

WOODLINKS VILLAGE STAGE 11

COLLINGWOOD DRIVE, COLLINGWOOD PARK

FOR 'CANBERRA ESTATES CONSORTIUM NO.36 PTY LTD'

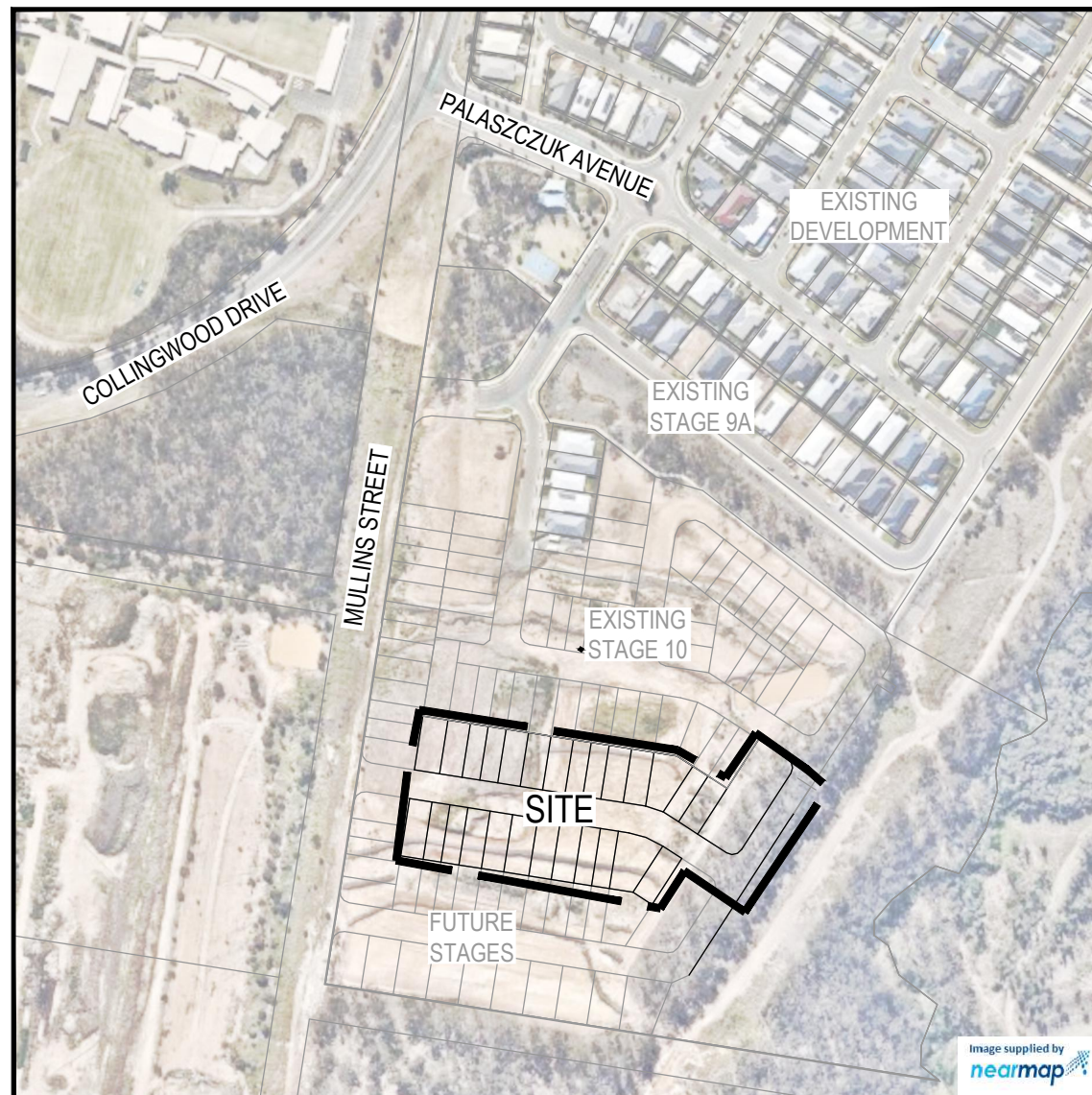
DRAWING LIST

EARTHWORKS, ROADWORKS AND DRAINAGE

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- 22-0173-101 GENERAL NOTES
- 22-0173-102 BULK EARTHWORKS LAYOUT PLAN
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LOCALITY PLAN
SCALE 1:2000 (A1)
SCALE 1:4000 (A3)

PROJECT INFORMATION SUMMARY:
No. OF LOTS = 27
AREA OF SITE = 1.501 ha
RP DESCRIPTION LOT 1 ON SP 266990
DATUM LEVEL AND LOCATION P.M. 110122 RL 40.320 AHD
LOCAL AUTHORITY: IPSWICH CITY COUNCIL
COUNCIL REFERENCE NUMBER: 2558/2014/MAMC

NOTE:
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
- STORMWATER MANAGEMENT PLAN REPORT

AS-CONSTRUCTED CERTIFICATION
Signature:  Date: 29/09/23
DANIEL COLLINS RPEQ No. 18631
For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION		AS CONSTRUCTED	1:2000 20 0 20 40 60 80 100 A1 1:4000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	COVER PLAN
B	29.09.23	CL	BP	AS CONSTRUCTED						
					DESIGN	APPROVED		ASSOCIATED CONSULTANT		
					DANIEL COLLINS	RPEQ 18631		SAUNDERS HAVILL GROUP		
								PH: 1300 123 744		
									COOLINGWOOD DRIVE, COOLINGWOOD PARK	
										PROJECT No. 22-0173
										DRAWING No. 100
										REVISION 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. RETAINING WALL SUBSOIL DRAIN CONNECTION INTO KERB SUBSOIL DRAIN IS NOT ACCEPTABLE TO COUNCIL.
9. THE CONTRACTOR SHALL ENSURE THAT ALL RETAINING WALL SUBSOIL DRAINS ARE NOT CONNECTED TO KERB SUBSOIL DRAINS. CONTRACTOR TO DEMONSTRATE TO SUPERINTENDENT THAT SUITABLE CONNECTIONS HAVE BEEN PROVIDED FOR ALL WALLS.
10. ALL STORMWATER DRAINAGE MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITIES STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
11. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS THE SUITABILITY OF MACHINERY USED ON SITE AND THE ANTICIPATED CONSTRUCTION LOADS, AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS3725-2007.
12. THE TERM D₅₀ DOCUMENTED ON THE DRAWINGS, IN RELATION TO ROCK ARMORING, CORRESPONDS TO THE REQUIRED MEDIAN DIAMETER OF THE PLACED ROCKS. THE ROCKS USED SHALL NOT VARY IN SIZE BY +/- 30% OF THE PROPOSED D₅₀ SIZE.

ROOFWATER NOTES

1. THE GEOMETRIC CENTRE SHALL BE TAKEN AS THE SETOUT POINT FOR ALL STRUCTURES, UNLESS DETAILED OTHERWISE.
2. ROOFWATER ALIGNMENT, COVER, MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
3. ALL PVC PIPES ARE TO BE MINIMUM CLASS SN8.
4. END CAPS SHALL BE INSTALLED ON ENDS OF ALL PIPES AND STUBS.
5. WHERE ROOFWATER PIPES ARE ALIGNED BEHIND PROPOSED RETAINING WALLS, THE CONTRACTOR IS TO REFER TO THE SPECIFIC PROJECT DESIGN DETAILS AND CONFIRM CLEARANCES WITH THE SUPERINTENDENT PRIOR TO LAYING OF THE PIPES.
6. PROPERTY CONNECTIONS SHALL BE 150Ø UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL EXTEND CONNECTIONS A MINIMUM OF 1.0m BEYOND ADJACENT SEWER LINES, WHERE APPLICABLE.
7. IN INSTANCES WHERE REAR ALLOTMENT DRAINAGE IS NOT PROVIDED, THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:
 - TWO ROOFWATER KERB ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE IN ACCORDANCE WITH COUNCIL'S STANDARDS.
 - ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

AS-CONSTRUCTED CERTIFICATION
 Signature:  Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE				
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION				CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	GENERAL NOTES				
B	29.09.23	CL	BP	AS CONSTRUCTED		AS CONSTRUCTED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 22-0173	DRAWING No. 101
						DESIGN APPROVED DANIEL COLLINS RPEQ 18631								
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD														

EARTHWORKS NOTE:

- IT IS ASSUMED THAT STAGE 10 WILL INTERFACE WITH THE BULK EARTHWORKS SURFACE INCLUDED IN THE STAGE 9 OPERATIONAL WORKS PACKAGE U.N.O.
- REFER 18-0176-400 SERIES FOR OVERALL EARTHWORKS AND FURTHER DETAILS OF EARTHWORKS INTERFACING WITH FUTURE STAGES

THE CONTRACTOR MUST SUBMIT TO THE SUPERINTENDANT A COPY OF ALL RELEVANT BUILDING APPROVALS AND ASSOCIATED DESIGN AND CONSTRUCTION FOR ALL EARTH RETAINING STRUCTURES THAT ARE NOT APPROVED BY THIS DEVELOPMENT PERMIT AND ARE CONSIDERED BUILDING WORKS IN ACCORDANCE WITH BUILDING ACT 1975.

BATTER 1:6 OR STEEPER ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.

BULK EARTHWORKS MUST REMAIN WITHIN SITE BOUNDARY

HOLD POINT:

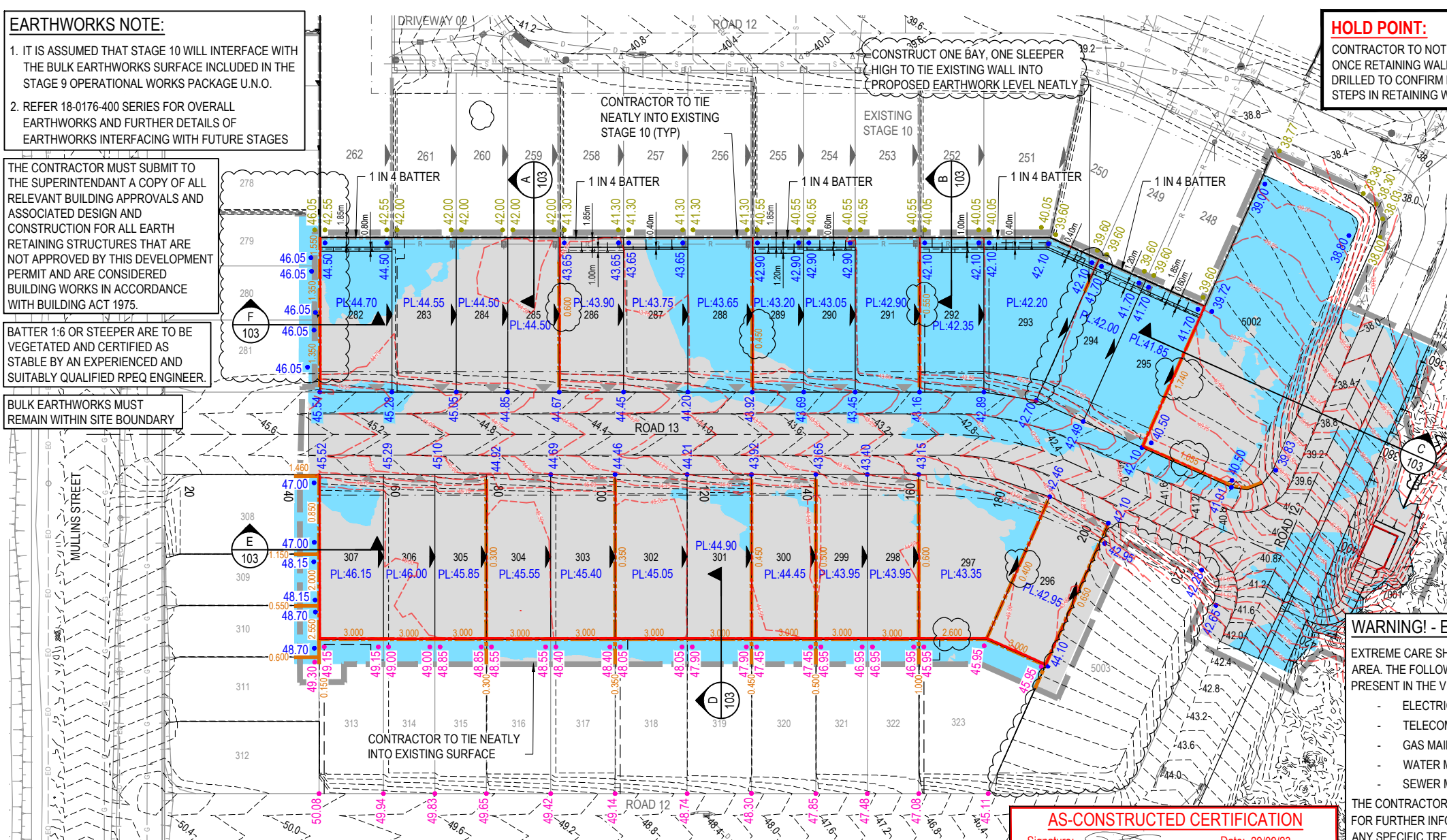
CONTRACTOR TO NOTIFY SUPERINTENDANT ONCE RETAINING WALL POST HOLES ARE DRILLED TO CONFIRM LOCATION OF REQUIRED STEPS IN RETAINING WALL SLEEPERS.

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED SLEEPER RETAINING WALL
- AVERAGE RETAINING WALL HEIGHT
- EXISTING SLEEPER RETAINING WALL
- PROPOSED PAD LEVEL (PL) (INCLUDES TOPSOIL PLACEMENT)
- EXISTING SURFACE LEVEL (ESL)
- FUTURE SURFACE LEVEL
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- EXISTING SEWERAGE MAIN
- EXISTING WATER MAIN
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE O/H
- EXISTING GAS MAIN
- EXISTING DRAINAGE SWALE

ASCON LEGEND

AS CONSTRUCTED CONTOUR



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.

EARTHWORKS VOLUMES

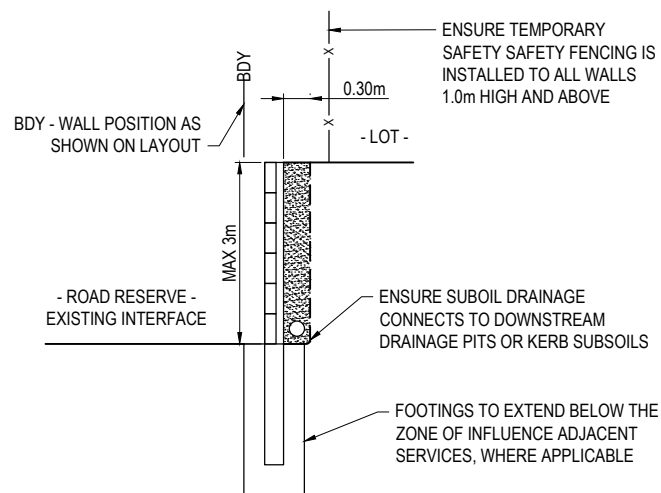
CUT:	-9,528m ³
FILL:	4,261m ³
BAL:	-5,267m ³ (SPOIL)

NOTE:

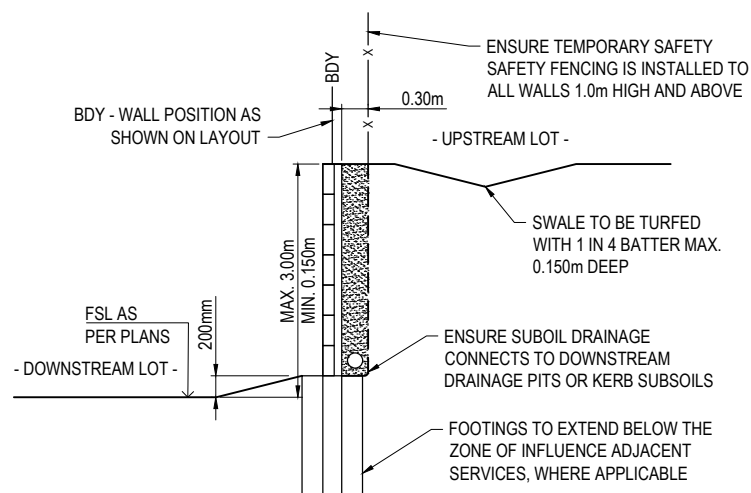
1. VOLUMES SHOWN ARE SOLID VALUES ONLY. NO ALLOWANCES FOR BULKING, COMPACTION, ROAD BOXING, UNSUITABLE MATERIALS.

AS-CONSTRUCTED CERTIFICATION

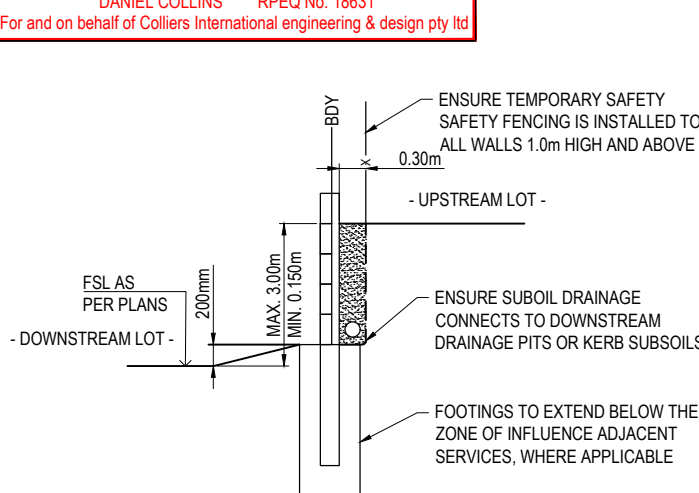
Signature: _____ Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd



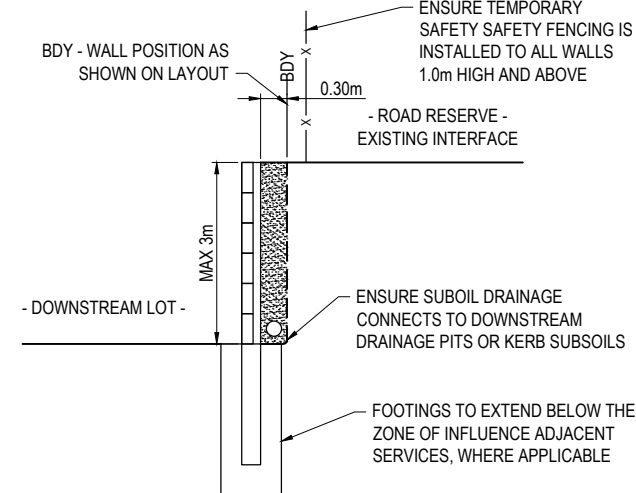
CONCRETE SLEEPER RETAINING WALL TYPICAL DETAIL (FRONTING ROAD RESERVE OR EXISTING INTERFACE) DOWNSTREAM
 SCALE 1:25 (A1)



CONCRETE SLEEPER RETAINING WALL - TYPICAL DETAIL (BETWEEN ALLOTMENTS - REAR WALL)
 SCALE 1:25 (A1)



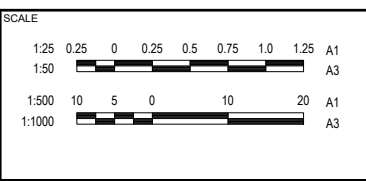
CONCRETE SLEEPER RETAINING WALL - TYPICAL DETAIL (BETWEEN ALLOTMENTS - SIDE WALL)
 SCALE 1:25 (A1)



CONCRETE SLEEPER RETAINING WALL TYPICAL DETAIL (FRONTING ROAD RESERVE OR EXISTING INTERFACE) UPSTREAM
 SCALE 1:25 (A1)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION
B	11.04.23	CL	AK	LOT 280 LEVEL UPDATED. WALL BETWEEN LOT 280 AND 281 REMOVED
C	17.04.23	CL	AK	LEVEL AND RETAINING WALL AVERAGE HEIGHT AMENDMENTS. WALL BETWEEN LOT 293 AND 294 REMOVED
D	29.09.23	CL	BP	AS CONSTRUCTED

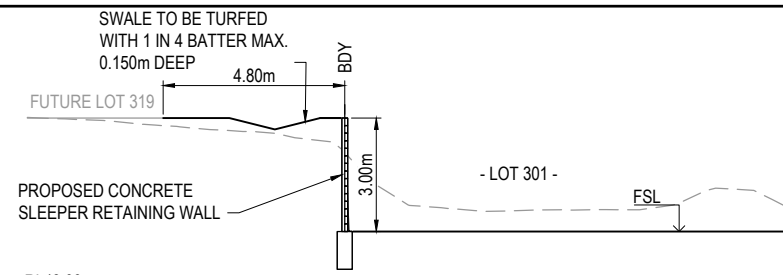
DRAWN	STATUS
DANIEL COLLINS	AS CONSTRUCTED
DANIEL COLLINS	RPEQ 18631



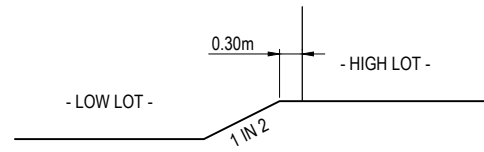
CLIENT
CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED
 ASSOCIATED CONSULTANT
 SAUNDERS HAVILL GROUP
 PH: 1300 123 744

PROJECT NAME
WOODLINKS VILLAGE - STAGE 11
 COOLINGWOOD DRIVE,
 COOLINGWOOD PARK

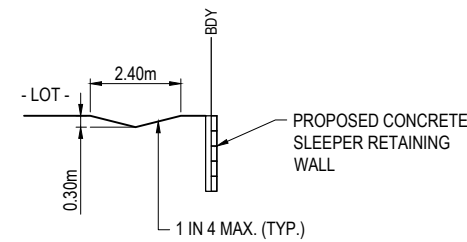
DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
BULK EARTHWORKS LAYOUT PLAN	22-0173	102	D



RL43.00
SECTION D
SCALE 1:100 (A1)
SCALE 1:200 (A3)



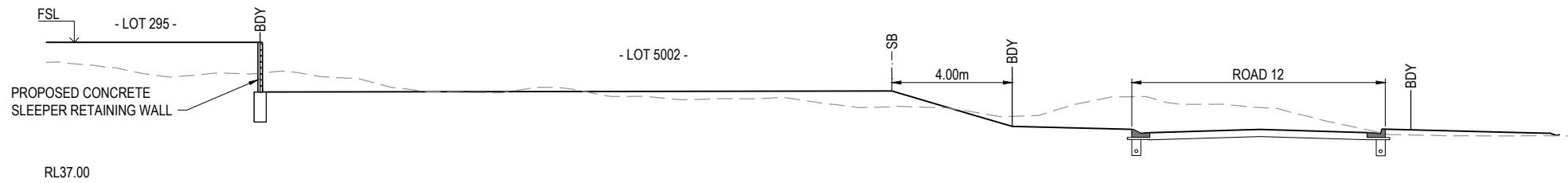
TYPICAL STEP BETWEEN LOTS DETAIL
SCALE 1:50 (A1)
SCALE 1:100 (A3)



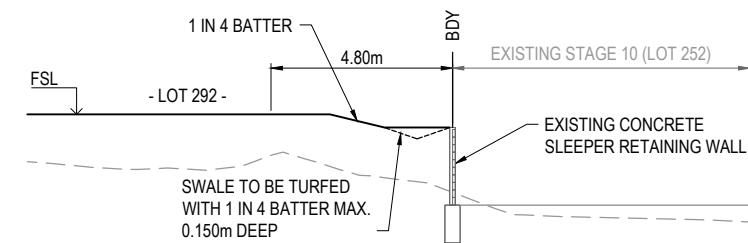
TYPICAL REAR ALLOTMENT SWALE DETAIL
SCALE 1:00 (A1)

- RETAINING WALL NOTES:**
1. ALL RETAINING WALLS ARE TO BE STRUCTURALLY DESIGNED AND CERTIFIED. FORMS 15 AND 16 ARE TO BE PROVIDED.
 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. WALLS TO BE DESIGNED TO ACCOMMODATE A SURCHARGE SUITABLE FOR A RESIDENTIAL HOUSE IMMEDIATELY BEHIND THE WALL. REFER TYPICAL DETAIL.

