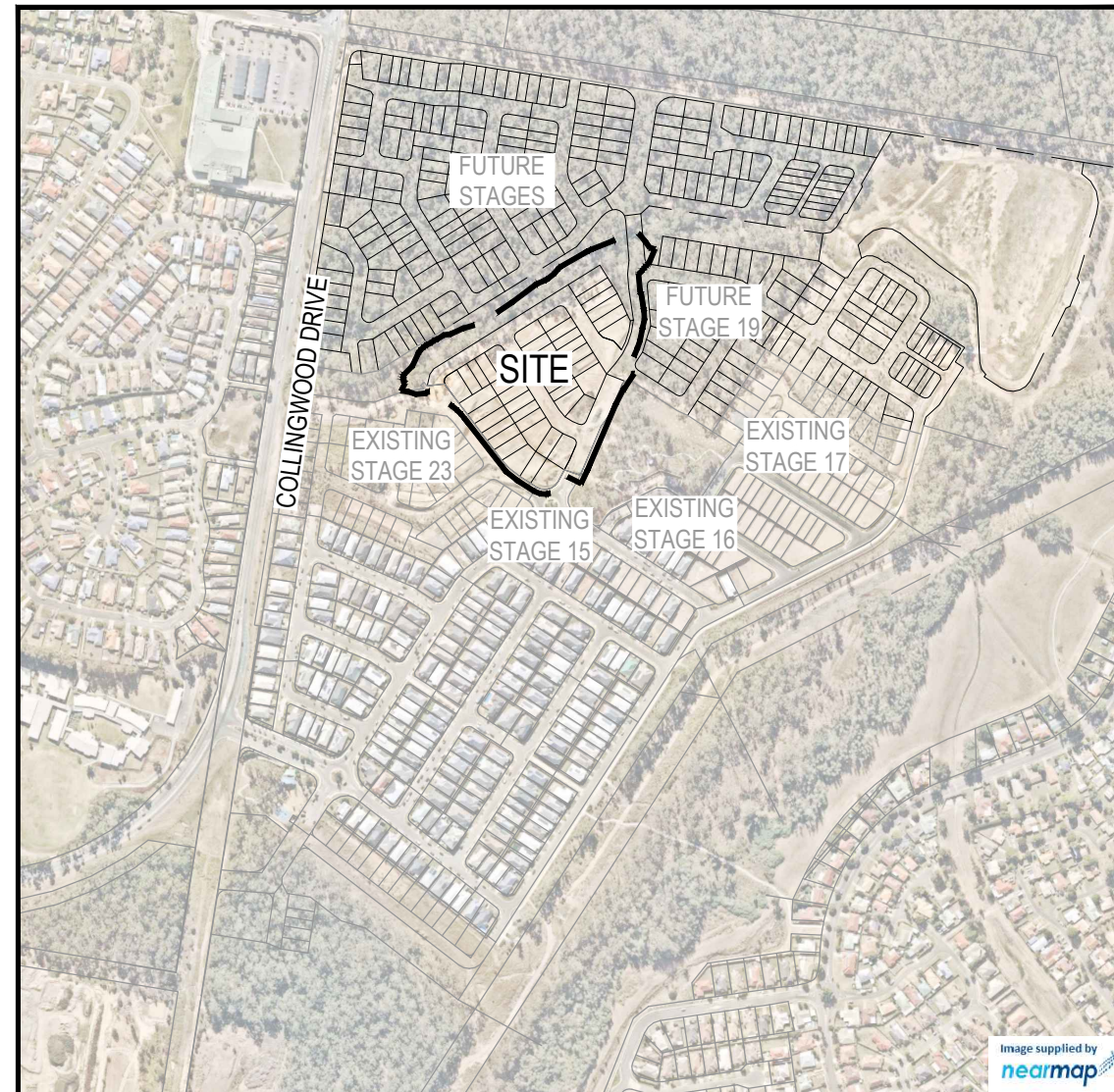
#### EARTHWORKS, ROADWORKS AND DRAINAGE

- 20-0214-100 COVER PLAN
- 20-0214-101 GENERAL NOTES
- 20-0214-102 BULK EARTHWORKS LAYOUT PLAN
- 20-0214-103 BULK EARTHWORKS TYPICAL SECTIONS
- 20-0214-104 ROADWORKS AND DRAINAGE LAYOUT PLAN
- 20-0214-105 SURVEY SETOUT AND KERBS TYPES LAYOUT PLAN
- 20-0214-106 ROAD 01 LONGITUDINAL SECTION AND CROSS SECTIONS
- 20-0214-107 ROAD 01 CROSS SECTIONS
- 20-0214-108 ROAD 02 LONGITUDINAL SECTION AND CROSS SECTIONS
- 20-0214-109 ROAD 02 CROSS SECTIONS
- 20-0214-110 ROAD 03 LONGITUDINAL SECTION AND CROSS SECTIONS
- 20-0214-111 INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2
- 20-0214-112 INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2
- 20-0214-113 SIGNS AND LINEMARKING LAYOUT PLAN
- 20-0214-114 STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN
- 20-0214-115 STORMWATER DRAINAGE LONGITUDINAL SECTIONS
- 20-0214-116 STORMWATER DRAINAGE CALCULATIONS TABLE

#### SEWER AND WATER RETICULATION

- 20-0214-300 SEWERAGE RETICULATION COVER PLAN
- 20-0214-301 SEWERAGE RETICULATION LAYOUT PLAN
- 20-0214-302 SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2
- 20-0214-303 SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2
- 20-0214-304 WATER RETICULATION COVER PLAN
- 20-0214-305 WATER RETICULATION LAYOUT PLAN
- 20-0214-306 FIRE HYDRANT REACH LAYOUT PLAN

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 4/3/22  
**SCOTT THOMAS** RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD



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

<b>PROJECT INFORMATION SUMMARY:</b>
No. OF LOTS = 44
AREA OF SITE = 3.59 ha
RP DESCRIPTION LOT 5007 ON SP312157
DATUM LEVEL AND LOCATION P.M. 110122 RL 40.320 AHD
LOCAL AUTHORITY: IPSWICH CITY COUNCIL
COUNCIL REFERENCE NUMBER: 4280/15/MAMC/B

<b>NOTE:</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
- SITE BASED MANAGEMENT PLAN

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	AS SHOWN	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>COVER PLAN</b>		
B	02.03.22	NS	NS	AS CONSTRUCTED								
DESIGN APPROVED <b>SCOTT THOMAS</b> RPEQ 04618 FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ASSOCIATED CONSULTANT <b>SAUNDERS HAVILL GROUP</b> PH: 1300 123 744		COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b>	DRAWING No. <b>100</b>	REVISION <b>B</b>

**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 D<sub>50</sub> 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 D<sub>50</sub> SIZE.

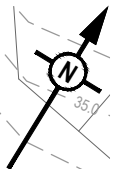
**ROOFWATER NOTES**

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 1000 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 1500 ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: *4/3/22*  
**SCOTT THOMAS RPEQ No. 04618**  
 For and on behalf of Peakurban PTY LTD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION		AS CONSTRUCTED	 Achieve more.	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>GENERAL NOTES</b>
B	02.03.22	NS	NS	AS CONSTRUCTED						
					DESIGN	APPROVED SCOTT THOMAS		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b>
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU			DRAWING No. <b>101</b>
										REVISION <b>B</b>

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 4/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD



**NOTE:**  
 PLEASE REFER TO SURVEYOR AS CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS

ALL BATTERS 1 IN 6 (OR STEEPER) TO BE TEMPORARILY STABILISED UNTIL VEGETATED AS PART OF THE LANDSCAPING WORKS.

NO EARTHWORKS IN ENCROACH IN EXISTING CHANNEL INVERT

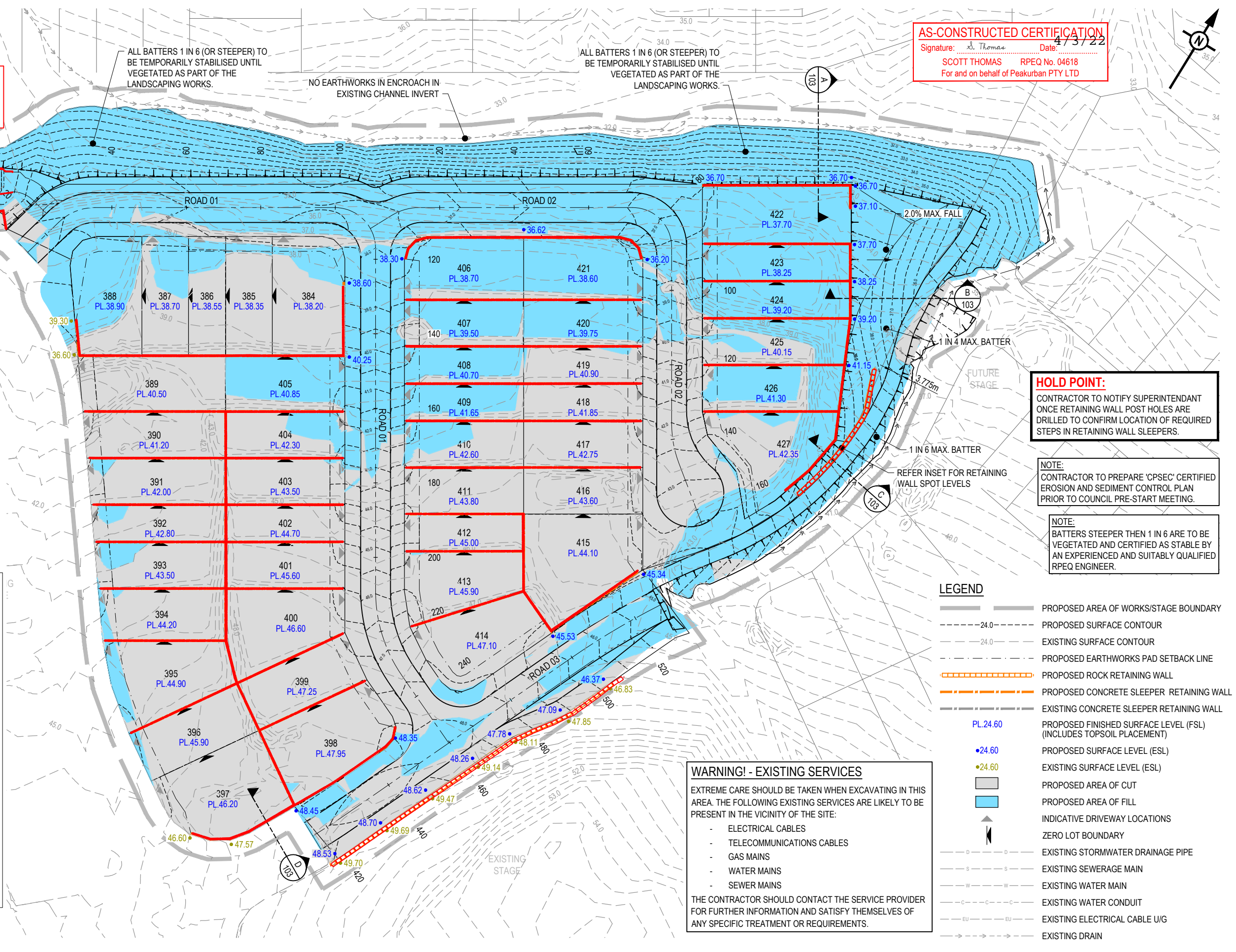
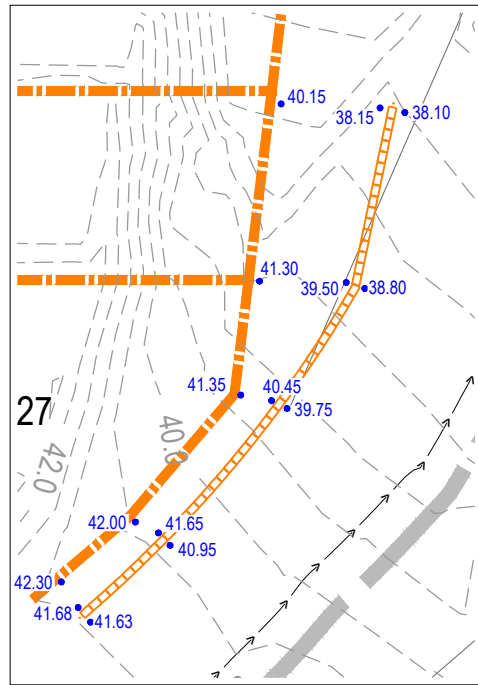
ALL BATTERS 1 IN 6 (OR STEEPER) TO BE TEMPORARILY STABILISED UNTIL VEGETATED AS PART OF THE LANDSCAPING WORKS.

**AS CONSTRUCTED LEGEND**

- SLEEPER RETAINING WALL
- - - - - ROCK RETAINING WALL

EARTHWORKS VOLUMES	
CUT:	10,746m <sup>3</sup>
FILL:	23,583m <sup>3</sup>
BAL:	12,837m <sup>3</sup> (SPOIL)

**NOTE:**  
 1. VOLUMES SHOWN ARE SOLID VALUES ONLY. NO ALLOWANCES FOR BULKING, COMPACTION, ROAD BOXING, UNSUITABLE MATERIALS.



**HOLD POINT:**  
 CONTRACTOR TO NOTIFY SUPERINTENDANT ONCE RETAINING WALL POST HOLES ARE DRILLED TO CONFIRM LOCATION OF REQUIRED STEPS IN RETAINING WALL SLEEPERS.

**NOTE:**  
 CONTRACTOR TO PREPARE 'CPSEC' CERTIFIED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO COUNCIL PRE-START MEETING.

**NOTE:**  
 BATTERS STEEPER THEN 1 IN 6 ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.

**LEGEND**

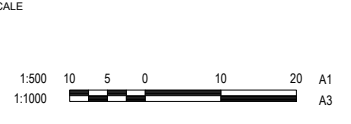
- PROPOSED AREA OF WORKS/STAGE BOUNDARY
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED ROCK RETAINING WALL
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- EXISTING CONCRETE SLEEPER RETAINING WALL
- PL.24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (INCLUDES TOPSOIL PLACEMENT)
- 24.60 PROPOSED SURFACE LEVEL (ESL)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWERAGE MAIN
- EXISTING WATER MAIN
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- EXISTING DRAIN

**WARNING! - EXISTING SERVICES**  
 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

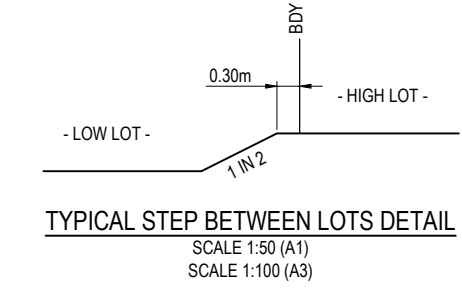
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

<b>REV</b>	<b>DATE</b>	<b>DESIGN</b>	<b>DRAWN</b>	<b>REVISION DETAILS</b>	<b>DRAWN</b>	<b>STATUS</b>		<b>CLIENT</b>	<b>PROJECT NAME</b>	<b>DRAWING TITLE</b>
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>		<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>BULK EARTHWORKS LAYOUT PLAN</b>
B	02.03.22	NS	NS	AS CONSTRUCTED				ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b>
										DRAWING No. <b>102</b>
										REVISION <b>B</b>

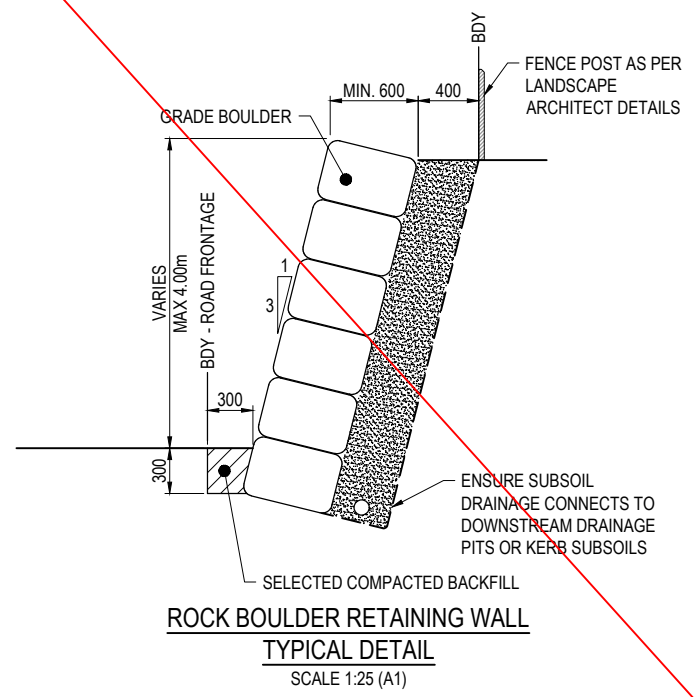
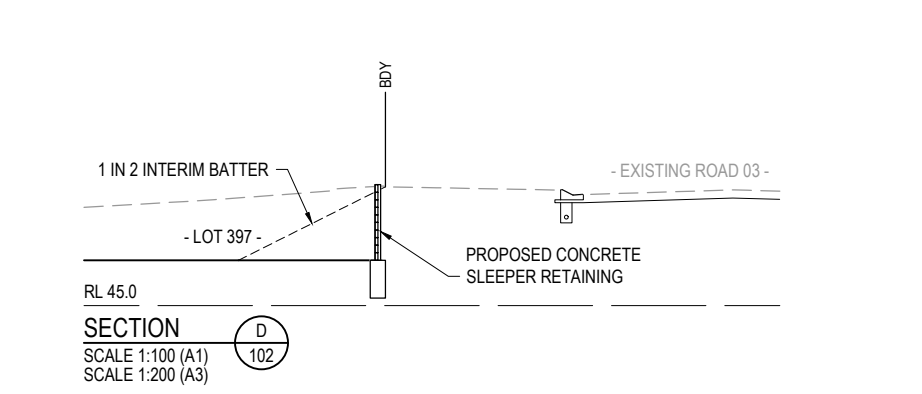
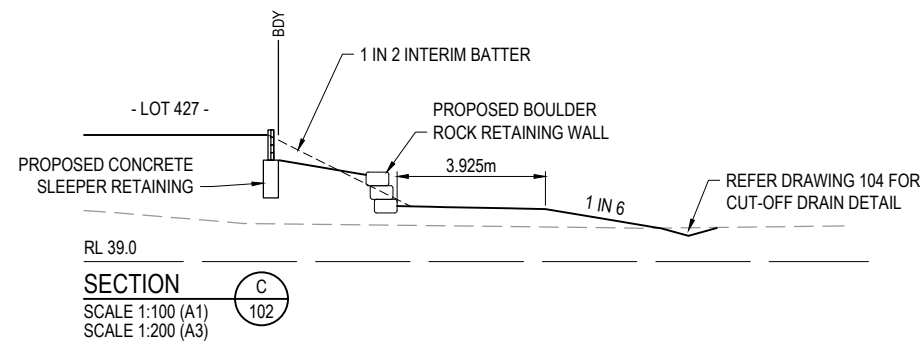
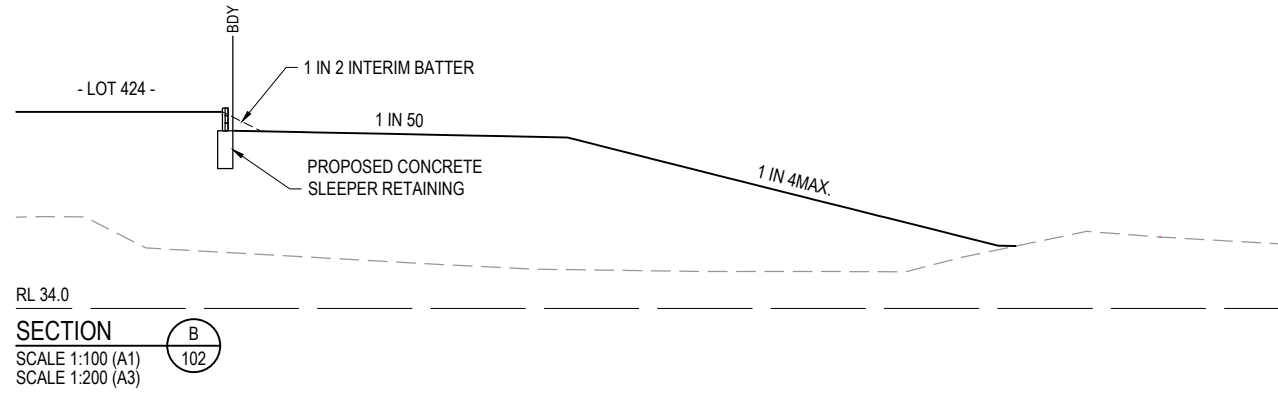
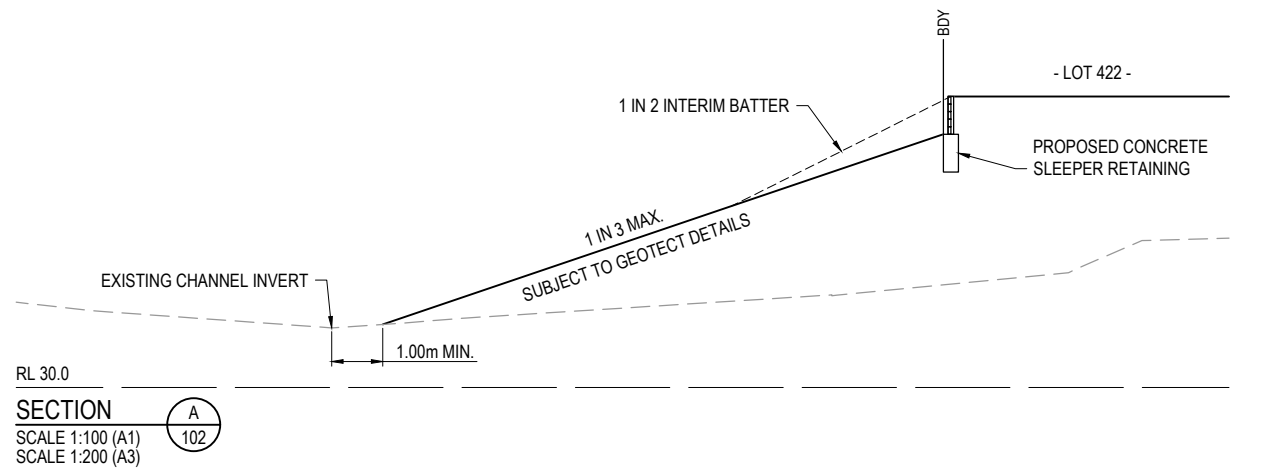


**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 4/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**NOTE:**  
 PLEASE REFER TO FORM 15'S SUBMITTED WITH THE AS  
 CONSTRUCTED PACKAGE FOR RETAINING WALL DESIGN

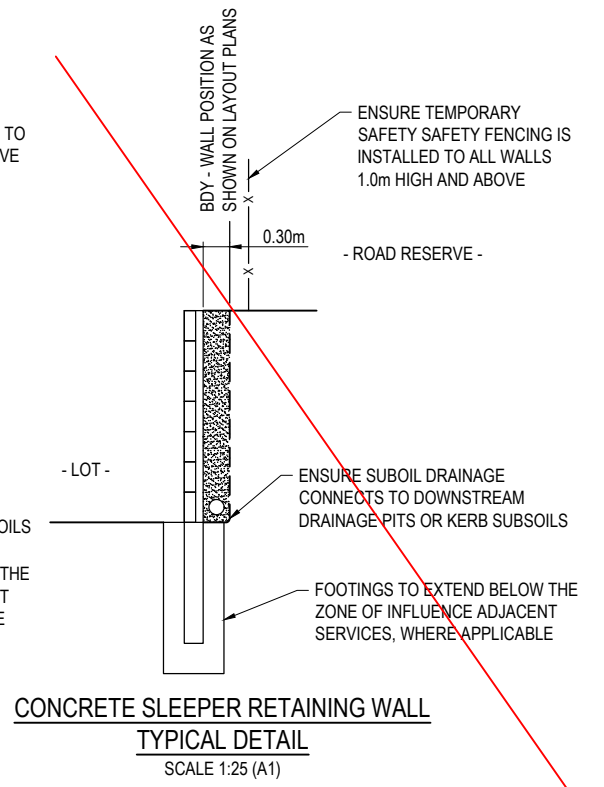
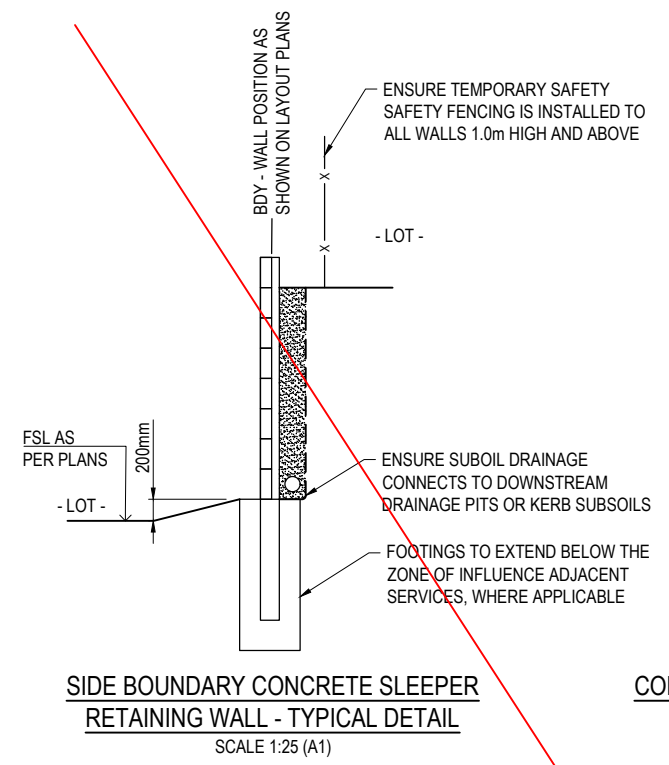


**NOTE:**  
 PLEASE REFER TO SURVEYOR AS CONSTRUCTED  
 DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB  
 NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS



**NOTE:**  
 BATTERS STEEPER THEN 1 IN 6 ARE TO BE  
 VEGETATED AND CERTIFIED AS STABLE BY  
 AN EXPERIENCED AND SUITABLY QUALIFIED  
 RPEQ ENGINEER.

- RETAINING WALL NOTES:**
1. ALL RETAINING WALLS ARE TO BE DELIVERED UNDER DESIGN AND CONSTRUCTION ARRANGEMENT - FORMS 15 AND 16 CERTIFICATIONS ARE TO BE PROVIDED BY THE CONTRACTOR.
  2. DESIGN OF WALLS TO CONSIDER ALL LOADS (FENCES, DWELLINGS ETC) AND ASSOCIATED IMPACTS FROM ANY ADJACENT SERVICES - FOOTING DEPTHS TO BE EXTENDED AS REQUIRED.
  3. GEOTECHNICAL CONDITIONS ARE TO BE CONFIRMED AND APPROPRIATELY CONSIDERED FOR ALL WALLS.
  4. REFER LANDSCAPE DRAWINGS FOR FURTHER INFORMATION ON RETAINING WALLS, PARTICULARLY RELATING TO FINISHES.
  5. TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.
  6. RETAINING WALLS ADJACENT TO ROAD RESERVE THAT RESULT IN A POTENTIAL FOR A FALL FROM ROAD RESERVE BY PEDESTRIANS ARE TO UNDERGO A SAFETY AUDIT IN ACCORDANCE WITH ISO31000. RISK MANAGEMENT IS TO BE IDENTIFIED AND IMPLEMENTED IN CONSULTATION WITH COUNCIL.
  7. RETAINING WALLS ADJACENT TO ROAD RESERVE ARE TO BE LOCATED A MINIMUM OF 300MM OUTSIDE OF ROAD RESERVE AND SUCH THAT NO PART OF THE RETAINING WALL FOOTING ENCLOSES INTO THE ROAD RESERVE.