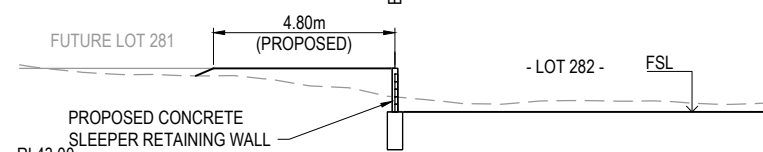
WHERE EARTH RETAINING STRUCTURES FACE THE PUBLIC REALM THAT THEY ARE CONSTRUCTED EITHER OF A-GRADE SAWCUT SANDSTONE BLOCKS OR CONCRETE SLEEPERS WHICH ARE PROVIDED WITH TEXTURED FINISH AND FULL DEPTH COLOUR TREATMENT



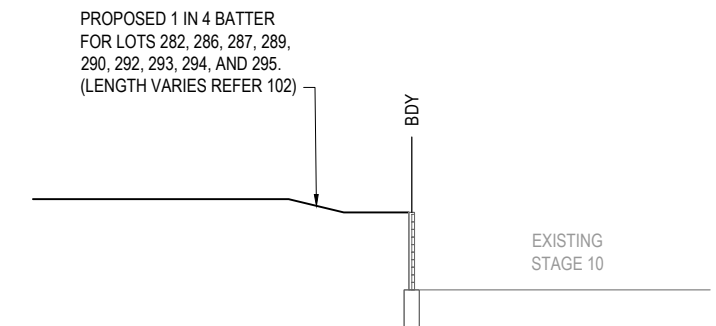
RL37.00
SECTION C
SCALE 1:100 (A1)
SCALE 1:200 (A3)



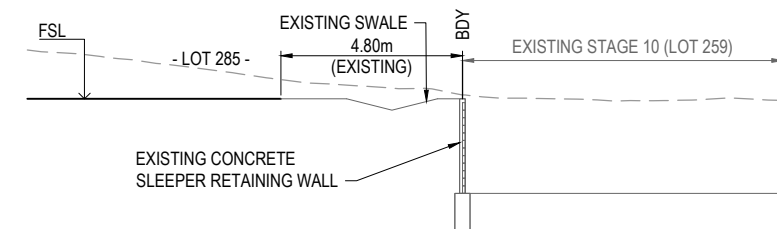
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SCALE 1:200 (A3)



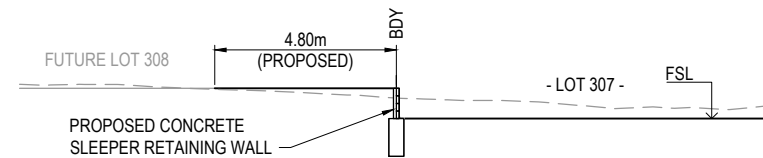
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SECTION F
SCALE 1:100 (A1)
SCALE 1:200 (A3)



TYPICAL STEP IN EXISTING LOTS DETAIL
SCALE 1:50 (A1)
SCALE 1:100 (A3)

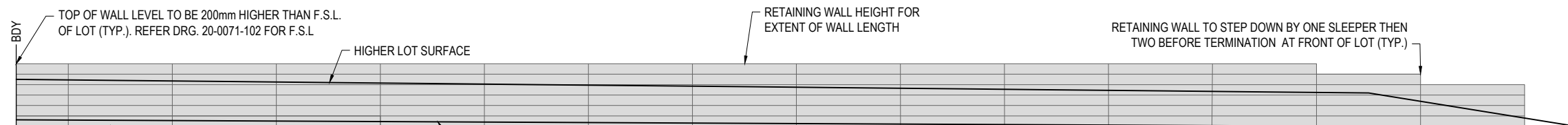


RL40.00
SECTION A
SCALE 1:100 (A1)
SCALE 1:200 (A3)



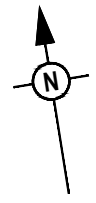
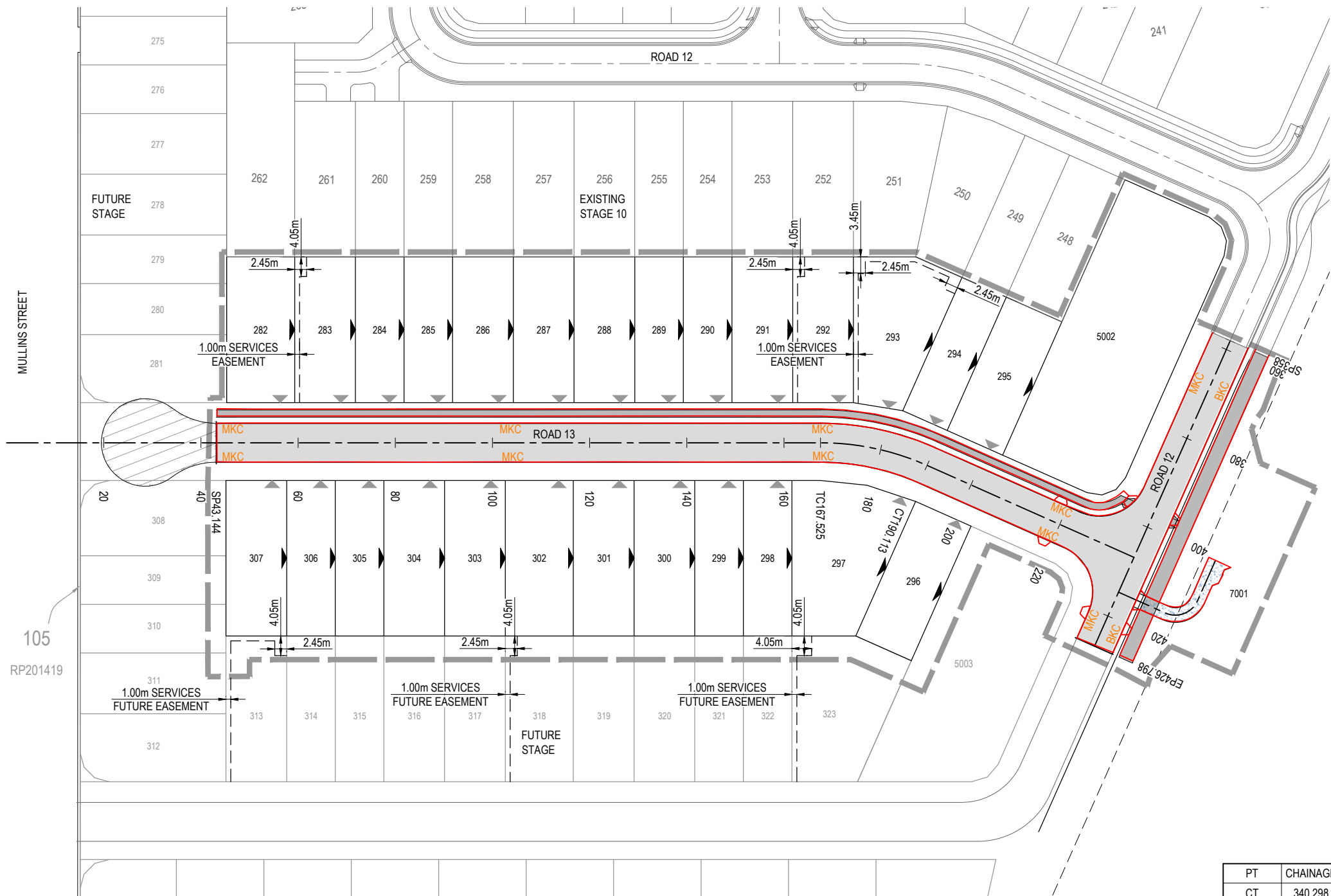
RL44.00
SECTION E
SCALE 1:100 (A1)
SCALE 1:200 (A3)

AS-CONSTRUCTED CERTIFICATION
Signature: Date: 29/09/23
DANIEL COLLINS RPEQ No. 18631
For and on behalf of Colliers International engineering & design pty ltd



TYPICAL INTER-ALLOTMENT WALL HEIGHT DETAIL
SCALE 1:50 (A1)
SCALE 1:100 (A3)

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED	1:100 1:200	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	BULK EARTHWORKS TYPICAL SECTIONS
B	29.09.23	CL	BP	AS CONSTRUCTED					SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 22-0173 DRAWING No. 103 REVISION B



- LEGEND**
- PROPOSED AREA OF WORKS
 - PROPOSED NEW ROAD PAVEMENT
 - PROPOSED ROAD CONTROL LINE
 - PROPOSED MOUNTABLE KERB AND CHANNEL 'TYPE M1'
 - PROPOSED BARRIER KERB AND CHANNEL 'TYPE B1'
 - PROPOSED KERB TRANSITION LOCATION
 - PROPOSED CONCRETE PATH AND PRAM RAMP
 - INDICATIVE DRIVEWAY LOCATION
 - ZERO LOT BOUNDARY

- ASCON LEGEND**
- EDGE OF ROAD
 - FOOTPATH

AS-CONSTRUCTED CERTIFICATION

Signature: Date: 29/09/23

DANIEL COLLINS RPEQ No. 18631

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

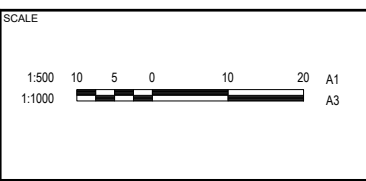
CONTROL LINE SETOUT - ROAD 12

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
CT	340.298	6009.845	3331.262	37.919	212°53'01.07"			
TC	458.355	5945.748	3232.121	44.312	212°53'01.07"			
IP 6	465.443	5941.408	3225.409	44.733		R = 12.300	14.176	66°01'59.01"
CT	472.531	5933.512	3226.648	45.135	278°55'00.08"			

CONTROL LINE SETOUT - ROAD 13

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	5748.159	3334.683		98°55'00.13"			
TC	167.525	5913.659	3308.717	42.943	98°55'00.13"			
IP 2	178.819	5924.982	3306.940	42.677		R = 54.000	22.588	23°58'00.94"
CT	190.113	5934.607	3300.717	42.410	122°53'01.07"			
IP 3	236.712	5973.740	3275.417	40.760	122°53'01.07"			

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION				1:500 1:1000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SURVEY SETOUT AND KERB TYPES LAYOUT PLAN
B	29.09.23	CL	BP	AS CONSTRUCTED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 22-0173
											DRAWING No. 105
											REVISION B



ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

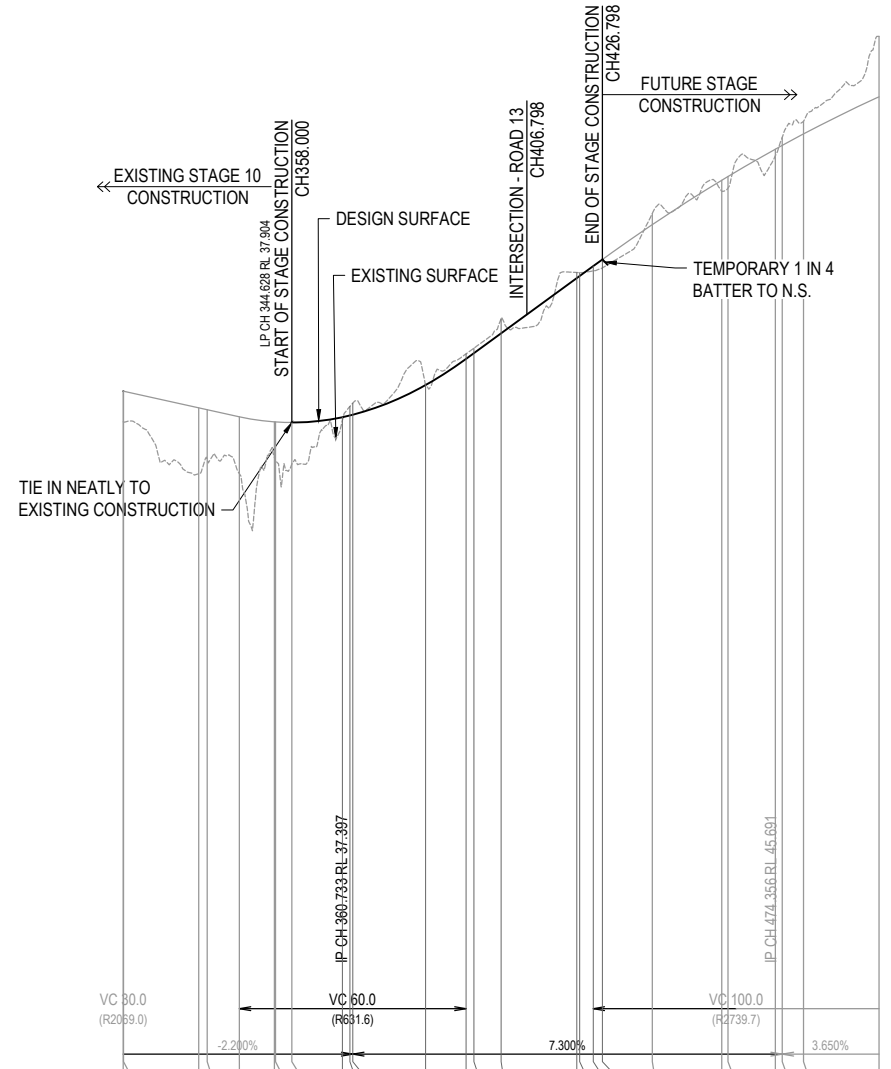
ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 12	ACCESS STREET	1.0 x 10 ⁵	3	35mm	125mm	100mm	160mm	420mm

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

PAVEMENT DESIGN SUBJECT TO COUNCIL APPROVAL FOLLOWING INSITU CBR TESTING.

AS-CONSTRUCTED PAVEMENT DETAILS

LOCATION	SECTION	ROAD CLASS	DESIGN CBR	TOTAL PAVEMENT DEPTH	A C	BASE COURSE TYPE (2.1)	UPPER SUB-BASE TYPE (2.3)	LOWER SUB-BASE TYPE (2.5)	SUBGRADE TREATMENT
ROAD 12	CH358 - CH390	A1	3.5%	395mm	35mm	125mm	100mm	135mm	-
ROAD 12	CH390 - CH427	A1	4.0%	375mm	35mm	125mm	100mm	115mm	-

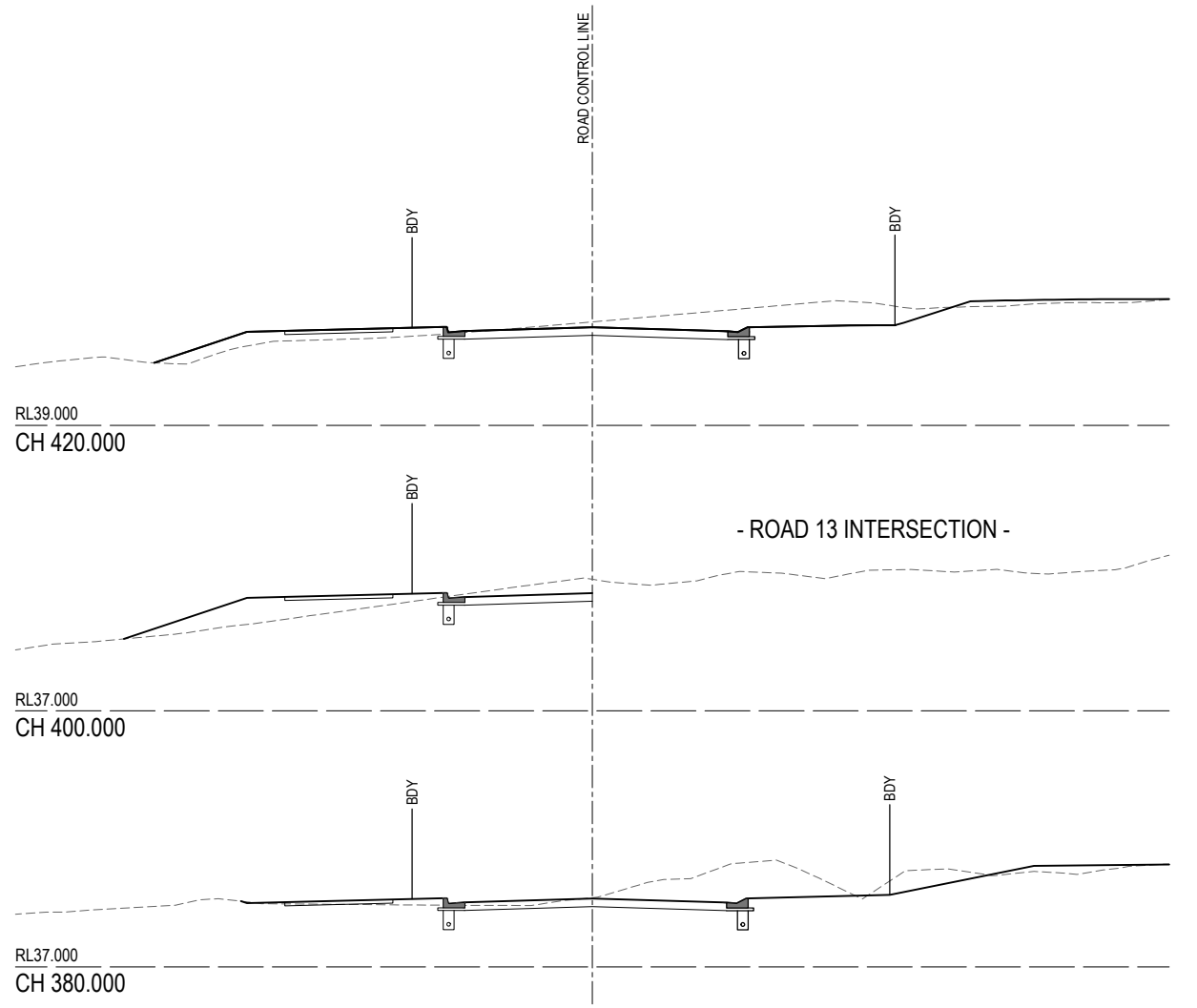


DATUM RL 20.0

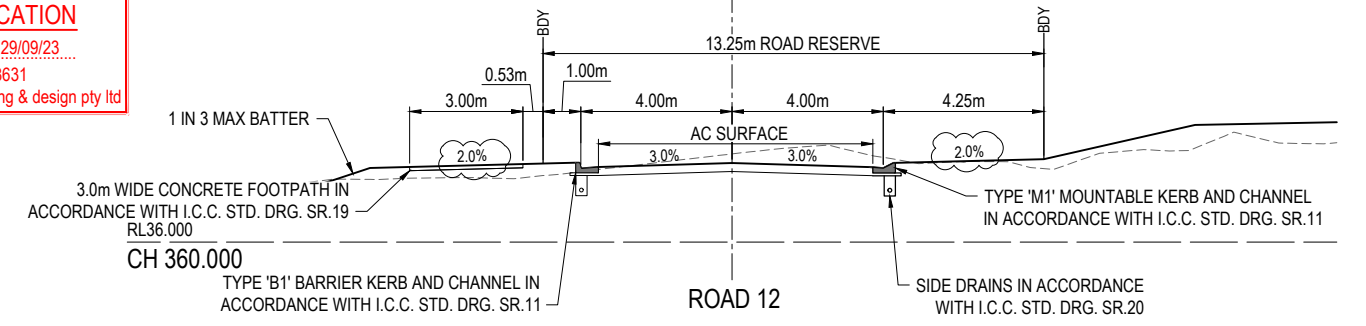
CUT (-) / FILL	0.810	0.810	1.746	1.316	1.499	0.940	1.048	0.087	0.241	-0.305	-0.022	-0.135	-0.133	-0.385	-0.148	-0.087	0.127	0.223	-0.296	0.286	0.305	0.173	-0.213	-0.334	-1.597	
LHS LIP LEVEL	EXISTING STAGE												FUTURE WORKS													
RHS LIP LEVEL													#													
DESIGN SURFACE	38.733	38.731	38.293	38.244	38.057	37.921	37.919	38.046	38.091	38.109	38.895	38.786	39.587	39.738	40.263	41.723	41.782	42.041	42.219	43.139	44.312	44.412	45.135	45.235	45.538	46.519
EXISTING SURFACE	37.923	37.922	36.547	36.928	36.558	36.981	36.871	37.959	38.332	38.414	38.916	38.916	39.722	39.871	40.648	41.871	41.868	41.914	42.219	43.435	44.026	44.106	44.961	45.448	45.872	48.116
CHAINAGES	300.000	300.073	320.000	322.234	330.733	340.000	344.628	358.000	360.000	360.733	380.000	390.733	392.798	400.000	420.000	420.798	424.356	426.798	440.000	458.355	460.000	472.531	474.356	480.000	500.000	
HORIZONTAL CURVES	R11.500												R12.300													

REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 12

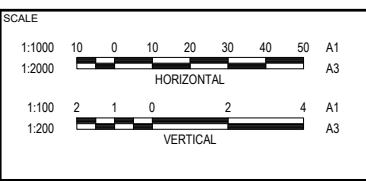


AS-CONSTRUCTED CERTIFICATION
 Signature: [Signature] Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd



REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION	
B	29.09.23	CL	BP	AS CONSTRUCTED	

DRAWN	STATUS
DANIEL COLLINS	AS CONSTRUCTED



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

PROJECT NAME
WOODLINKS VILLAGE - STAGE 11
 COOLINGWOOD DRIVE,
 COOLINGWOOD PARK

DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
ROAD 12 LONGITUDINAL SECTION AND CROSS SECTIONS	22-0173	106	B

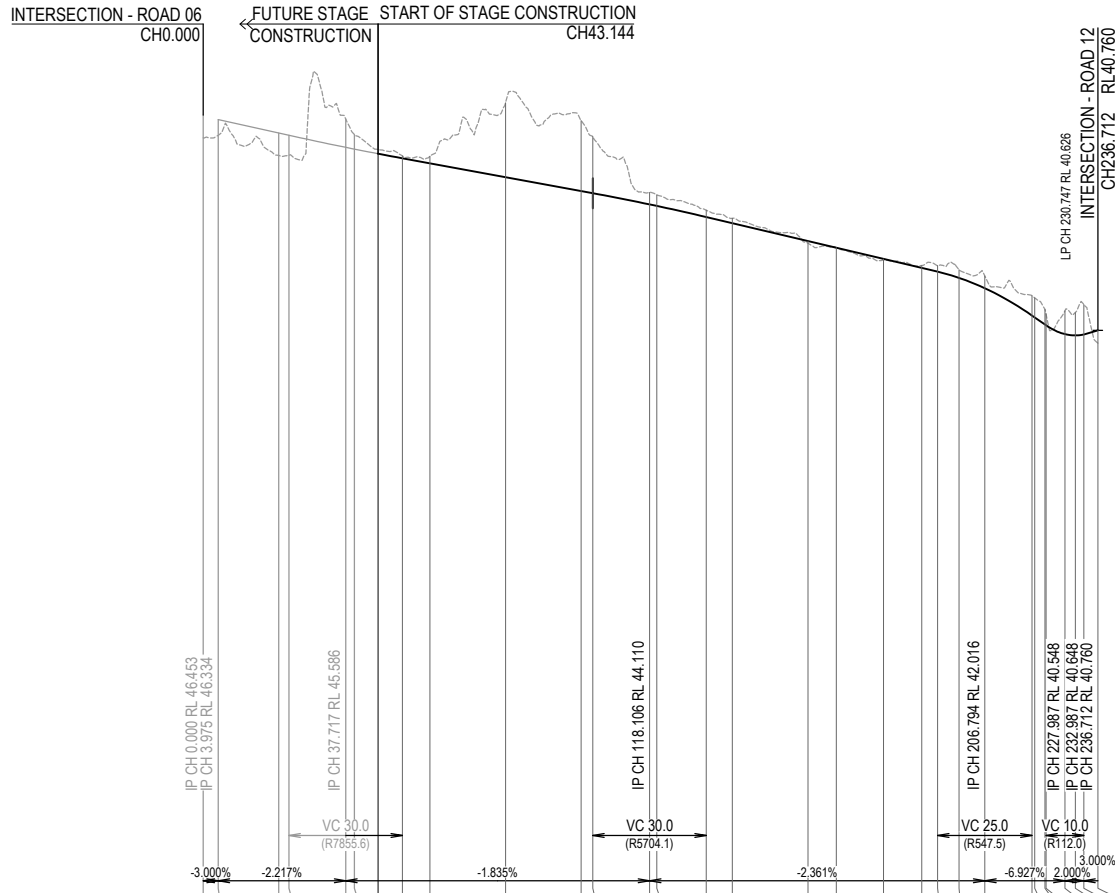
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 13	ACCESS STREET	1.0 x 10 ⁵	3	35mm	125mm	100mm	160mm	420mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN. PAVEMENT DESIGN SUBJECT TO COUNCIL APPROVAL FOLLOWING INSITU CBR TESTING.

AS-CONSTRUCTED PAVEMENT DETAILS

LOCATION	SECTION	ROAD CLASS	DESIGN CBR	TOTAL PAVEMENT DEPTH	A C	BASE COURSE TYPE (2.1)	UPPER SUB-BASE TYPE (2.3)	LOWER SUB-BASE TYPE (2.5)	SUBGRADE TREATEMENT
ROAD 13	CH43 - CH100	A1	5.0%	360mm	35mm	125mm	100mm	100mm	-
ROAD 13	CH100 - CH200	A1	4.5%	360mm	35mm	125mm	100mm	100mm	-
ROAD 13	CH200 - CH237	A1	4.0%	375mm	35mm	125mm	100mm	115mm	-



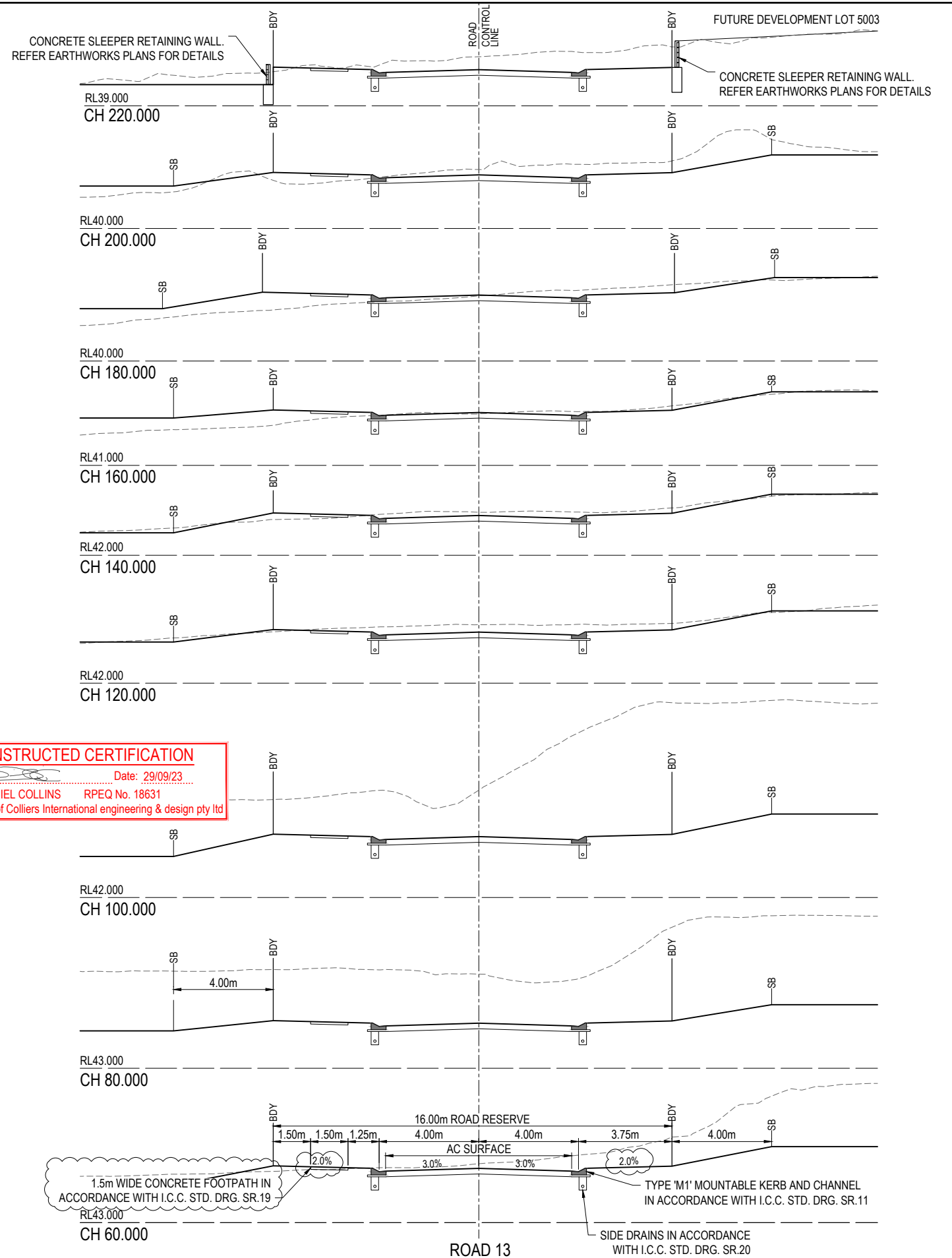
DATUM RL 25.0

CUT (-) / FILL	0.602	0.415	0.591	0.525	-0.750	-0.387	-0.064	-0.187	-1.969	-1.865	-1.502	-0.318	-0.294	-0.180	-0.128	0.054	-0.005	0.030	-0.065	-0.163	-0.216	-0.324	-0.521	-0.519	-0.403	-0.298	-0.615	-0.695	-0.798	0.342	
LHS LIP LEVEL	FUTURE WORK																#														
RHS LIP LEVEL	FUTURE WORK																#														
DESIGN SURFACE	46.453	46.334	45.978	45.918	45.600	45.554	45.310	45.177	44.810	44.443	44.396	44.090	44.050	43.756	43.593	43.121	42.943	42.649	42.410	42.311	42.035	41.873	41.150	41.101	40.989	40.894	40.660	40.626	40.648	40.760	
EXISTING SURFACE	45.851	45.919	45.987	45.994	46.350	45.941	45.554	45.374	45.363	46.779	46.308	45.888	44.408	44.345	43.936	43.722	43.067	42.948	42.619	42.474	42.474	42.311	42.147	41.873	41.671	41.620	41.315	41.275	41.231	41.446	40.648
CHAINAGES	0.000	3.975	20.000	22.717	37.717	40.000	43.144	52.717	60.000	80.000	100.000	103.106	118.106	120.000	133.106	140.000	160.000	167.525	180.000	190.113	194.294	200.000	206.794	219.294	220.000	222.721	227.987	230.747	232.987	236.712	
HORIZONTAL CURVES																	R54.000														

REFER INTERSECTION DRAWINGS FOR LIP LEVELS

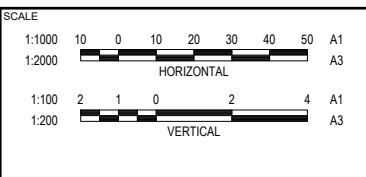
ROAD 13

AS-CONSTRUCTED CERTIFICATION
 Signature: _____ Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd



REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION	
B	29.09.23	CL	BP	AS CONSTRUCTED	

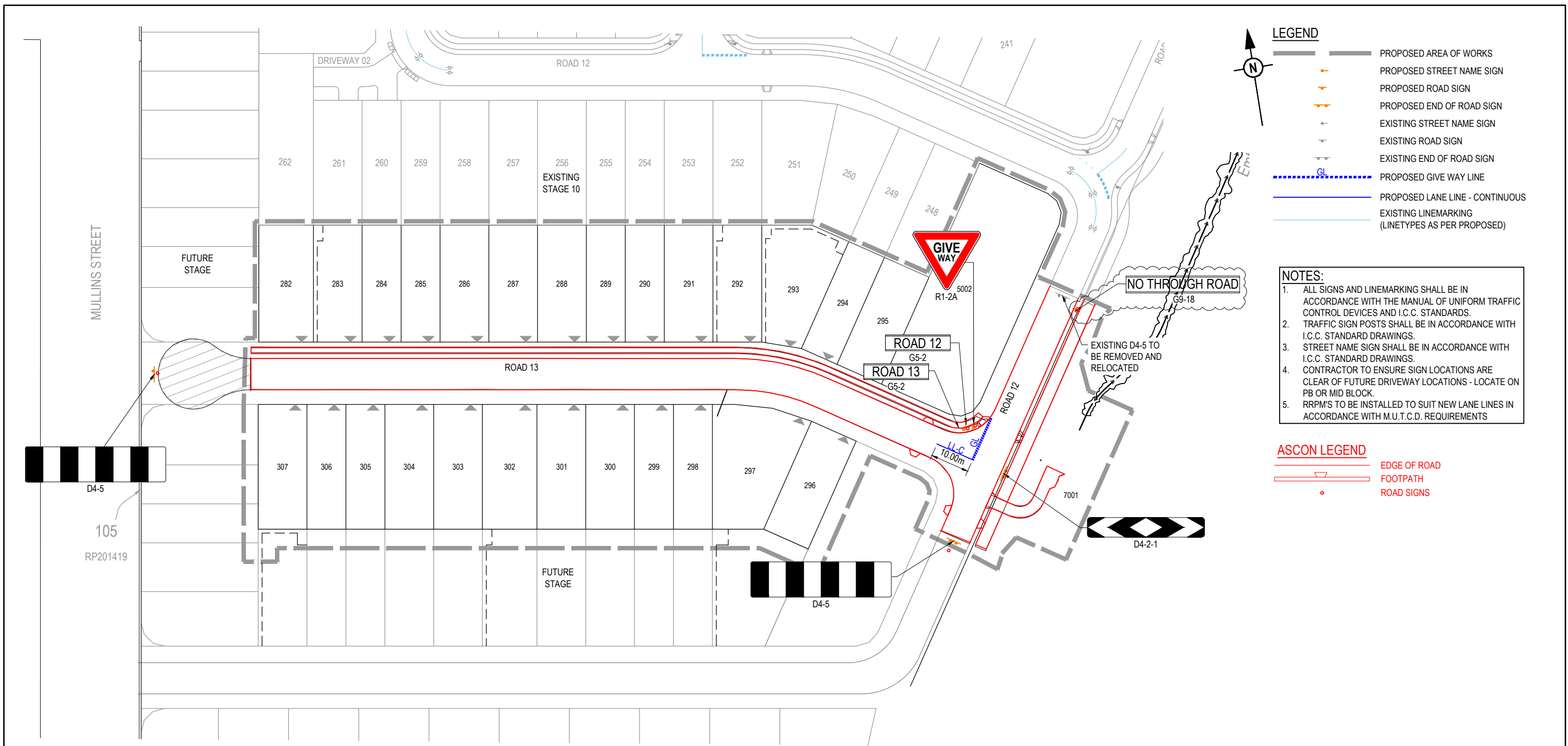
DRAWN	STATUS
DANIEL COLLINS	AS CONSTRUCTED



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

PROJECT NAME
WOODLINKS VILLAGE - STAGE 11
 COOLINGWOOD DRIVE,
 COOLINGWOOD PARK

DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
ROAD 13 LONGITUDINAL SECTION AND CROSS SECTIONS	22-0173	107	B



LEGEND

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

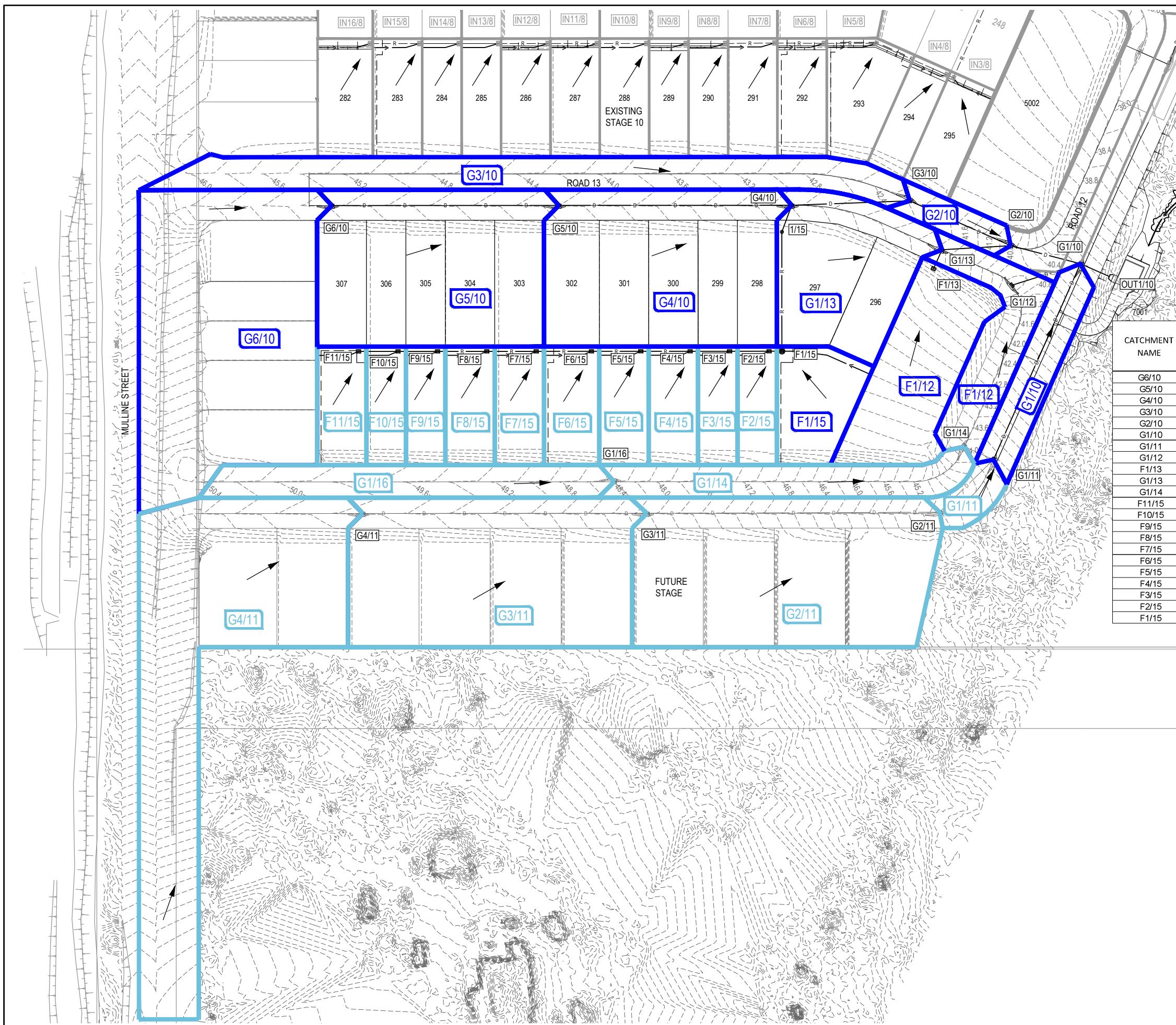
- NOTES:**
- ALL SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND I.C.C. STANDARDS.
 - TRAFFIC SIGN POSTS SHALL BE IN ACCORDANCE WITH I.C.C. STANDARD DRAWINGS.
 - STREET NAME SIGN SHALL BE IN ACCORDANCE WITH I.C.C. STANDARD DRAWINGS.
 - CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF FUTURE DRIVEWAY LOCATIONS - LOCATE ON PB OR MID BLOCK.
 - RRPM'S TO BE INSTALLED TO SUIT NEW LANE LINES IN ACCORDANCE WITH M.U.T.C.D. REQUIREMENTS

ASCON LEGEND

	EDGE OF ROAD
	FOOTPATH
	ROAD SIGNS

AS-CONSTRUCTED CERTIFICATION
 Signature: _____ Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION		AS CONSTRUCTED	1:500 1:1000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SIGNS AND LINEMARKING LAYOUT PLAN		
B	29.09.23	CL	BP	AS CONSTRUCTED								
DESIGN APPROVED DANIEL COLLINS RPEQ 18631							ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 22-0173	DRAWING No. 109	REVISION B
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD							Colliers					



LEGEND

- G1/11 CATCHMENT NAME
- CATCHMENT BOUNDARY
- FUTURE STAGE CATCHMENT BOUNDARY
- EXISTING STAGE CATCHMENT BOUNDARY
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- PROPOSED SWALE DRAIN
- EXISTING SWALE DRAIN
- FINISHED SURFACE CONTOUR
- CATCHMENT FLOW DIRECTION ARROW

CATCHMENT NAME	CATCHMENT AREA (ha)	RUNOFF COEFF MINOR	RUNOFF COEFF MAJOR	IMPERVIOUS CATCHMENT AREA MINOR (ha)	IMPERVIOUS CATCHMENT AREA MAJOR (ha)
G6/10	0.318	0.75	0.75	0.229	0.313
G5/10	0.22	0.75	0.75	0.158	0.216
G4/10	0.452	0.75	0.75	0.326	0.444
G3/10	0.151	0.73	1	0.108	0.151
G2/10	0.048	0.71	0.71	0.034	0.048
G1/10	0.153	0.75	0.75	0.111	0.153
G1/11	0.036	0.75	0.75	0.026	0.036
G1/12	0.072	0.75	0.75	0.052	0.071
F1/13	0.115	0.67	0.95	0.077	0.109
G1/13	0.128	0.75	0.75	0.093	0.126
G1/14	0.077	0.73	1	0.056	0.077
F11/15	0.037	0.67	0.95	0.027	0.037
F10/15	0.03	0.67	0.95	0.021	0.03
F9/15	0.03	0.67	0.95	0.021	0.03
F8/15	0.037	0.67	0.95	0.027	0.037
F7/15	0.038	0.67	0.95	0.027	0.037
F6/15	0.042	0.67	0.95	0.03	0.042
F5/15	0.037	0.67	0.95	0.027	0.037
F4/15	0.038	0.67	0.95	0.027	0.037
F3/15	0.03	0.67	0.95	0.021	0.03
F2/15	0.03	0.67	0.95	0.021	0.03
F1/15	0.057	0.67	0.95	0.041	0.057