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					DESIGN	APPROVED
						SCOTT THOMAS RPEQ 04618
FOR AND ON BEHALF OF PEAKURBAN PTY LTD						

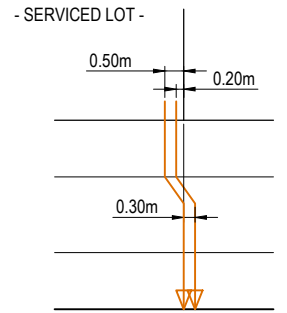
<p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:100 1 0 1 2 3 4 5 A1</p> <p>1:200 1 0 1 2 3 4 5 A3</p> <p>1:50 1 0.5 0 1 2 A1</p> <p>1:100 1 0.5 0 1 2 A3</p> <p>1:25 0 0.25 0.5 0.75 1.0 1.25 A1</p> <p>1:50 0 0.25 0.5 0.75 1.0 1.25 A3</p>	<p>CLIENT</p> <p><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT</p> <p>SAUNDERS HAVILL GROUP</p> <p>PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p><b>WOODLINKS VILLAGE - STAGE 22</b></p> <p>COLLINGWOOD DRIVE COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p><b>BULK EARTHWORKS TYPICAL SECTIONS</b></p> <p>PROJECT No. <b>20-0214</b></p> <p>DRAWING No. <b>103</b></p> <p>REVISION <b>B</b></p>
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**AS CONSTRUCTED LEGEND**

- STORMWATER DRAINAGE PIPE
- STORMWATER GULLY
- STORMWATER GULLY
- ROOFWATER KERB ADAPTOR WITH PIPE
- HEADWALL
- CONCRETE PATH AND PRAM RAMP

**AS-CONSTRUCTED CERTIFICATION**

Signature: Scott Thomas Date: 4/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD



**TYPICAL KERB ADAPTOR SETOUT DETAIL**  
SCALE 1:100 (A1)

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

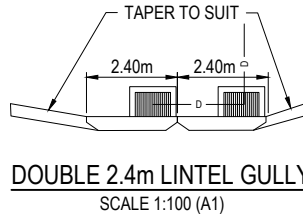
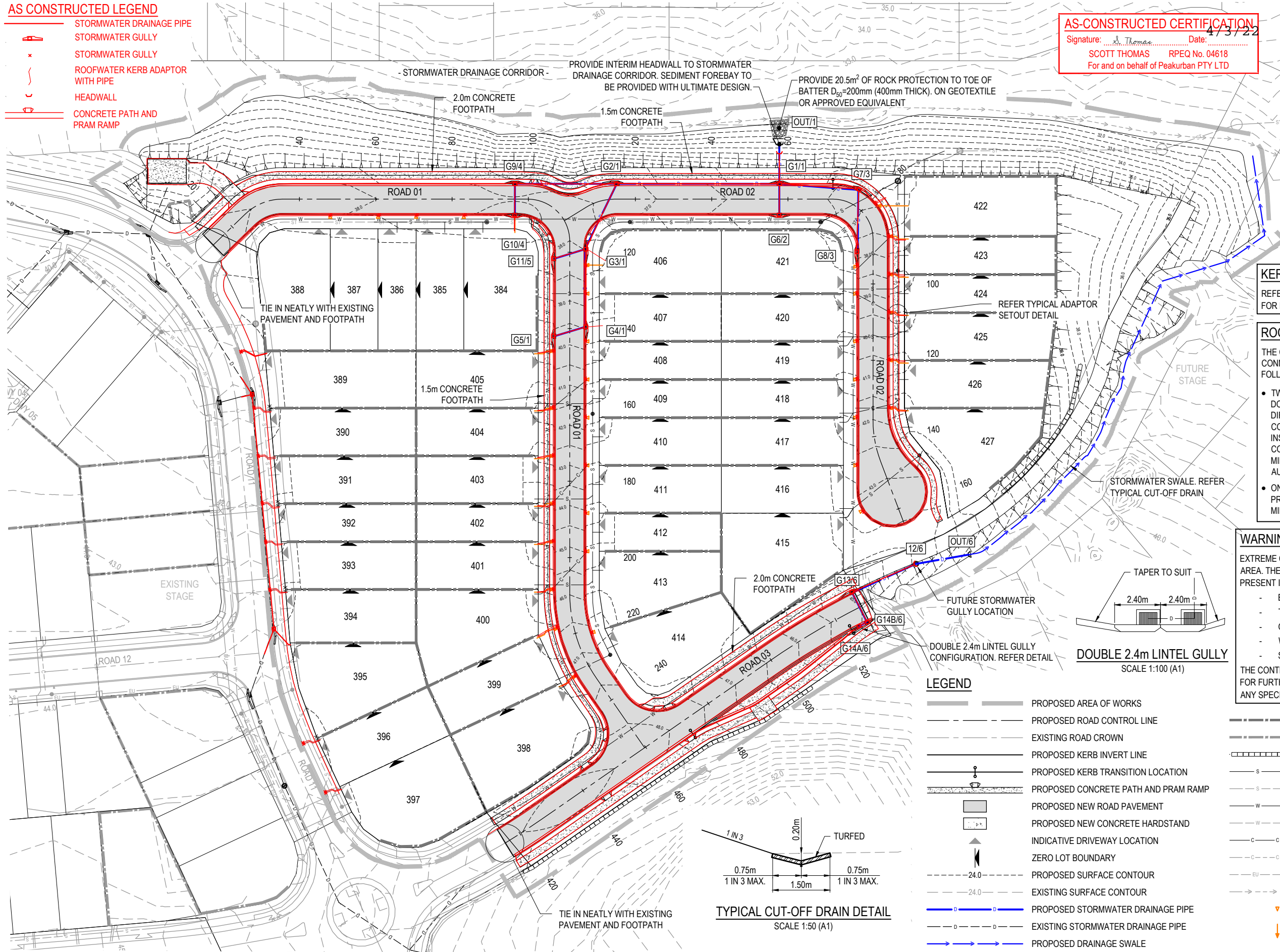
**ROOFWATER CONNECTION NOTE:**  
THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:

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

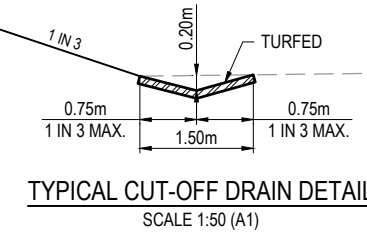
**WARNING! - EXISTING SERVICES**  
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- 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.



**DOUBLE 2.4m LINTEL GULLY**  
SCALE 1:100 (A1)

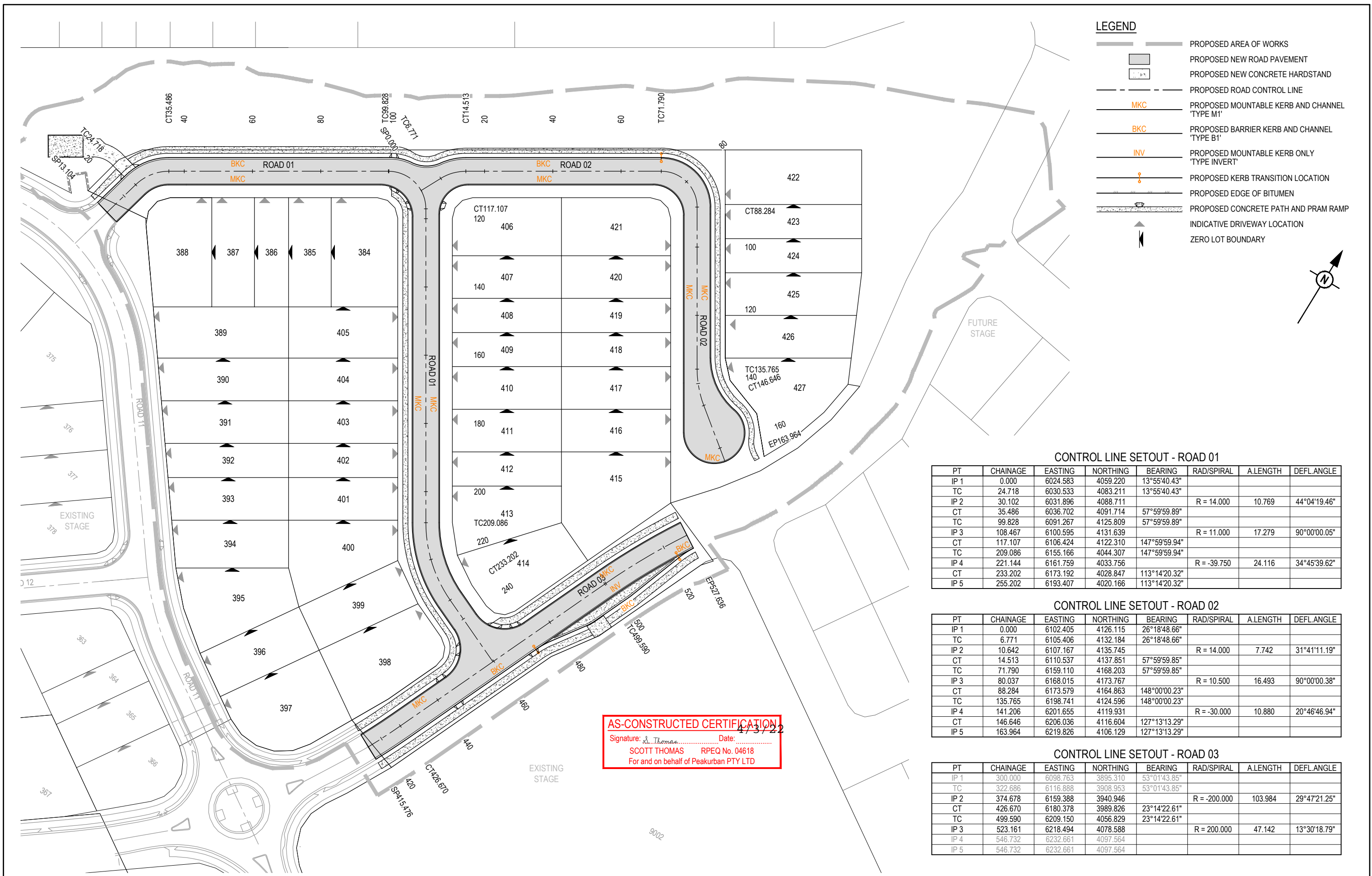


**TYPICAL CUT-OFF DRAIN DETAIL**  
SCALE 1:50 (A1)

**LEGEND**

- PROPOSED AREA OF WORKS
- PROPOSED ROAD CONTROL LINE
- EXISTING ROAD CROWN
- PROPOSED KERB INVERT LINE
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED NEW CONCRETE HARDSTAND
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED DRAINAGE SWALE
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- EXISTING DRAIN
- PROPOSED ROOFWATER KERB ADAPTOR
- PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION			<b>AS CONSTRUCTED</b>	1:500	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>ROADWORKS AND DRAINAGE LAYOUT PLAN</b>
B	02.03.22	NS	NS	AS CONSTRUCTED				1:1000	ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b> DRAWING No. <b>104</b> REVISION <b>B</b>
FOR AND ON BEHALF OF PEAKURBAN PTY LTD								ENQUIRIES@PEAKURBAN.COM.AU			



**LEGEND**

- PROPOSED AREA OF WORKS
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED NEW CONCRETE HARDSTAND
- PROPOSED ROAD CONTROL LINE
- MKC PROPOSED MOUNTABLE KERB AND CHANNEL 'TYPE M1'
- BKC PROPOSED BARRIER KERB AND CHANNEL 'TYPE B1'
- INV PROPOSED MOUNTABLE KERB ONLY 'TYPE INVERT'
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED EDGE OF BITUMEN
- PROPOSED CONCRETE PATH AND PRAM RAMP
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY

**CONTROL LINE SETOUT - ROAD 01**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6024.583	4059.220	13°55'40.43"			
TC	24.718	6030.533	4083.211	13°55'40.43"			
IP 2	30.102	6031.896	4088.711		R = 14.000	10.769	44°04'19.46"
CT	35.486	6036.702	4091.714	57°59'59.89"			
TC	99.828	6091.267	4125.809	57°59'59.89"			
IP 3	108.467	6100.595	4131.639		R = 11.000	17.279	90°00'00.05"
CT	117.107	6106.424	4122.310	147°59'59.94"			
TC	209.086	6155.166	4044.307	147°59'59.94"			
IP 4	221.144	6161.759	4033.756		R = -39.750	24.116	34°45'39.62"
CT	233.202	6173.192	4028.847	113°14'20.32"			
IP 5	255.202	6193.407	4020.166	113°14'20.32"			

**CONTROL LINE SETOUT - ROAD 02**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6102.405	4126.115	26°18'48.66"			
TC	6.771	6105.406	4132.184	26°18'48.66"			
IP 2	10.642	6107.167	4135.745		R = 14.000	7.742	31°41'11.19"
CT	14.513	6110.537	4137.851	57°59'59.85"			
TC	71.790	6159.110	4168.203	57°59'59.85"			
IP 3	80.037	6168.015	4173.767		R = 10.500	16.493	90°00'00.38"
CT	88.284	6173.579	4164.863	148°00'00.23"			
TC	135.765	6198.741	4124.596	148°00'00.23"			
IP 4	141.206	6201.655	4119.931		R = -30.000	10.880	20°46'46.94"
CT	146.646	6206.036	4116.604	127°13'13.29"			
IP 5	163.964	6219.826	4106.129	127°13'13.29"			

**CONTROL LINE SETOUT - ROAD 03**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	300.000	6098.763	3895.310	53°01'43.85"			
TC	322.686	6116.888	3908.953	53°01'43.85"			
IP 2	374.678	6159.388	3940.946		R = -200.000	103.984	29°47'21.25"
CT	426.670	6180.378	3989.826	23°14'22.61"			
TC	499.590	6209.150	4056.829	23°14'22.61"			
IP 3	523.161	6218.494	4078.588		R = 200.000	47.142	13°30'18.79"
IP 4	546.732	6232.661	4097.564				
IP 5	546.732	6232.661	4097.564				

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 17/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION			<b>AS CONSTRUCTED</b>	1:500 1:1000	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>SURVEY SETOUT AND KERBS TYPES LAYOUT PLAN</b>
B	02.03.22	NS	NS	AS CONSTRUCTED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b>
						DESIGN APPROVED SCOTT THOMAS	RPEQ 04618				DRAWING No. <b>105</b>
							FOR AND ON BEHALF OF PEAKURBAN PTY LTD				REVISION <b>B</b>

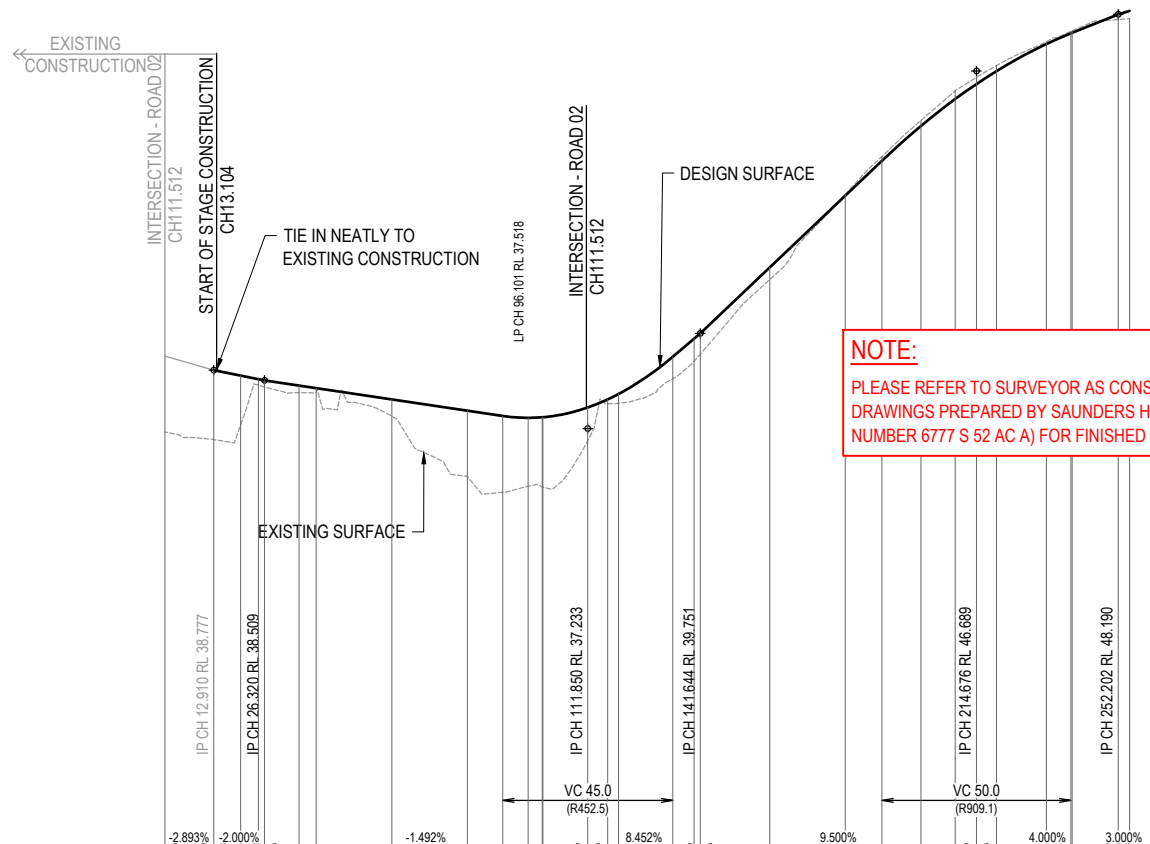
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 01	ACCESS STREET	1.0 x 10 <sup>5</sup>	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

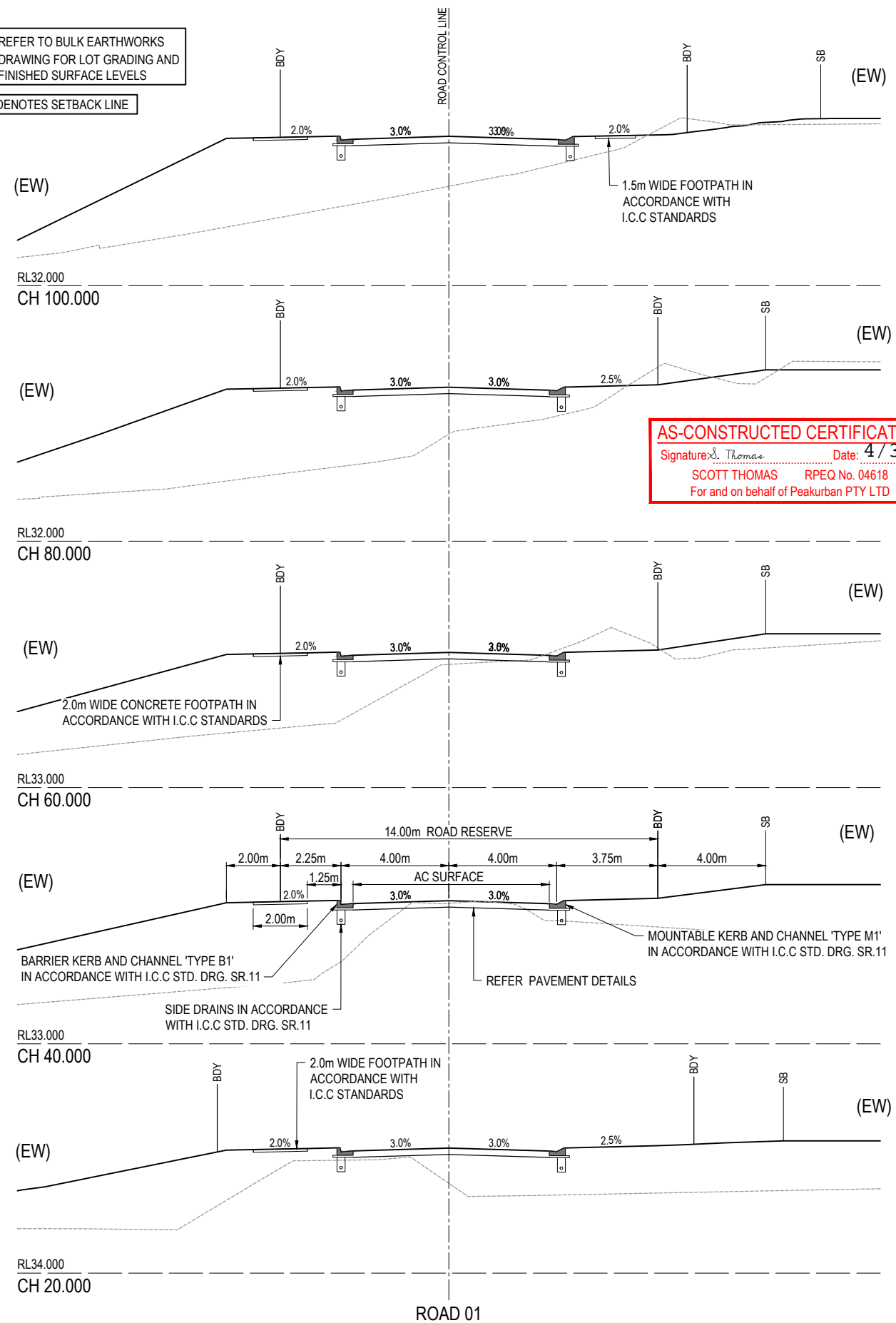
AS CONSTRUCTED PAVEMENT DETAILS

ROAD	ROADCLASS	DESIGN CBR	AC	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH	START	END
ROAD 1	A1	6	35mm	125mm	145mm	-	305mm	0	80
ROAD 1	A1	10	35mm	125mm	100mm	-	260mm	80	160
ROAD 1	A1	5	35mm	125mm	100mm	-	260mm	160	220
ROAD 1	A1	6	35mm	125mm	145mm	-	305mm	220	END



**NOTE:**  
PLEASE REFER TO SURVEYOR AS CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS  
SB DENOTES SETBACK LINE



**AS-CONSTRUCTED CERTIFICATION**  
Signature: *Scott Thomas* Date: 4/3/22  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Peakurban PTY LTD

DATUM RL 25.0

CUT (-) / FILL	#	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGES	HORIZONTAL CURVES
2.004	1.833	1.308	38.523	38.528	38.528	0.000	
1.308	1.058	0.158	38.523	38.528	38.528	12.910	R14.000
0.158	0.174	0.174	38.523	38.528	38.528	20.000	
0.174	0.187	0.187	38.523	38.528	38.528	24.718	
0.187	0.103	0.103	38.523	38.528	38.528	26.320	
0.103	0.445	0.445	38.523	38.528	38.528	35.486	
0.445	1.741	1.741	38.523	38.528	38.528	40.000	
1.741	2.019	2.019	38.523	38.528	38.528	60.000	
2.019	1.811	1.811	38.523	38.528	38.528	80.000	
1.811	1.842	1.842	38.523	38.528	38.528	89.350	
1.842	1.851	1.851	38.523	38.528	38.528	96.101	
1.851	0.883	0.883	38.523	38.528	38.528	99.828	
0.883	0.112	0.112	38.523	38.528	38.528	100.000	
0.112	0.243	0.243	38.523	38.528	38.528	117.107	
0.243	0.582	0.582	38.523	38.528	38.528	120.000	
0.582	0.597	0.597	38.523	38.528	38.528	134.350	
0.597	0.546	0.546	38.523	38.528	38.528	140.000	
0.546	0.318	0.318	38.523	38.528	38.528	141.644	
0.318	0.035	0.035	38.523	38.528	38.528	160.000	
0.035	0.116	0.116	38.523	38.528	38.528	180.000	
0.116	0.147	0.147	38.523	38.528	38.528	189.676	
0.147	0.216	0.216	38.523	38.528	38.528	200.000	
0.216	0.180	0.180	38.523	38.528	38.528	209.086	
0.180	0.151	0.151	38.523	38.528	38.528	214.676	
0.151	0.061	0.061	38.523	38.528	38.528	220.000	
0.061	0.051	0.051	38.523	38.528	38.528	233.202	
0.051	0.052	0.052	38.523	38.528	38.528	239.676	
0.052	0.136	0.136	38.523	38.528	38.528	240.000	
0.136	0.201	0.201	38.523	38.528	38.528	252.202	
0.201			38.523	38.528	38.528	255.202	

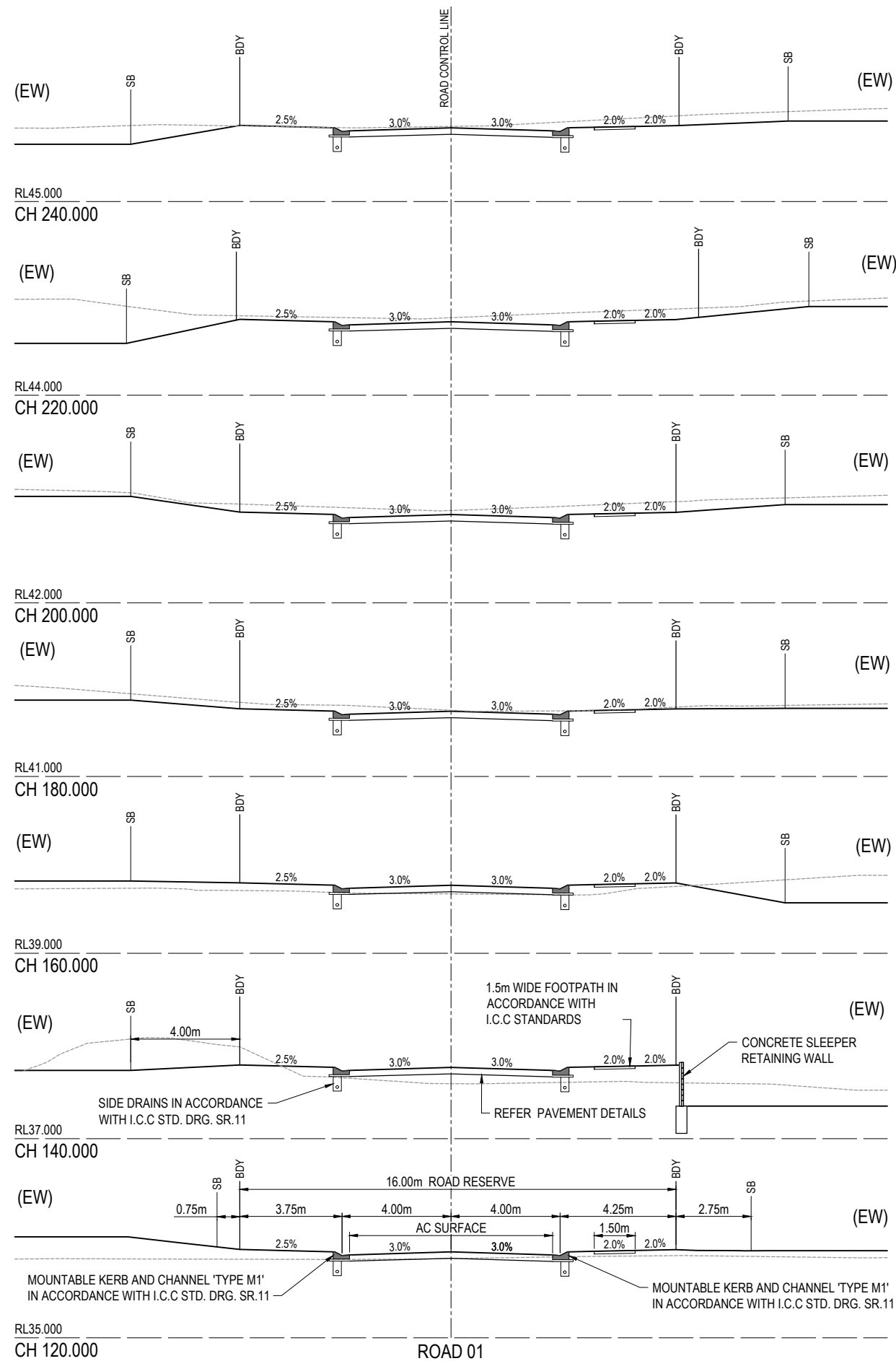
# REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 01

<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>20.08.21</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>02.03.22</td> <td>NS</td> <td>NS</td> <td>AS CONSTRUCTED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION	B	02.03.22	NS	NS	AS CONSTRUCTED	<table border="1"> <thead> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>AS CONSTRUCTED</td> <td></td> </tr> </tbody> </table>	DRAWN	STATUS	AS CONSTRUCTED		<table border="1"> <thead> <tr> <th>DESIGN</th> <th>APPROVED</th> <th>RPEQ</th> </tr> </thead> <tbody> <tr> <td>SCOTT THOMAS</td> <td></td> <td>04618</td> </tr> </tbody> </table>	DESIGN	APPROVED	RPEQ	SCOTT THOMAS		04618		<table border="1"> <thead> <tr> <th>SCALE</th> <th>1:1000</th> <th>1:2000</th> <th>1:100</th> <th>1:200</th> <th>1:100</th> <th>1:200</th> </tr> </thead> <tbody> <tr> <td>HORIZONTAL</td> <td>10 0 10 20 30 40 50 A1</td> <td>10 0 10 20 30 40 50 A3</td> <td>2 1 0 2 4 A1</td> <td>2 1 0 2 4 A1</td> <td>2 1 0 2 4 A1</td> <td>2 1 0 2 4 A3</td> </tr> <tr> <td>CROSS SECTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	SCALE	1:1000	1:2000	1:100	1:200	1:100	1:200	HORIZONTAL	10 0 10 20 30 40 50 A1	10 0 10 20 30 40 50 A3	2 1 0 2 4 A1	2 1 0 2 4 A1	2 1 0 2 4 A1	2 1 0 2 4 A3	CROSS SECTION							<table border="1"> <thead> <tr> <th>CLIENT</th> <th>PROJECT NAME</th> <th>DRAWING TITLE</th> </tr> </thead> <tbody> <tr> <td>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</td> <td>WOODLINKS VILLAGE - STAGE 22</td> <td>ROAD 01 LONGITUDINAL SECTION AND CROSS SECTIONS</td> </tr> </tbody> </table>	CLIENT	PROJECT NAME	DRAWING TITLE	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 22	ROAD 01 LONGITUDINAL SECTION AND CROSS SECTIONS	<table border="1"> <thead> <tr> <th>ASSOCIATED CONSULTANT</th> <th>PROJECT No.</th> <th>DRAWING No.</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>SAUNDERS HAVILL GROUP PH: 1300 123 744</td> <td>20-0214</td> <td>106</td> <td>B</td> </tr> </tbody> </table>	ASSOCIATED CONSULTANT	PROJECT No.	DRAWING No.	REVISION	SAUNDERS HAVILL GROUP PH: 1300 123 744	20-0214	106	B
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																																																														
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(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

SB DENOTES SETBACK LINE



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 4/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:100 1:200	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 22	ROAD 01 CROSS SECTIONS	
B	02.03.22	NS	NS	AS CONSTRUCTED							
DESIGN APPROVED SCOTT THOMAS RPEQ 04618								ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 20-0214	
FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ENQUIRIES@PEAKURBAN.COM.AU			DRAWING No. 107	REVISION B



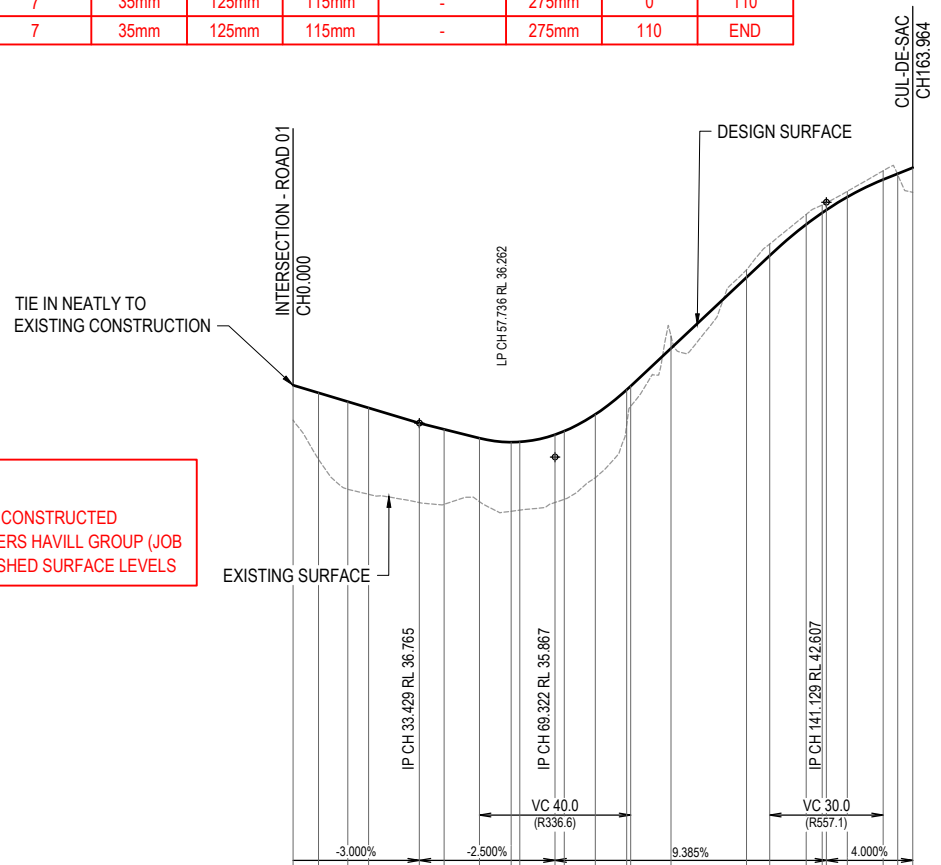
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 02	ACCESS STREET	1.0 x 10 <sup>5</sup>	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	ROADCLASS	DESIGN CBR	AC	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH	START	END
ROAD 2	A1	7	35mm	125mm	115mm	-	275mm	0	110
ROAD 2	A1	7	35mm	125mm	115mm	-	275mm	110	END



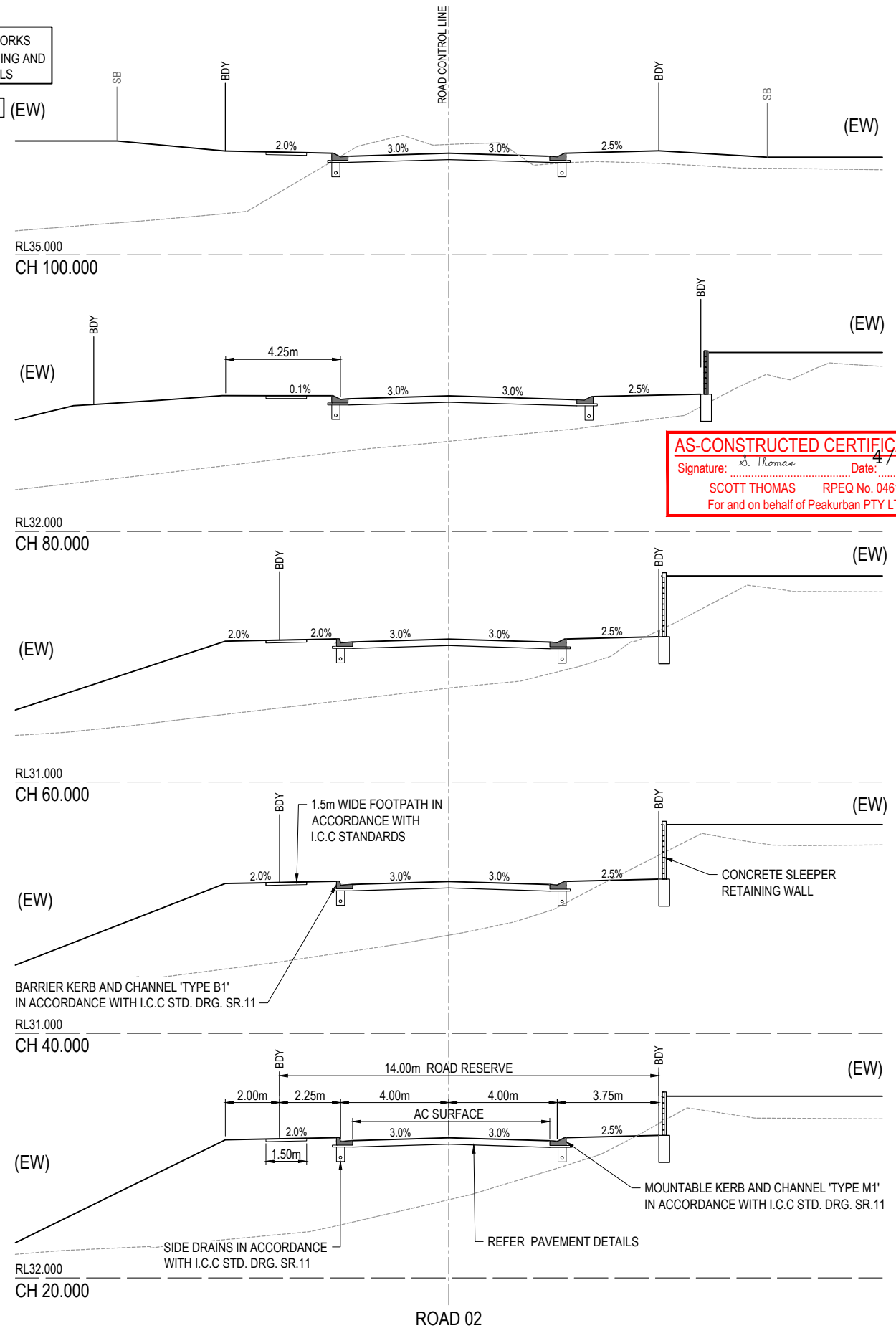
NOTE: PLEASE REFER TO SURVEYOR AS CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS

	DATUM RL 24.0																							
CUT (-) / FILL	0.923	1.764	2.317	2.284	2.101	1.981	1.675	1.827	1.804	1.794	1.806	1.678	0.935	0.537	0.325	-0.196	-0.305	-0.265	-0.206	-0.188	-0.149	-0.233	0.027	0.649
LHS LIP LEVEL	#																							
RHS LIP LEVEL	37.056	36.653	36.489	36.255	36.150	36.163	36.355	36.434	36.557	37.527	37.629	37.633	38.635	40.512	41.087	41.911	#							
DESIGN SURFACE	37.167	37.564	37.332	37.167	36.765	36.600	36.367	36.262	36.270	36.461	36.555	36.598	37.648	37.744	38.746	40.623	41.199	42.020	42.328	42.405	42.746	43.207	43.361	43.520
EXISTING SURFACE	36.845	35.801	35.015	34.883	34.664	34.619	34.692	34.435	34.465	34.667	34.749	35.321	36.713	37.208	37.071	40.820	41.504	42.285	42.534	42.593	42.896	43.440	43.335	42.870
CHAINAGES	0.000	6.771	14.513	20.000	33.429	40.000	49.322	57.736	60.000	69.322	71.790	80.000	88.284	89.322	100.000	120.000	126.129	135.765	140.000	141.129	146.646	156.129	160.000	163.964
HORIZONTAL CURVES	R14.000			R10.500									R-30.000											

# REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 02

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS  
SB DENOTES SETBACK LINE (EW)



AS-CONSTRUCTED CERTIFICATION  
Signature: S. Thomas Date: 4/3/22  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Peakurban PTY LTD

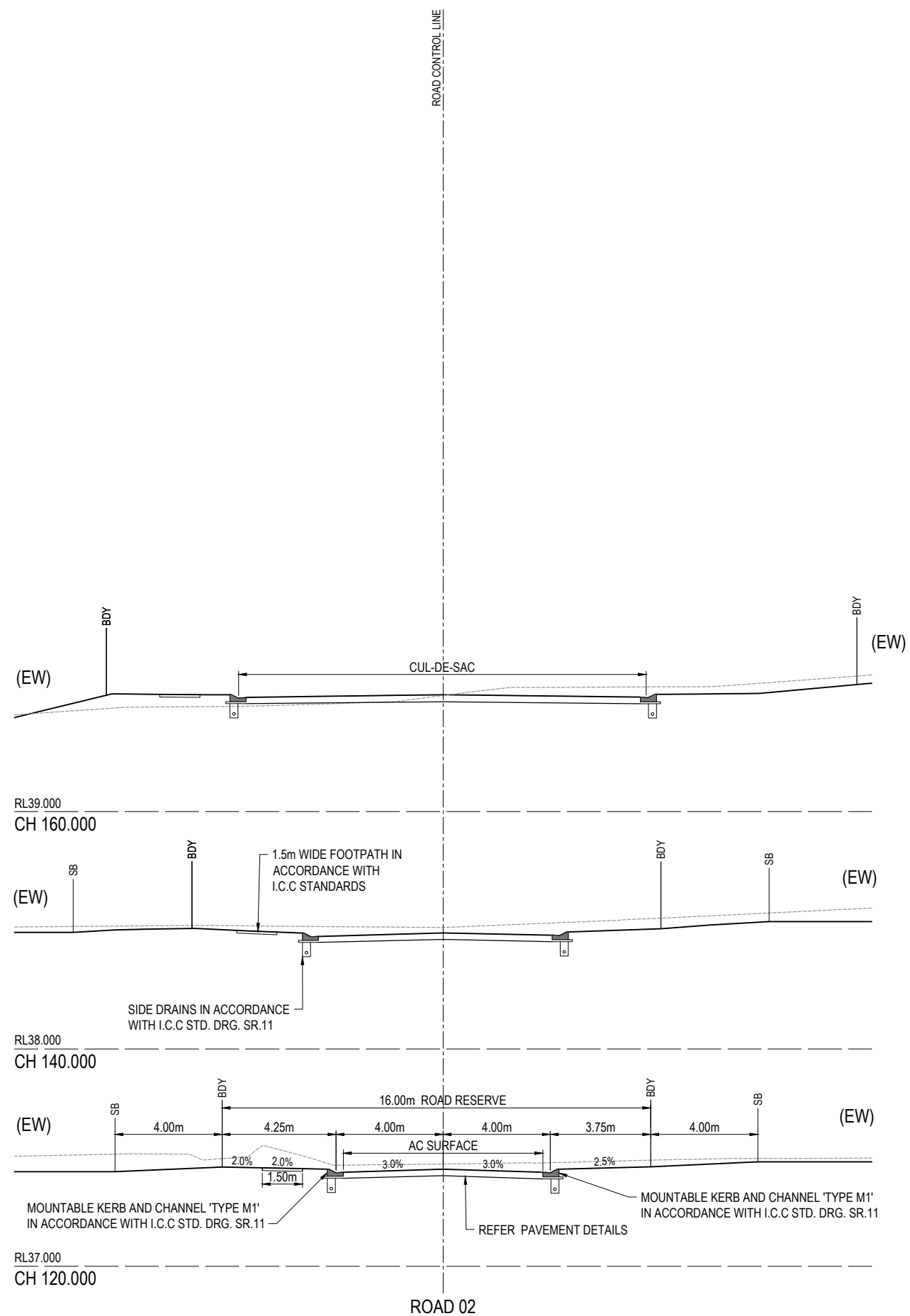
REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE								
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION				1:1000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 22	ROAD 02 LONGITUDINAL SECTION AND CROSS SECTIONS								
B	02.03.22	NS	NS	AS CONSTRUCTED				1:2000	SAUNDERS HAVILL GROUP	COLLINGWOOD DRIVE COLLINGWOOD PARK									
<p><b>AS CONSTRUCTED</b></p> <p>APPROVED: SCOTT THOMAS RPEQ 04618</p> <p>FOR AND ON BEHALF OF PEAKURBAN PTY LTD</p>								<p>PEAKURBAN</p> <p>Achieve more.</p> <p>ENQUIRIES@PEAKURBAN.COM.AU</p>		<p>SCALE</p> <p>1:1000 10 0 10 20 30 40 50 A1</p> <p>1:2000 HORIZONTAL A3</p> <p>1:100 2 1 0 2 4 A1</p> <p>1:200 VERTICAL A3</p> <p>1:100 2 1 0 2 4 A1</p> <p>1:200 CROSS SECTION A3</p>		<p>ASSOCIATED CONSULTANT</p> <p>SAUNDERS HAVILL GROUP</p> <p>PH: 1300 123 744</p>		<p>PROJECT No.</p> <p>20-0214</p>		<p>DRAWING No.</p> <p>108</p>		<p>REVISION</p> <p>B</p>	

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

SB DENOTES SETBACK LINE

**AS-CONSTRUCTED CERTIFICATION**

Signature: *S. Thomas* Date: *4/3/22*  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:100 1:200	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 22	ROAD 02 CROSS SECTIONS		
B	02.03.22	NS	NS	AS CONSTRUCTED								
DESIGN APPROVED SCOTT THOMAS RPEQ 04618							PEAKURBAN Achieve more. ENQUIRIES@PEAKURBAN.COM.AU	ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No.	DRAWING No.	REVISION
FOR AND ON BEHALF OF PEAKURBAN PTY LTD										20-0214	109	B

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 03	COLLECTOR	1.0 x 10 <sup>6</sup>	3	50mm	125mm	100mm	250mm	525mm

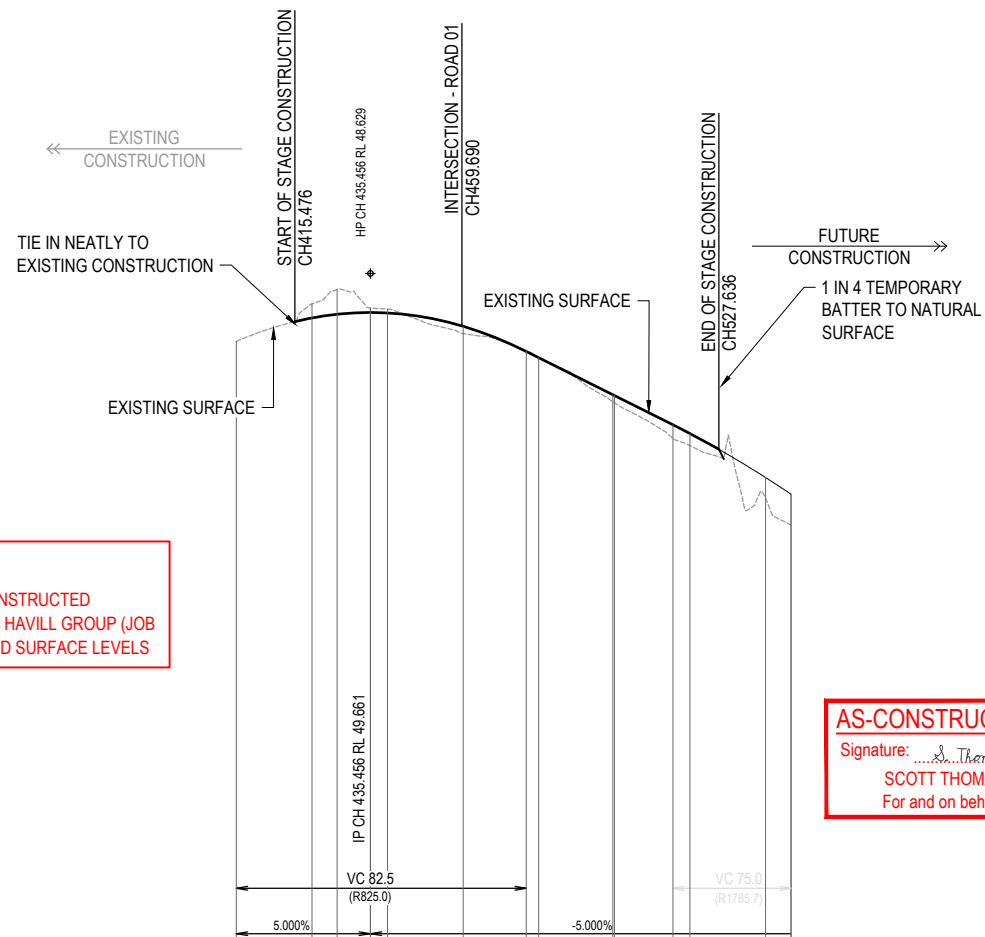
NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

SB DENOTES SETBACK LINE

AS CONSTRUCTED PAVEMENT DETAILS

ROAD	ROADCLASS	DESIGN CBR	AC	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH	START	END
ROAD 3	B	6	35mm	125mm	100mm	340mm	600mm	0	110
ROAD 3	B	10	35mm	125mm	100mm	-	260mm	110	END



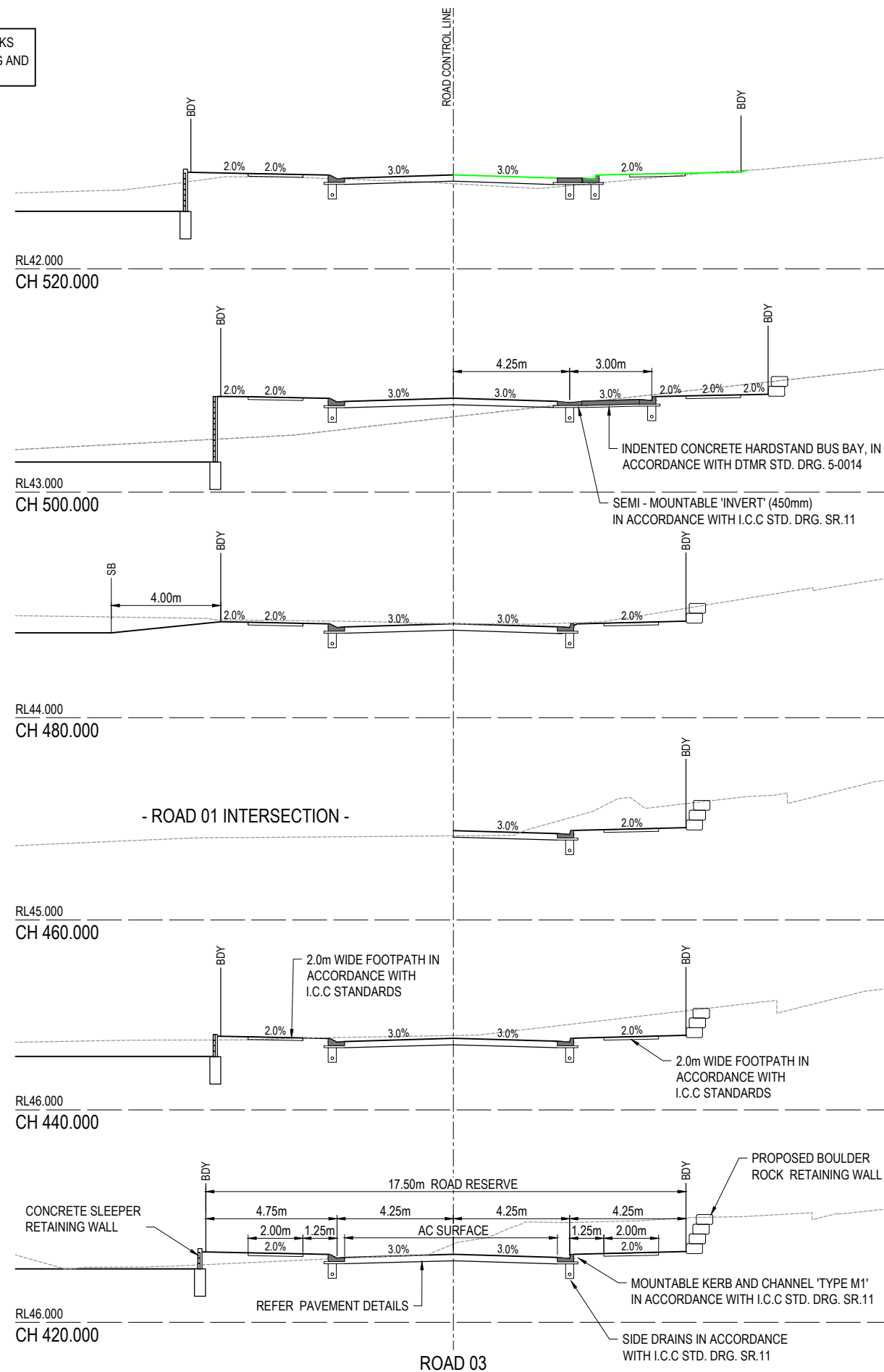
NOTE: PLEASE REFER TO SURVEYOR AS CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 1/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

DATUM RL 31.0	
CUT (-) / FILL	-0.374 -0.656 -0.115 -0.115 -0.102 0.190 0.020 0.001 0.184 0.192 0.351 0.318 0.950 0.823 0.923
LHS LIP LEVEL	# 48.463 48.510 48.510 48.498 48.145 47.479 47.314 46.335 46.314 45.539 45.309 45.309 45.323 45.517 45.517
RHS LIP LEVEL	48.365 48.463 48.510 48.510 48.498 48.145 47.479 47.314 46.335 46.314 45.539 45.309 45.309 45.323 45.517
DESIGN SURFACE	48.485 48.583 48.629 48.629 48.617 48.264 47.598 47.434 46.454 46.434 45.659 45.428 44.285 43.824 43.824
EXISTING SURFACE	48.859 49.238 48.745 48.745 48.719 48.074 47.619 47.433 46.271 46.242 45.308 45.110 43.715 43.001 43.001
CHAINAGES	420.000 426.670 435.456 435.456 440.000 460.000 476.706 480.000 499.590 500.000 515.500 520.000 540.000 546.732 546.732
HORIZONTAL CURVES	R-200.000 R-200.000 R-90.000

# REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 03



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION
B	02.03.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	AS CONSTRUCTED
DESIGN APPROVED SCOTT THOMAS	RPEQ 04618

**PEAKURBAN**  
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 ENQUIRIES@PEAKURBAN.COM.AU

SCALE  
 1:1000 10 0 10 20 30 40 50 A1  
 1:2000 HORIZONTAL A3  
 1:100 2 1 0 2 4 A1  
 1:200 VERTICAL A3  
 1:100 2 1 0 2 4 A1  
 1:200 CROSS SECTION A3

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

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**  
 COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

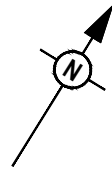
DRAWING TITLE  
**ROAD 03 LONGITUDINAL SECTION AND CROSS SECTIONS**  
 PROJECT No. 20-0214  
 DRAWING No. 110  
 REVISION B

**WARNING! - EXISTING SERVICES**

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.