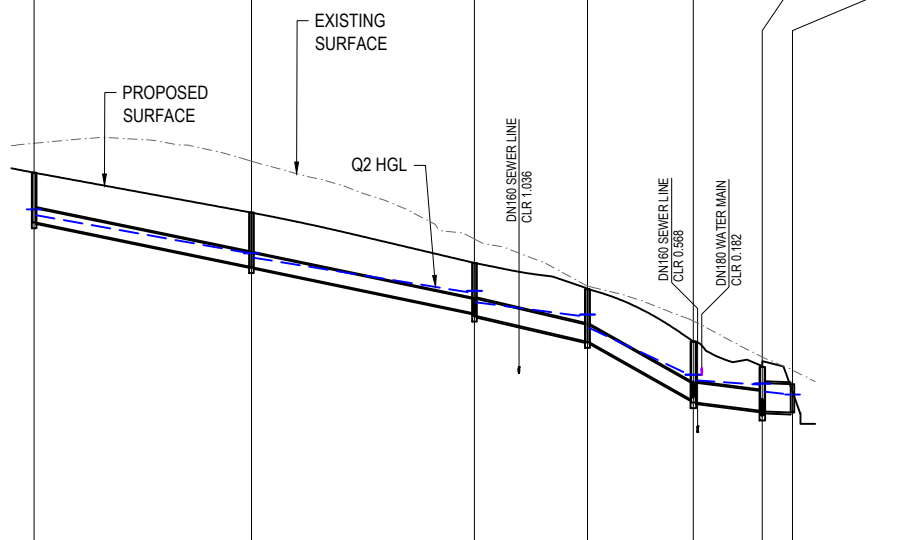
AS-CONSTRUCTED CERTIFICATION
 Signature: _____ Date: 29/09/23
DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION		AS CONSTRUCTED	 1:500 10 5 0 10 20 A1 1:1000 _____ A3	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN	
B	29.09.23	CL	BP	AS CONSTRUCTED							Colliers

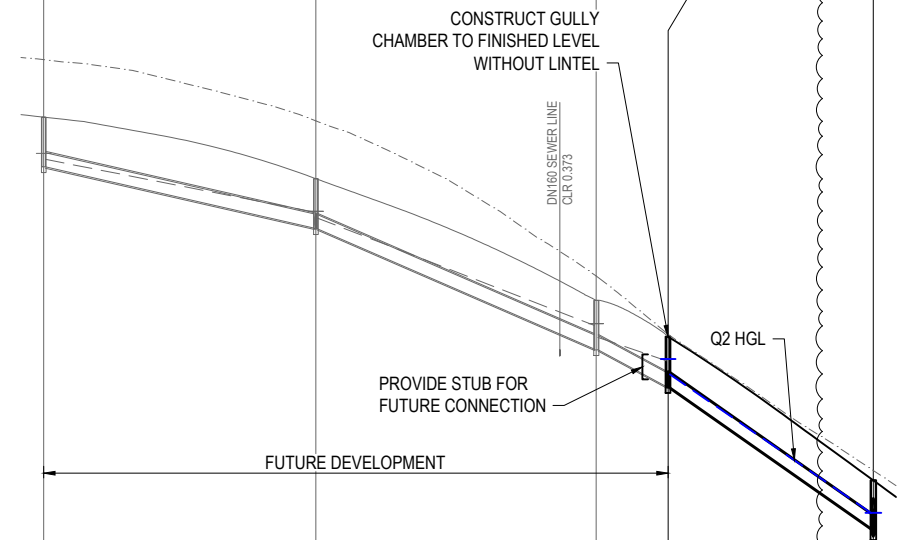
STRUCTURE NAME	G6/10
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S

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 SIZE (mm)	375	375	450	450	525	750
PIPE CLASS	3	3	3	3	3	3
PIPE GRADE (%)	1.95%	2.02%	2.24%	5.13%	1.11%	0.76%
PIPE SLOPE (1 in X)	2.03%	2.05%	2.26%	5.43%	1.20%	0.34%
FULL PIPE VELOCITY (m/s)	0.65	1.11	1.65	1.84	1.58	1.34
PART FULL VELOCITY (m/s)	1.96	2.26	2.83	4.05	2.37	1.67
DATUM RL	29.0					
H.G.L IN PIPE & (Q2 EVENT) W.S.E IN STRUCTURE	44.274 44.121	43.112 43.112	42.063 42.118	41.815 41.437	41.437 41.492	39.376 39.376
PIPE FLOW (Cumecs)	0.072	0.123	0.262	0.293	0.342	0.592
PIPE CAPACITY AT GRADE (Cumecs)	0.250	0.251	0.428	0.665	0.471	0.653
DEPTH TO INVERT	1.36	1.44	1.30	1.38	1.50	1.23
INVERT LEVEL OF DRAIN	43.925 43.91	42.79 42.758	41.57 41.551	40.79 40.781	39.30 39.241	38.96 38.947
DESIGN SURFACE LEVEL	45.27 45.245	44.23 44.167	42.87 42.857	42.17 42.164	40.80 40.777	40.11 39.659
SETOUT COORDINATES	E 5795.847 N 3323.152	E 5862.652 N 3314.239	E 5910.940 N 3305.099	E 5940.645 N 3301.577	E 5964.155 N 3286.377	E 5980.900 N 3279.124
RUNNING CHAINAGE	0.000	57.500	116.500	146.414	174.409	200.653



STRUCTURE NAME	G4/11	G3/11	G2/11	G1/11	G1/10	G1/12	G1/10	F1/13	G1/13	G2/10	G1/14	G1/11
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	CHAMBER ONLY WITHOUT LINTEL AND TYPE 2 GRATE STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON 1500Ø MANHOLE REFER DETAIL	STD TYPE A GULLY (SAG) LIL: 3.6m LINTEL; TYPE M	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON 1500Ø MANHOLE REFER DETAIL	STD FIELD INLET TYPE 2 900x600	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON 1200Ø MANHOLE REFER DETAIL	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
PIPE SIZE (mm)	375	375	375	375	375	375	375	375	375	375	375	375
PIPE CLASS	3	3	3	3	3	3	3	3	3	3	3	3
PIPE GRADE (%)	2.25%	4.29%	5.10%	6.58%	6.67%	1.41%	6.46%	5.69%	0.33%	5.53%	0.56%	0.56%
PIPE SLOPE (1 in X)	44.45	23.32	19.62	14.96	15.19	64.06	12.01	18.10	11.58	17.59	177.54	177.54
FULL PIPE VELOCITY (m/s)	0.67	1.34	1.85	2.10	2.10	0.15	0.20	0.44	0.20	0.44	0.16	0.16
PART FULL VELOCITY (m/s)	2.05	3.12	3.61	4.17	4.17	1.29	2.29	2.51	2.29	2.51	0.83	0.83
DATUM RL	32.0					27.0	28.0				30.0	
H.G.L IN PIPE & (Q2 EVENT) W.S.E IN STRUCTURE	48.757 48.597	47.202 47.223	44.203 44.250	43.886 43.317	42.909 42.909	39.455 39.380	40.857 40.843	40.475 40.478	40.440 40.440	39.877 39.900	43.283 43.272	43.271 43.317
PIPE FLOW (Cumecs)	0.074	0.148	0.204	0.231	0.231	0.017	0.022	0.049	0.022	0.049	0.018	0.018
PIPE CAPACITY AT GRADE (Cumecs)	0.263	0.363	0.396	0.460	0.460	0.250	0.506	0.412	0.506	0.412	0.132	0.132
DEPTH TO INVERT	1.315	1.307	1.305	1.319	1.339	1.291	1.26	1.36	1.47	1.46	1.291	1.319
INVERT LEVEL OF DRAIN	48.398 48.398	46.779 46.759	43.579 43.559	42.588 42.551	41.569 41.569	39.231 39.22	40.737 40.70	40.38 40.390	40.33 40.33	39.33 39.316	42.639 42.639	42.568 42.568
DESIGN SURFACE LEVEL	49.713	48.085	44.864	43.907	43.907	40.64 40.511	41.96 42.179	41.74 41.717	40.80 40.777	40.11 39.659	43.914	43.907
SETOUT COORDINATES	E 5791.461 N 3244.886	E 5862.590 N 3233.726	E 5935.891 N 3222.506	E 5951.424 N 3233.533	E 5980.900 N 3279.124	E 5862.932 N 3276.448	E 5943.949 N 3283.663	E 5946.799 N 3288.072	E 5964.155 N 3286.377	E 5944.706 N 3237.876	E 5951.424 N 3233.533	E 5951.424 N 3233.533
RUNNING CHAINAGE	72.000	72.000	74.154	146.154	190.499	219.493	0.000	4.95	17.94	22.688	0.000	8.000



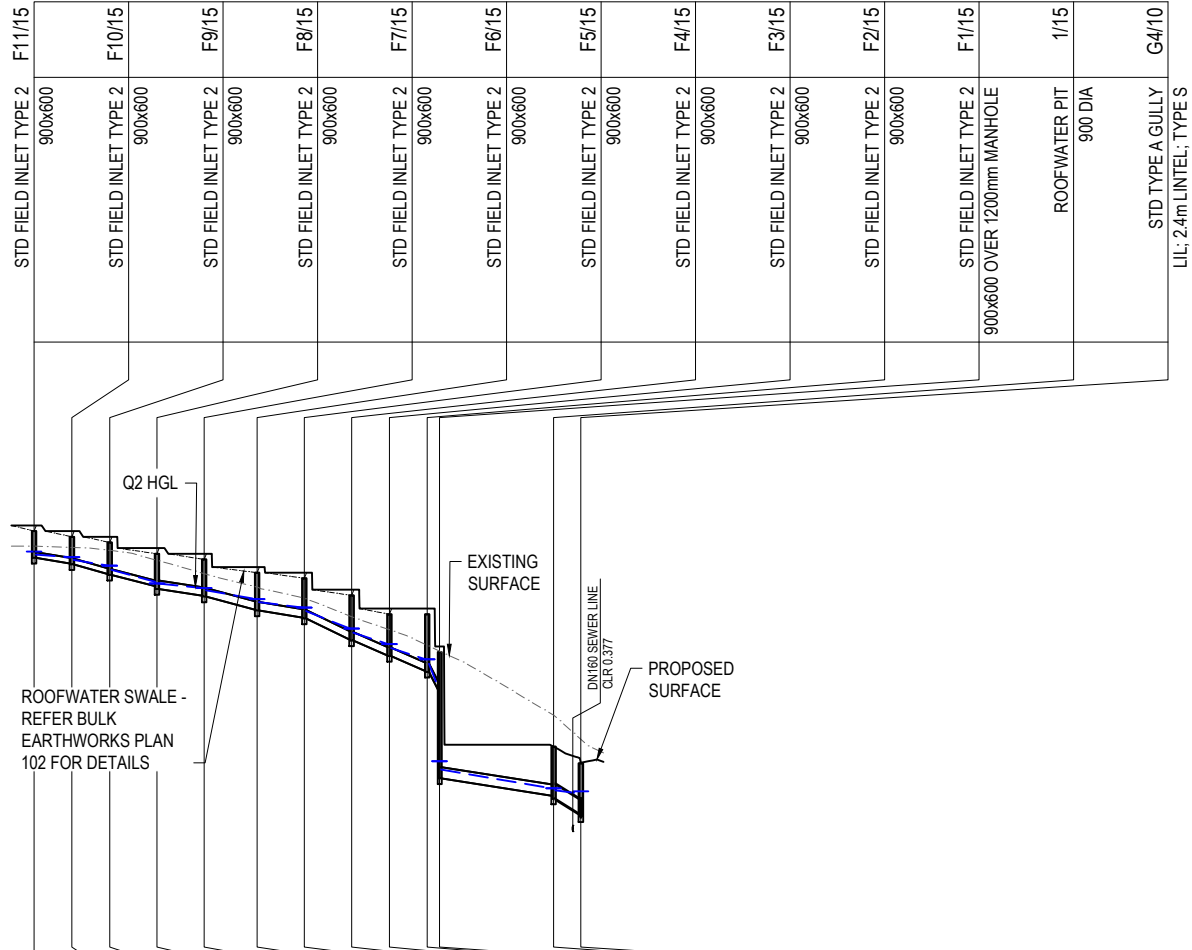
AS-CONSTRUCTED CERTIFICATION
 Signature: _____ Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd

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STRUCTURE NAME	F1/15
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600

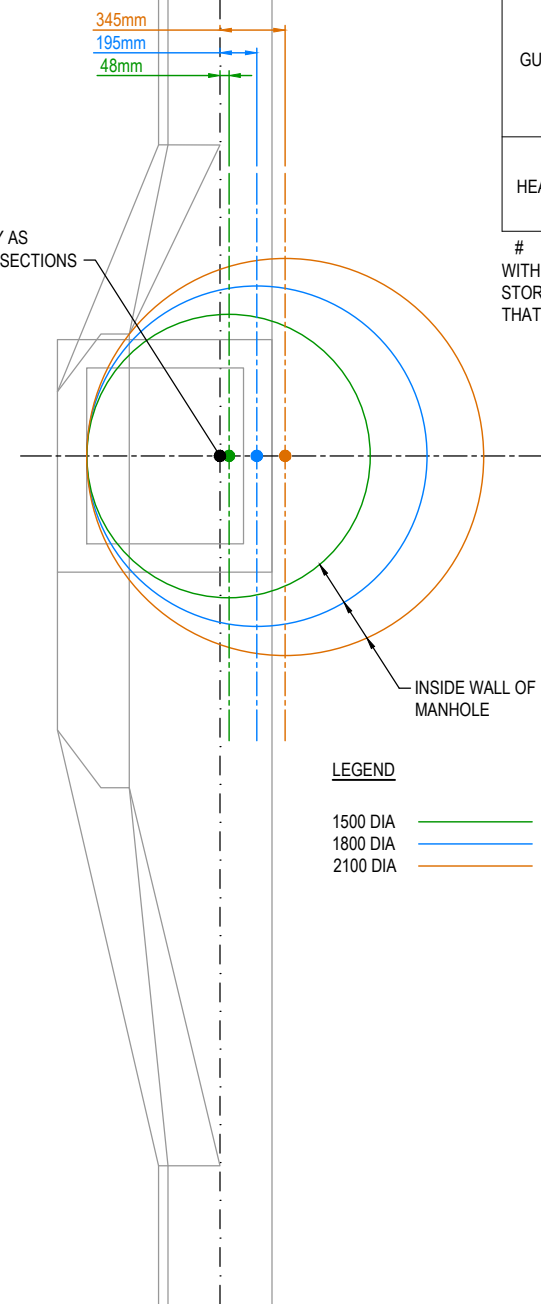
STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY 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 SIZE (mm)	225	225	225	225	225	225	225	225	225	225	300	375																									
PIPE CLASS	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	3																									
PIPE GRADE (%)	1.21%	2.14%	2.76%	1.65%	1.89%	1.36%	4.23%	3.67%	3.16%	11.18%	1.49%	5.04%																									
PIPE SLOPE (1 in X)	1.50%	2.59%	2.40%	1.43%	2.50%	1.52%	4.50%	4.00%	4.00%	15.10%	1.52%	5.45%																									
FULL PIPE VELOCITY (m/s)	0.22	0.39	0.56	0.77	0.98	1.22	1.43	1.63	1.80	1.96	1.28	0.81																									
PART FULL VELOCITY (m/s)	1.01	1.45	1.56	1.40	1.83	1.57	2.50	2.46	2.51	4.27	1.86	2.97																									
DATUM RL	32.0																																				
H.G.L IN PIPE & (Q2 EVENT) W.S.E IN STRUCTURE	48.384	48.368	48.239	48.239	48.224	47.990	47.990	47.614	47.492	47.492	47.435	47.203	47.203	47.122	46.977	46.977	46.885	46.421	46.421	46.312	46.013	46.013	45.906	45.609	45.609	45.490	44.890	42.915	42.693	42.194	42.197	42.143	42.063	42.118	41.815		
PIPE FLOW (Cumecs)	0.009	0.015	0.022	0.031	0.039	0.048	0.057	0.065	0.072	0.078	0.091	0.090																									
PIPE CAPACITY AT GRADE (Cumecs)	0.055	0.072	0.070	0.054	0.071	0.055	0.095	0.090	0.090	0.175	0.119	0.410																									
DEPTH TO INVERT	0.798	0.87	0.85	0.798	0.728	0.87	0.94	0.897	0.96	1.01	0.857	0.932	1.03	1.11	0.991	0.981	1.14	1.08	0.981	1.11	1.23	1.173	1.26	1.193	1.26	1.04	0.81	0.15	3.34	3.46	1.25	1.289	1.33	1.28	1.401	1.41	
INVERT LEVEL OF DRAIN	-48.292	-48.15	-48.142	-48.142	-48.13	-47.92	-47.863	-47.943	-47.90	-47.543	-47.468	-47.453	-47.32	-47.289	-47.269	-47.23	-46.999	-46.79	-46.79	-46.999	-46.707	-46.23	-45.87	-45.683	-45.276	-45.276	-45.48	-45.13	-44.765	-42.46	-42.03	-41.999	-41.924	-41.95	-41.59	-41.456	-41.46
DESIGN SURFACE LEVEL	49.14	49.000	48.966	48.966	48.86	48.700	48.56	48.400	48.43	48.250	48.11	47.900	47.88	47.750	47.750	47.49	47.26	47.26	47.89	47.750	47.300	46.91	46.95	46.95	45.94	45.94	43.28	43.28	43.297	42.87	42.87	42.857	42.857	42.857	42.857	42.857	
SETOUT COORDINATES	E 5796.763	N 3285.603	E 5806.662	N 3284.053	E 5816.542	N 3282.503	E 5828.881	N 3280.965	E 5841.239	N 3278.628	E 5855.070	N 3276.458	E 5867.419	N 3274.521	E 5879.768	N 3272.583	E 5889.647	N 3271.033	E 5899.526	N 3269.483	E 5902.737	N 3268.979	E 5907.418	N 3268.814	E 5910.940	N 3265.099	E 5955.633	N 3242.915	E 5862.590	N 3233.726	E 5862.590	N 3233.726	E 5862.590	N 3233.726	E 5862.590	N 3233.726	
RUNNING CHAINAGE	0.000	9.94	10.000	10.000	9.82	20.000	12.68	32.500	12.71	45.000	13.79	59.000	12.46	71.500	12.54	84.000	9.80	94.000	10.14	104.000	3.13	107.250	30.18	137.450	7.14	144.655	11.526	11.526	11.526	11.526	11.526	11.526	11.526	11.526	11.526	11.526	



STRUCTURE NAME	G1/16
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S
STRUCTURE NAME	G3/11
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S

SETOUT OF GULLY AS SHOWN ON LONG SECTIONS



TYPICAL MANHOLE UNDER GULLY SETOUT - MOUNTABLE K&C - STANDARD TYPE A GULLY

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

NOTE:
THE CENTRE OF 1050, 1200 & 1350 DIA MANHOLES ARE THE SAME SETOUT POINTS AS THEIR RESPECTIVE GULLY PITS.