**LEGEND**

- PROPOSED ROAD CONTROL LINE
- PROPOSED KERB INVERT LINE
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED KERB SETOUT NODE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED NEW CONCRETE HARDSTAND
- ▲ INDICATIVE DRIVEWAY LOCATION
- - - - - PROPOSED PAVEMENT CONTOUR (0.2m INTERVAL)
- PROPOSED KERB SETOUT LINE
- SP --- PROPOSED KERB SETOUT START POINT
- TP --- PROPOSED KERB SETOUT TANGENT POINT
- EP --- PROPOSED KERB SETOUT END POINT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED SWALE
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SEWERAGE MAIN
- PROPOSED WATER MAIN
- PROPOSED WATER CONDUIT

**KERB TYPES NOTE:**

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

**KERB SETOUT**

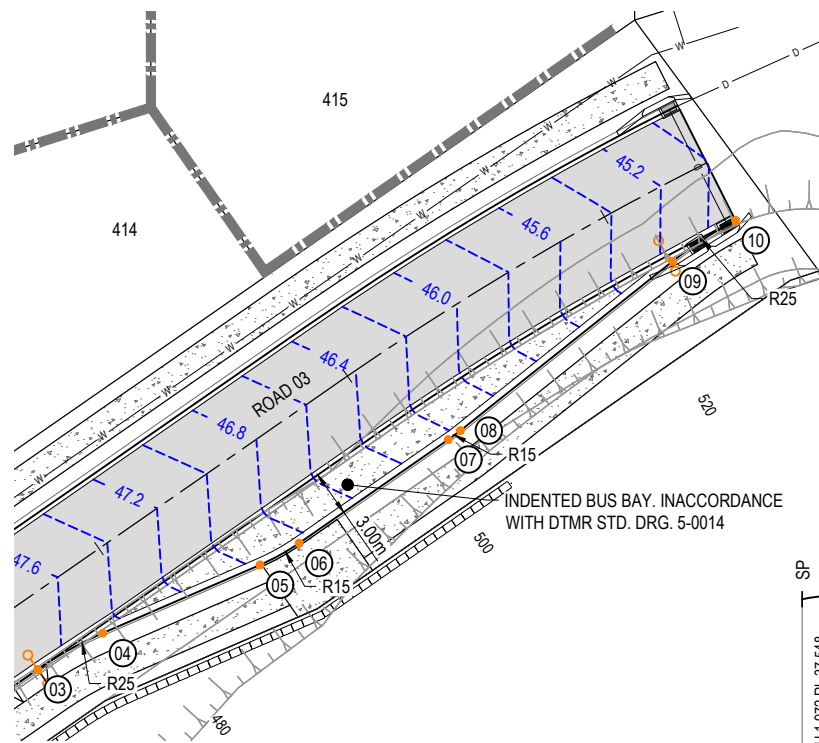
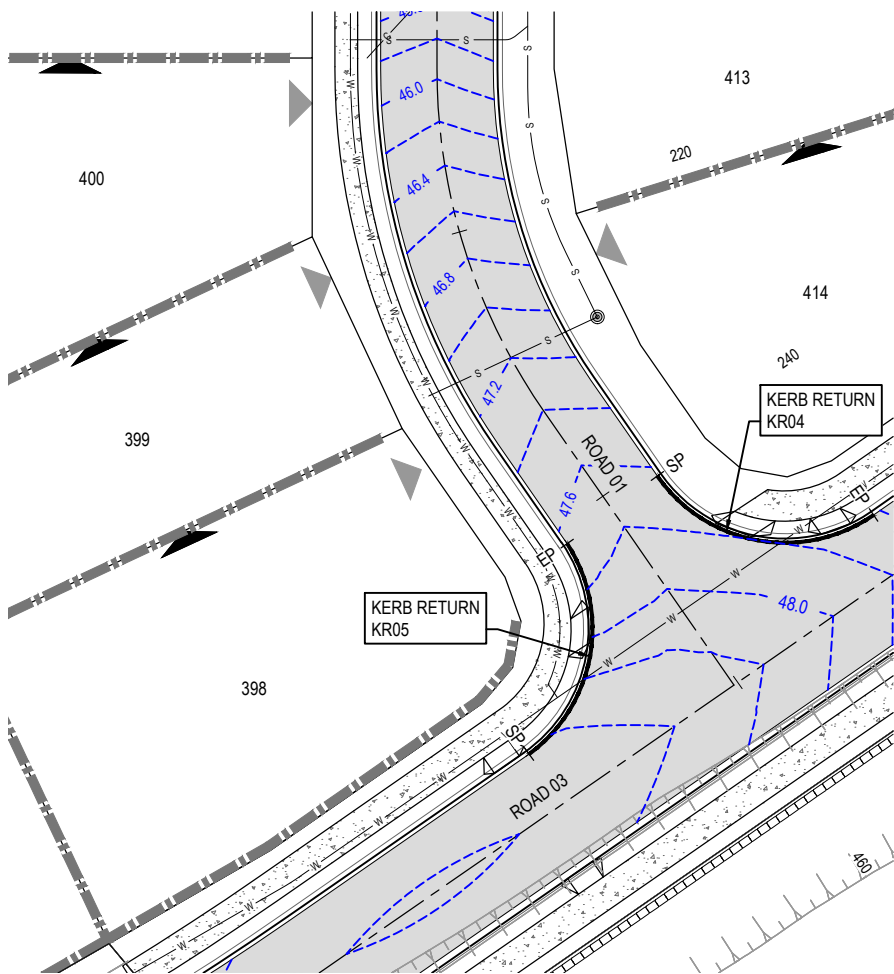
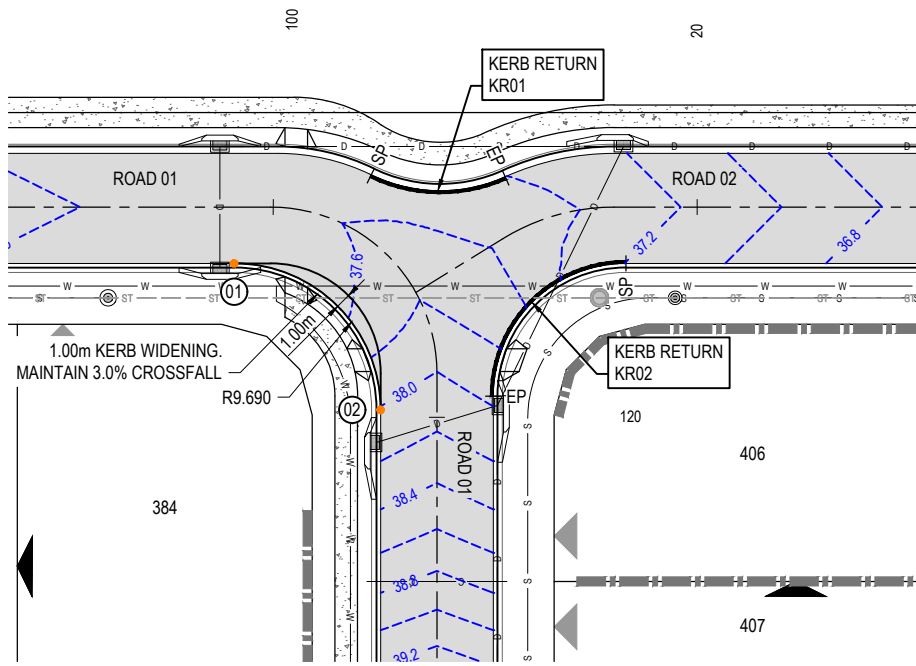
POINT No.	EASTING	NORTHING
01	6091.193	4121.371
02	6104.543	4118.291
03	6202.215	4029.907
04	6203.192	4032.182
05	6211.867	4044.781
06	6217.429	4057.629
07	6221.403	4072.247
08	6223.019	4075.128

**AS-CONSTRUCTED CERTIFICATION**

Signature: *Scott Thomas* Date: 17/3/22  
**SCOTT THOMAS RPEQ No. 04618**  
 For and on behalf of Peakurban PTY LTD

**NOTE:**

PLEASE REFER TO SURVEYOR AS CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS



**DATUM RL 36.0**

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
37.508	4131.013	6096.373	0.000	R-8.000
37.530	4131.352	6098.310	1.972	
37.530	4131.428	6098.548	2.222	
37.528	4131.714	6099.271	3.000	
37.517	4132.153	6100.107	3.945	
37.478	4133.369	6101.1654	5.917	
37.476	4133.428	6101.1712	6.000	
37.426	4134.925	6102.857	7.889	

**RL 35.0**

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
37.197	4135.104	6113.170	0.000	R-8.775
37.317	4133.114	6110.944	3.000	
37.327	4132.959	6110.924	3.196	
37.497	4130.493	6109.514	6.000	
37.525	4130.120	6109.396	6.392	
37.702	4127.545	6109.046	9.000	
37.739	4126.958	6109.073	9.588	
37.876	4124.610	6109.993	12.000	
37.916	4123.888	6109.898	12.784	
37.966	4123.012	6110.378	13.784	

**RL 46.0**

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
47.628	4029.211	6181.783	0.000	R-10.275
47.727	4028.444	6184.672	3.000	
47.752	4028.379	6185.704	4.035	
47.785	4028.541	6187.660	6.000	
47.800	4029.110	6189.946	8.070	
47.801	4029.282	6190.652	8.511	
47.800	4029.493	6190.493	9.000	
47.764	4031.221	6192.933	12.000	
47.762	4031.294	6193.068	12.105	
47.673	4033.578	6194.771	15.000	
47.624	4034.599	6195.278	16.140	

**RL 46.0**

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
48.447	4068.870	6184.230	0.000	R-10.275
48.374	4011.760	6184.997	3.000	
48.333	4012.792	6185.063	4.035	
48.232	4014.747	6184.901	6.000	
48.093	4016.734	6184.332	8.070	
48.025	4017.581	6183.948	9.000	
47.831	4020.020	6182.220	12.000	
47.825	4020.096	6182.147	12.105	
47.677	4021.859	6179.863	15.000	
47.628	4022.366	6178.843	16.140	

**KR01**

**KR02**

**KR04**

**KR05**

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION
B	02.03.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
<b>AS CONSTRUCTED</b>	

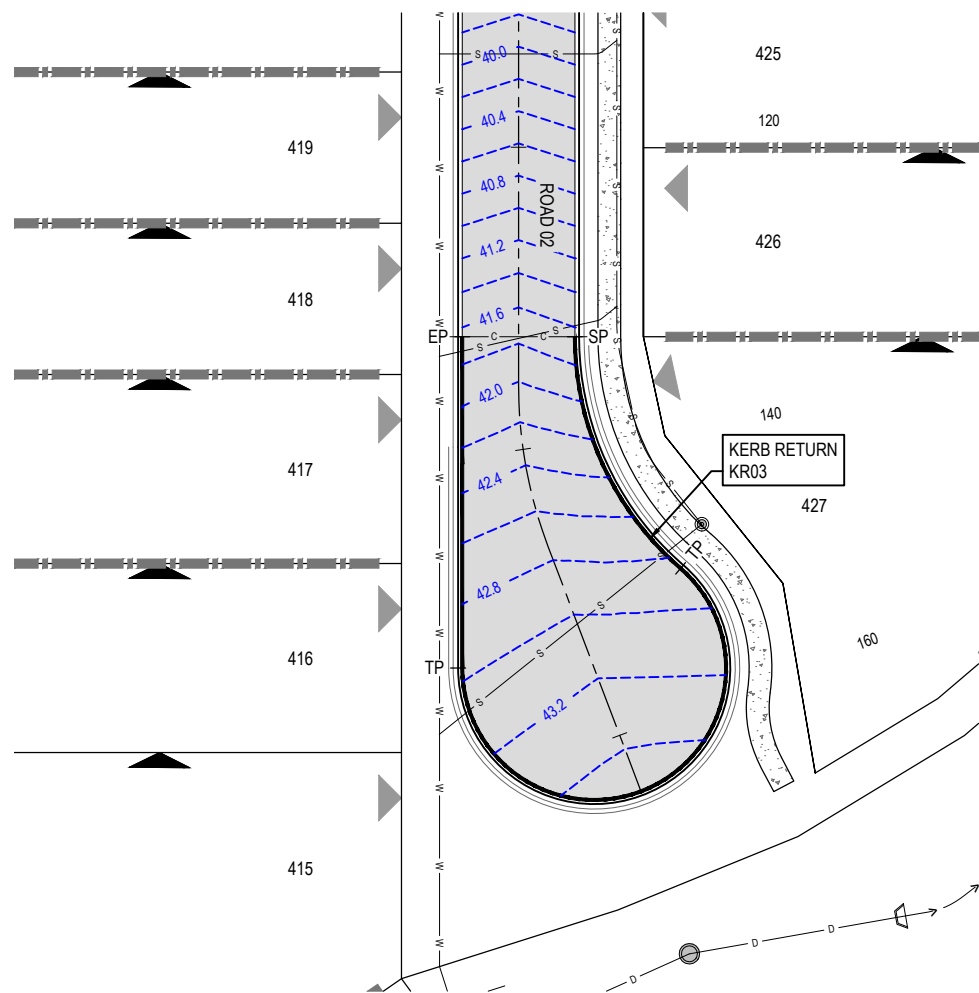
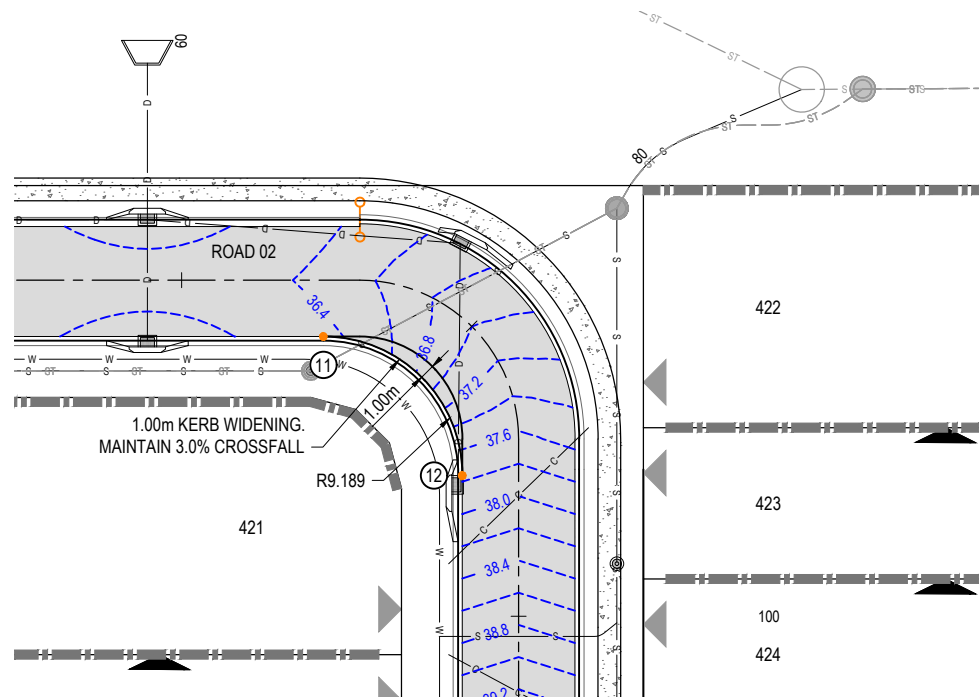
**PEAKURBAN**  
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 ENQUIRIES@PEAKURBAN.COM.AU

SCALE  
 1:250 5 0 5 10 A1  
 1:500 5 0 5 10 A3  
 1:250 5 0 5 10 A1  
 1:500 5 0 5 10 A3  
 1:25 HORIZONTAL 0 0.25 0.5 0.75 1 1.25 A1  
 1:50 VERTICAL A3

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

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**  
 COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE  
**INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2**  
 PROJECT No. **20-0214**  
 DRAWING No. **111**  
 REVISION **B**



**KERB SETOUT**

POINT No.	EASTING	NORTHING
11	6159.037	4163.765
12	6171.699	4160.841

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

**WARNING! - EXISTING SERVICES**  
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:

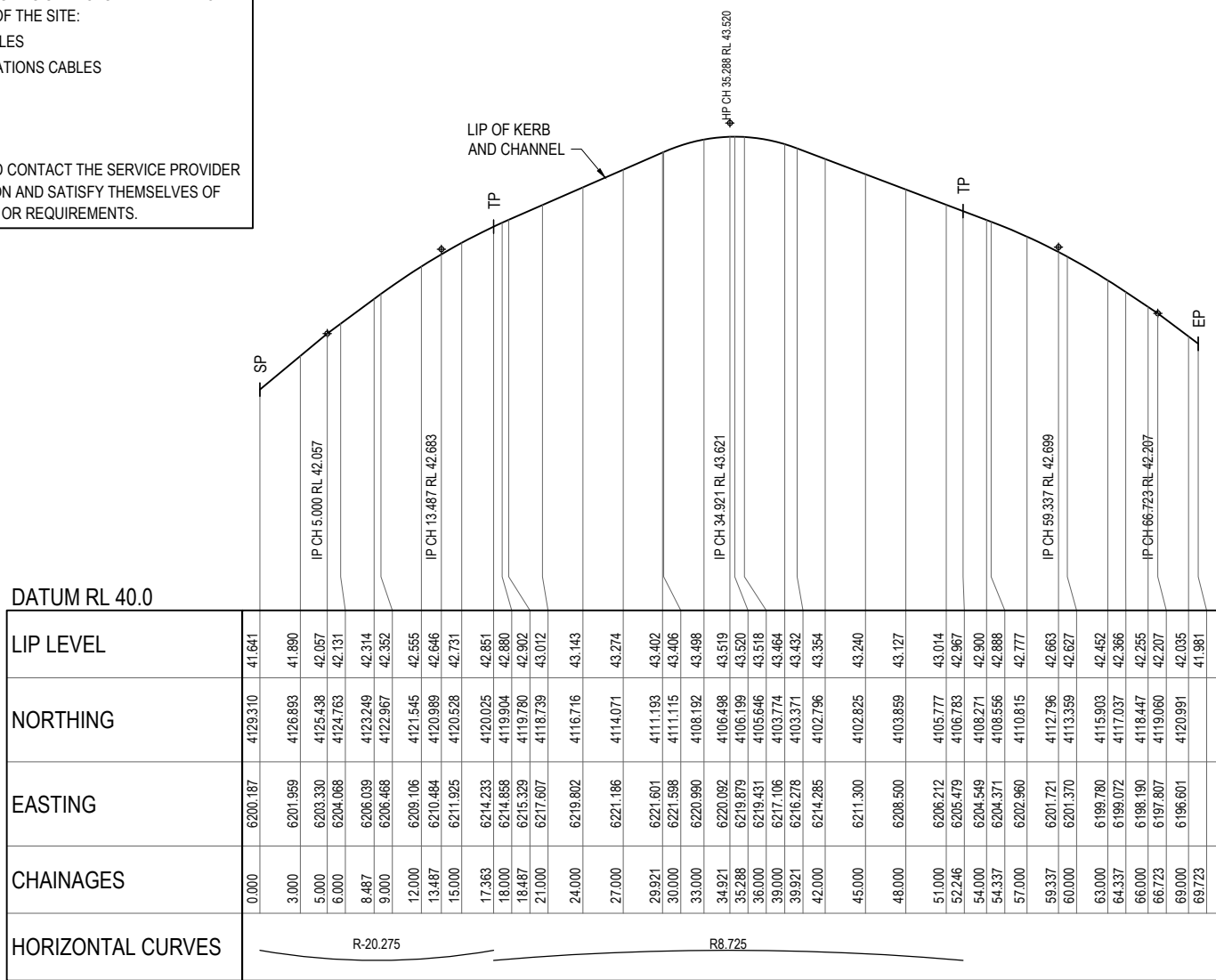
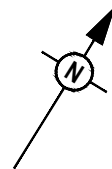
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

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

**AS-CONSTRUCTED CERTIFICATION**

Signature: *S. Thomas* Date: 4/3/22  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Peakurban PTY LTD

**NOTE:**  
PLEASE REFER TO SURVEYOR AS CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL GROUP (JOB NUMBER 6777 S 52 AC A) FOR FINISHED SURFACE LEVELS



DATUM RL 40.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
41.641	4129.310	6200.187	0.000	
41.890	4126.893	6201.959	3.000	
42.057	4125.438	6203.330	5.000	
42.131	4124.763	6204.068	6.000	
42.314	4123.249	6206.039	8.487	
42.352	4122.967	6206.468	9.000	
42.555	4121.545	6209.106	12.000	
42.646	4120.989	6210.484	13.487	
42.731	4120.528	6211.925	15.000	
42.851	4120.025	6214.233	17.363	
42.880	4119.904	6214.858	18.000	
42.902	4119.780	6215.329	18.487	
43.012	4118.739	6217.607	21.000	
43.143	4116.716	6219.802	24.000	
43.274	4114.071	6221.186	27.000	
43.402	4111.193	6221.601	29.921	
43.406	4111.115	6221.598	30.000	
43.498	4108.192	6220.990	33.000	
43.519	4106.498	6220.092	34.921	
43.520	4106.199	6219.879	35.288	
43.518	4105.646	6219.431	36.000	
43.464	4103.774	6217.106	39.000	
43.432	4103.371	6216.278	39.921	
43.354	4102.796	6214.285	42.000	
43.240	4102.825	6211.300	45.000	
43.127	4103.859	6208.500	48.000	
43.014	4105.777	6206.212	51.000	
42.967	4106.783	6205.479	52.246	
42.900	4108.271	6204.549	54.000	
42.888	4108.556	6204.371	54.337	
42.777	4110.815	6202.960	57.000	
42.663	4112.796	6201.721	59.337	
42.627	4113.359	6201.370	60.000	
42.452	4115.903	6199.780	63.000	
42.366	4117.037	6199.072	64.337	
42.265	4118.447	6198.190	66.000	
42.207	4119.060	6197.807	66.723	
42.035	4120.991	6196.601	69.000	
41.981	4120.991	6196.601	69.723	

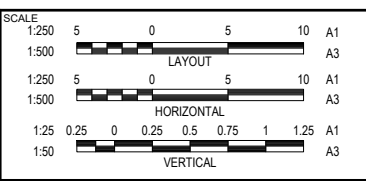
KR03

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION
B	02.03.22	NS	NS	AS CONSTRUCTED

**AS CONSTRUCTED**

DESIGN APPROVED  
SCOTT THOMAS RPEQ 04618

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



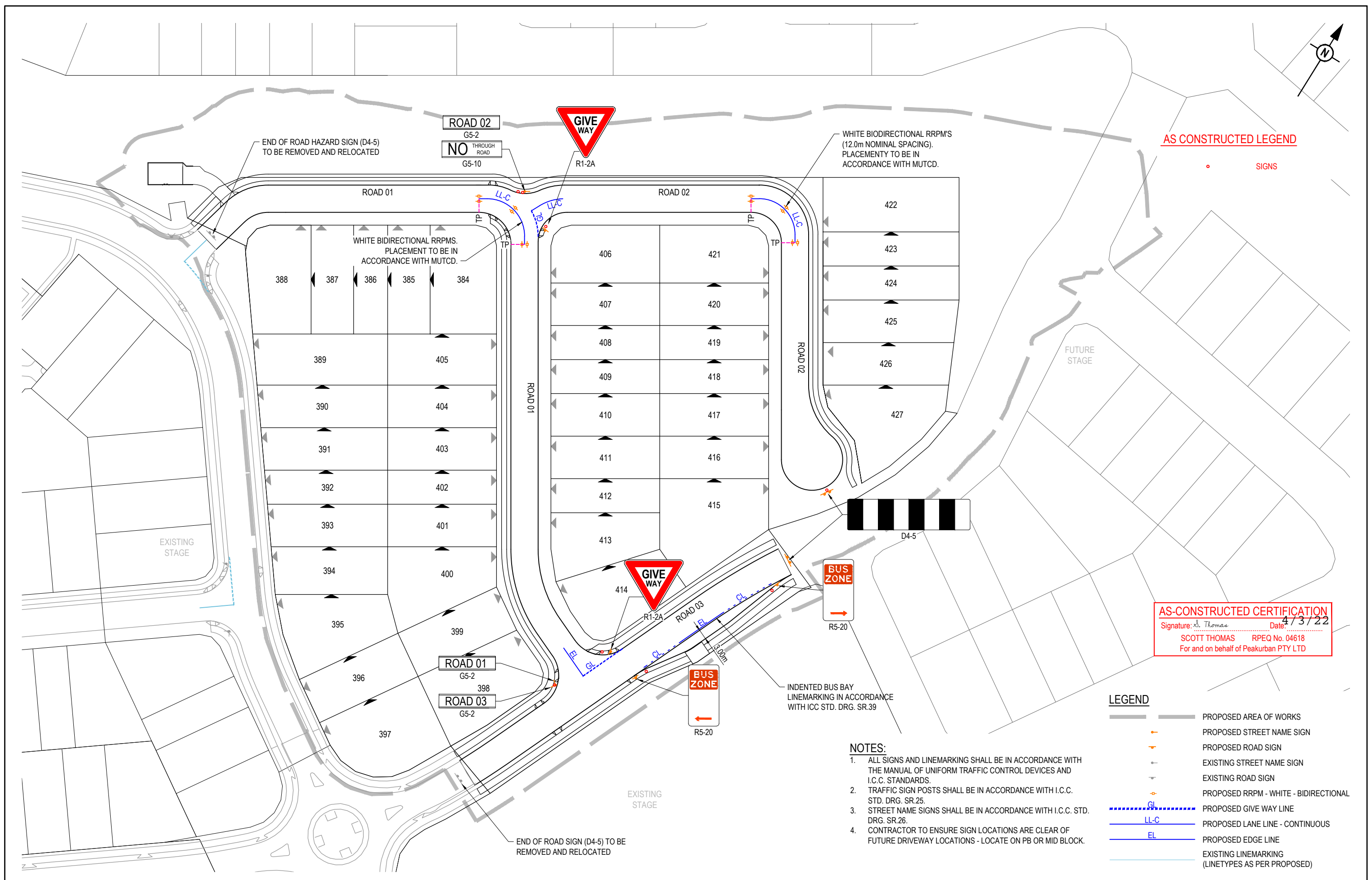
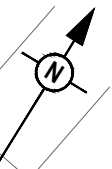
CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**

ASSOCIATED CONSULTANT  
SAUNDERS HAVILL GROUP  
PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**

COLLINGWOOD DRIVE  
COLLINGWOOD PARK

DRAWING TITLE		
<b>INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2</b>		
PROJECT No.	DRAWING No.	REVISION
<b>20-0214</b>	<b>112</b>	<b>B</b>



**AS CONSTRUCTED LEGEND**

• SIGNS

**AS-CONSTRUCTED CERTIFICATION**

Signature: *S. Thomas* Date: *4/3/22*  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**LEGEND**

- PROPOSED AREA OF WORKS
- PROPOSED STREET NAME SIGN
- PROPOSED ROAD SIGN
- EXISTING STREET NAME SIGN
- EXISTING ROAD SIGN
- PROPOSED RRPM - WHITE - BIDIRECTIONAL
- PROPOSED GIVE WAY LINE
- PROPOSED LANE LINE - CONTINUOUS
- PROPOSED EDGE LINE
- EXISTING LINEMARKING (LINETYPES AS PER PROPOSED)

**NOTES:**

1. ALL SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND I.C.C. STANDARDS.
2. TRAFFIC SIGN POSTS SHALL BE IN ACCORDANCE WITH I.C.C. STD. DRG. SR.25.
3. STREET NAME SIGNS SHALL BE IN ACCORDANCE WITH I.C.C. STD. DRG. SR.26.
4. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF FUTURE DRIVEWAY LOCATIONS - LOCATE ON PB OR MID BLOCK.

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION	
B	02.03.22	NS	NS	AS CONSTRUCTED	

STATUS	<b>AS CONSTRUCTED</b>
DESIGN	APPROVED SCOTT THOMAS RPEQ 04618
FOR AND ON BEHALF OF PEAKURBAN PTY LTD	

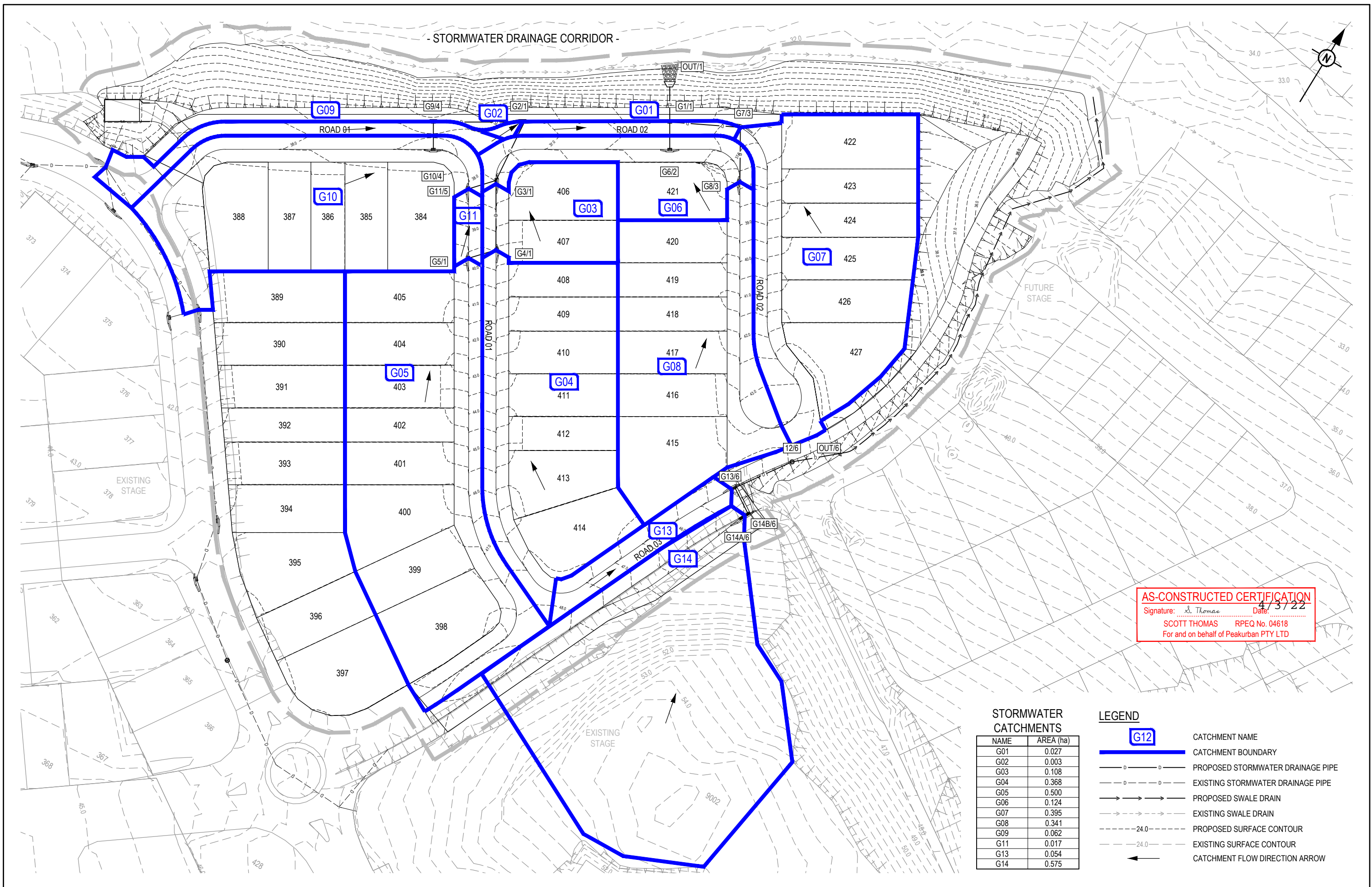
**PEAKURBAN**  
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 ENQUIRIES@PEAKURBAN.COM.AU

SCALE  
 1:500 10 5 0 10 20 A1  
 1:1000

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

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**  
 COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE <b>SIGNS AND LINEMARKING LAYOUT PLAN</b>		
PROJECT No. <b>20-0214</b>	DRAWING No. <b>113</b>	REVISION <b>B</b>



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: *4/3/22*  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**STORMWATER CATCHMENTS**

NAME	AREA (ha)
G01	0.027
G02	0.003
G03	0.108
G04	0.368
G05	0.500
G06	0.124
G07	0.395
G08	0.341
G09	0.062
G11	0.017
G13	0.054
G14	0.575

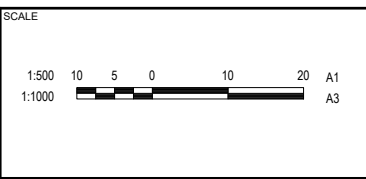
**LEGEND**

<span style="border: 1px solid blue; padding: 2px;">G12</span>	CATCHMENT NAME
<span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span>	CATCHMENT BOUNDARY
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED SWALE DRAIN
	EXISTING SWALE DRAIN
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	CATCHMENT FLOW DIRECTION ARROW

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION
B	02.03.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
	<b>AS CONSTRUCTED</b>
DESIGN	APPROVED
	SCOTT THOMAS RPEQ 04618

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**

COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE  
**STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN**

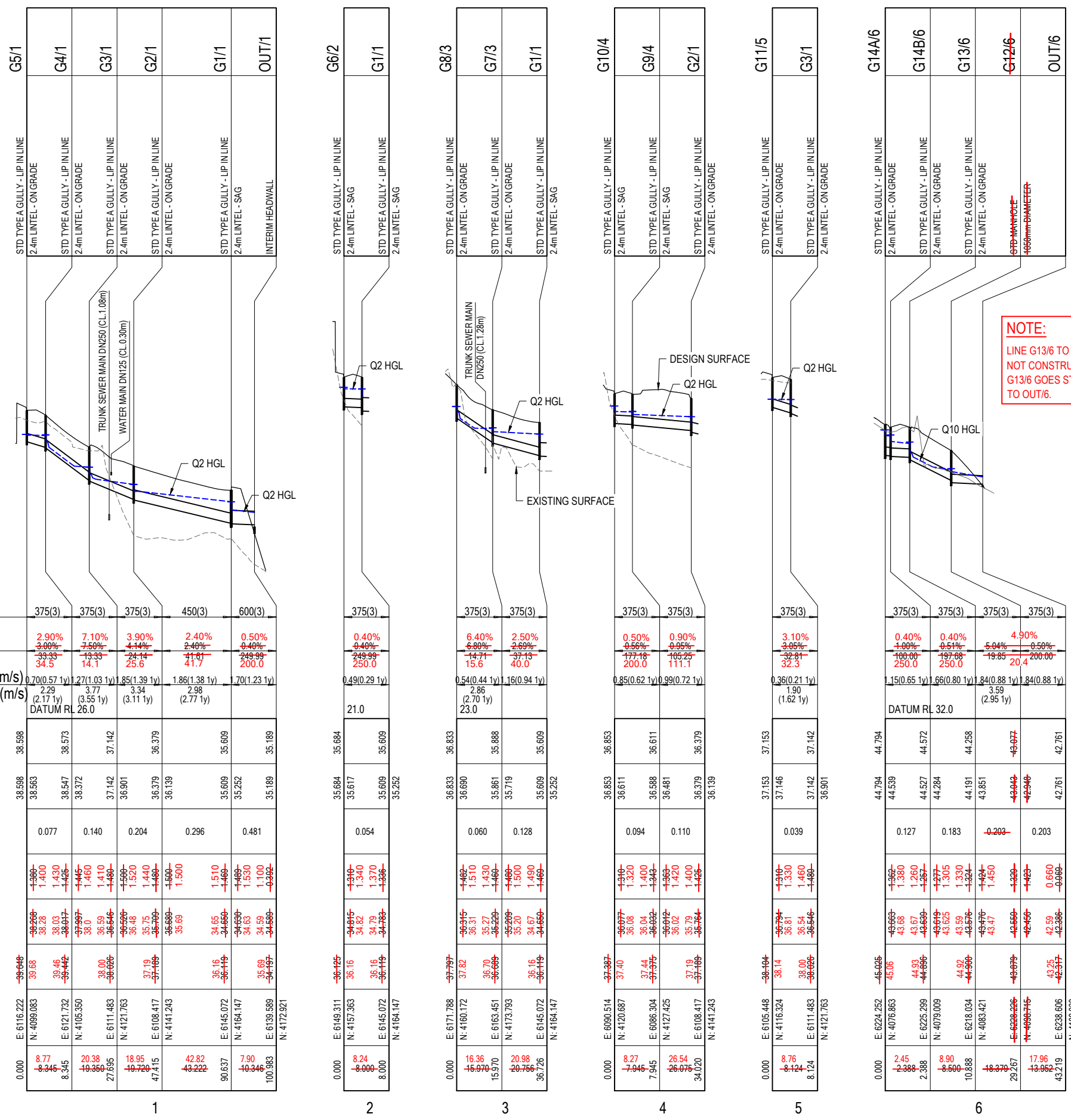
PROJECT No.	DRAWING No.	REVISION
20-0214	114	B

STRUCTURE NAME
STRUCTURE DESCRIPTION

**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 PEAK URBAN 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 SIZEmm (Class)  
 PIPE GRADE %  
 PIPE SLOPE 1 in X  
 FULL PIPE FLOW VELOCITY (m/s)  
 PART FULL FLOW VELOCITY (m/s)

WATER LEVEL IN STRUCTURE
HYDRAULIC GRADE LEVEL
PIPE FLOW (Cumecs)
DEPTH TO INVERT
INVERT LEVEL OF DRAIN
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE



STRUCTURE SETOUT REFERENCE POINT		
STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	☉ MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	☉ INTERSECTION OF 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: *S. Thomas* Date: 4/3/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**NOTE:**  
 LINE G13/6 TO G12/6 WAS NOT CONSTRUCTED. G13/6 GOES STRAIGHT TO OUT/6.

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> <tr> <td>A</td> <td>20.08.21</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>02.03.22</td> <td>NS</td> <td>NS</td> <td>AS CONSTRUCTED</td> </tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION	B	02.03.22	NS	NS	AS CONSTRUCTED	<table border="1"> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> <tr> <td>AS CONSTRUCTED</td> <td></td> </tr> </table>	DRAWN	STATUS	AS CONSTRUCTED			<p>SCALE</p> <p>1:1000 10 0 10 20 30 40 50 A1      1:2000 HORIZONTAL A3</p> <p>1:100 2 1 0 2 4 A1      1:200 VERTICAL A3</p>	<p>CLIENT</p> <p><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT      SAUNDERS HAVILL GROUP      PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p><b>WOODLINKS VILLAGE - STAGE 22</b></p> <p>COLLINGWOOD DRIVE      COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p><b>STORMWATER DRAINAGE LONGITUDINAL SECTIONS</b></p> <p>PROJECT No. <b>20-0214</b> DRAWING No. <b>115</b> REVISION <b>B</b></p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																					
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION																					
B	02.03.22	NS	NS	AS CONSTRUCTED																					
DRAWN	STATUS																								
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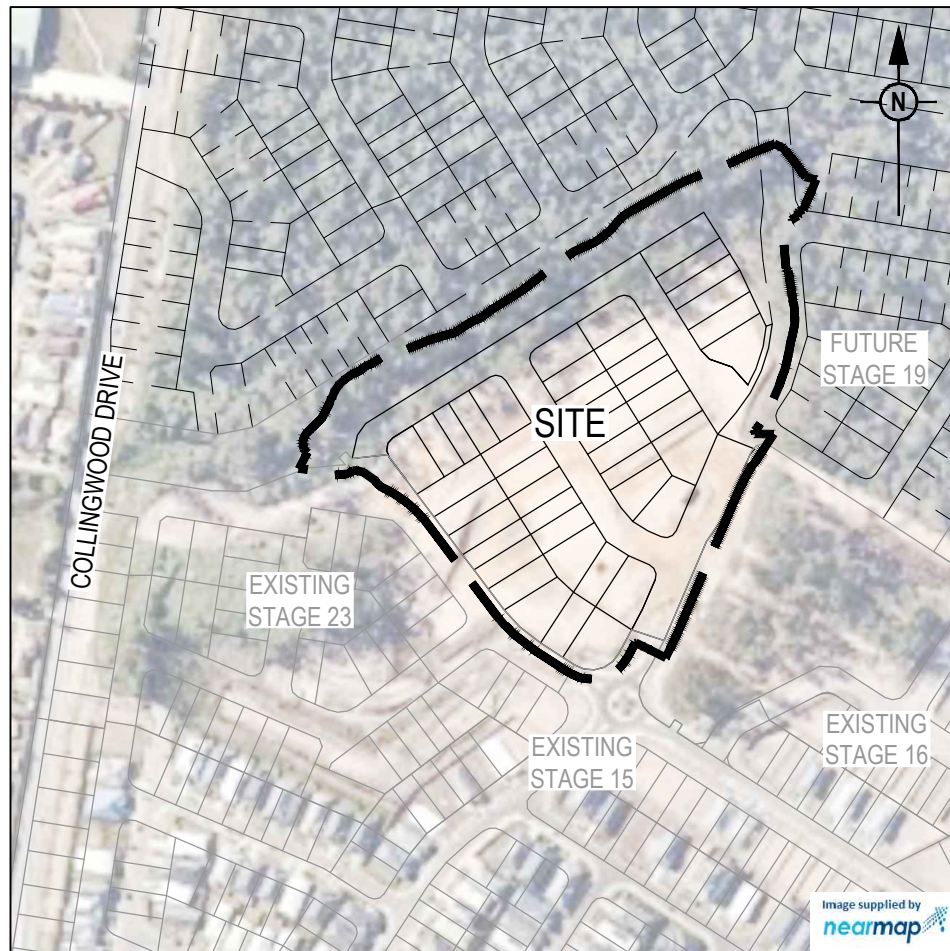


DESIGNER	LOCATION				TIME			SUB-CATCHMENT RUNOFF					INLET DESIGN					DRAIN DESIGN										HEADLOSSES							PART FULL				DESIGN LEVELS					
	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	%	min	mm/h	C10	C	A	C*A	+CA	Q	Qg	Qb	tc	I	+CA	Qt	Qm	Qs	Qp	L	S	V	T	V2/2g	Ku	hu	Kl	hl	Kw	hw	Sf	hf	Vp	OBVERT LEVELS	DRAIN SECTION H.G.L	UPSTREAM H.G.L	LAT. H.G.L	W.S.E.	SURFACE OR K&C INVERT LEVEL	STRUCTURE No.	
2100	G5/1	G5/1 to G4/1	G5		10.00	112	0.85	0.72	0.500	0.360	0.360	112	112	9.50	557	1	77	0.360	354									0.025	1.00	0.035		1.00	0.035	0.20	0.016	0.129	2.29	38.643	38.563	38.598	38.598	38.648	G5/1	
2100	G4/1	G4/1 to G3/1	G5,G4		10.00	112	0.85	0.72	0.368	0.265	0.368	82	82	8.45	526	1	64	0.265	612									0.082	2.12	0.175		2.44	0.201	0.64	0.124	0.139	3.77	38.372	38.372	38.547	38.547	38.573	39.442	G4/1
2100	G10/4	G10/4 to G9/4	G10		7.00	130	0.85	0.72	0.362	0.261	0.362	94	94	0.00	284	1	94	0.261	295									0.037	6.58	0.242		6.58	0.242	0.29	0.023	0.129	2.29	36.452	36.611	36.853	36.853	37.387	G10/4	
2100	G9/4	G9/4 to G2/1	G10,G9		7.00	130	0.85	0.72	0.062	0.045	0.062	16	16	0.00	282	1	16	0.045	343									0.050	2.14	0.107		2.59	0.130	0.39	0.102	0.091	1.90	36.387	36.481	36.588	36.611	37.375	G9/4	
2100	G11/5	G11/5 to G3/1	G11		5.00	146	0.85	0.72	0.017	0.012	0.017	5	39	5.61	428	1	39	0.012	15									0.007	1.00	0.007		1.00	0.007	0.05	0.004	0.091	1.90	37.169	37.146	37.153	38.104	G11/5		
2100	G3/1	G3/1 to G2/1	G5,G4,G11,G3		6.00	137	0.85	0.72	0.108	0.078	0.108	30	48	5.39	420	1	45	0.078	692									0.174	1.38	0.241		1.38	0.241	1.36	0.269	0.204	3.34	36.901	36.901	37.142	38.026	G3/1		
2100	G2/1	G2/1 to G1/1	G10,G9,G5,G4,G11,G3,G2		5.00	146	0.85	0.72	0.003	0.002	0.003	1	1	3.00	364	4	1	0.002	986									0.176	1.36	0.240		1.36	0.240	1.08	0.466	0.269	2.98	36.139	36.139	36.379	36.379	37.189	G2/1	
2100	G8/3	G8/3 to G7/3	G8		10.00	112	0.85	0.72	0.341	0.246	0.341	77	77	9.66	562	1	60	0.246	242									0.015	9.65	0.143		9.65	0.143	0.12	0.019	0.092	2.86	36.690	36.690	36.833	36.833	37.797	G8/3	
2100	G7/3	G7/3 to G1/1	G8,G7		10.00	112	0.85	0.72	0.395	0.284	0.395	88	88	3.66	346	1	69	0.284	517									0.069	2.06	0.142		2.46	0.169	0.53	0.110	0.092	2.86	35.584	35.719	35.861	35.888	36.689	G7/3	
2100	G6/2	G6/2 to G1/1	G6		6.00	137	0.85	0.72	0.124	0.089	0.124	34	54	0.00	330	1	54	0.089	106									0.012	5.55	0.067		5.55	0.067	0.09	0.008	0.092	2.86	35.190	35.617	35.684	35.684	36.125	G6/2	
2100	G1/1	G1/1 to OUT/1	G10,G9,G5,G4,G11,G3,G2,G8,G7,G6,G1		5.00	146	0.85	0.72	0.029	0.021	0.029	9	28	0.00	317	1	28	0.021	1578									0.147	2.42	0.357		2.42	0.357	0.61	0.063	0.092	2.86	35.230	35.189	35.609	35.609	36.119	G1/1	
10100	G14/6	G14/6 to G18/6	G14		10.00	164	0.85	0.85	0.575	0.489	0.575	223	223	5.25	0	1	127	0.489	407									0.067	3.77	0.255		3.77	0.255	0.52	0.012	0.129	2.29	44.038	44.539	44.794	44.794	45.025	G14/6	
10100	G14/6	G14/6 to G13/6	G14,G14B		5.00	211	0.85	0.85	0.001	0.001	0.001	1	97	5.73	433	1	73	0.001	408									0.140	1.73	0.243		2.05	0.288	1.09	0.093	0.129	2.29	43.994	44.284	44.527	44.527	44.896	G14/6	
10100	G13/6	G13/6 to G12/6	G14,G14B,G13		5.00	211	0.85	0.85	0.055	0.046	0.055	27	27	5.54	426	1	27	0.046	445									0.173	1.97	0.340		2.36	0.407	1.34	0.246	0.191	3.59	43.851	43.851	44.191	44.258	44.900	G13/6	
10100	G12/6	G12/6 to OUT/6	G14,G14B,G13		10.00	164	0.85	0.85	0.536	0.442	0.536	223	223	5.25	0	1	127	0.442	407									0.173	0.55	0.095		0.75	0.129	1.34	0.187	0.129	2.29	42.831	42.948	43.043	43.077	43.879	G12/6	

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 4/3/22  
**SCOTT THOMAS RPEQ No. 04618**  
 For and on behalf of Peakurban Pty Ltd

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	20.08.21	CL	CL	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED		CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 22	STORMWATER DRAINAGE CALCULATIONS TABLE
B	02.03.22	NS	NS	AS CONSTRUCTED					SAUNDERS HAVILL GROUP	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 20-0214
									PH: 1300 123 744		DRAWING No. 116
											REVISION B





**LOCALITY PLAN**

1:2000 (A1)  
1:4000 (A3)

NAME OF ESTATE	WOODLINKS STAGE 22	
SUBDIVIDER	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	
URBAN UTILITIES APPLICATION No.	21-PNT-51505	
URBAN UTILITIES APPROVAL DATE	05.07.21	
DRAWING/PLAN No.	20-0214-300-303	
No. OF ALLOTMENTS	44	
AREA	3.59 ha	
LENGTH OF SEWERS	DN110 PE100	-116m 105m
	DN160 PE100	-418m 416m

**ENVIRONMENTAL CONDITIONS**

**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.

**SOIL**

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

**CREEK CROSSINGS**

- 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.

**REHABILITATION**

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

**GENERAL NOTES:**

- 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.
- 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 THERE TO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
- ALL DESIGN AND CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
- THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- 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.
- 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.
- 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.
- 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.
- 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.

**SEWER RETICULATION NOTES**

- 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.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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
- 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.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST,
- BENCH MARK AND LEVELS TO P.M 110122 RL 40.320 AHD.
- 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.
- SEWERS SHALL BE DISUSED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
- CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-SEW-1200-2, 1201-1 TO 1205-1. TYPE 4 SUPPORT TO BE USED WHERE MIGRATORY NATIVE SOILS (OR SAND OR FINE CLAY MATERIAL) ARE ENCOUNTERED ADJACENT TO THE EMBEDMENT ZONE AND SINGLE SIZE AGGREGATE IS USED) AND COUNCIL STANDARD FOR ROADWAYS, WHICHEVER IS MORE ONEROUS. EMBEDMENT TYPE TO BE CONFIRMED FROM NATA CERTIFIED GEOTECHNICAL REPORTS TO BE PROVIDED PRIOR TO SEWER CONSTRUCTION
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS, TRENCH STOPS AND TRENCH DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CLAUSE 9.10 OF THE SEQ SEWER CODE AND DRG'S SEQ-SEW-1206-1 AND 1207-1
- 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.
- CONSTRUCT MH'S TO SEQ-SEW-1301-1 TO 1301-7 (TYPE G), 1301-8 TO 1301-13 (TYPE F), 1301-14 TO 1301-25 (TYPE X), 1301-26, 1304-1, 1305-1, 1307-4 (STUB CUT IN), 1313-1 (CONNECTION) AND 1502-1 (INSERTION MH AND REPAIR SYSTEM), 1301-27 (LADDERS).
- CONSTRUCT MAINTENANCE SHAFTS AND TERMINAL ENTRY POINTS TO SEQ-SEW 1315-1, 1316-1 AND 1502-1 (INSERT MS).
- INSTALL MH/MS TYPE B COVERS TO SEQ-SEW-1308-2 TO 1308-7.
- INSTALL MH/MS TYPE D COVERS TO SEQ-SEW-1308-8 TO 1308-11.
- INSTALL DETECTABLE MARKER TAPE ON ALL SEWER MAINS AND PROPERTY CONNECTIONS.
- THE UNDERSIDE OF ALL MAINTENANCE HOLES ASPROS MUST BE PE LINED AS PER STANDARD DRAWING SEQ-SEW-1301-26
- CONCRETE FOR MAINTENANCE HOLE CONSTRUCTION SHALL BE SPECIAL CLASS TO WSA PS-358 WITH CALCAREOUS AGGREGATE

**LIVE SEWER WORKS**

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)	0.50m FROM EXISTING STUB, CONSTRUCTOR, TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.	DN160 PE100	1/EX1	MH	B	-	38.058	37.628	35.726	2.332	N
1 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
2 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO CONSTRUCT A 160mm STUB (TEMPORARY END CAPPED) IN EX2/1 (MH406126).	DN160 PE100	MH406126	MH	DB	8002	34.740	34.740	32.788	1.952	Y
2 (B)	0.50m FROM EXISTING STUB, CONSTRUCTOR TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.										
2 (C)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										

**LIVE WORKS NOTES:**

- ALL WORK ON EXISTING SEWERS TO BE CARRIED OUT BY THE CONTRACTOR (IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT) UNDER URBAN UTILITIES SUPERVISION, AT THE DEVELOPERS EXPENSE. LIVE WORKS CANNOT COMMENCE UNTIL ALL RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED AND ACCEPTED BY URBAN UTILITIES.

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE ENTIRE 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.

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

THIS DESIGN PACKAGE SHOWS CONNECTIONS TO INFRASTRUCTURE THAT HAS NOT BEEN ACCEPTED 'ON-MAINTENANCE' BY URBAN UTILITIES LIVE-WORKS CANNOT COMMENCE UNTIL THE PRECEDING WORKS HAVE BEEN ACCEPTED 'ON MAINTENANCE' BY URBAN UTILITIES

**ENGINEER'S CERTIFICATION**

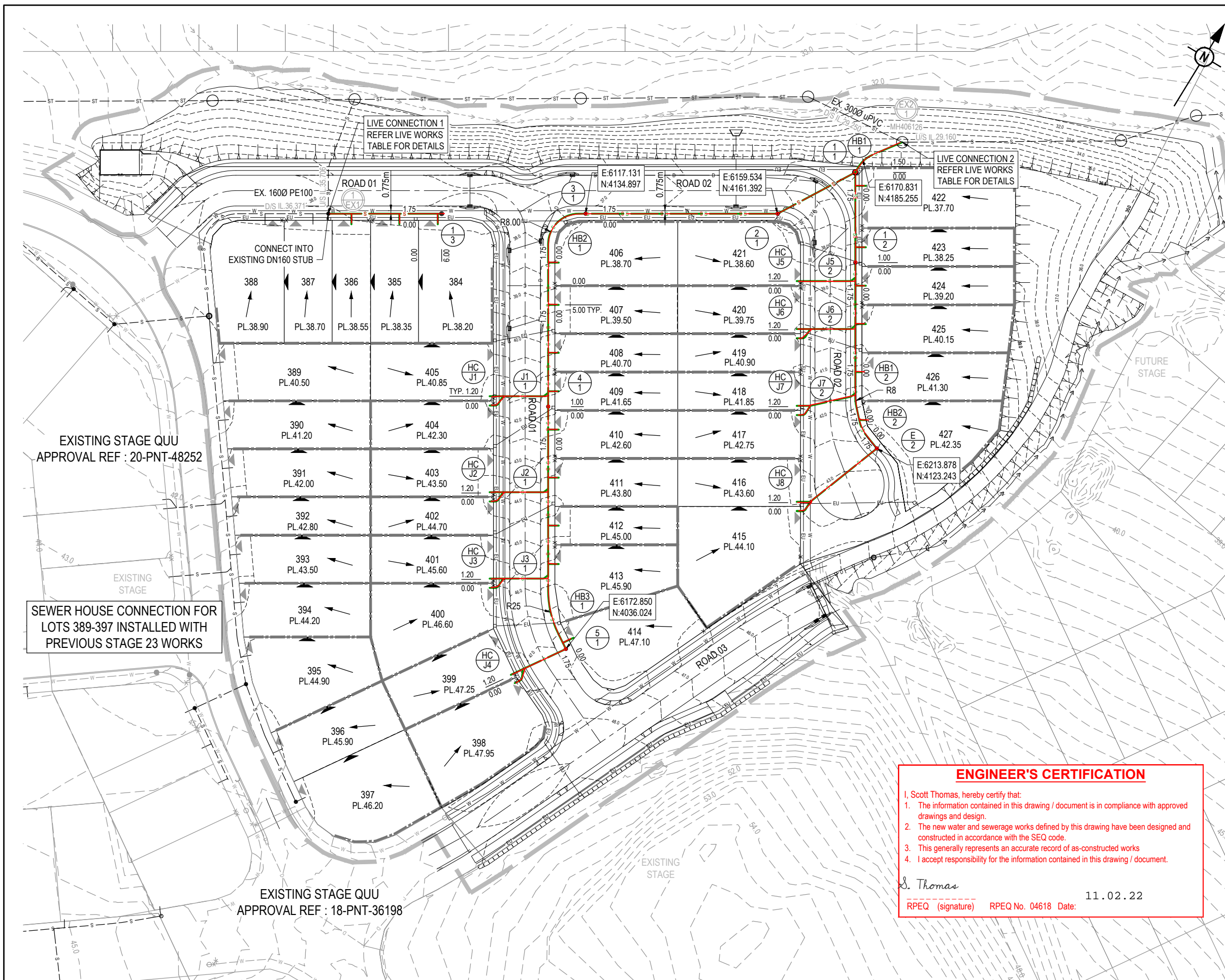
I, Scott Thomas, hereby certify that:

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

*S. Thomas*  
RPEQ (signature) RPEQ No. 04618 Date: 11.02.22

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	24.08.21	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:2000 20 0 20 40 60 80 100 A1 1:4000	<b>CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>SEWERAGE RETICULATION COVER PLAN</b>
B	03.02.22	NS	NS	AS CONSTRUCTED						
					DESIGN	APPROVED SCOTT THOMAS		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b>
						RPEQ 04618				DRAWING No. <b>300</b>
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD				REVISION <b>B</b>





LEGEND	
	PROPOSED STAGE BOUNDARY
	PROPOSED DN160 SEWER MAIN
	EXISTING SEWER MAIN
	EXISTING TRUNK SEWER MAIN
	SEWER LOT CONTROL SURFACE LEVEL
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	EXISTING ROOFWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED WATER SERVICE POINT
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING ELECTRICAL CABLE U/G

**AS CONSTRUCTED LEGEND**

SEWER MAIN

SEWER STRUCTURE

**WARNING! - EXISTING SERVICES**

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.