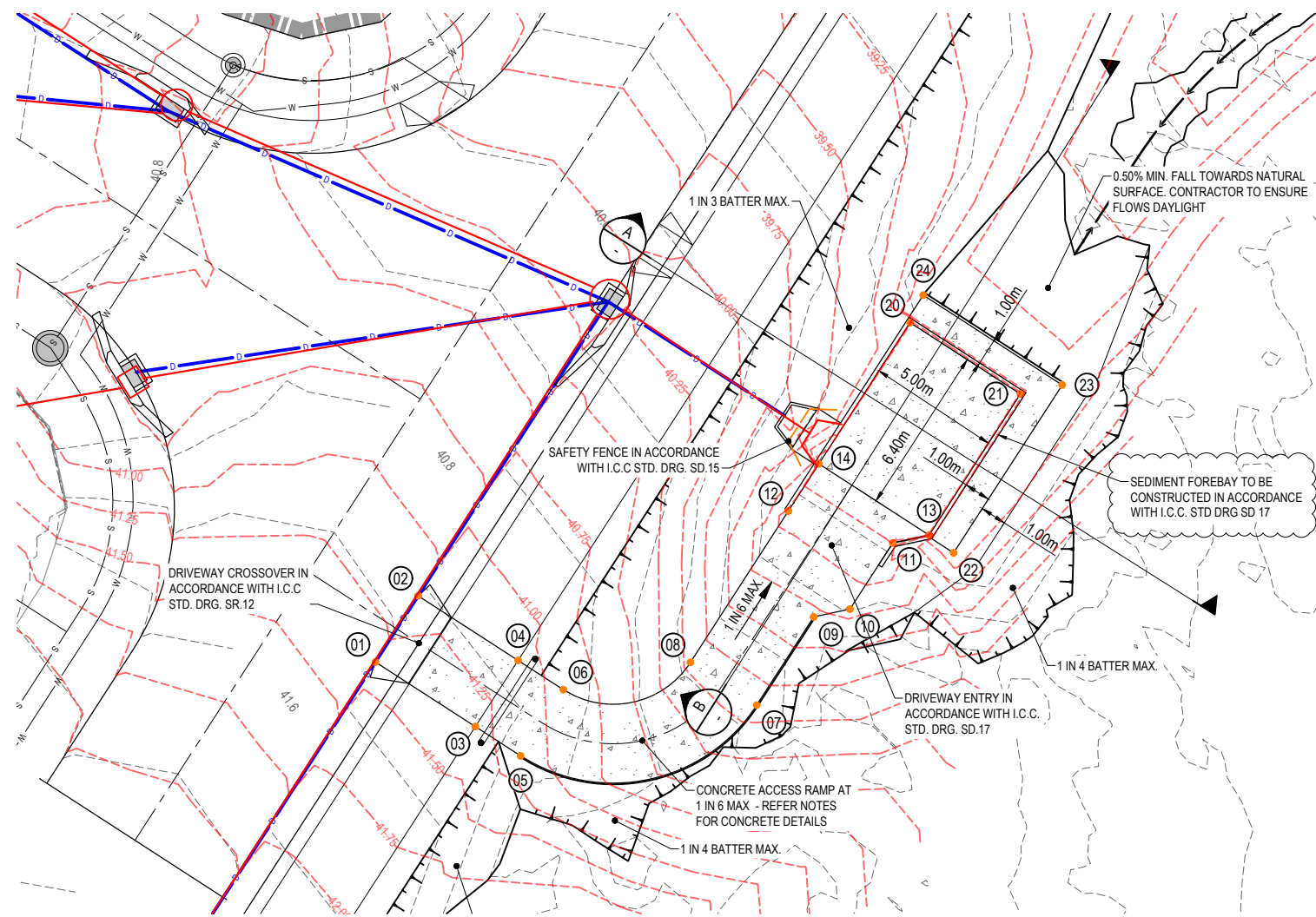
STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	☉ MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	☉ INTERSECTION OF PIT AND KERB INVERT LINE # (INCLUDING MANHOLES UNDER GULLIES)	KERB INVERT LEVEL
HEADWALL	☉ INTERSECTION OF HEADWALL FACE & PIPE CENTRE LINE	TOP OF HEADWALL

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

1500 DIA	—
1800 DIA	—
2100 DIA	—

AS-CONSTRUCTED CERTIFICATION
 Signature: _____ Date: 29/09/23
 DANIEL COLLINS RPEQ No. 18631
 For and on behalf of Colliers International engineering & design pty ltd

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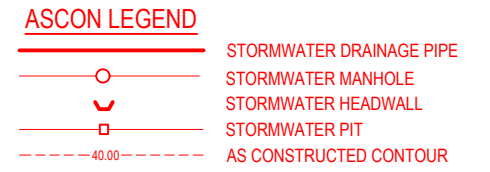
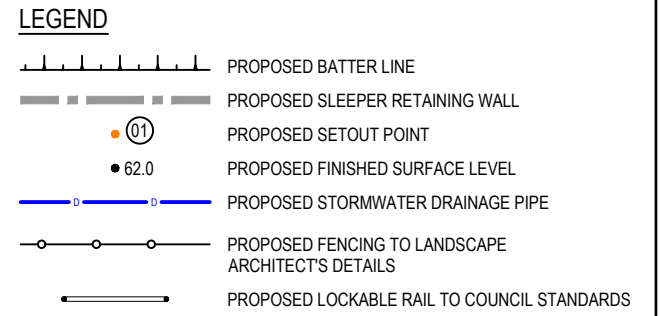


FOREBAY SETOUT TABLE

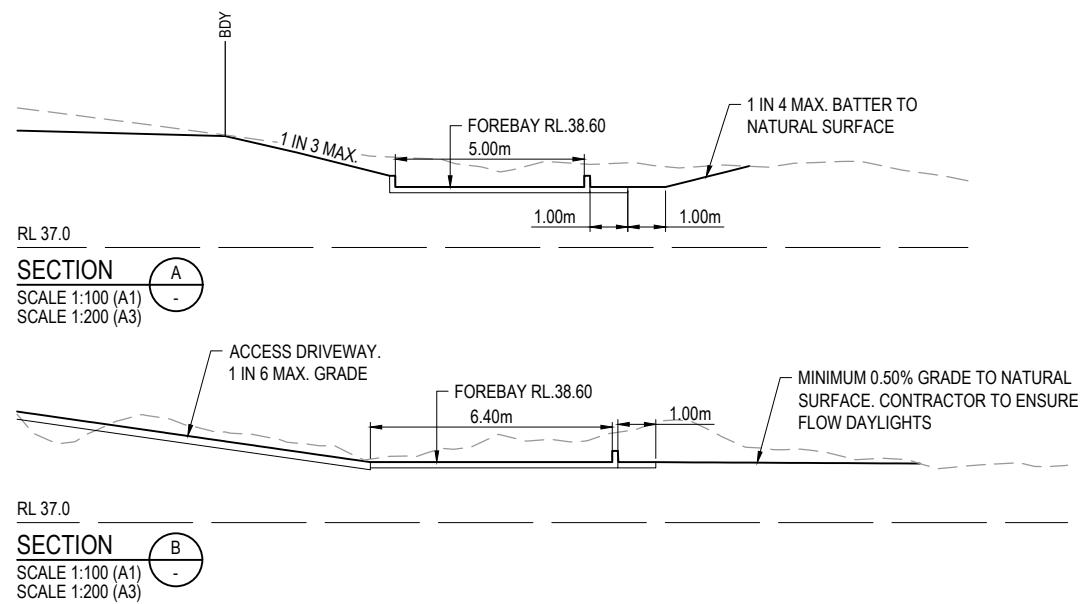
NUMBER	EASTING	NORTHING
20	5992.389	3278.329
21	5996.588	3275.614
22	5994.045	3269.563
23	5998.178	3275.955
24	5992.887	3279.376

DRIVEWAY SETOUT TABLE

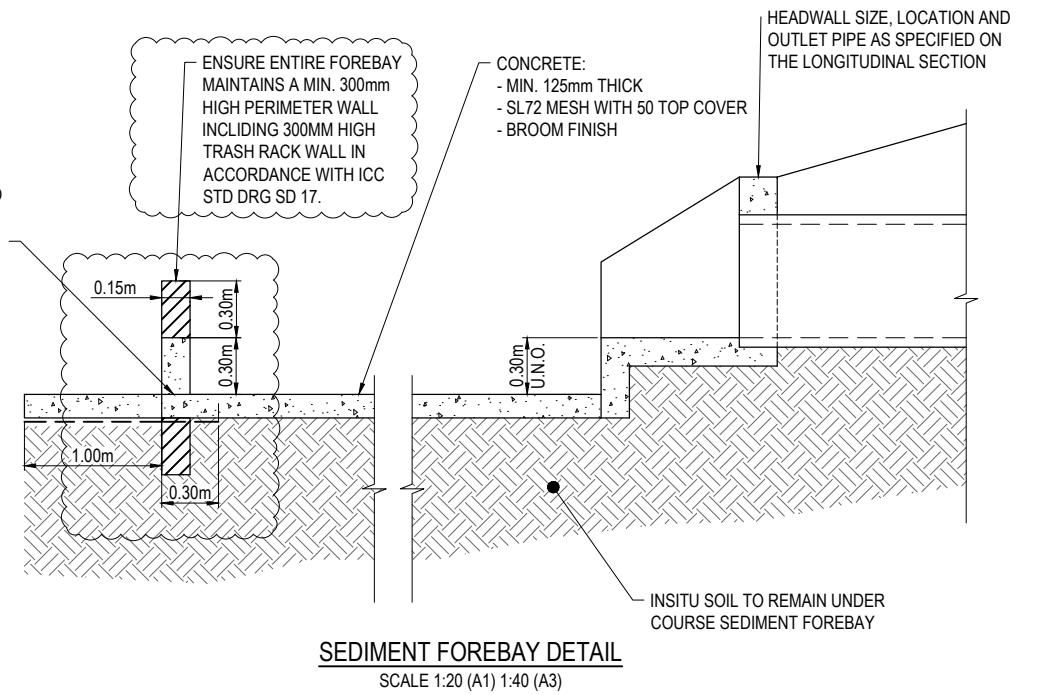
NUMBER	EASTING	NORTHING	ELEVATION
01	5972.034	3265.410	41.288
02	5973.662	3267.930	41.092
03	5975.838	3262.951	41.271
04	5977.466	3265.470	41.271
05	5977.559	3261.838	41.017
06	5979.188	3264.357	41.017
07	5986.547	3263.767	39.890
08	5984.028	3265.396	39.890
09	5988.719	3267.126	39.317
10	5990.101	3267.423	39.169
11	5991.730	3269.942	38.748
12	5987.753	3271.159	38.900
13	5993.113	3270.239	38.600
14	5988.914	3272.954	38.600



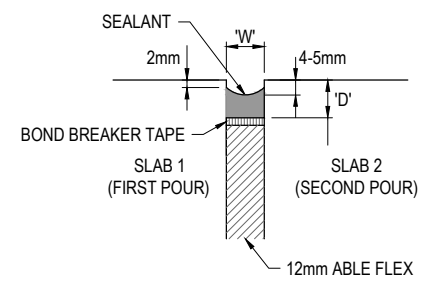
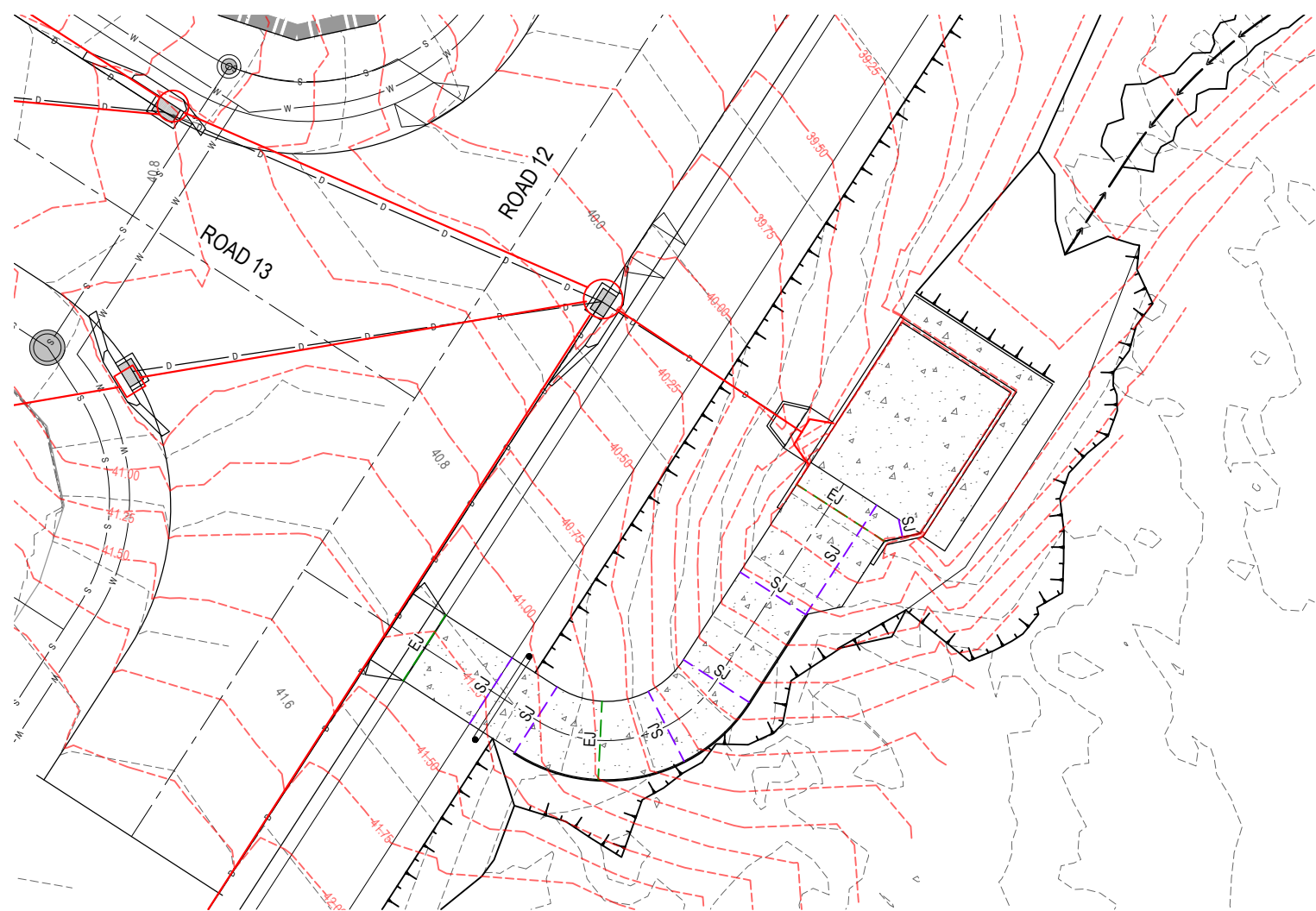
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PROVIDE 50mm WIDE SLOTS (ENTIRE HEIGHT OF WALL) AT 2m SPACING TO ENTIRE LENGTH OF FOREBAY WEIR (MIN. 2 PER SIDE)



REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED	1:250 1:500	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SEDIMENT FOREBAY LAYOUT PLAN AND DETAILS
B	29.09.23	CL	BP	AS CONSTRUCTED					SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 22-0173 DRAWING No. 114 REVISION B



LEGEND

- PROPOSED BATTER LINE
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED FENCING TO LANDSCAPE ARCHITECT'S DETAILS
- PROPOSED LOCKABLE RAIL TO COUNCIL STANDARDS
- EJ PROPOSED EXPANSION/CONSTRUCTION JOINT
- SJ PROPOSED SAWN CONTRACTION JOINT

EXPANSION/ CONSTRUCTION JOINT SEALANT DETAILS

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

STEPS:

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

CONCRETE NOTES:

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

KERB TYPES NOTE:

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

STEP 1:
INITIAL CUT TO DEPTH T/4 (T/3 FOR STEEL FIBRE REINFORCED CONCRETE AS SOON AS POSSIBLE AND WITHIN 18 HOURS OF POURING CONCRETE. INSERT POLYURETHANE BACKING ROD TO PREVENT INGRESS OF DIRT UNTIL SEALANT APPLIED (MIN 28 DAYS LATER). ROD DIAMETER TO BE MIN. 1.25 x CUT WIDTH.

STEP 2:
REMOVE ALL DIRT FROM SAW CUT, USING HIGH PRESSURED COMPRESSED AIR. REPLACE BACKING ROD WITH LARGER DIAMETER IF LOOSE. PUSH BACKING ROD INTO SAW CUT 1mm BELOW DEPTH 'D'. IF NECESSARY, REMOVE AND REPLACE BACKING ROD. WIDEN SAW CUT TO WIDTH 'W' AND DEPTH 'D' WITH ADDITIONAL SAW CUTS. REMOVE ALL FOREIGN MATERIAL USING HIGH PRESSURE WATER WASH. DRY USING HIGH PRESSURE COMPRESSED AIR AND ALLOW ADDITIONAL 16 HRS TO DRY THOROUGHLY. INSTALL POLYETHYLENE BOND BREAKER TAPE. PRIME FACES OF CUT CONCRETE (REFER TABLE) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

DRIVEWAY CONCRETE NOTES:

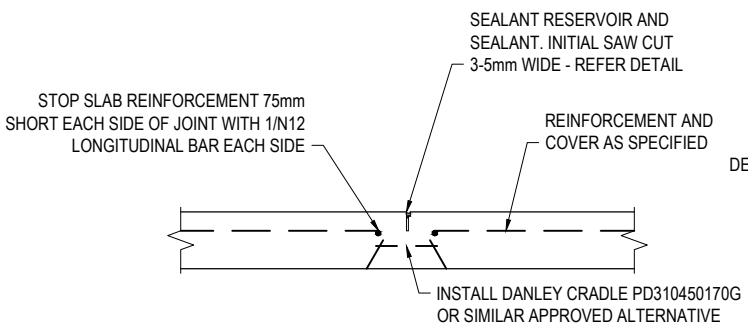
- DRIVEWAY CONCRETE TO BE 175mm THICK (N32), SL72 MESH WITH 50 TOP COVER, ON 150mm THICK BASE COURSE TYPE 2.3 (CBR45) FINISHED TO LANDSCAPE ARCHITECT PLANS

LOCATION	SEALANT	PRIMER
AREAS SUBJECT TO FUEL SPILLAGE	THIOFLEX 600	FOSROC PRIMER 14
OTHER EXTERNAL PAVEMENTS	EMER-ROAD SEAL SL	FOSROC PRIMER 10

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

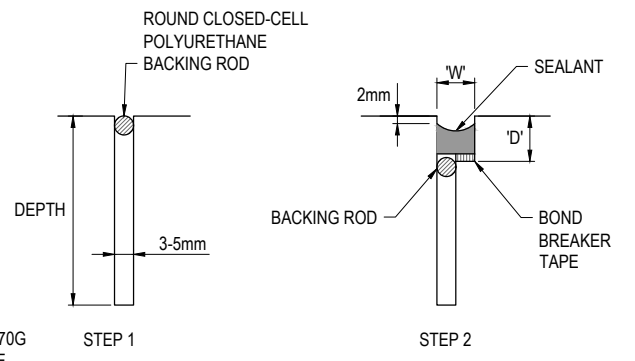
ASCON LEGEND

- STORMWATER DRAINAGE PIPE
- STORMWATER MANHOLE
- STORMWATER HEADWALL
- STORMWATER PIT
- AS CONSTRUCTED CONTOUR



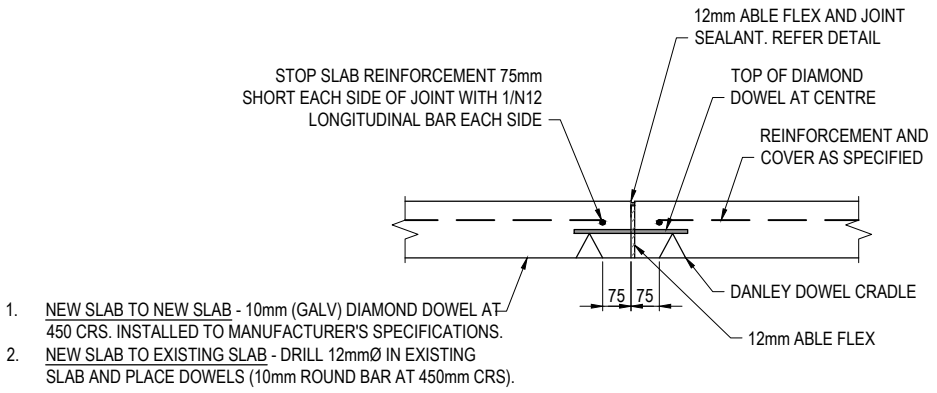
SAWN CONTRACTION JOINT (SJ)

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



SAW CUT AND JOINT SEALANT DETAILS

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



EXPANSION/ CONSTRUCTION JOINT DETAIL (EJ)

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

1. NEW SLAB TO NEW SLAB - 10mm (GALV) DIAMOND DOWEL AT 450 CRS. INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
2. NEW SLAB TO EXISTING SLAB - DRILL 12mmØ IN EXISTING SLAB AND PLACE DOWELS (10mm ROUND BAR AT 450mm CRS).

AS-CONSTRUCTED CERTIFICATION
Signature: Date: 29/09/23
DANIEL COLLINS RPEQ No. 18631
For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION				CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SEDIMENT FOREBAY DRIVEWAY DETAILS AND LAYOUT PLAN
B	29.09.23	CL	BP	AS CONSTRUCTED						
<p style="text-align: center;">AS CONSTRUCTED</p> <p style="text-align: center;"></p>							<p>1:250 5 0 5 10 A1 1:500</p>	<p>ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</p>	<p>COOLINGWOOD DRIVE, COOLINGWOOD PARK</p>	<p>PROJECT No. 22-0173 DRAWING No. 115 REVISION B</p>

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

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.

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.