**NOTE - SETOUT:**

REFER TO THE LONGITUDINAL SECTIONS FOR EASTING AND NORTHING SETOUT OF SEWER STRUCTURES, ENDS AND BENDS.

THIS DESIGN PACKAGE SHOWS CONNECTIONS TO INFRASTRUCTURE THAT HAS NOT BEEN ACCEPTED 'ON MAINTENANCE' BY URBAN UTILITIES. LIVE WORKS CANNOT COMMENCE UNTIL THE PRECEDING WORKS HAVE BEEN ACCEPTED 'ON MAINTENANCE'.

**ENGINEER'S CERTIFICATION**

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*S. Thomas* 11.02.22  
RPEQ (signature) RPEQ No. 04618 Date:

EXISTING STAGE QUU  
APPROVAL REF : 20-PNT-48252

SEWER HOUSE CONNECTION FOR LOTS 389-397 INSTALLED WITH PREVIOUS STAGE 23 WORKS

EXISTING STAGE QUU  
APPROVAL REF : 18-PNT-36198

<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>24.08.21</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>02.02.22</td> <td>NS</td> <td>NS</td> <td>AS CONSTRUCTED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	24.08.21	CL	CL	ISSUED FOR CONSTRUCTION	B	02.02.22	NS	NS	AS CONSTRUCTED	<table border="1"> <thead> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td><b>AS CONSTRUCTED</b></td> <td></td> </tr> </tbody> </table>	DRAWN	STATUS	<b>AS CONSTRUCTED</b>		<p>FOR AND ON BEHALF OF PEAKURBAN PTY LTD</p>	<p>SCALE</p> <p>1:500 10 5 0 10 20 A1</p> <p>1:1000</p>	<p>CLIENT</p> <p><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p><b>WOODLINKS VILLAGE - STAGE 22</b></p> <p>COLLINGWOOD DRIVE COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p><b>SEWERAGE RETICULATION LAYOUT PLAN</b></p> <p>PROJECT No. <b>20-0214</b></p> <p>DRAWING No. <b>301</b></p> <p>REVISION <b>B</b></p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																					
A	24.08.21	CL	CL	ISSUED FOR CONSTRUCTION																					
B	02.02.22	NS	NS	AS CONSTRUCTED																					
DRAWN	STATUS																								
<b>AS CONSTRUCTED</b>																									

STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC
HC INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S STRUC / BEND

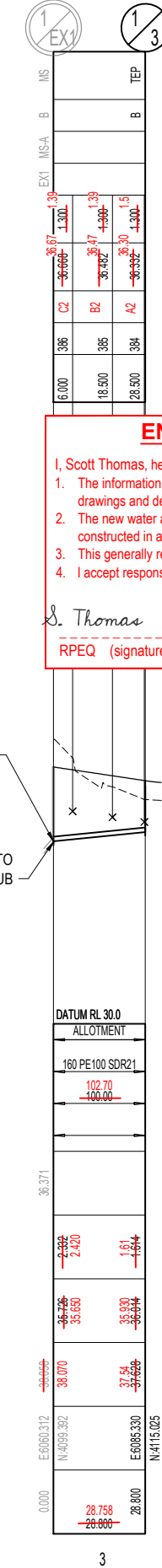
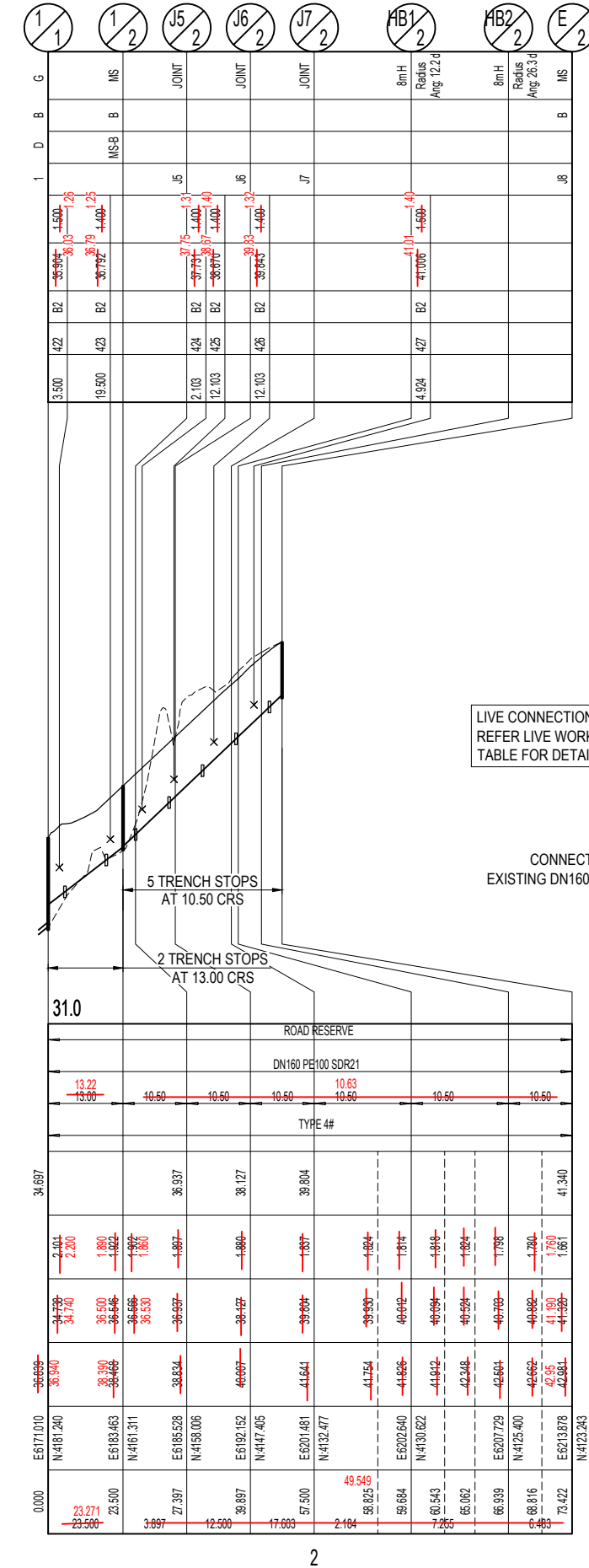
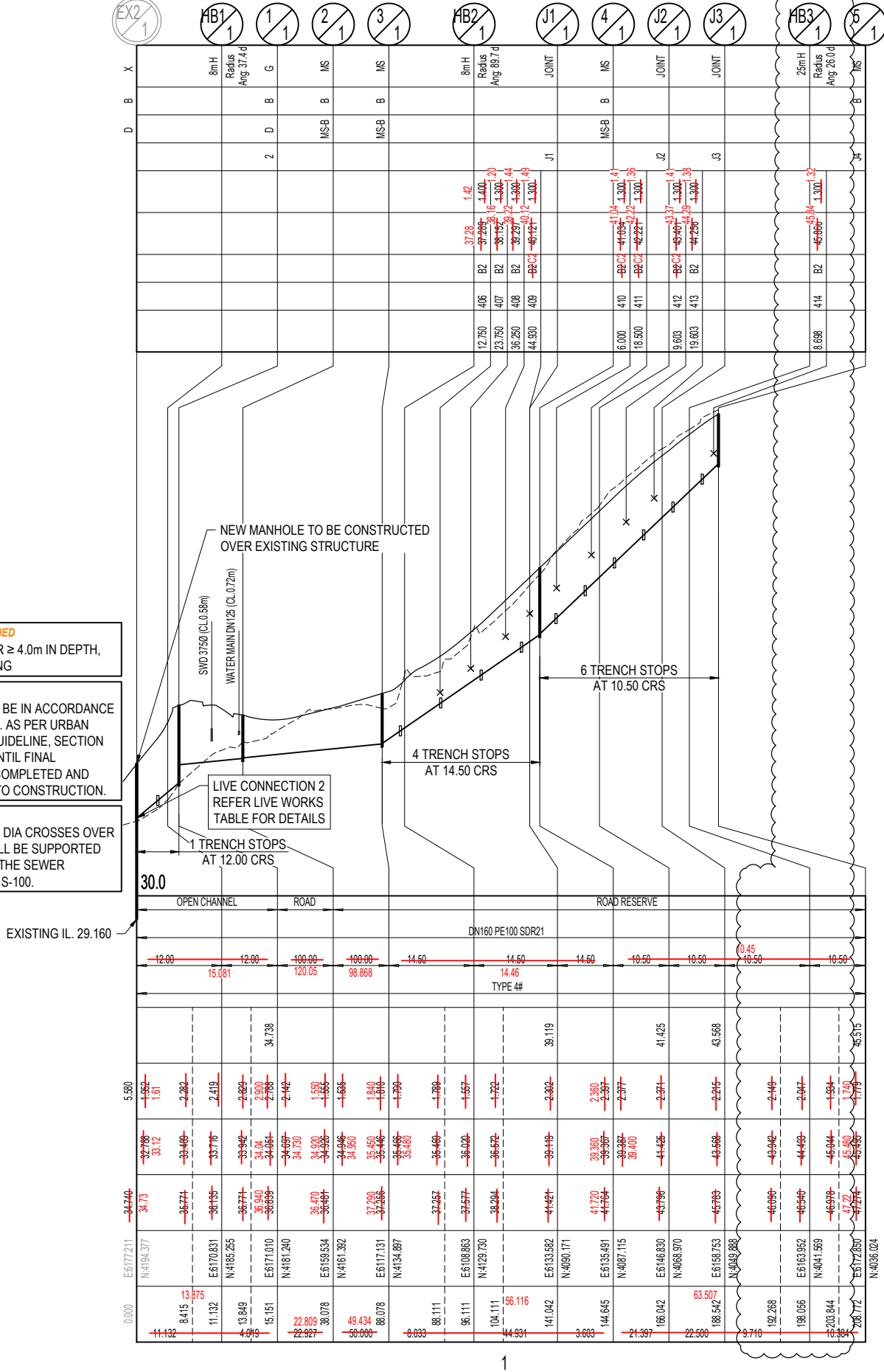
STRUCTURE TYPES  
 G = CONCRETE 0.900Ø (d ≤ 3.0m)  
 F = CONCRETE 1.200Ø (d = 3.0 ≤ 4.25m)  
 X = CONCRETE 1.200Ø (d > 4.25m)  
 MS = PE 0.600Ø  
 MH DROP TYPES:  
 AS PER SEQ STD DRG SEQ-SEW-1303-1  
 MS DROP TYPES:  
 MS-A = 20mm DROP THROUGH BULB  
 MS-B = >750mm DROP INTO RISER  
 LID TYPES  
 B = NON-TRAFFICABLE  
 D = TRAFFICABLE  
 D(BD) = TRAFFICABLE WITH BOLT DOWN

NOTE: PE LINING OF MANHOLES: **PE LINED**  
 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. AS PER URBAN  
 UTILITIES MAJOR WORKS TECHNICAL GUIDELINE, SECTION  
 6.5.1, TYPE 4 SUPPORT IS PROPOSED UNTIL FINAL  
 GEOTECHNICAL INVESTIGATIONS ARE COMPLETED AND  
 PROVIDED TO URBAN UTILITIES PRIOR TO CONSTRUCTION.

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

LAND USE
DIAMETER
GRADE
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE



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S. Thomas 11.02.22

RPEQ (signature) RPEQ No. 04618 Date:

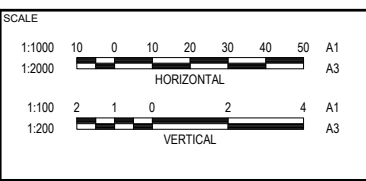
LIVE CONNECTION 1  
REFER LIVE WORKS  
TABLE FOR DETAILS

CONNECT INTO  
EXISTING DN160 STUB

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	24.08.21	CL	CL	ISSUED FOR CONSTRUCTION
B	07.09.21	CL	CL	AMENDMENTS TO LINE 1 STRUCTURE HB3/1
C	02.02.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	
DESIGN	APPROVED
SCOTT THOMAS	RPEQ 04618

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT  
**CANBERRA ESTATES  
 CONSORTIUM NO. 36 PTY  
 LIMITED**

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**

COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE		
<b>SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2</b>		
PROJECT No.	DRAWING No.	REVISION
20-0214	302	C

STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC
HC INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S STRUC / BEND

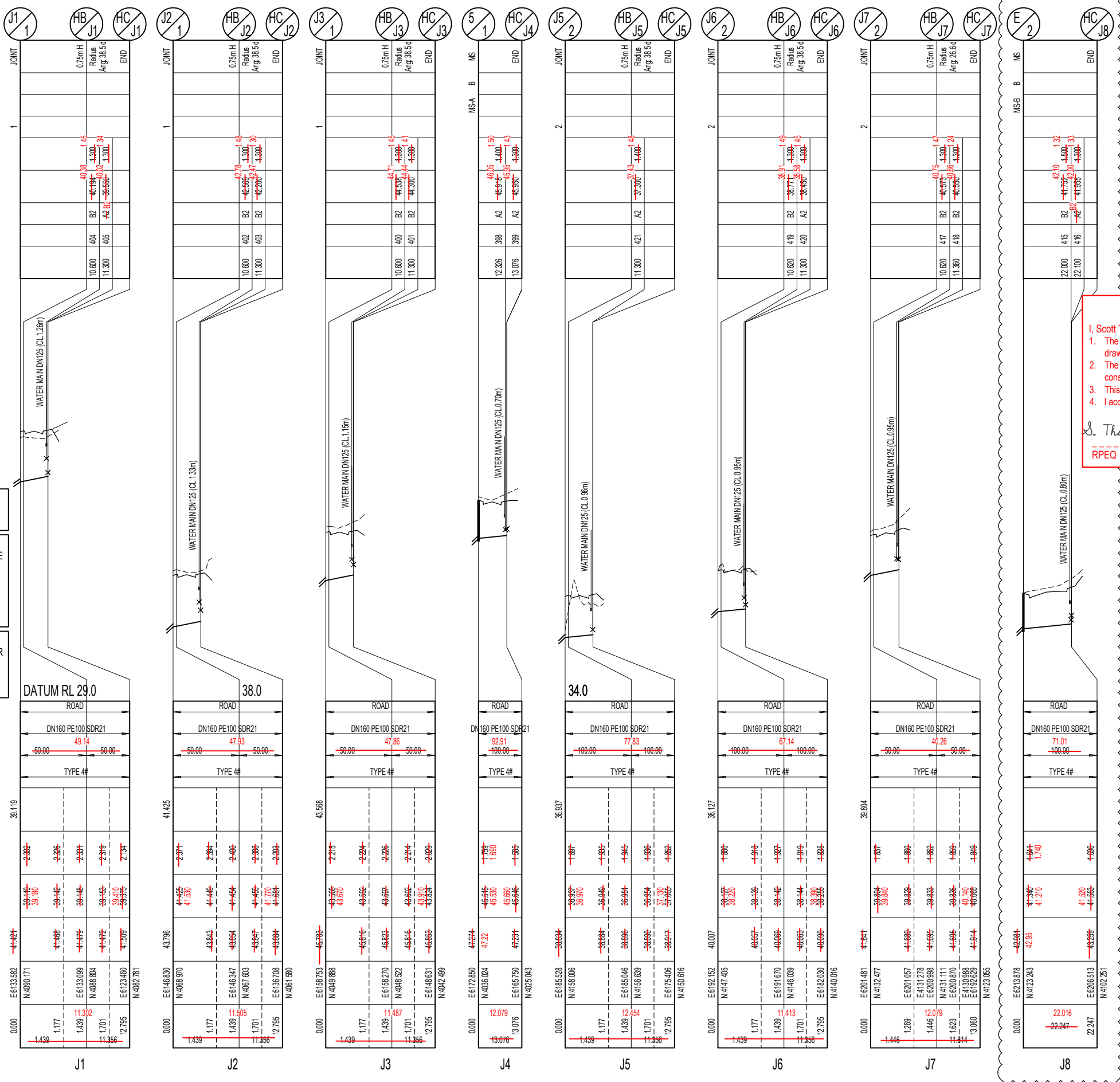
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 AS PER SEQ STD DRG SEQ-SEW-1303-1  
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LAND USE
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GRADE
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JUNCTION INVERT LEVEL
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 RPEQ (signature) RPEQ No. 04618 Date:

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	24.08.21	CL	CL	ISSUED FOR CONSTRUCTION
B	07.09.21	CL	CL	AMENDMENTS TO LINE J8 STRUCTURE HCJ8
C	02.02.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	
DESIGN	APPROVED
SCOTT THOMAS	RPEQ 04618
FOR AND ON BEHALF OF PEAKURBAN PTY LTD	

**AS CONSTRUCTED**

**PEAKURBAN**  
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ENQUIRIES@PEAKURBAN.COM.AU

SCALE

1:1000 10 0 10 20 30 40 50 A1  
 1:2000 HORIZONTAL A3

1:100 2 1 0 2 4 A1  
 1:200 VERTICAL A3

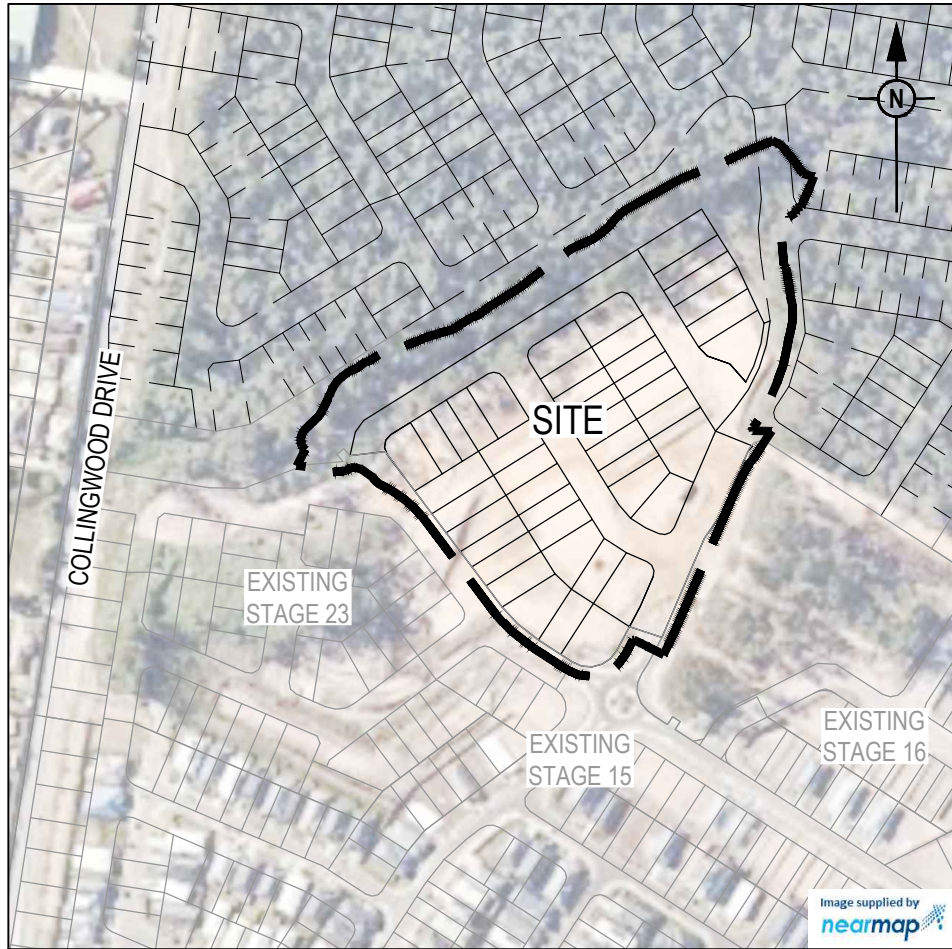
CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 22**

COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE		
<b>SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2</b>		
PROJECT No.	DRAWING No.	REVISION
20-0214	303	C



**LOCALITY PLAN**

1:2000 (A1)  
1:4000 (A3)

**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. EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONSIDERED THROUGHOUT DESIGN AND IS BASED ON SURVEY INFORMATION PROVIDED BY THE SURVEYOR AND/OR 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 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.
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. 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.

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S. Thomas 11.02.22  
RPEQ (signature) RPEQ No. 04618 Date:

**WATER RETICULATION NOTES**

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA 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-1200-2, 1201-1 TO SEQ-WAT-1204-1 AND COUNCIL STANDARDS FOR ROADWAY CROSSINGS, WHICHEVER IS MORE ONEROUS.
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 VALVES, BENDS, TEES, TAPERS, DEAD ENDS AS REQUIRED BY PIPE MATERIAL AS WELL AS TRANSITIONS TO UNRESTRAINED PIPEWORK TO SEQ-WAT-1205-1 AND 1206-1.
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 PAVEMENT MARKERS TO SEQ-WAT-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. PROVIDE DN40 PE WATER SERVICES FOR ROAD CROSSINGS SERVICING TWO DWELLINGS. PROVIDE DN32 PE 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 PE.
21. CONSTRUCT SMALL DIAMETER PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
22. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
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.

**ENVIRONMENTAL CONDITIONS**

**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.

**SOIL**

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

**CREEK CROSSINGS**

- 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.

**REHABILITATION**

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

ASSET REGISTER - WATER RETICULATION					
ESTATE/STAGE	WOODLINKS STAGE 22				
SITE ADDRESS	COLLINGWOOD DRIVE, COLLINGWOOD PARK				
URBAN UTILITIES REFERENCE No.	21-PNT-51505				
URBAN UTILITIES APPROVAL DATE	05.07.21				
CLIENT	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LTD				
DRAWING/PLAN No.	20-0214-304-306				
MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN125	PE100 PN16		400	
	DN180	PE100 PN16		119	
DN250	PE100 PN16		-		
SERVICES	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN25	PE100 PN16		53	
	DN32	PE100 PN16		42	
DN40	PE100 PN16		100		
METERS	DIAMETER	NUMBER			
		200	250	320	
	200	44			
	250	-			
320	-				

**DETAILS OF PROPOSED WATER SEQ CODE VARIATIONS**

No.	SEQ CODE CLAUSE	DETAILS FOR PROPOSED VARIATION	REASONS OF PROPOSED VARIATION
1	5.4.2.1 & 5.4.2.2	ROAD 01, ROAD 02 - WATER MAIN PROPOSED ON SAME SIDE OF ROAD AS SEWER AND ELECTRICAL	AS PER CLAUSE 5.4.2.1 (a) THE WATER MAIN HAS BEEN DESIGNED IN THE LEAST COSTLY LOCATION, ON THE SIDE OF THE ROAD WHICH HAS SERVES THE MOST PROPERTIES AND MINIMISES THE LENGTH OF PROPERTY CONNECTIONS. NOTE 1 - COUNCIL'S STANDARD SERVICE CORRIDORS ALLOW FOR EACH SERVICE WITHIN THE SAME VERGE, SO NO IMPACT TO OTHER SERVICE CORRIDORS IS PROPOSED. NOTE 2 - WHERE WATER MAIN IS PARALLEL TO THE SEWER, THE MINIMUM VERTICAL CLEARANCE HAS BEEN OBTAINED IN ACCORDANCE WITH CL. 5.12.5.2. TABLE 5.5, NOTES 1 & 5.
2	SEQ-WAT-1108-2	LOT 384, WATER METER OFFSET FROM BOUNDARY	WATER METER FOR LOT 208 HAS BEEN PROPOSED ON A 25.40m OFFSET FROM SIDE BOUNDARY TO AVOID ANY CLASHES WITH SEWER STRUCTURES. ELECTRICAL PILLAR HAS BEEN RESERVED FOR THE DOWNSTREAM SIDE OF LOT 208.

**LIVE CONNECTIONS**

CONNECTION 1			CONNECTION 2		
STREET	ROAD 01		STREET	ROAD 03	
LOCATION	CORNER OF LOT 388		LOCATION	ADJACENT LOT 398	
LENGTH	3.00m	TYPE OF MAIN DN125 PE100	LENGTH	3.00m	TYPE OF MAIN DN180 PE100
DATE COMMENCED		DATE COMPLETED	DATE COMMENCED		DATE COMPLETED
SIGNATURE			SIGNATURE		

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

SERVICE DETAILS		
NO	SIZE	LOT NUMBERS
21	DN25PE	389-397, 398-405, 414-421
14	DN32PE	406-413, 422-427

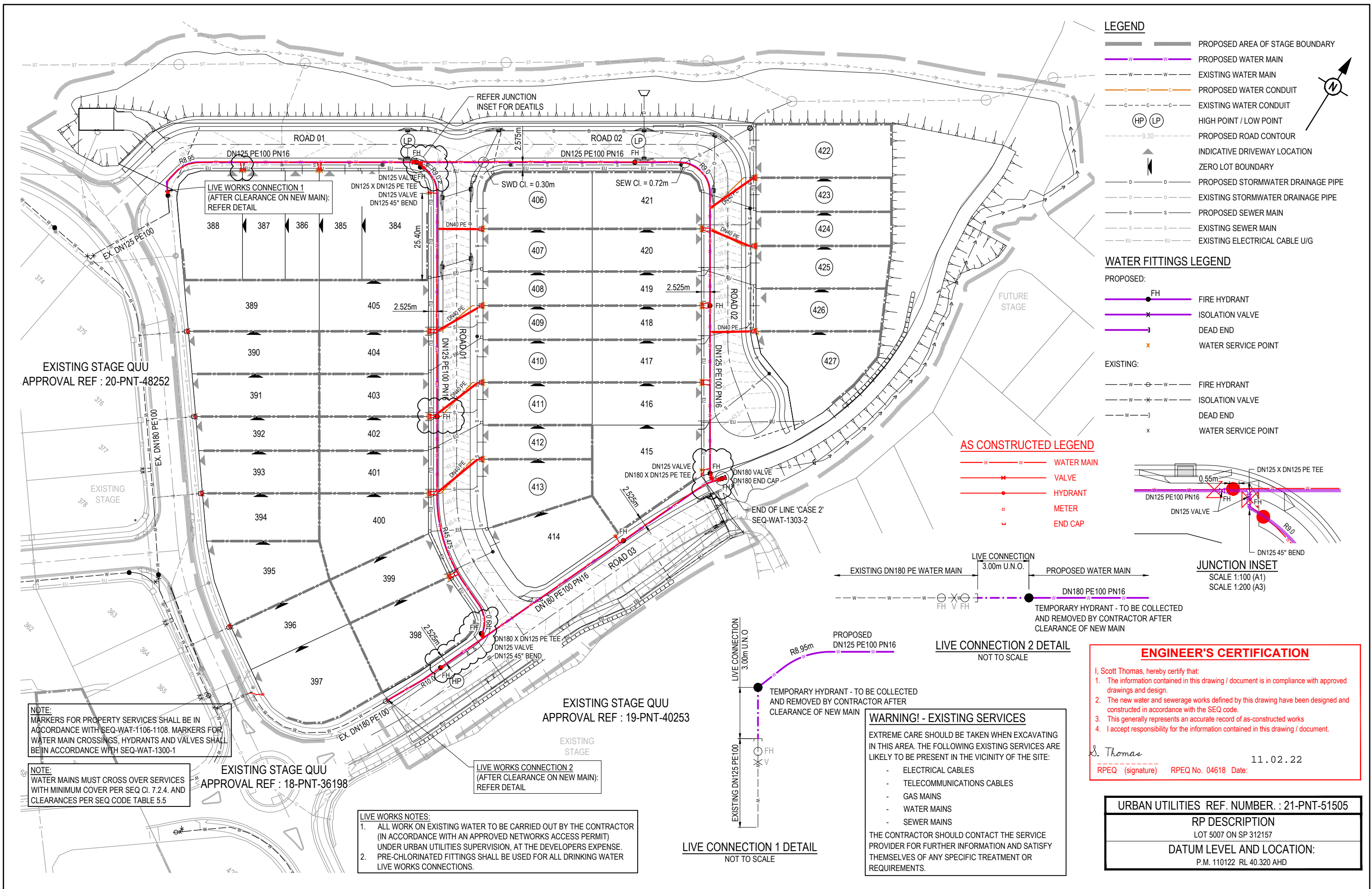
REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	24.08.21	CL	CL	AS CONSTRUCTED				1:2000 20 0 20 40 60 80 100 A1	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 22	WATER RETICULATION COVER PLAN
B	02.02.22	NS	NS	AS CONSTRUCTED				1:4000	SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 20-0214 DRAWING No. 304 REVISION B

**AS CONSTRUCTED**



ENQUIRIES@PEAKURBAN.COM.AU

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



### LEGEND

- PROPOSED AREA OF STAGE BOUNDARY
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- HIGH POINT / LOW POINT
- PROPOSED ROAD CONTOUR
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED SEWER MAIN
- EXISTING SEWER MAIN
- EXISTING ELECTRICAL CABLE U/G

### WATER FITTINGS LEGEND

**PROPOSED:**

- FIRE HYDRANT
- ISOLATION VALVE
- DEAD END
- WATER SERVICE POINT

**EXISTING:**

- FIRE HYDRANT
- ISOLATION VALVE
- DEAD END
- WATER SERVICE POINT

### AS CONSTRUCTED LEGEND

- WATER MAIN
- VALVE
- HYDRANT
- METER
- END CAP

### JUNCTION INSET

SCALE 1:100 (A1)  
SCALE 1:200 (A3)

### LIVE CONNECTION 2 DETAIL

NOT TO SCALE

### LIVE CONNECTION 1 DETAIL

NOT TO SCALE

### ENGINEER'S CERTIFICATION

I, Scott Thomas, hereby certify that:

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

S. Thomas  
RPEQ (signature) RPEQ No. 04618 Date: 11.02.22

### WARNING! - EXISTING SERVICES

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.

### URBAN UTILITIES REF. NUMBER : 21-PNT-51505

RP DESCRIPTION  
LOT 5007 ON SP 312157

DATUM LEVEL AND LOCATION:  
P.M. 110122 RL 40.320 AHD

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	24.08.21	CL	CL	ISSUED FOR CONSTRUCTION			<b>AS CONSTRUCTED</b>	1:500 1:1000	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 22</b>	<b>WATER RETICULATION LAYOUT PLAN</b>
B	16.09.21	CL	CL	ADDITIONAL FIRE HYDRANT ADDED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>20-0214</b>
C	02.02.22	NS	NS	AS CONSTRUCTED							DRAWING No. <b>305</b>
						DESIGN	APPROVED SCOTT THOMAS RPEQ 04618				REVISION <b>C</b>
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD		ENQUIRIES@PEAKURBAN.COM.AU			

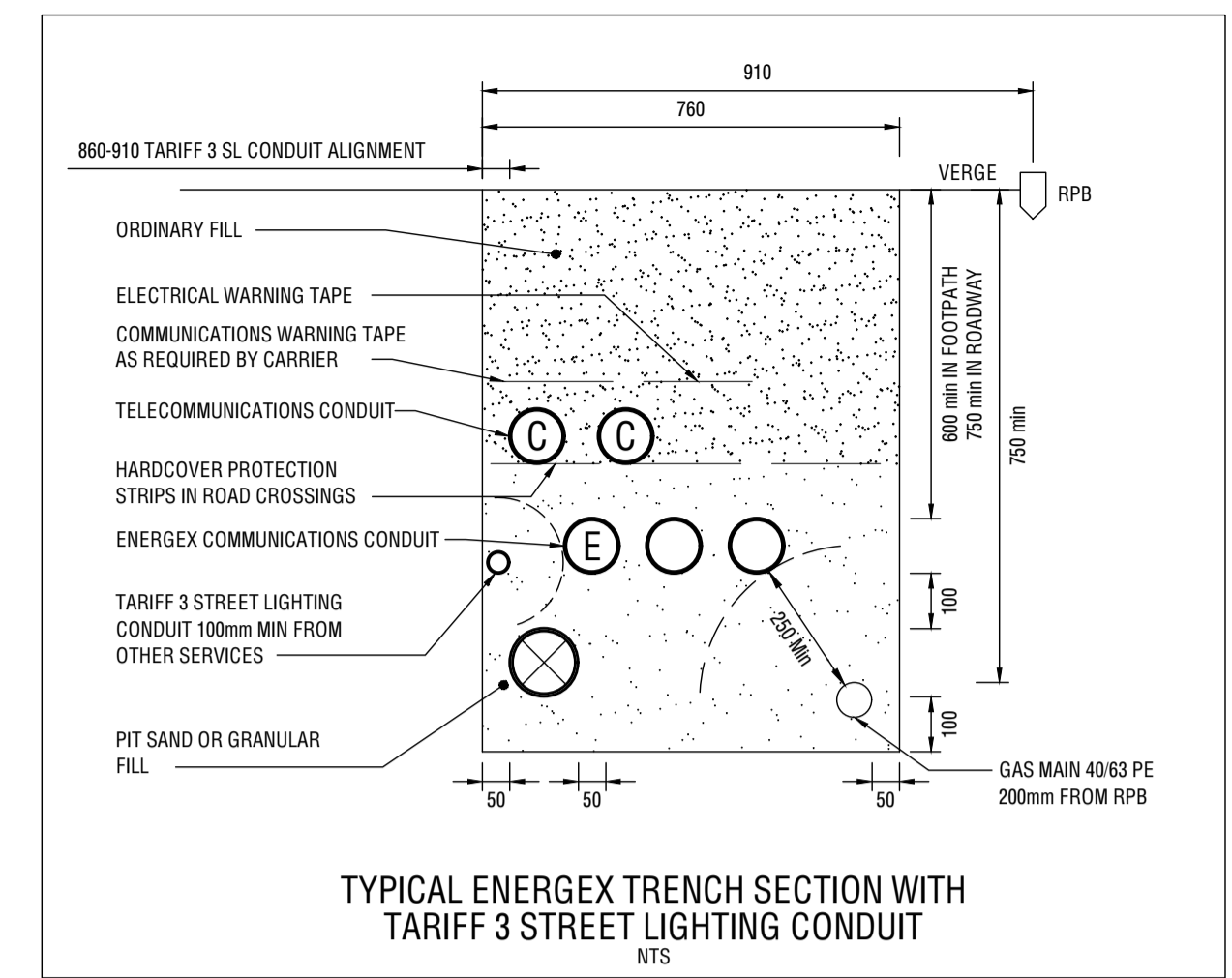
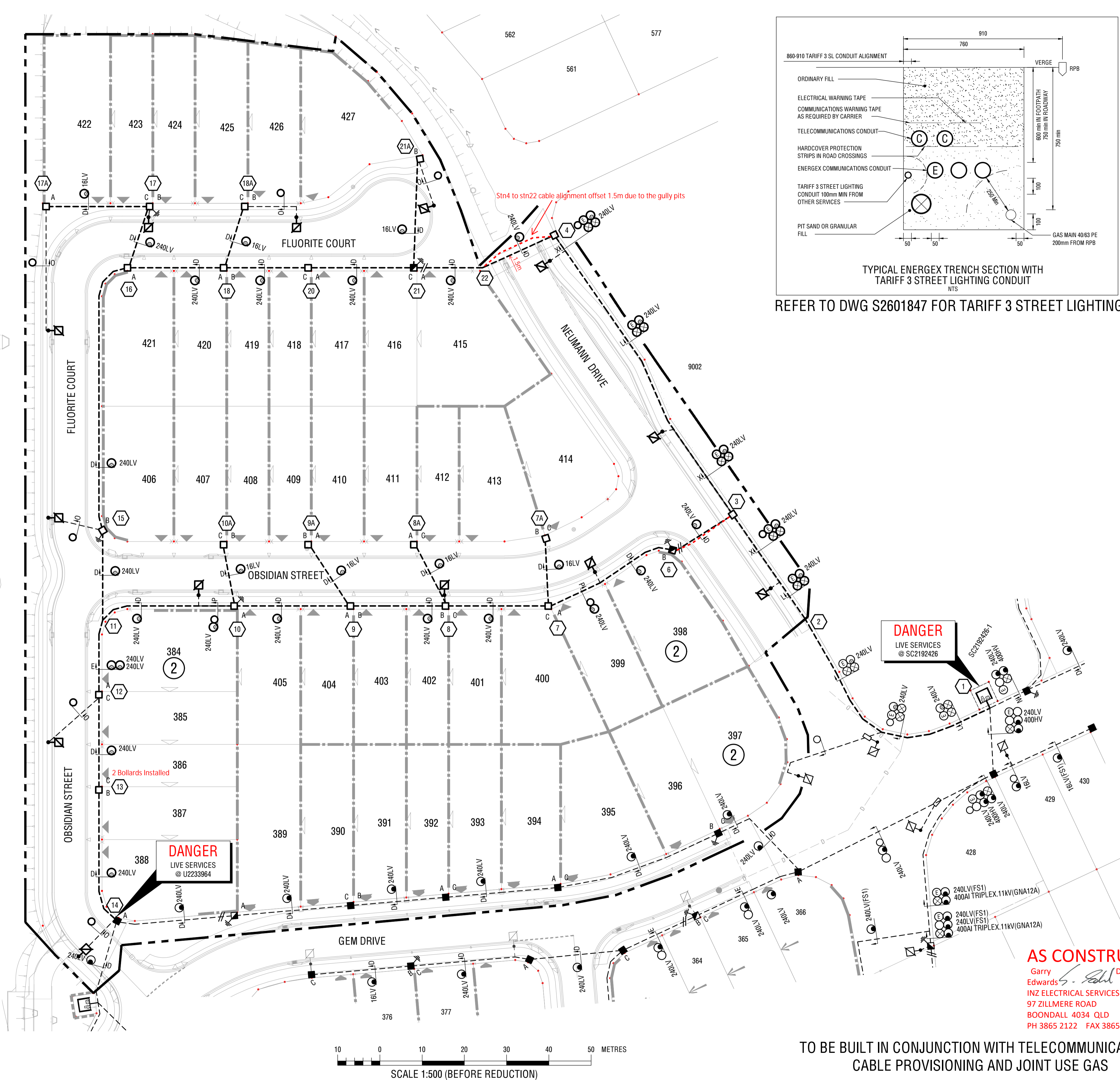
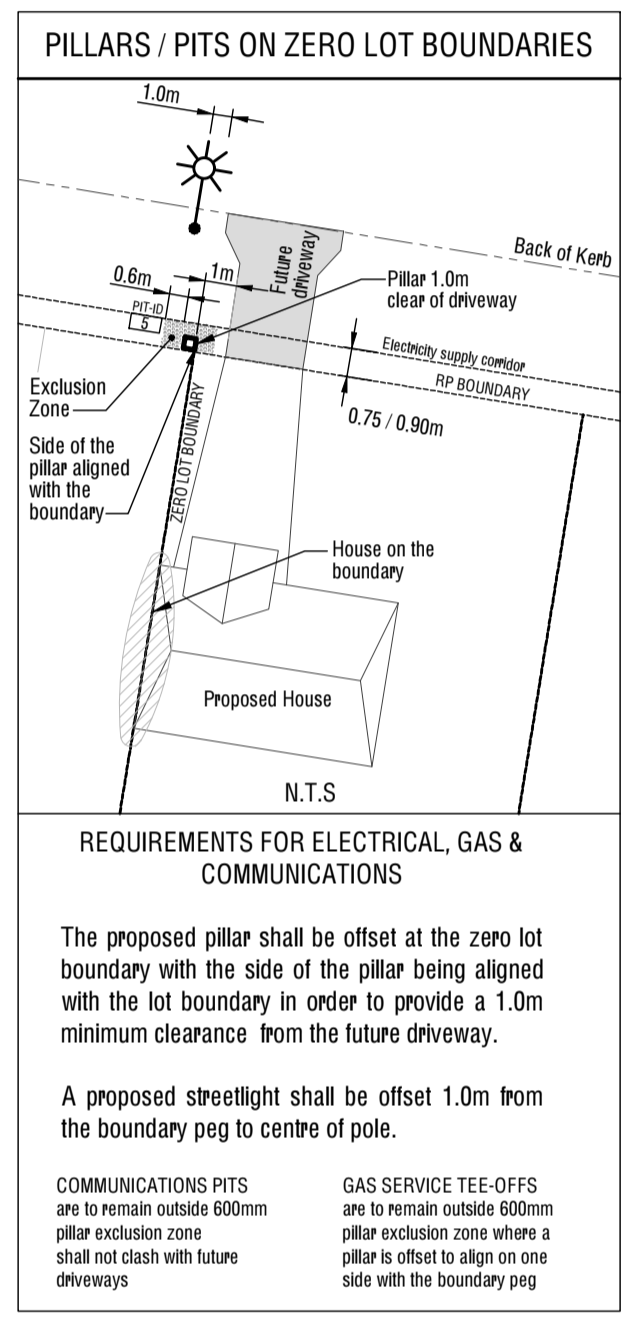
**LEGEND**

- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- ET - PROPOSED ELECTRICAL SERVICE CONDUIT
- ET - PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- POLE TRANSFORMER
- PADMOUNT TRANSFORMER
- HV POLE
- HV / LV POLE
- LV POLE
- HV UNDERGROUND POLE TERMINATION
- LV UNDERGROUND POLE TERMINATION
- AERIAL STAY
- GROUND STAY
- EARTH
- EXISTING PILLAR
- PROPOSED PILLAR
- LINK PILLAR
- CONDUIT / CABLE CROSS-SECTION
- WATER METER
- PROPOSED DRIVEWAY ENTRY
- PROPOSED ZERO LOT IDENTIFIER
- MULTIPLE OCCUPANCY LOT QUANTITY
- LIGHTING LEGEND
- NOTE: NOT ALL SYMBOLS MAY BE USED
- LED STREET LIGHT
- S100 HPS STREET LIGHT
- S150 HPS STREET LIGHT
- S250 HPS STREET LIGHT
- EXISTING UNKNOWN STREET LIGHT

**Fire Ant Biosecurity Zone**  
 For Info  
 Call 13 25 23

**DEVELOPERS NOTES**

- DO NOT CONSTRUCT DRIVEWAYS / CROSSOVERS UNTIL ELECTRICAL WORKS HAVE BEEN COMPLETED.



REFER TO DWG S2601847 FOR TARIFF 3 STREET LIGHTING.

- GENERAL NOTES**
- NO OTHER SERVICES TO ENCOACH INTO THE STANDARD UNDERGROUND ELECTRICITY CORRIDOR OF 0mm - 900mm FROM RPA.
  - ALL CABLES TO BE INSTALLED IN CONDUIT WITHIN THE STANDARD ELECTRICITY ALIGNMENT ALLOCATED BY THE LOCAL COUNCIL. WHERE CONDUITS VARY FROM THIS AND AT FOOTPATH CROSSING PROTECTIVE STRIP IS TO BE INSTALLED. WHERE PRACTICAL ELECTRICITY CABLES SHALL NOT BE CLOSER THAN 250mm TO THE REAL PROPERTY BOUNDARY.
  - A, B OR C WHEN SHOWN BESIDE LV PILLARS DENOTES SERVICE PHASING.
  - THE CONTRACTOR SHALL MEASURE ACTUAL CABLE LENGTHS REQUIRED ON SITE AFTER INSTALLATION OF CONDUITS THEN NOTIFY ENERGETX/SUPPLIER WHEN CONFIRMING CABLE ORDER.
  - ALL BENDS INSTALLED ON 80mm, 100mm AND 125mm RETICULATION CONDUITS MUST BE 1830mm RADIUS UNLESS OTHERWISE SPECIFIED.
  - CONTRACTOR TO SUPPLY ALL LABELS AND SITE ID NUMBERS TO ENERGETX SPECIFICATION.
  - WHEN CROSS ROAD CONDUIT FINISHES OPPOSITE A TRUNCATION PEG, PROPERTY SIDE OF TRENCH TO BE 300mm ALIGNMENT FROM PEG.
  - WHERE CROSS-ROAD ELECTRICITY CONDUITS RUN PARALLEL TO OTHER SERVICES OR CONDUITS, A MINIMUM SEPARATION OF 1.0m MUST BE MAINTAINED.
  - CIVIL CONTRACTOR TO INSTALL ALL CROSS ROAD CONDUITS.
  - CO-ORDINATE CONDUIT INSTALLATION WITH COMMUNICATIONS CARRIER CONTRACTORS.
  - ELECTRICITY PILLARS TO HAVE 600mm EXCLUSION ZONE FROM ALL OTHER SERVICES.

- CONSTRUCTION CONTRACTOR**
- THE CONTRACTOR SHALL BE RATED BY ENERGETX FOR THE FOLLOWING PROCESS.
- WCS 2 - UNDERGROUND CONSTRUCTION
  - WCS 31 - COMMISSIONING AND OPERATION OF THE NETWORK
  - WCS 34 - EARTHING SYSTEMS
  - WCS 61 - UNDERGROUND CIVIL CONSTRUCTION

- STANDARDS AND SPECIFICATIONS**
- THIS WORKS PLAN IS TO BE READ IN CONJUNCTION AND COMPLY WITH THE FOLLOWING ENERGETX MANUALS AND SPECIFICATIONS
- OVERHEAD CONSTRUCTION MANUAL
  - OVERHEAD DESIGN MANUAL
  - UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL
  - WCS 61.1 - UNDERGROUND TRENCHLESS TECHNOLOGY
  - NETWORK LABELLING AND SIGNAGE MANUAL

CONSUMER'S INSTALLATION SHALL COMPLY WITH AS/NZS 3000:2018 - SAA WIRING RULES.

FOR DETAILS OF TRENCH CROSS-SECTIONS, REFER TO ENERGETX UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL.

**ON SITE SERVICES CHECKS**

UNDERGROUND SERVICES SHOWN ON THIS WORKS PLAN IN THE VICINITY OF PROPOSED EXCAVATION WORKS HAVE BEEN TAKEN FROM ASSET OWNER'S PAPER RECORDS AND ARE INDICATIVE ONLY.

THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGE TO ANY EXISTING UNDERGROUND SERVICES CAUSED BY HIS WORKS AND THE RE-ESTABLISHMENT OF ANY SURVEY MARKS DISLODGED.

THE CONTRACTOR SHALL REQUEST ON-SITE IDENTIFICATION AND LOCATION OF EXISTING BURIED SERVICES FROM THE QUEENSLAND DIAL BEFORE YOU DIG SERVICE - PHONE: 1100 WEB: www.1100.com.au (A MINIMUM OF TWO DAYS NOTICE IS REQUIRED)

SEWERAGE, STORMWATER, GAS AND WATER PLANS FOR THE SITE MAY BE OBTAINED ON REQUEST FROM THE PROJECT SERVICE SUPERVISOR.

- REINSTATEMENT NOTES**
- BACKFILL & REINSTATEMENT OF FOOTPATH AND ROADWAY TO IPSWICH CITY COUNCIL REQUIREMENTS. REFER STANDARD DRAWINGS:
- SR.43 - TRENCH RESTORATION - VERGES AND PATHS
  - SR.44 - TRENCH RESTORATION - CARRIAGEWAYS

NO NON-ENERGETX ASSETS TO BE INSTALLED WITHIN 600mm PILLAR EXCLUSION ZONE.

QUU REQUIRE 1.1m CLEARANCE BETWEEN ELECTRICAL PILLARS AND WATER METERS. INSTALL WATER METERS MINIMUM 1.5m FROM BOUNDARY PEG WHERE WATER METERS SHARE A COMMON BOUNDARY WITH ELECTRICAL PILLARS.

ENERGETX REQUIRE 1.0m CLEARANCE BETWEEN SERVICE PILLARS AND DRIVEWAYS. IF LESS THAN 1.0m SEPARATION THEN PROTECTIVE BOLLARDS MUST BE INSTALLED.

**AS CONSTRUCTED**  
 Garry Edwards  
 INZ ELECTRICAL SERVICES PTY LTD  
 97 ZILLMERE ROAD  
 BOONDALL 4034 QLD  
 PH 3865 2122 FAX 3865 4475

**FOR CONSTRUCTION**  
 12/11/2021 11:29 AM

TO BE BUILT IN CONJUNCTION WITH TELECOMMUNICATIONS CABLE PROVISIONING AND JOINT USE GAS

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REV	DATE	DETAILS	DRAWN CHECKED APPRVD
E	01.11.21	LOT 398 ALIGNMENT AMENDED	BH BK BK
D	30.07.21	ISSUED FOR CONSTRUCTION	JR BK BK
C	23.07.21	REVISED NEUMANN DRIVE LIGHTS	BK BK BK
B	17.06.21	ISSUED FOR APPROVAL	BK BK BK
A	31.05.21	PRELIMINARY ISSUE	BK BK BK

<p>Woodlinks Village STAGE 22</p>	<b>SITE CONTACT DETAILS</b> NAME: REBECCA ASHBY COMPANY: CANTERRA STATES CONSORTIUM PHONE: 3886 0244 MOBILE: 0421 078 630 EMAIL:		<b>ALIGNMENTS</b> ENERGETX OH: 0.7 FR KI ENERGETX UG: 0-0.91 TELSTRA: 0.91-1.3 GAS: 3.41-3.81 HP GAS: 3.41-3.81 WATER: 2.21-2.81 STORMWATER: IN ROAD SEWERAGE: 1.3-2.21		<b>PROJECT / SUB PROJECT NO.</b> S2601846 PARENT PROJECT NO.: WORK REQUEST NO.: PLANNER & PHONE: SUBDIVISIONS: LOTS: 384 - 427 CANCELLING LOTS: 5007 ON SP23153 LOCAL AUTHORITY: IPSWICH CITY COUNCIL PEGGED?: ON REQUEST	
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**ampflo**  
 Electrical and Telecommunications Consultants  
 ABN 28 111 423 842  
 Phone : (07) 3372 9280  
 Email : projects@ampflo.com.au  
 Website : ampflo.com.au

<b>CERTIFICATION:</b>	
APPROVED: Brad Kunde	RPEQ No: 16286
DATE: 12/11/2021	
CHECKED: B.KUNDE	
DESIGNER: B.KUNDE	
ISSUE DATE: 01.11.21	

<b>PROJECT</b> 44 LOT RESIDENTIAL SUBDIVISION OBSIDIAN STREET, WOODLINKS RETICULATION LAYOUT, LEGEND AND NOTES		
DRAWING: A211245	PROJECT: 211245	SHEET 1 OF 3

PLOT: 12/11/2021 11:29:17 AM FILE: P:\21245\1 WORKING DRAWINGS\A211245



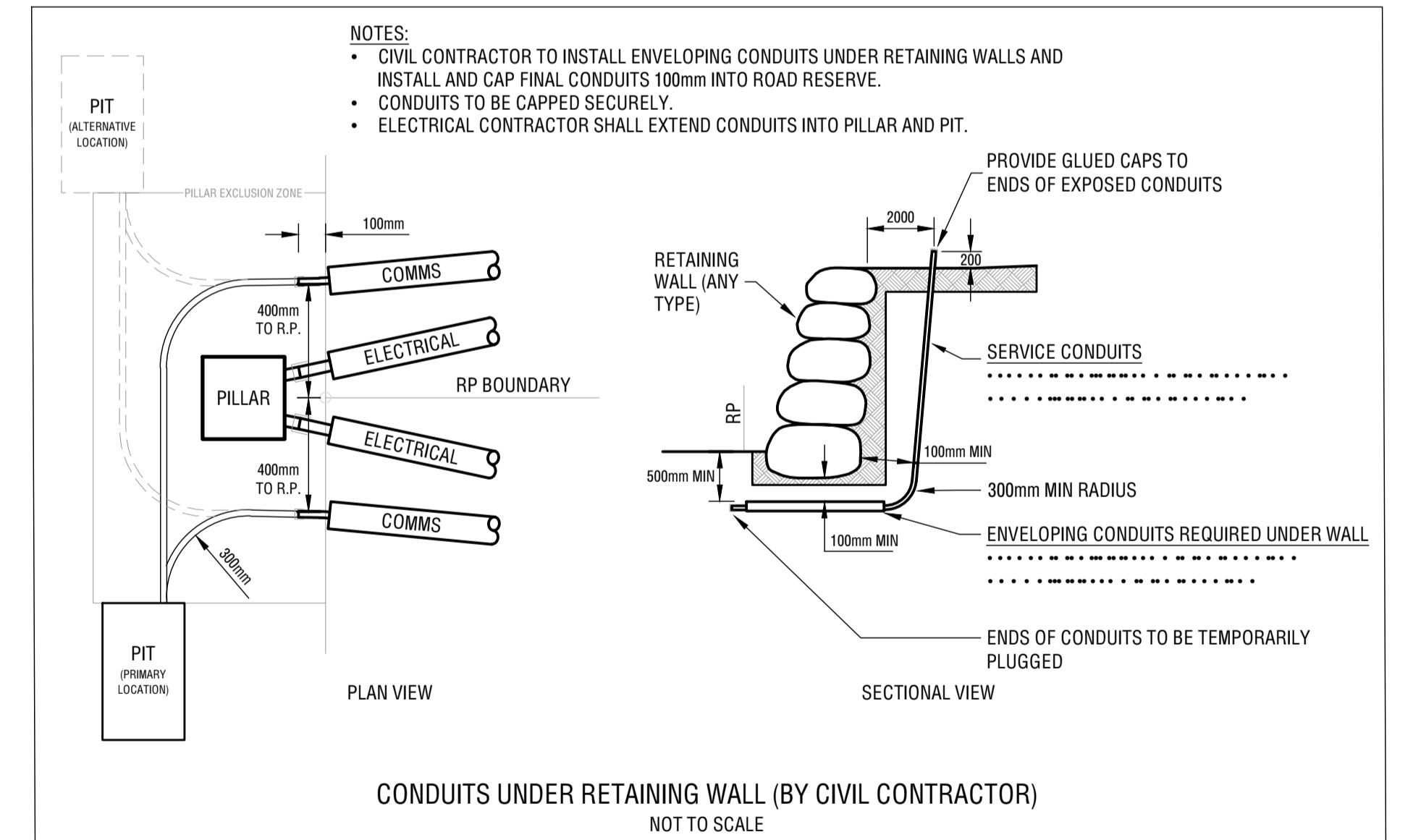
CIVIL WORKS SCHEDULE - BY ELECTRICAL CONTRACTOR. Table with columns: LOCATION, STATIONS FROM-TO, CONDUIT LENGTH (m), X-SECTION (m), DRAW WIRE, KERB MARKERS, REMARKS. Includes rows for GEM DRIVE, NEUMANN DRIVE, OBSIDIAN STREET, FLUORITE COURT and a TOTAL row.

MATERIALS SUMMARY - S2601846. UNDERGROUND table with columns: MODEL No., QTY, (Supplied by URD Contractor), (Supplied by URD Contractor). Lists materials like LV4CMEN, LVPT4C240, etc., with a TOTAL row.

CIVIL WORKS SCHEDULE - BY CIVIL CONTRACTOR. Table with columns: LOCATION, STATIONS FROM-TO, CONDUIT LENGTH (m), X-SECTION (m), DRAW WIRE, KERB MARKERS, REMARKS. Includes rows for NEUMANN DRIVE, OBSIDIAN STREET, FLUORITE COURT and a TOTAL row.

CABLE SCHEDULE. Table with columns: LOCATION, STATIONS FROM-TO, EX, REC, IN, 11kV, 415V, 415V, 240V, 240V, REMARKS. Lists cable types and quantities for various locations.

EQUIPMENT SCHEDULE. Table with columns: LOCATION, STN No., SITE ID, EXIST, REC, INST, SIZE AND DESCRIPTION, IIN, COMP ID, PLANT ID, MODEL ID, QTY, LCC, REMARKS. Lists equipment like transformers, pillars, and conduits.