SEWERAGE NOTES

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

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

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

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

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

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

ENGINEER'S CERTIFICATION

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



RPEQ (signature) RPEQ No. 18631 Date: 29/09/23

URBAN UTILITIES REF. NUMBER : 22-PNT-62638

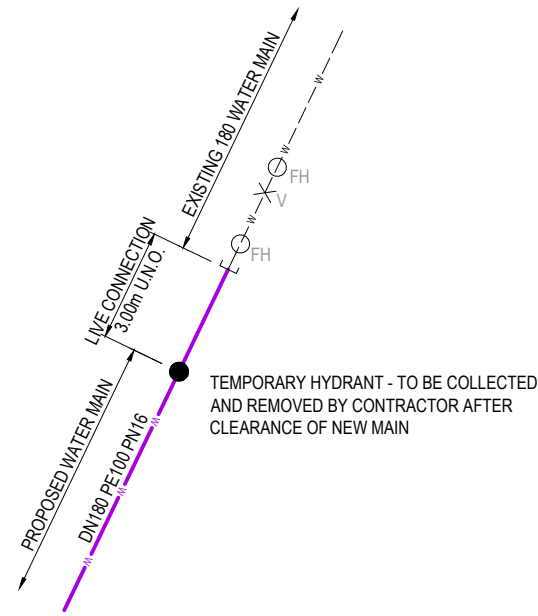
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION				CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SEWERAGE AND WATER RETICULATION GENERAL NOTES
B	29.09.23	CL	BP	AS CONSTRUCTED						
								ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 22-0173
										DRAWING No. 301
										REVISION B



AS CONSTRUCTED

APPROVED
DANIEL COLLINS RPEQ 18631

FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



LIVE CONNECTION 1 DETAIL
NOT TO SCALE

WATER RETICULATION LIVE CONNECTIONS

CONNECTION 1			
STREET	ROAD 12 NEAR CH358		
LOCATION	FRONT OF 5002		
LENGTH	3.00m	TYPE OF MAIN	DN180 PE100
DATE COMMENCED	DATE	DATE COMPLETED	
SIGNATURE			

LIVE WORKS NOTES:

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

LIVE WORKS NOTES:


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

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)	CONSTRUCTOR TO CONSTRUCT NEW MAIN FROM END OF EXISTING TEMPORARY END.	DN160 PE100	-	LINE	-	303	38.103	38.103	36.138	-1.965	N
1 (B)	CONSTRUCTOR TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.						38.14		36.21	1.93	

ENGINEER'S CERTIFICATION

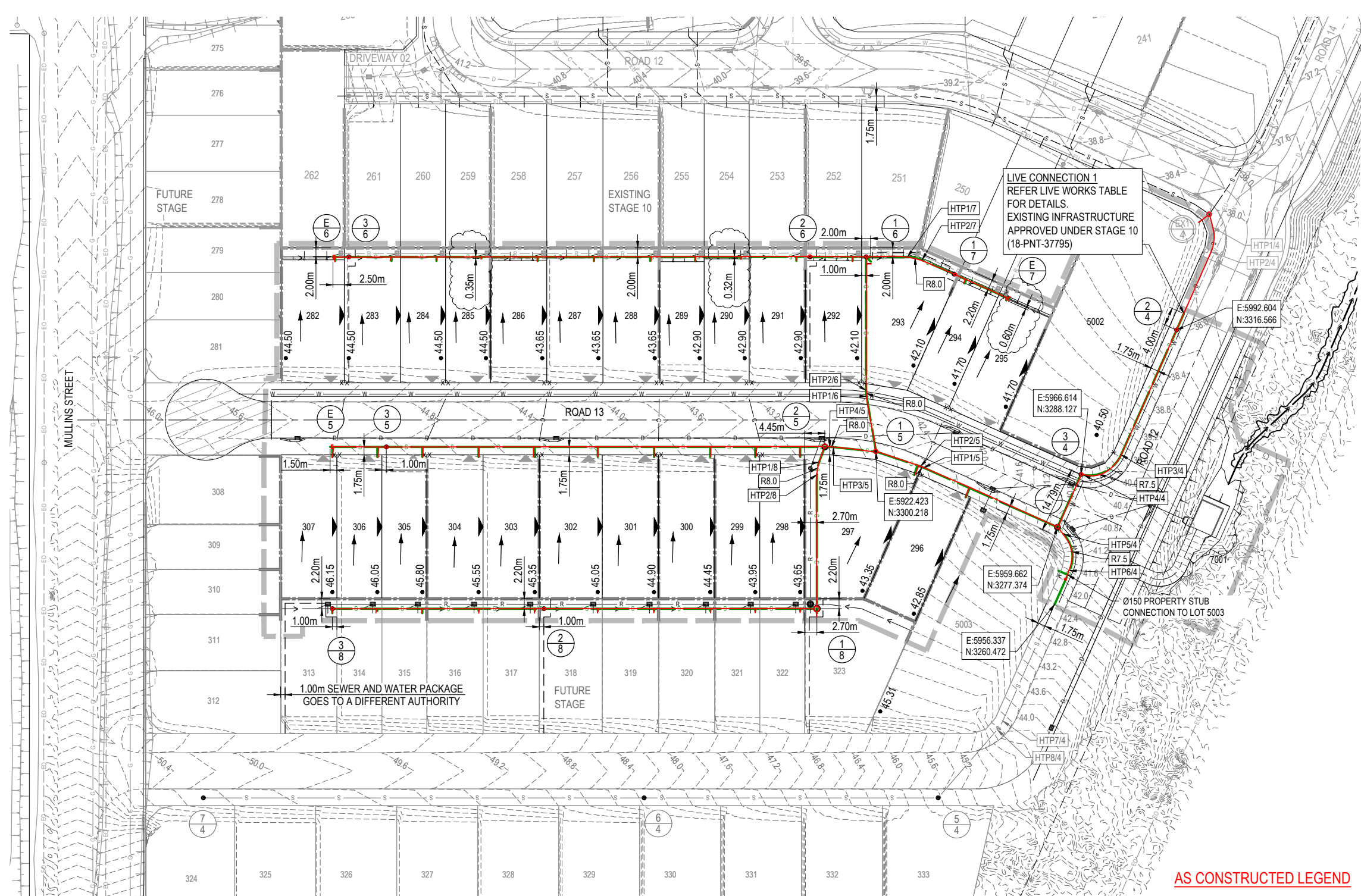
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RPEQ (signature) RPEQ No. 18631 Date: 29/09/23

URBAN UTILITIES REF. NUMBER : 22-PNT-62638

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A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION									
B	17.03.23	CL	CL	DN180 CHANGED TO DN160									
C	14.04.23	CL	CL	SEWER LIVE CONNECTION DETAIL AMENDED									
D	29.09.23	CL	BP	AS CONSTRUCTED									
					DESIGN	APPROVED							
						DANIEL COLLINS	RPEQ 18631						
					FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD								
								CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS	22-0173	302	D
								ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK				



LEGEND

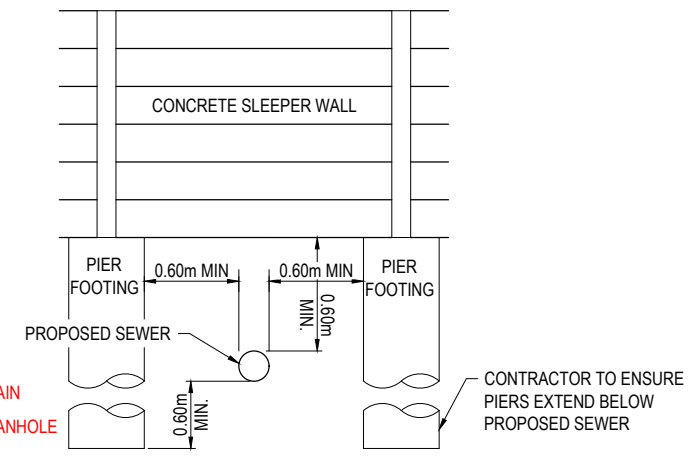
	PROPOSED AREA OF WORKS
	PROPOSED SEWER MAIN
	EXISTING SEWER MAIN
	SEWER LOT CONTROL SURFACE LEVEL
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	FINISHED SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	EXISTING ROOFWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED WATER SERVICE POINT
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	EXISTING ELECTRICAL CABLE U/G
	EXISTING ELECTRICAL CABLE O/H
	EXISTING GAS MAIN

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 LEGEND

	SEWERAGE MAIN
	SEWERAGE MANHOLE
	REDUCER
	END OF LINE

ENGINEER'S CERTIFICATION

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RPEQ (signature) RPEQ No. 18631 Date: 29/09/23

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

RP DESCRIPTION LOT 1 ON SP 266990
DATUM LEVEL AND LOCATION: P.M. 110122 RL 40.320 AHD
URBAN UTILITIES REF. NUMBER : 22-PNT-62638

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>ISSUED FOR CONSTRUCTION</th> <th>REVISION DETAILS</th> </tr> <tr> <td>A</td> <td>09.02.23</td> <td>CL</td> <td>AK</td> <td>ISSUED FOR CONSTRUCTION</td> <td></td> </tr> <tr> <td>B</td> <td>13.03.23</td> <td>CL</td> <td>CL</td> <td>AMENDMENTS TO LINE 6, 7 AND 8</td> <td></td> </tr> <tr> <td>C</td> <td>14.04.23</td> <td>CL</td> <td>CL</td> <td>STRUCTURE 24 AMENDED</td> <td></td> </tr> <tr> <td>D</td> <td>24.05.23</td> <td>CL</td> <td>AK</td> <td>SEWER HOUSE CONNECTIONS AMENDED FOR LOTS 285, 290 AND 295</td> <td></td> </tr> <tr> <td>E</td> <td>29.09.23</td> <td>CL</td> <td>BP</td> <td>AS CONSTRUCTED</td> <td></td> </tr> </table>	REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	A	09.02.23	CL	AK	ISSUED FOR CONSTRUCTION		B	13.03.23	CL	CL	AMENDMENTS TO LINE 6, 7 AND 8		C	14.04.23	CL	CL	STRUCTURE 24 AMENDED		D	24.05.23	CL	AK	SEWER HOUSE CONNECTIONS AMENDED FOR LOTS 285, 290 AND 295		E	29.09.23	CL	BP	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			<table border="1"> <tr> <td>SCALE</td> <td>CLIENT</td> <td>PROJECT NAME</td> <td>DRAWING TITLE</td> </tr> <tr> <td>1:500 1:1000</td> <td>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</td> <td>WOODLINKS VILLAGE - STAGE 11</td> <td>SEWERAGE LAYOUT PLAN</td> </tr> </table>	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	1:500 1:1000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 11	SEWERAGE LAYOUT PLAN
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STRUC/ BEND/ END NAME

STRUCTURE TYPE	G	HTP	HTP	MS	MS	MS	MS	MS	END
STRUCTURE LID TYPE	B			B	B	B	B	B	B
STRUCTURE DROP TYPE	A			MSA	MSA	MSA	MSA	MSA	MSA
JUNCTION LINE	LINE 6			LINE 7					
DEPTH TO LOT CONTROL LEVEL			1.037						
DEPTH TO HOUSE CONNECTION		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
HC INVERT LEVEL		40.70	40.86	41.52	42.17	42.19	42.35	43.29	43.33
HC TYPE		B2	B2	B2	B2	B2	B2	B2	B2
HC LOT No		293	292	291	290	289	288	287	286
CH. FROM D/S STRUC/ BEND		0.01	2.993	3	15.5	35.5	48.25	60.5	73

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

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

EMBEDMENT NOTE:
 PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL FINAL GEOTECHNICAL INVESTIGATIONS ARE COMPLETED PRIOR TO CONSTRUCTION.

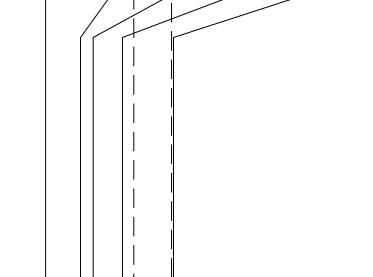
* STORMWATER BRIDGING NOTE:
 WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED BY A BRIDGE STRUCTURE THAT SPANS THE SEWER TRENCH. REFER PEAK URBAN STD DRG S-100.

DATUM R.L.

LAND USE	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.
DIAMETER	DN160 PE100 SDR21								
GRADE	1 IN 100	1 IN 100	1 IN 100	1 IN 15.22	1 IN 50.00	1 IN 50.00	1 IN 100.00	1 IN 100.00	1 IN 100.00
EMBEDMENT TYPE	TYPE 4#								
DEPTH TO INVERT	2.82	2.79	2.69	1.97	1.92	1.41	1.49	1.46	1.33
JUNCTION INVERT LEVEL				40.186					
SEWER INVERT LEVEL	39.89	39.92	39.94	40.19	40.23	41.05	40.97	43.12	43.15
DESIGN SURFACE LEVEL	42.71	42.94	42.85	42.15	42.15	42.46	44.58	44.58	44.68
SETOUT	5922.423	3300.218	5922.260	3312.682	5922.356	3314.027	5926.952	3343.344	5914.604
RUNNING CHAINAGE	0.000	42.465	12.465	42.719	13.314	55.987	101.994	181.987	181.987

LINE 6

STRUCTURE TYPE	MS	HTP	HTP	MS	MS	MS	MS	MS	END
STRUCTURE LID TYPE	B			B	B	B	B	B	B
STRUCTURE DROP TYPE	MSA			MSA	MSA	MSA	MSA	MSA	MSA
JUNCTION LINE	LINE 7								
DEPTH TO LOT CONTROL LEVEL									
DEPTH TO HOUSE CONNECTION		1.19	1.17	1.029					
HC INVERT LEVEL		40.70	40.68	40.68					
HC TYPE		A2	A2	A2					
HC LOT No		298	295	295					
CH. FROM D/S STRUC/ BEND		3	13						



NOTE: PE LINING OF MANHOLES:
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EMBEDMENT NOTE:
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DATUM R.L.

LAND USE	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.
DIAMETER	DN160 PE100 SDR21								
GRADE	1 IN 107	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00
EMBEDMENT TYPE	TYPE 4#								
DEPTH TO INVERT	1.97	1.93	1.97	1.97	1.97	1.84	1.82	1.26	1.26
JUNCTION INVERT LEVEL									
SEWER INVERT LEVEL	40.166	40.22	40.272	40.272	40.306	40.306	40.34	40.36	40.36
DESIGN SURFACE LEVEL	42.15	42.15	42.15	42.15	42.15	42.18	42.18	40.54	40.54
SETOUT	5926.952	3343.344	5936.038	3341.899	5939.142	3340.714	5945.656	3336.503	5956.993
RUNNING CHAINAGE	0.000	19.200	34.899	34.899	12.246	20.303	33.366	45.127	55.987

LINE 7

STRUCTURE TYPE	G	HTP	HTP	F	MS	MS	MS	MS	MS
STRUCTURE LID TYPE	B			B	B	B	B	B	B
STRUCTURE DROP TYPE	D			D	MSA	MSA	MSA	MSA	MSA
JUNCTION LINE	LINE 8								
DEPTH TO LOT CONTROL LEVEL									
DEPTH TO HOUSE CONNECTION		1.44	1.20	1.20	1.105	1.105	1.105	1.105	1.105
HC INVERT LEVEL		45.51	45.72	46.15	46.63	46.63	46.85	47.19	47.19
HC TYPE		C4	B2	A2	B2	B2	A2	B2	B2
HC LOT No		323	322	321	320	319	318	317	316
CH. FROM D/S STRUC/ BEND		0.025	3.7	13.7	23.7	36.2	48.7	2	14.5



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

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DATUM R.L.

LAND USE	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.	RD RES.
DIAMETER	DN160 PE100 SDR21								
GRADE	1 IN 35.62	1 IN 36.46	1 IN 38.29	1 IN 33.91	1 IN 42.73	1 IN 42.73	1 IN 42.73	1 IN 42.73	1 IN 42.73
EMBEDMENT TYPE	TYPE 4#								
DEPTH TO INVERT	1.29	1.44	1.49	1.25	1.23	1.23	1.23	1.23	1.23
JUNCTION INVERT LEVEL									
SEWER INVERT LEVEL	40.98	41.77	41.76	42.69	45.04	45.04	46.89	46.96	46.96
DESIGN SURFACE LEVEL	43.00	43.00	43.00	45.94	46.14	46.14	46.14	46.14	46.14
SETOUT	5911.317	3303.011	5909.557	3299.869	5908.632	3297.198	5904.015	3287.767	5844.048
RUNNING CHAINAGE	0.000	13.901	18.270	6.442	36.234	85.233	96.534	45.795	143.934

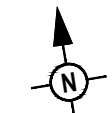
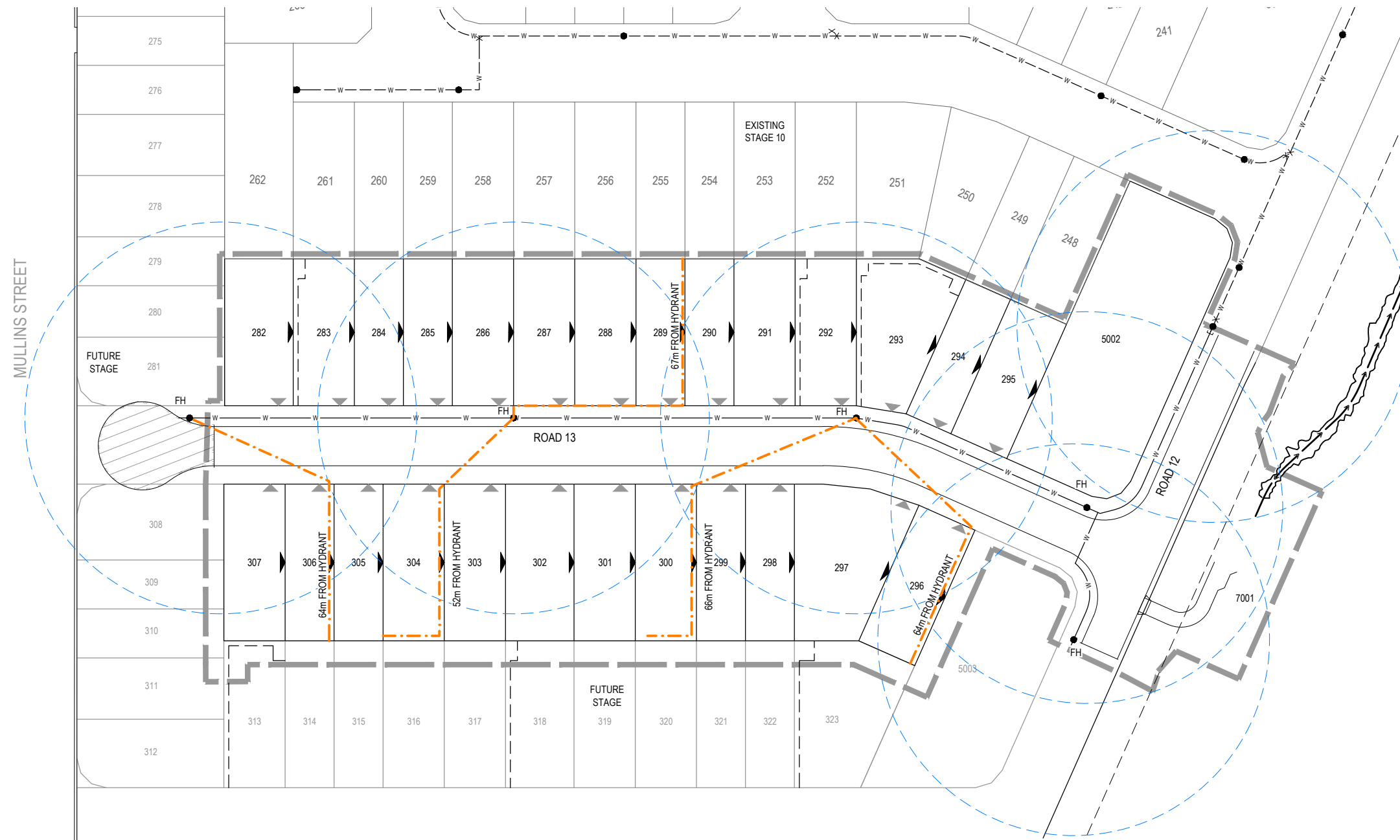
LINE 8

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

RPEQ (signature) RPEQ No. 18631 Date: 29/09/23

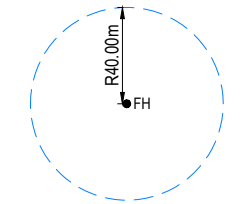
URBAN UTILITIES REF. NUMBER : 22-PNT-62638

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LEGEND

	PROPOSED AREA OF WORKS
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED HYDRANT REACH (WORST CASE ALLOTMENT)
	FIRE HYDRANT SPACING (RADIUS 40m)



FIRE HYDRANT COVERAGE
NOT TO SCALE

NOTE:
ALL FIRE HYDRANT LOCATIONS SHALL MEET CLASS 1 BUILDING COVERAGE REQUIREMENTS OF THE SEQ CODE. FIRE HYDRANT COVERAGE IS AS SHOWN AND DEMONSTRATES THE WORST POSSIBLE LOCATION OF ANY PROPOSED CLASS 1 BUILDING WITHIN 90m OF HYDRANT REACH.