AS CONSTRUCTED. Garry Edwards (Signature), Date: 18/02/22. INZ ELECTRICAL SERVICES PTY LTD, 97 ZILLMERE ROAD, BOONDALL 4034 QLD. PH 3865 2122 FAX 3865 4475

FOR CONSTRUCTION. 12/11/2021 11:29 AM

FILE: E:\212501\WORKING DRAWINGS\A212501.DWG

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Approval and revision table with columns: REV, DATE, DETAILS, DRAWN, CHECKED, APPRVD. Includes revision history for Lot 398 Alignment Amended, Issued for Construction, Revised Neumann Drive Lights, and Issued for Approval.

Client logo and name: Woodlinks Village STAGE 22. Includes a stylized tree logo.

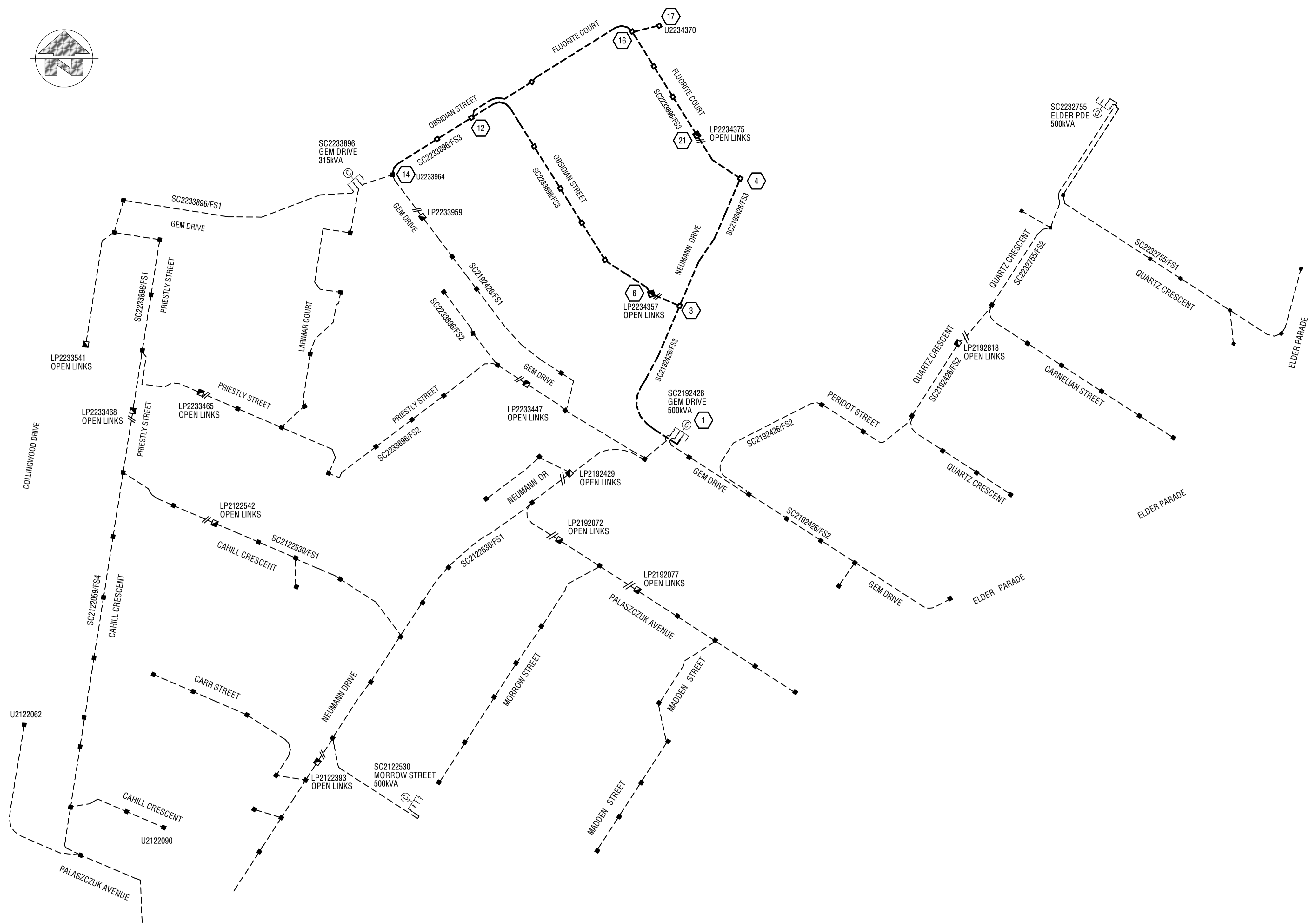
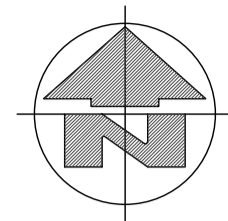
SITE CONTACT DETAILS table with columns: NAME, COMPANY, PHONE, MOBILE, EMAIL. Lists contact information for Rebecca Ashby.

ALIGNMENTS table with columns: ENERGEX OH, ENERGEX UG, TELSTRA, GAS, HP GAS, WATER, STORMWATER, SEWERAGE. Lists utility alignments and their specifications.

Project ID: S2601846. Logos for ECAAS and Ampflo. Ampflo contact details: ABN 28 111 423 842, Phone: (07) 3372 9280, Email: projects@ampflo.com.au, Website: ampflo.com.au.

CERTIFICATION: APPROVED: Brad Kunde. RPEQ No: 16286. DATE: 12/11/2021. Checked by: B.KUNDE. Designer: B.KUNDE. Issue Date: 01.11.21.

PROJECT: 44 LOT RESIDENTIAL SUBDIVISION OBSIDIAN STREET, WOODLINKS SCHEDULES. DRAWING: A211245. PROJECT: 211245. SHEET 2 OF 3. Issue marker E.



EXISTING & PROPOSED LV SCHEMATIC DIAGRAM  
SCALE 1:1500  
ALL NEW LV CABLES TO BE 4c 240mm AI XLPE UNO

- SWITCHING & COMMISSIONING PLAN - LV  
(subject to site conditions, amendments by switching co-ordinator and approval by LV outage co-ordinator)
- SWITCHING
- LV
1. INSTALL PROPOSED UG NETWORK AS PER PLANS
  2. OPEN SWITCHFUSE 3 AT SC2233896 - GEM DRIVE
  3. MAKE NEW CONNECTIONS AT U2233964 (STN 14)
  4. CLOSE SWITCHFUSE 3 AT SC2233896 - GEM DRIVE
  5. OPEN SWITCHFUSE 3 AT SC2192426 (STN 1) - GEM DRIVE
  6. MAKE NEW CONNECTIONS AT SC2192426 - SWITCHFUSE 3 (STN 1)
  7. CLOSE SWITCHFUSE 3 AT SC2192426 (STN 1) - GEM DRIVE
  8. TEST AND COMMISSION
  9. PERFORM POST COMMISSIONING CHECKS

SC2233896 - GEM DRIVE

CCT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80x35	WB	6mm	TRANSFORMER ISOLATOR
1	80x35	WB	5mm	EXISTING LABEL
2	80x35	WB	5mm	EXISTING LABEL
3	80x35	WB	5mm	TO GEM DRIVE LP2233959 / OBSIDIAN STREET LP2234357 / FLUORITE COURT LP2234375 AND SERVICES
4	80x35	WB	5mm	SPARE

SC2192426 - GEM DRIVE

CCT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80x35	WB	6mm	TRANSFORMER ISOLATOR
1	80x35	WB	5mm	EXISTING LABEL
2	80x35	WB	5mm	EXISTING LABEL
3	80x35	WB	5mm	TO OBSIDIAN STREET LP2234357 / FLUORITE COURT LP2234375 AND SERVICES
4	80x35	WB	5mm	SPARE

LP2234357 - ROAD-01 OBSIDIAN STREET

CABLE No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	150x50	WB	5mm	TO GEM DRIVE SC2192426 / FLUORITE COURT LP2234375 AND SERVICES
2 (RHS)	150x50	WB	5mm	TO GEM DRIVE SC2233896 / GEM DRIVE LP2233959 / FLUORITE COURT LP2234375 AND SERVICES

LP2233959 - GEM DRIVE

CABLE No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	150x50	WB	5mm	TO GEM DRIVE SC2233896 / OBSIDIAN STREET LP2234357 / FLUORITE COURT LP2234375 AND SERVICES
2 (RHS)	150x50	WB	5mm	EXISTING LABEL

LP2234375 - ROAD-02 FLUORITE COURT

CABLE No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	150x50	WB	5mm	TO GEM DRIVE SC2192426 / OBSIDIAN STREET LP2234357 AND SERVICES
2 (RHS)	150x50	WB	5mm	TO GEM DRIVE SC2233896 / GEM DRIVE LP2233959 / OBSIDIAN STREET LP2234357 AND SERVICES

**AS CONSTRUCTED**  
Garry Edwards  
Date: 18/02/22  
INZ ELECTRICAL SERVICES PTY LTD  
97 ZILLMERE ROAD  
BOONDALL 4034 QLD  
PH 3865 2122 FAX 3865 4475

**FOR CONSTRUCTION**  
12/11/2021 11:29 AM

LOT: 12/11/2021 11:28:19 AM FILE: P:\2124561 WORKING DRAWINGS\A2112456

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REV	DATE	DETAILS	APPRVD
E	01.11.21	LOT 398 ALIGNMENT AMENDED	BH BK BK
D	30.07.21	ISSUED FOR CONSTRUCTION	JR BK BK
C	23.07.21	REVISED NEUMANN DRIVE LIGHTS	BK BK BK
B	17.06.21	ISSUED FOR APPROVAL	BK BK BK
A	31.05.21	PRELIMINARY ISSUE	BK BK BK

CLIENT

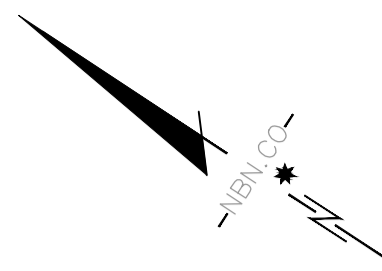
Woodlinks Village  
STAGE 22

SITE CONTACT DETAILS		ALIGNMENTS		PROJECT / SUB PROJECT NO.	
NAME	REBECCA ASHBY	ENERGEX OH	0.7 FR KI	S2601846	
COMPANY	CANBERRA STATES CONSORTIUM	ENERGEX UG	0-0.91	PARENT PROJECT NO.	-
PHONE	3886 0244	TELSTRA	0.91-1.3	WORK REQUEST NO.	-
MOBILE	0421 078 630	GAS	3.41-3.81	PLANNER & PHONE	SUBDIVISIONS
EMAIL	-	HP GAS	3.41-3.81	LOTS	384 - 427
		WATER	2.21-2.81	CANCELLING LOTS	5007 ON SP23153
		STORMWATER	IN ROAD	LOCAL AUTHORITY	IPSWICH CITY COUNCIL
		SEWERAGE	1.3-2.21	PEGGED?	ON REQUEST

ISO 9001 CERTIFIED QUALITY MANAGEMENT

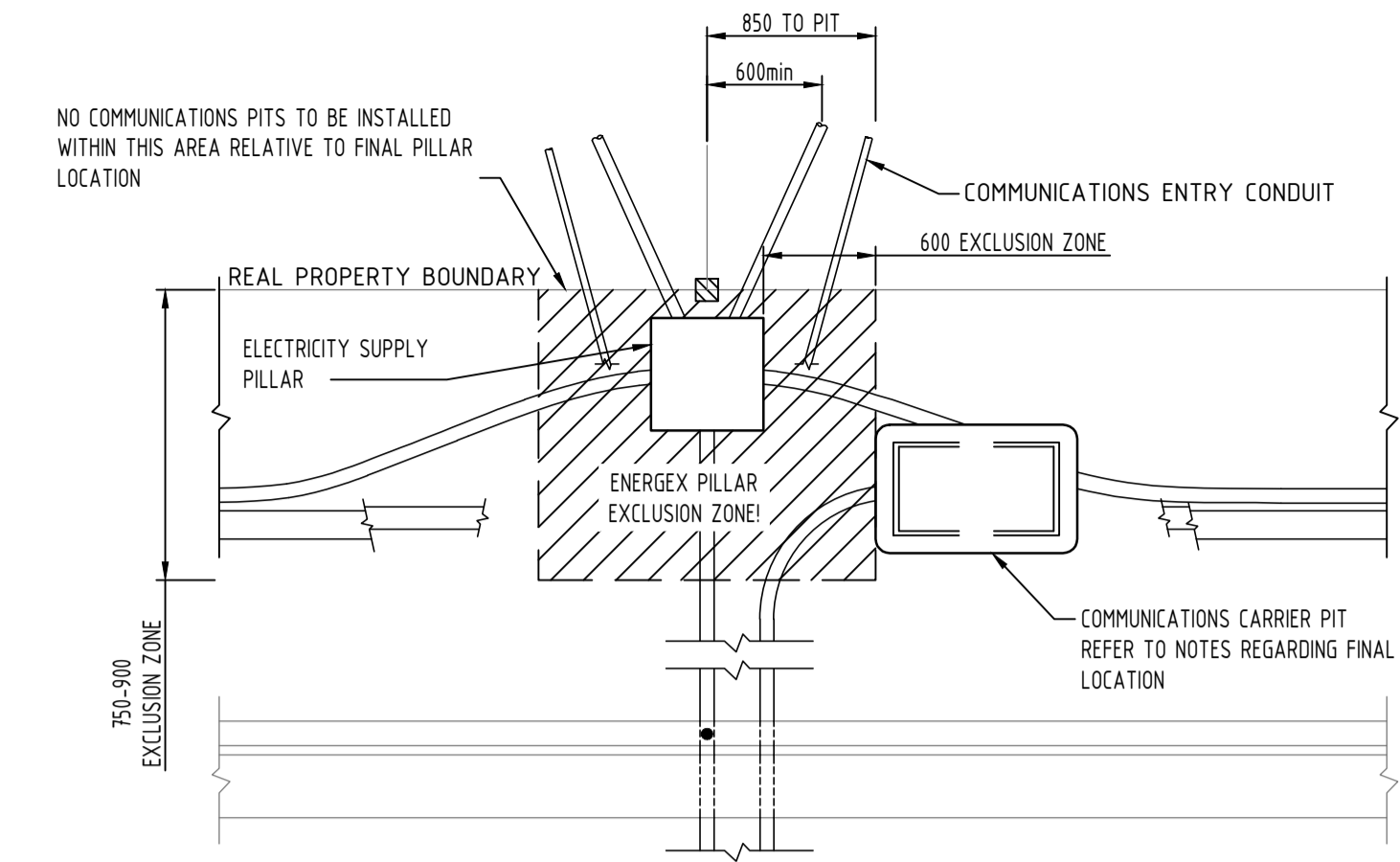
**ampflo**  
Electrical and Telecommunications Consultants  
ABN 28 111 423 842  
Phone : (07) 3372 9280  
Email : projects@ampflo.com.au  
Website : ampflo.com.au

CERTIFICATION: APPROVED: Brad Kunde RPEQ No: 16286 DATE: 12/11/2021 <i>BK</i>	PROJECT 44 LOT RESIDENTIAL SUBDIVISION OBSIDIAN STREET, WOODLINKS LV SCHEMATIC AND LABELS
CHECKED: B.KUNDE	DRAWING: A211245
DESIGNER: B.KUNDE	PROJECT: 211245
ISSUE DATE: 01.11.21	SHEET 3 OF 3



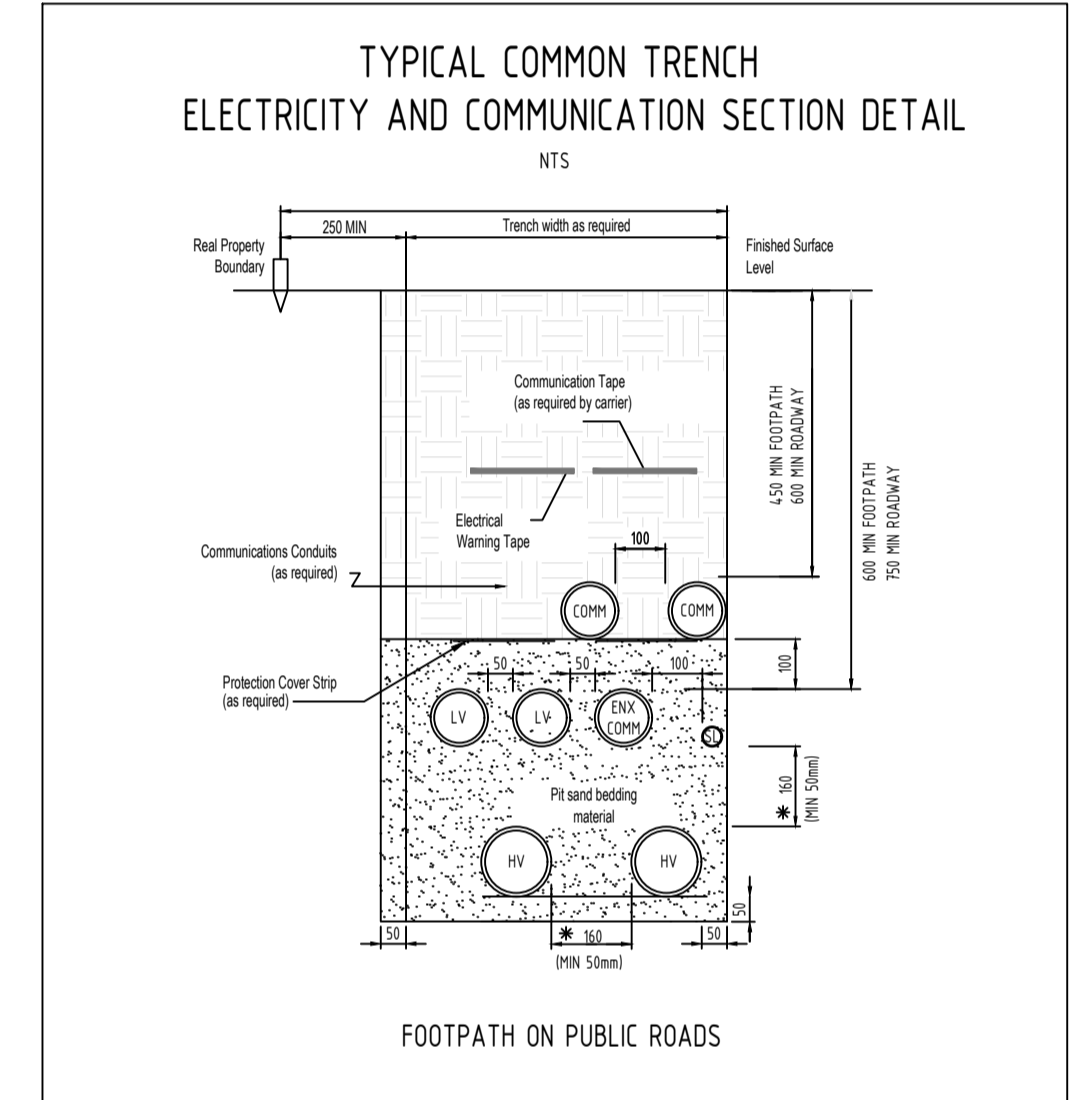
### SDU Development Information

Development Name: WOODLINKS STAGE 22	
Developer Company: CEC No 36 Pty Ltd	
Development Address: 7001 COLLINGWOOD DR, COLLINGWOOD PARK	
Authorised Rep: Ampflo Pty Ltd	
Phone: 01 3372 9280	
E-Mail: <a href="mailto:comms@ampflo.com.au">comms@ampflo.com.au</a>	
nbn Reference Number: STG-M000067955	Stage Number: 22
	Design Revision: B



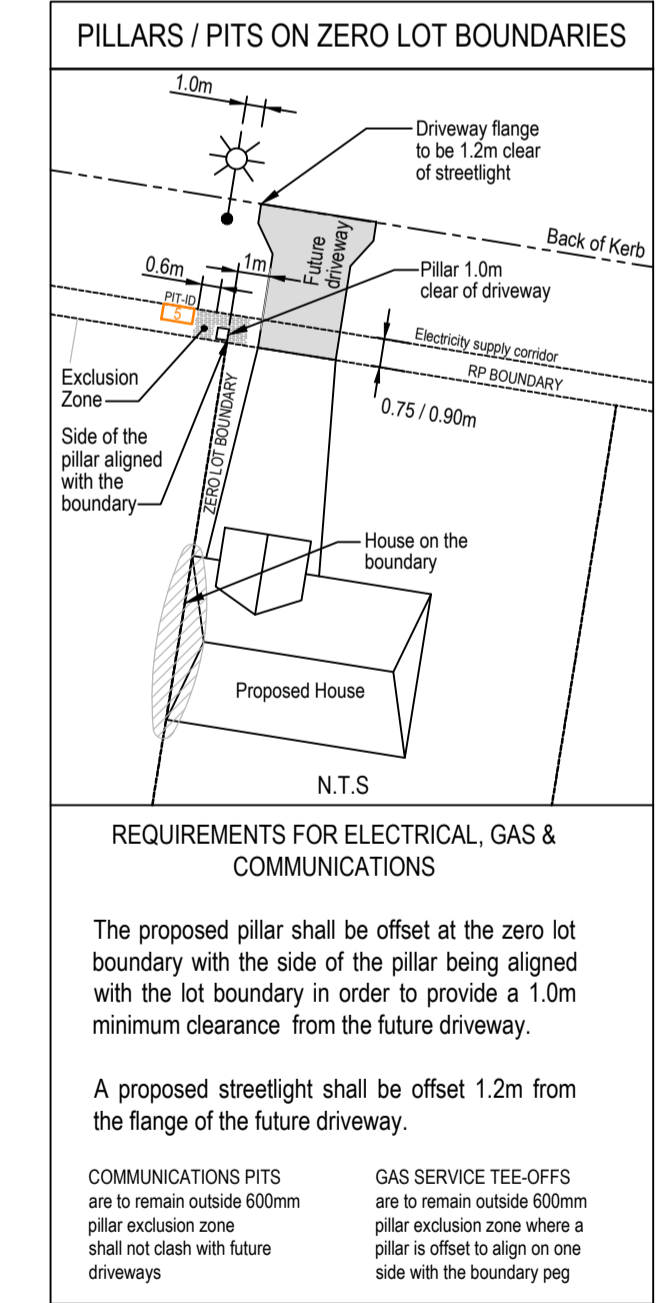
COMMS PIT LOCATION DETAIL

BILL OF MATERIAL				
NO OF LOTS: 44				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	5	P100	15	539.3
5	11	P50	6	173.9
6	2	P20	4.2	244.5
8	1			
9	0			
TOTAL NUMBER OF PITS: 19				
TOTAL NUMBER OF MANHOLES: 0				
TOTAL NUMBER OF CONDUITS: 63				
TOTAL LENGTH OF CONDUITS: 957.7				
Total Rod & Rope = 648.7				



**DO NOT CONSTRUCT ANY CONCRETE DRIVEWAYS OR CROSSOVERS UNTIL ELECTRICAL & COMMUNICATIONS WORKS ARE COMPLETED**

**DEVELOPER TO SUBMIT AS BUILT DESIGNS TO AMPFLO AT [comms@ampflo.com.au](mailto:comms@ampflo.com.au) TO BE PROCESSED BY NBN**



**TO BE BUILT IN CONJUNCTION WITH ELECTRICAL RETICULATION A211245**

LEGEND	
	EXISTING TELSTRA UG CABLE
	EXISTING AERIAL CABLE
	TELSTRA PLANT IN SHARED UTILITY TRENCH
	PROPOSED NBN UNDERGROUND CONDUIT IN SHARED UTILITY TRENCH
	Service Drop Access Pit (650mmx280mmx565mm)
	Network Boundary/Local Network Pit (Single Lid) (700mmx450mmx850mm)
	Distribution/Local Network Connection Pit (1360mmx555mmx860mm)
	Fibre Distribution Hub (FDH) Pit (2000mmx555mmx900mm)
	Existing Telstra manhole
	Existing Telstra Pit ( 2,3,4,5,6,7,8,9 )
	Telstra exchange
	Example of Telstra Major Conduit Layout with Proposed duct marked to be used by NBN
	Premise Connection Device (PCD)
	Fan Access Node site (FAN)
	Multi Dwelling Unit (MDU)

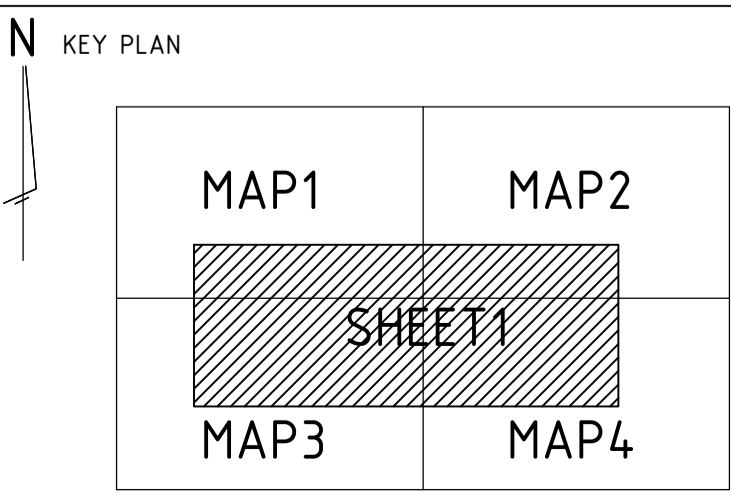
- NOTES**
- INSTALL PIT AND PIPE INFRASTRUCTURE TO NBN Co SPECIFICATION AND STANDARDS. NBN Co PIT AND CONDUIT INFRASTRUCTURE GUIDE LINES FOR DEVELOPERS CAN BE FOUND ONLINE AT <http://www.nbnco.com.au/industry/new-developments.html>
  - PIT AND PIPE INFRASTRUCTURE TO BE INSPECTED BY NBN Co AFTER INSTALLATION.
  - INSTALL P23 LEAD-IN PIPES FROM PIT TO PROPERTY ENTRY POINT AND PLUG.
  - ALL CONDUITS TO BE INSTALLED IN JOINT USE TRENCH UNLESS DETAILED OTHERWISE.
  - ALL MATERIALS SHALL BE TO NBN Co SPECIFICATION. ALTERNATIVES WILL ONLY BE ACCEPTED IF AGREED TO IN WRITING BY NBN Co.
  - THE LOCATION OF PIT AND PIPE INFRASTRUCTURE SHALL ALSO COMPLY WITH THE REQUIREMENTS OF ENERGEX.
  - CONSTRUCTOR TO CONFIRM FINAL LOCATION OF PROPOSED DRIVEWAYS AND SERVICES PRIOR TO CONSTRUCTION. NBN Co PITS TO BE INSTALLED CLEAR OF DRIVEWAYS & OTHER SERVICES INCLUDING ALL PROPOSED.



**APPROVED FOR CONSTRUCTION**

**STRICTLY CONFIDENTIAL**

NBNCO APPROVAL RECORD:	
SIGNATURE	DATE
<input type="checkbox"/> DD	
<input type="checkbox"/> WD	
<input type="checkbox"/> AB	
QUALITY RECORD :	
NBNCO DISCLAIMER	
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DRAWING TITLE: STG-M000067955 WOODLINKS STAGE 22 Pit & Pipe Design 7001 COLLINGWOOD DRIVE, COLLINGWOOD PARK		
ENABLE#:		
STATE: QLD	REGION:	
FSA:	SAM:	ADA:
PROJECT No: 211245		
CADREF No: T211245		
SCALE 1:500	SHEET No. 1	OF 1
	REV. 1	B



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	15.05.2021	HG	UPGRADED PIT No18 FROM 5 TO 6	JB
A	27.05.21	H.GORDON	PRELIMINARY ISSUE	JB