ENGINEER'S CERTIFICATION
I, Dan Collins, hereby certify that:
1. The information contained in this drawing / document is in compliance with approved drawings and design.
2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
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Woodlinks - Stage 11

7001 Collingwood Dr Collingwood Park QLD

NBN Co PIT AND PIPE DESIGN

Pit types

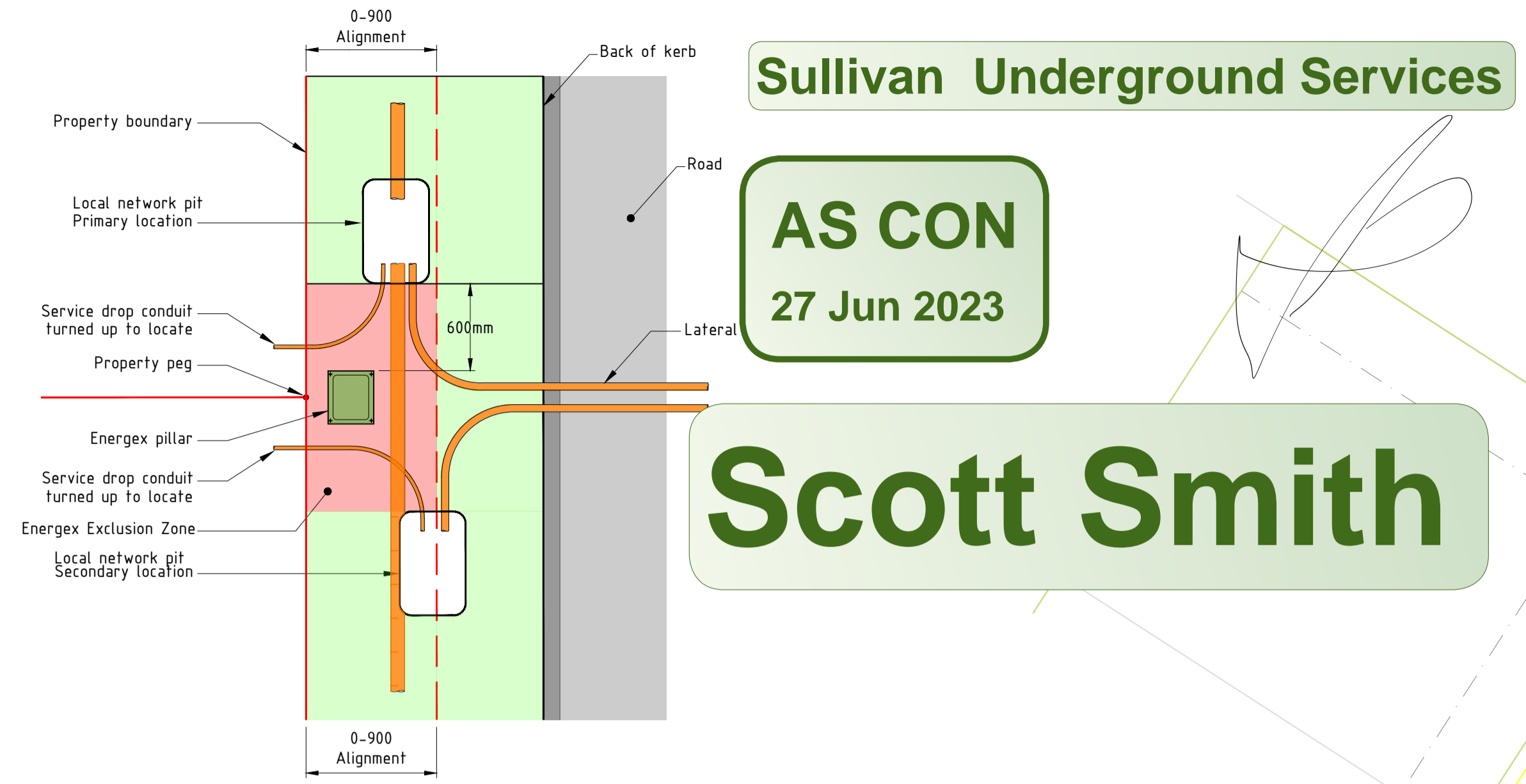
Type	Symbol	Description
P2		Service Drop Access Pit (650mmX280mmX565mm)
P5		Network Boundary/Local Network Pit (Single Lid) (700mmX450mmX650mm)
P6		Distribution/Local Network Connection Pit (Dual Lid) (1360mmX555mmX650mm)
P8		Distribution/Local Network Connection Pit (Dual Lid) (1360mmX555mmX860mm)
P9		Fibre Distribution Hub (FDH) Pit (2000mmX555mmX900mm)
Manhole		Distribution Network manhole (2600mmX1240mmX1490mm)

Clearances from other carriers and services

Service item	Minimum radial clearances*
Gas pipe	over 110 mm: 300 mm
	110 mm or less: 150 mm
Power	high voltage: 300 mm
	low voltage: 100 mm (with protection barrier)
Water mains	high pressure/capacity: 300 mm
	local reticulation: 150 mm
Sewer	main: 300 mm
	connection pipe: 150 mm
Other Telecommunications	100 mm without reduced separation agreement

Conduit depths and cover

Location	Minimum Cover
Service Drop conduit - less than 3m from Pit to Boundary	300 mm
Service Drop conduit - more than 3m from Pit to Boundary	450 mm
Verge (walkways, footpaths)	450 mm
Road (non-state or territory)	600 mm
Road crossing	800 mm to 1200mm (typically)

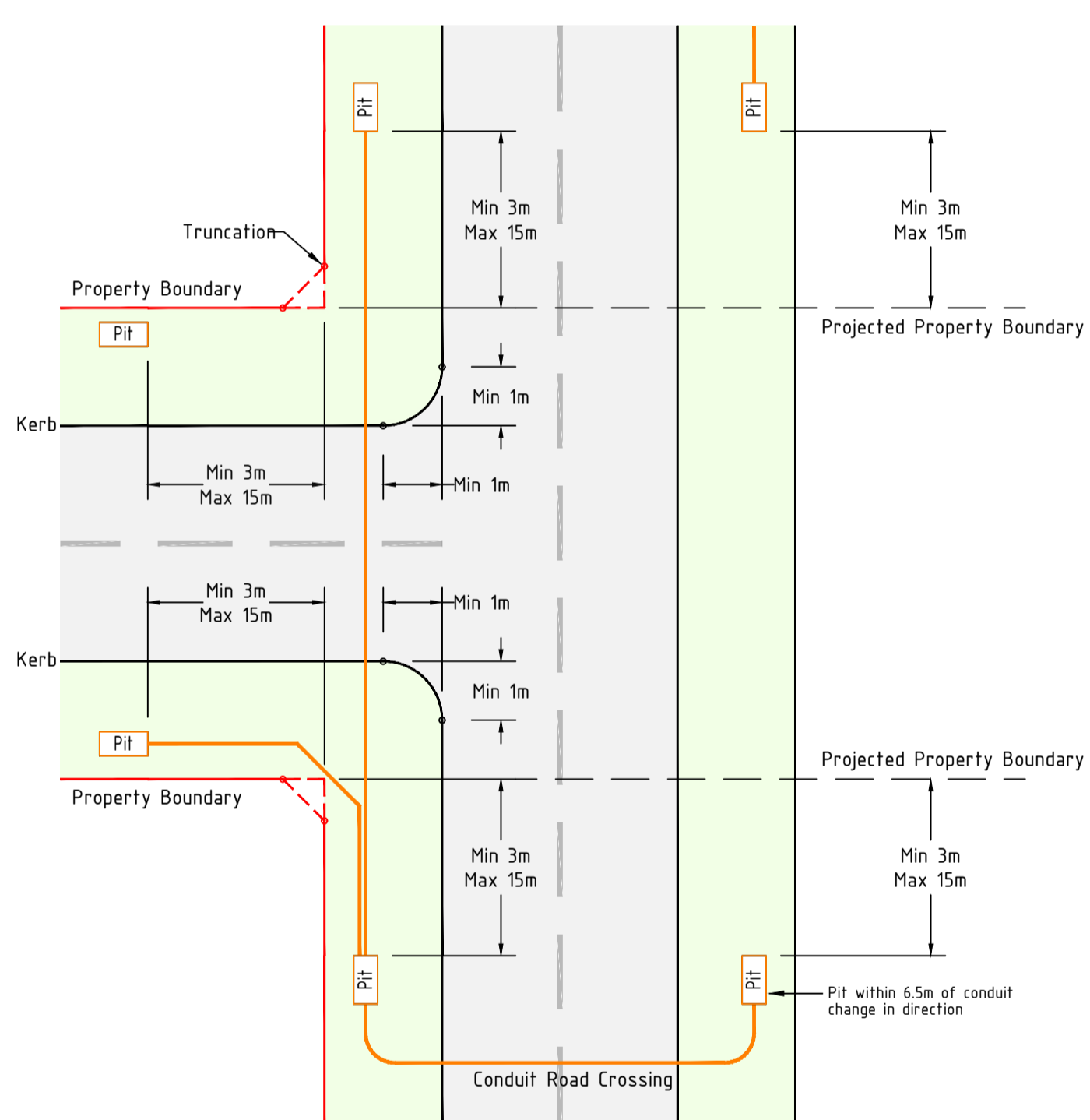


Sullivan Underground Services

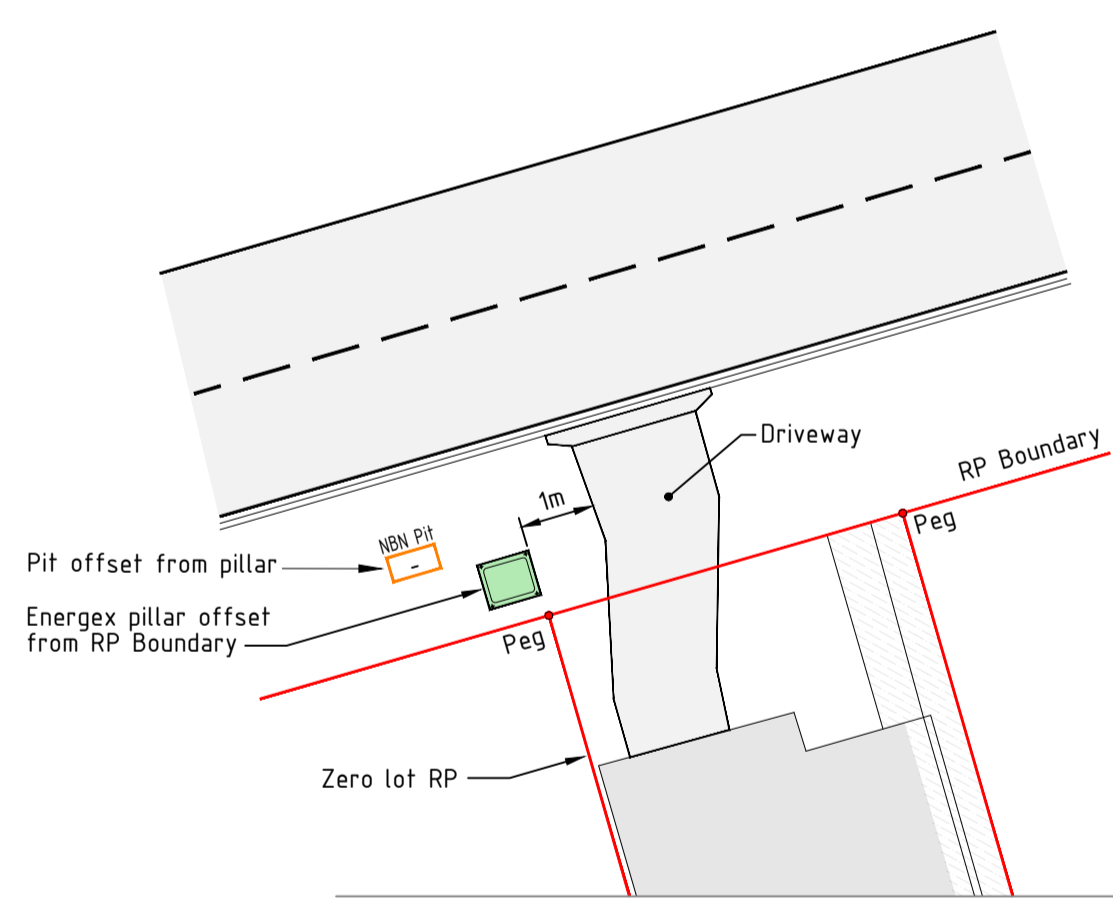
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27 Jun 2023

Scott Smith

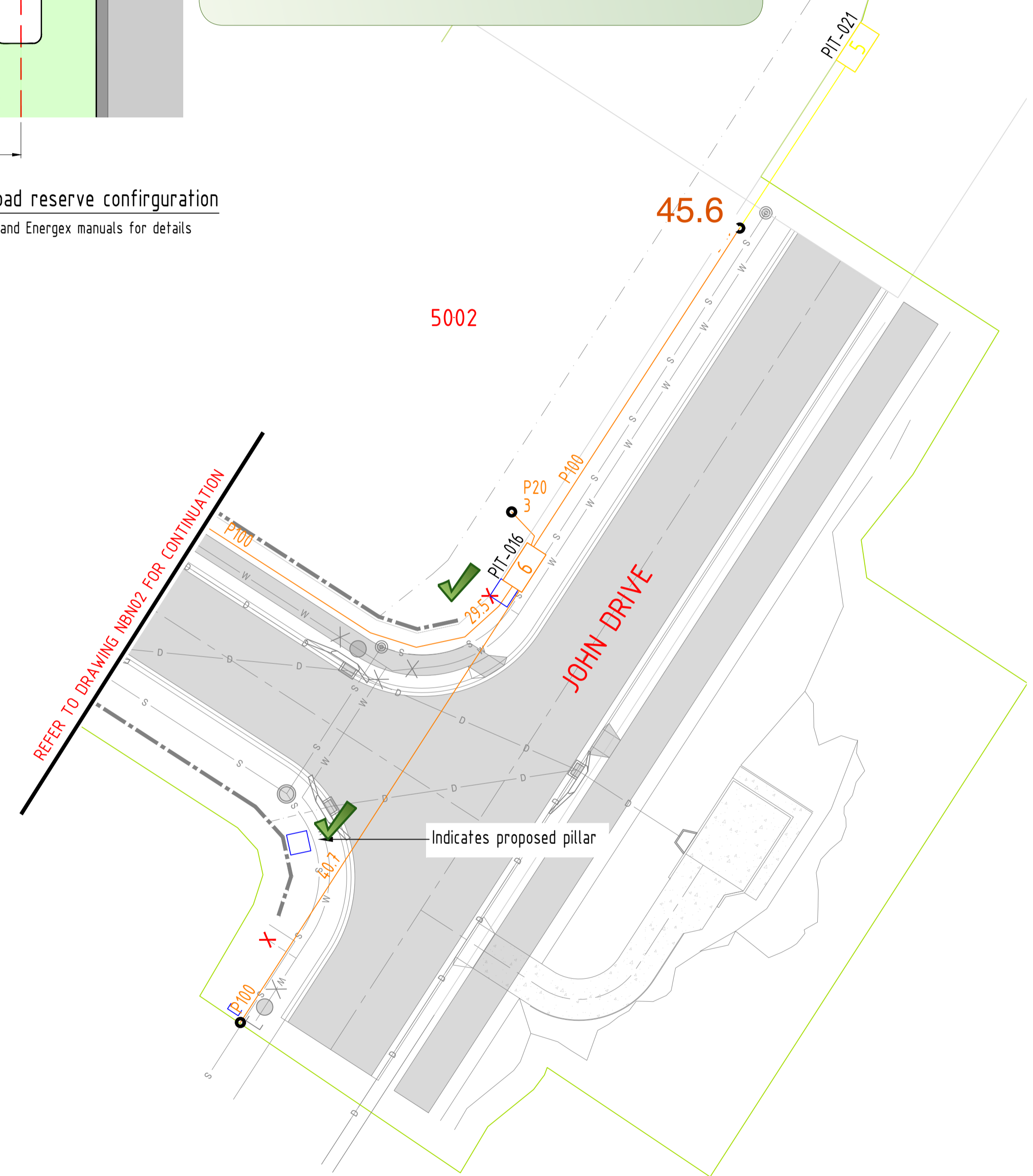
General road reserve configuration
Refer to NBN and Energex manuals for details



Pit alignment for crossings/street corners
Refer to NBN Document number NBN-TE-CTO-194



Zero lot boundary configuration
Refer to NBN and Energex manuals for details



REFER TO DRAWING NBN02 FOR CONTINUATION

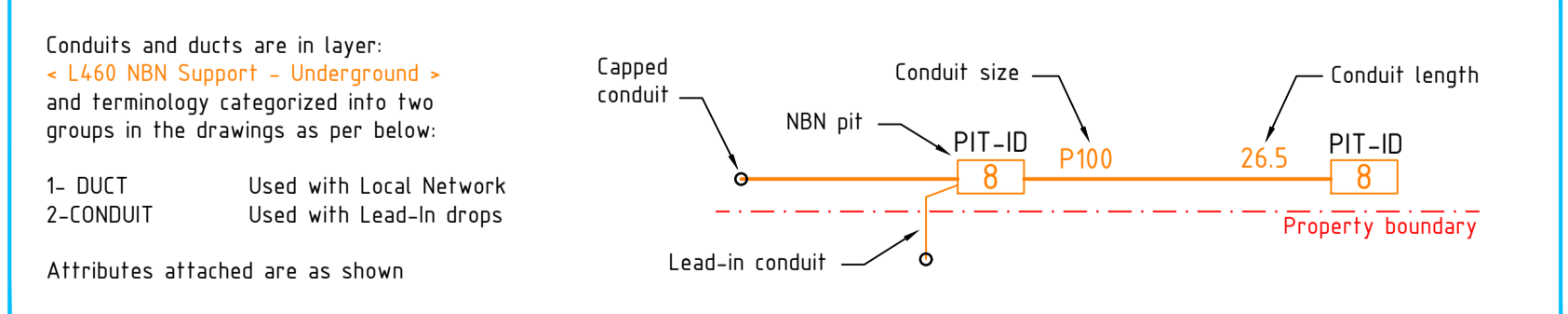
5002

45.6

JOHN DRIVE

Indicates proposed pillar

Conduit Configuration Legend



Conduit dimensions white telecommunications	Nominal Size Residue (Diameter)	Conduit dimensions white telecommunications	Nominal Size Residue (Diameter)	Conduit dimensions white telecommunications	Nominal Size Residue (Diameter)
	20 mm PN 12 AS/NZS 1677:2006 table 4.2(A)		3.65		50 mm PN 12 AS/NZS 1677:2006 table 4.2(A)
	100 mm PN 9 AS/ NZS 1677:2006 table 4.2(A)				

FOR CONSTRUCTION

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
C	08.05.23	GW	ISSUE FOR CONSTRUCTION	JB
B	10.03.23	GW	TENDER ISSUE	JB
A	07.02.23	GW	PRELIMINARY ISSUE	JB

SAFETY FIRST
SAFETY STARTS WITH YOU

DANGER
LASER BEAM
EYE PROTECTION MUST BE WORN

DIAL BEFORE
YOU DIG
www.1100.com.au

FIRE ANTS
CONSTRUCTION CONTRACTOR
TO DETERMINE IF FIRE ANTS
RESTRICTIONS APPLY
CALL 13 25 33

ATTENTION
DO NOT CHANGE OR ALTER JOB
SPECIFICATIONS UNLESS FIRST
CHECKING WITH DESIGNER

STRICTLY CONFIDENTIAL	
NBNCO APPROVAL RECORD:	SIGNATURE _____ DATE _____
	<input type="checkbox"/> DD
	<input type="checkbox"/> WD
	<input type="checkbox"/> AB
NBNCO DISCLAIMER	
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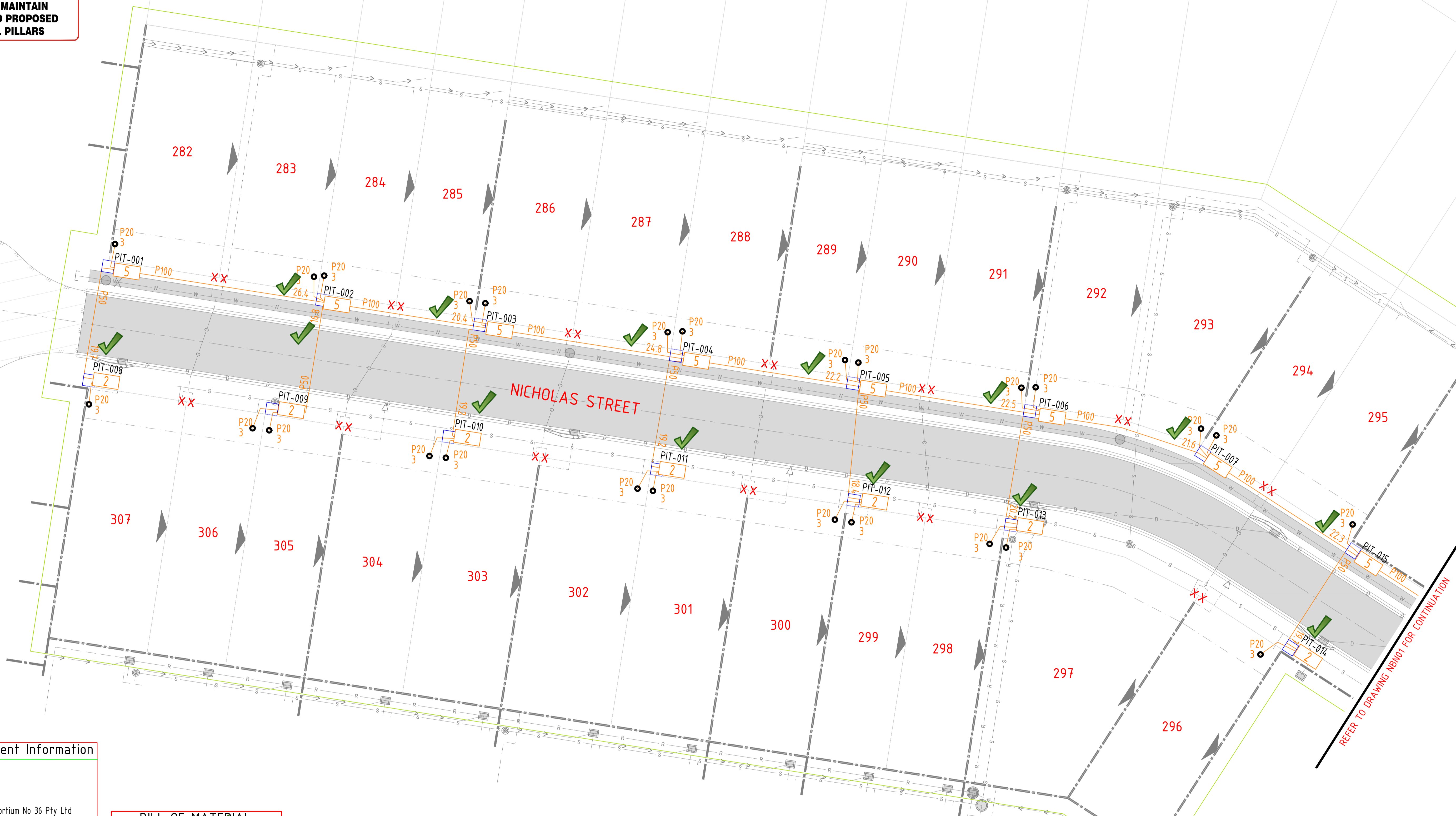
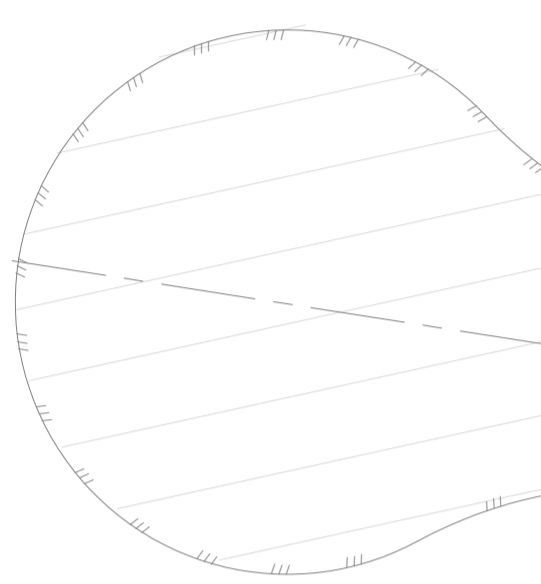
ECAAS
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MANAGEMENT

Australia's
broadband
network
ampflo
ABN 28 111 423 842
Electrical and Telecommunications Consultants
07 3372 9280
comms@ampflo.com.au

KEY PLAN

DRAWING TITLE: Woodlinks - Stage 11 7001 Collingwood Dr Collingwood Park QLD NBN Co PIT AND PIPE DESIGN			
STATE: QLD	SAM: -	REGION: MGA56	ADA: -
PROJECT No: -	CADREF No: 222116	SCALE: 1:250	SHEET No: 1 OF 2
REV: C			

IMPORTANT
ALL PITS TO MAINTAIN
CLEARANCE TO PROPOSED
ELECTRICAL PILLARS



SDU Development Information
 Development Name:
 Woodlinks Stage 11
 Developer Company:
 Canberra Estates Consortium No 36 Pty Ltd
 Development Address:
 7001 Collingwood Dr Collingwood Park QLD
 Authorised Rep:
 Ampflo Pty Ltd
 Phone: 07 3382 9720
 E-Mail: comms@ampflo.com.au
 nbn Reference Number: Stage Number:
 STG- 11
 Design Revision:
 C

BILL OF MATERIAL				
NO OF LOTS: 27 ✓				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	7 ✓	P100	10	261.3
5	8 ✓	P50	7	133.2
6	1 ✓	P20	27	81
8	0			
9	0			
TOTAL NUMBER OF PITS: 16 ✓				
TOTAL NUMBER OF MANHOLES: 0				
TOTAL NUMBER OF CONDUITS: 44				
TOTAL LENGTH OF CONDUITS: 475.5				

Rod & Roping - 409.2mtrs

FOR CONSTRUCTION

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
C	08.05.23	GW	ISSUE FOR CONSTRUCTION	JB
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A	07.02.23	GW	PRELIMINARY ISSUE	JB

SAFETY FIRST
 SAFETY STARTS WITH YOU

THIS DRAWING IS TO BE BUILT IN CONJUNCTION WITH AMPFLO ELECTRICAL RETICULATION DRAWINGS

DANGER LASER BEAM
 EYE PROTECTION MUST BE WORN

DO NOT CONSTRUCT DRIVEWAYS/CROSSOVERS UNTIL ELECTRICAL WORKS ARE COMPLETED

DIAL BEFORE YOU DIG
 www.1100.com.au

THE LOCATION OF OTHER AUTHORITIES SERVICES WHICH MAY AFFECT THIS WORK HAVE NOT BEEN OBTAINED BY THE ESTIMATOR. CONTRACTOR TO OBTAIN SERVICE INFORMATION BEFORE COMMENCING

FIRE ANTS
 CONSTRUCTION CONTRACTOR TO DETERMINE IF FIRE ANTS RESTRICTIONS APPLY CALL 13 25 35

CONTRACTOR TO SUBMIT AS-BUILT DESIGNS TO AMPFLO comms@ampflo.com.au TO BE PROCESSED BY NBN

ATTENTION
 DO NOT CHANGE OR ALTER JOB SPECIFICATIONS UNLESS FIRST CHECKING WITH DESIGNER

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NBNCO APPROVAL RECORD:

DD _____ DATE _____
 WD _____
 AB _____

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Australia's broadband network

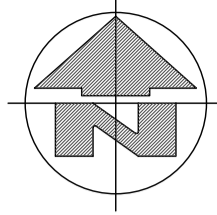
ampflo
 ABN 28 111 423 842
 Electrical and Telecommunications Consultants
 comms@ampflo.com.au

KEY PLAN

DRAWING TITLE: Woodlinks - Stage 11 7001 Collingwood Dr Collingwood Park QLD NBN Co PIT AND PIPE DESIGN		
STATE: QLD	SAM: -	REGION: MGA56
FSA: -	ADA: -	
PROJECT No: -		
CADREF No: 222116		
SCALE: 1:250	SHEET No: 2 OF 2	REV: C

LEGEND

- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- E
- 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 240LV
- CONDUIT / CABLE CROSS-SECTION
- WATER METER
- PROPOSED DRIVEWAY ENTRY
- PROPOSED ZERO LOT IDENTIFIER
- 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



WOODLINKS - STAGE 11(11A, B & C) ELECTRICAL RETICULATION

- 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 ENERGEX/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 ENERGEX 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. NO NON-ENERGEX ASSETS TO BE INSTALLED WITHIN THIS EXCLUSION ZONE.
 - ENERGEX REQUIRE 1.0m CLEARANCE BETWEEN SERVICE PILLARS AND DRIVEWAYS. IF LESS THAN 1.0m SEPARATION THEN PROTECTIVE BOLLARDS MUST BE INSTALLED.

- CONSTRUCTION CONTRACTOR**
- THE CONTRACTOR SHALL BE RATED BY ENERGEX 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 ENERGEX MANUALS AND SPECIFICATIONS
- 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 ENERGEX 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 ASSETS CAUSED BY HIS WORKS AND THE RE-ESTABLISHMENT OF ANY SURVEY MARKS DISCLOSED.

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)

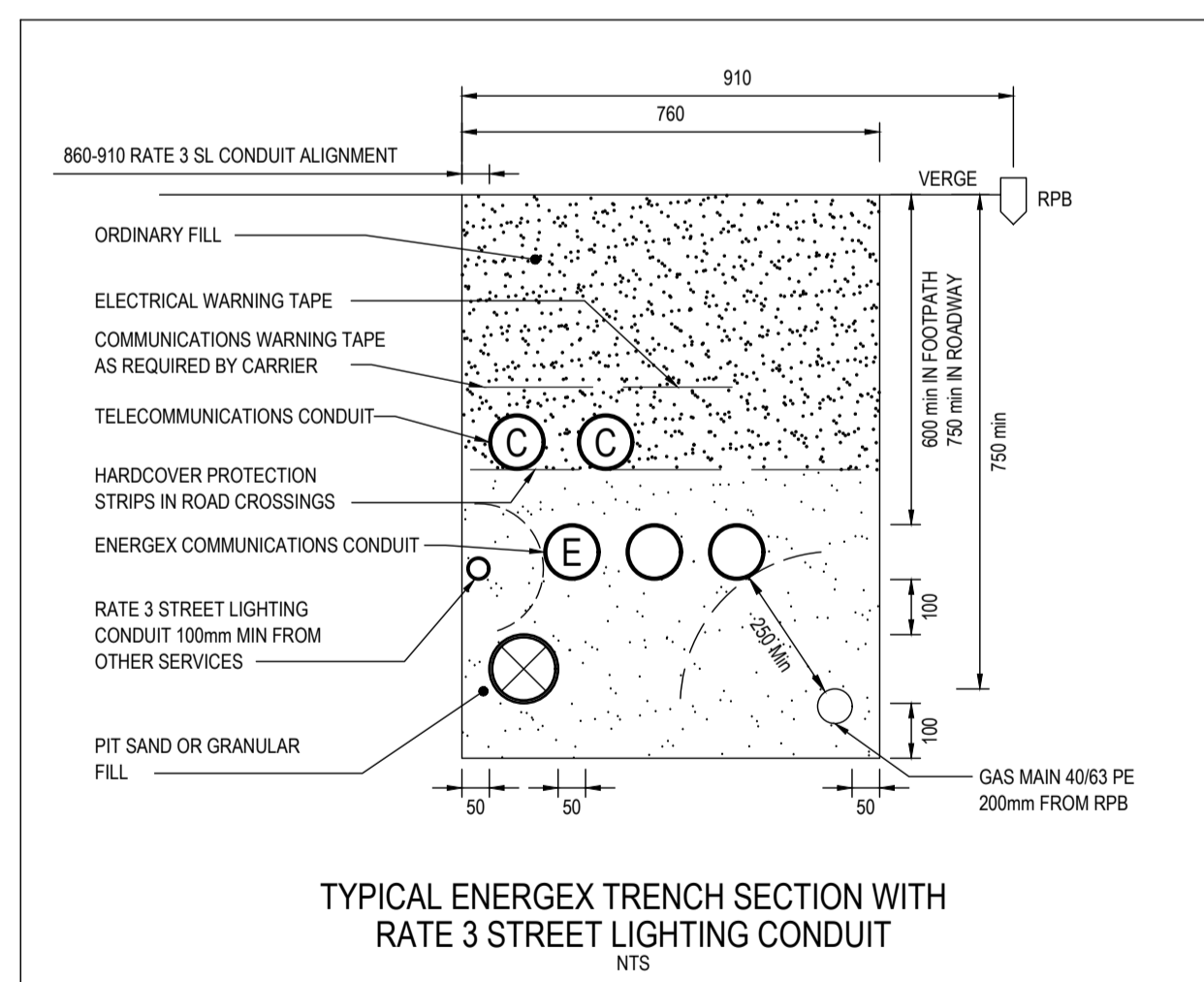
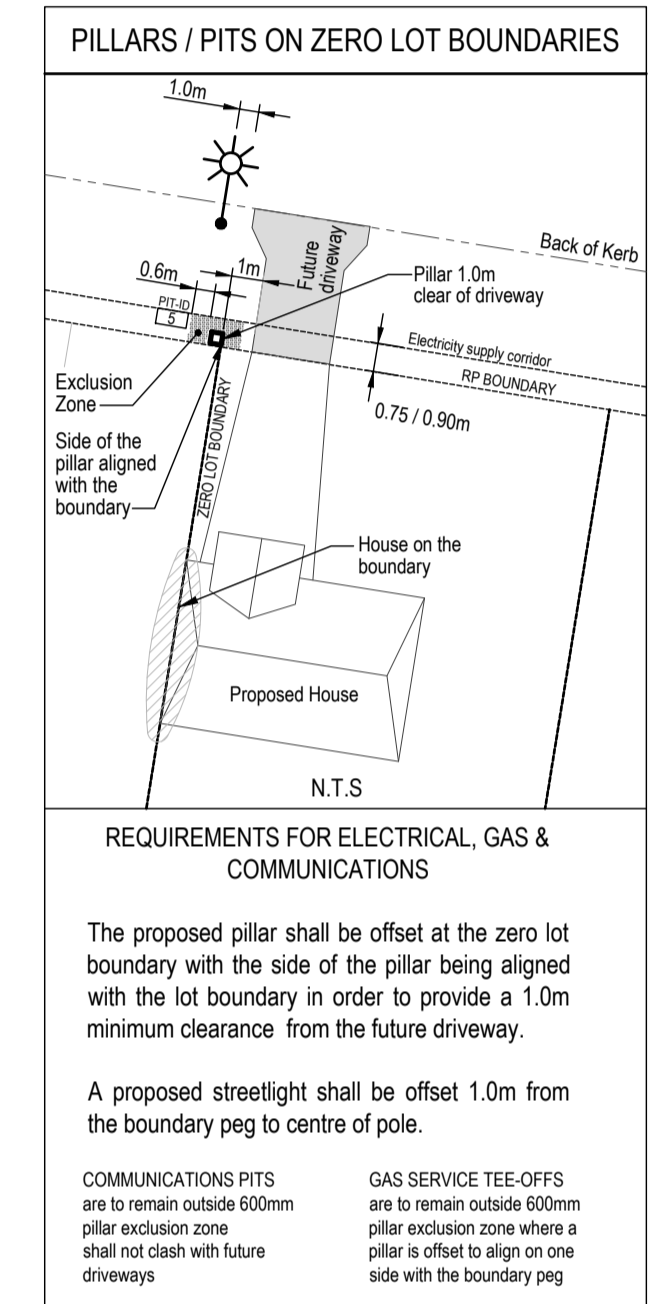
SEWERAGE, STORMWATER, GAS AND WATER PLANS FOR THE SITE MAY BE OBTAINED ON REQUEST FROM THE PROJECT SERVICE SUPERVISOR.

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

AS CONSTRUCTED
Garry Edwards Date: 17/07/23
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

COUNCIL REQUIRE 0.6m 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.

FOR CONSTRUCTION
01/03/2023 2:12 PM

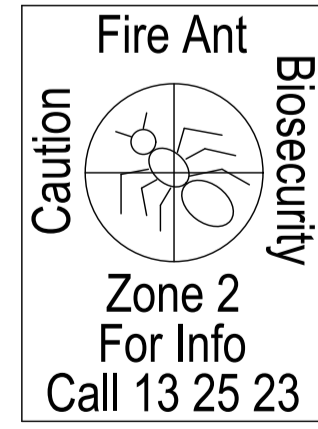


REFER TO DWG S2602400 FOR TARIFF 3 STREET LIGHTING.

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

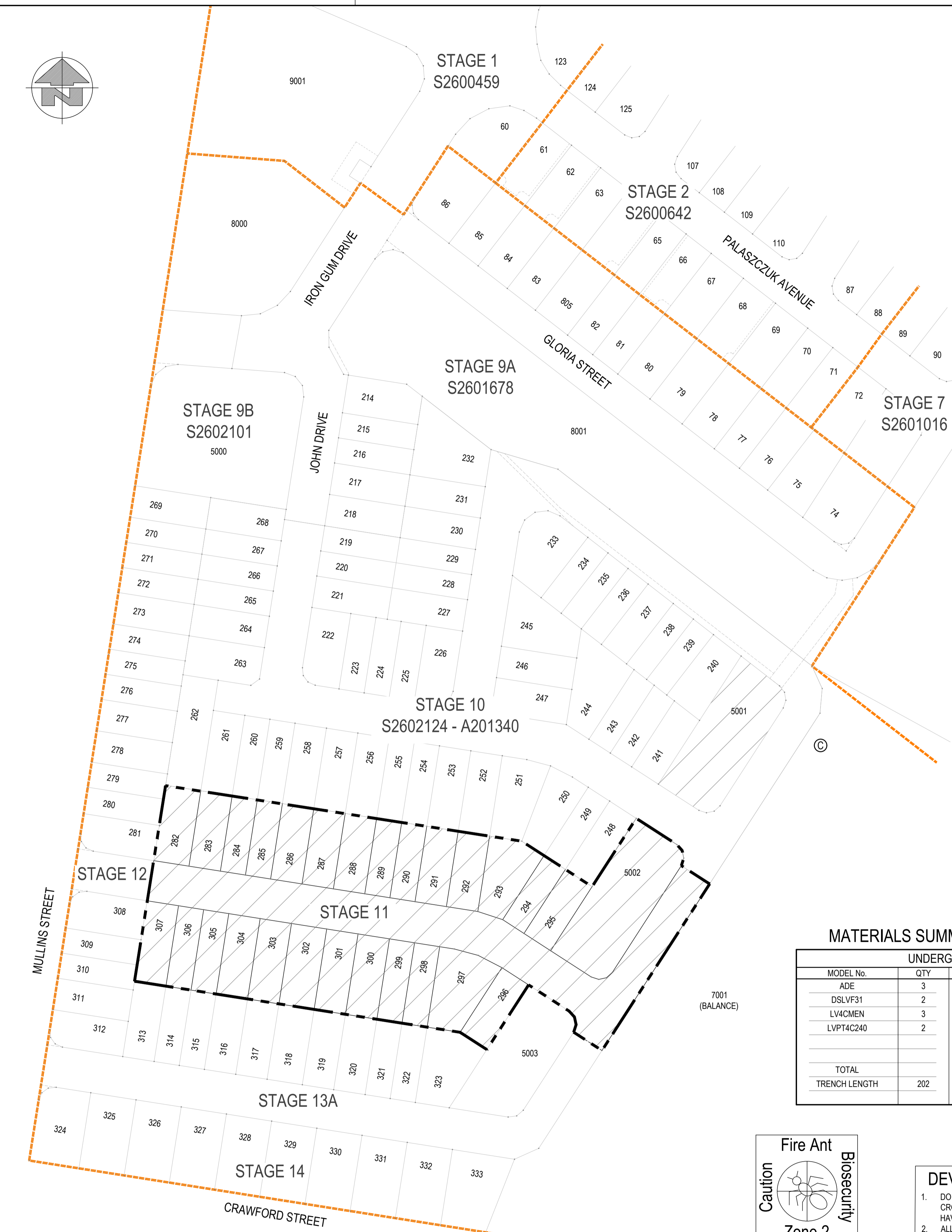
MATERIALS SUMMARY - S2602364

UNDERGROUND			
MODEL No.	QTY	MODEL No.	QTY
ADE	3	LVSP12-6	6
DSLVF31	2	LVSP2-6SL	2
LV4CMEN	3	LVSP4-6	4
LVPT4C240	2	LVSP4-6SL	4
		LVSP1240	2
TOTAL		SCS820364	530
TRENCH LENGTH	202	SCS820365	126



DEVELOPERS NOTES

- DO NOT CONSTRUCT DRIVEWAYS / CROSSOVERS UNTIL ELECTRICAL WORKS HAVE BEEN COMPLETED.
- ALL KERB OUTLET PIPES TO BE 600mm CLEAR OF THE PROPOSED ELECTRICAL PILLARS



WOODLINKS - KEYPLAN
SCALE: N.T.S.

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REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD
D	01.03.23	ISSUED FOR CONSTRUCTION	AB	BK	BK
C	27.02.23	REVISED CIVIL (FH) & MOVE PILLAR STN 3	AB	BK	BK
B	15.02.23	ISSUED FOR APPROVAL	AB	BK	BK
A	15.02.23	PRELIMINARY ISSUE	AB	BK	BK



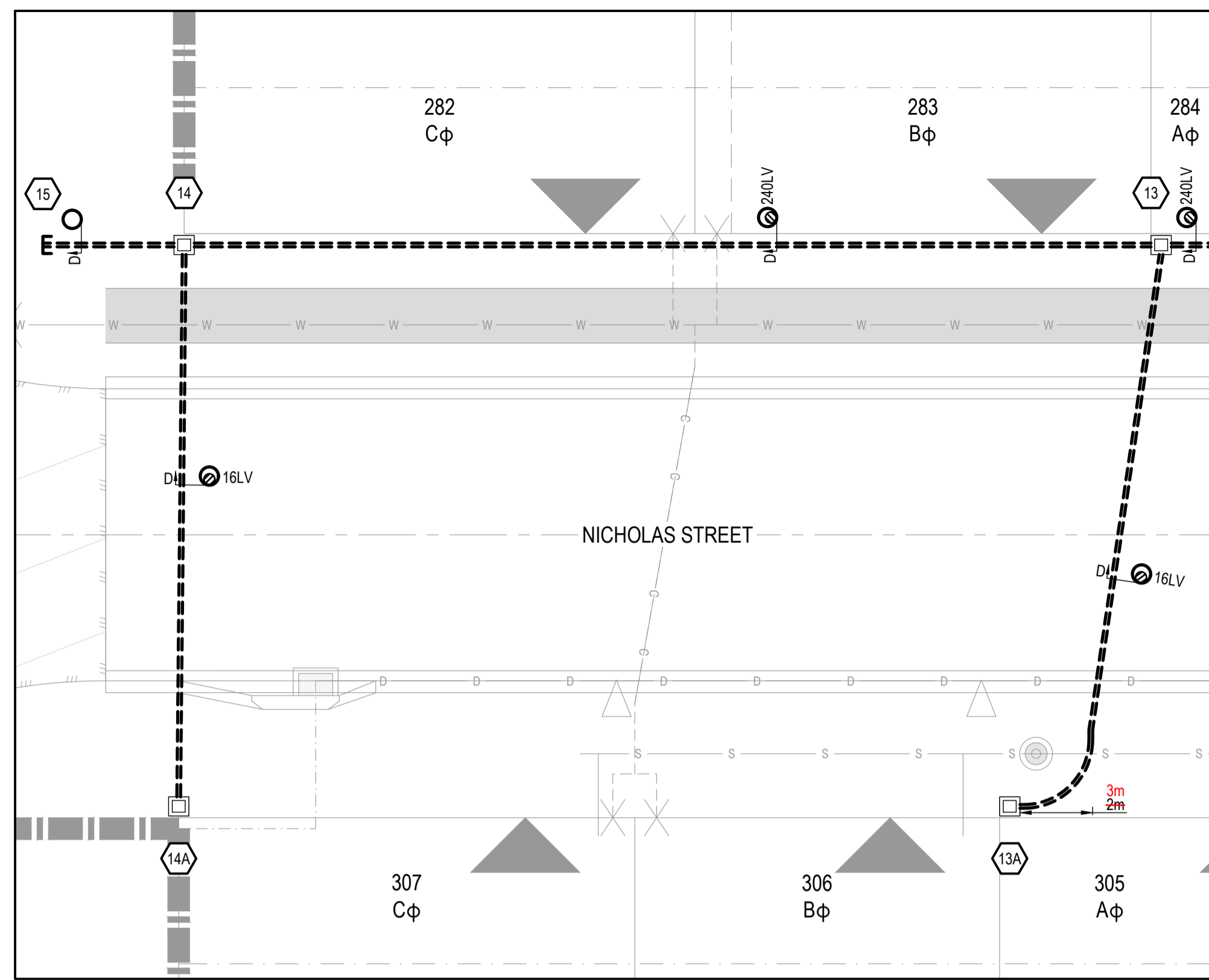
SITE CONTACT DETAILS		ALIGNMENTS		PROJECT / SUB PROJECT NO.	
NAME	BEC ASHBY	ENERGEX OH	0.7 FR KI	S2602364	
COMPANY	VILLAGE BUILDING CO	ENERGEX UG	0-0.91	PARENT PROJECT NO.	-
PHONE	0421 078 630	TELSTRA	0.91-1.3	WORK REQUEST NO.	-
EMAIL	-	GAS	3.41-3.81	PLANNER & PHONE	SUBDIVISIONS
		HP GAS	3.41-3.81	LOTS	282 - 307, 5002 & 5007
		WATER	2.21-2.81	CANCELLING LOTS	5007 ON SP332780
		STORMWATER	IN ROAD	LOCAL AUTHORITY	IPSWICH CITY COUNCIL
		SEWERAGE	1.3-2.21	PEGGED?	ON REQUEST

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

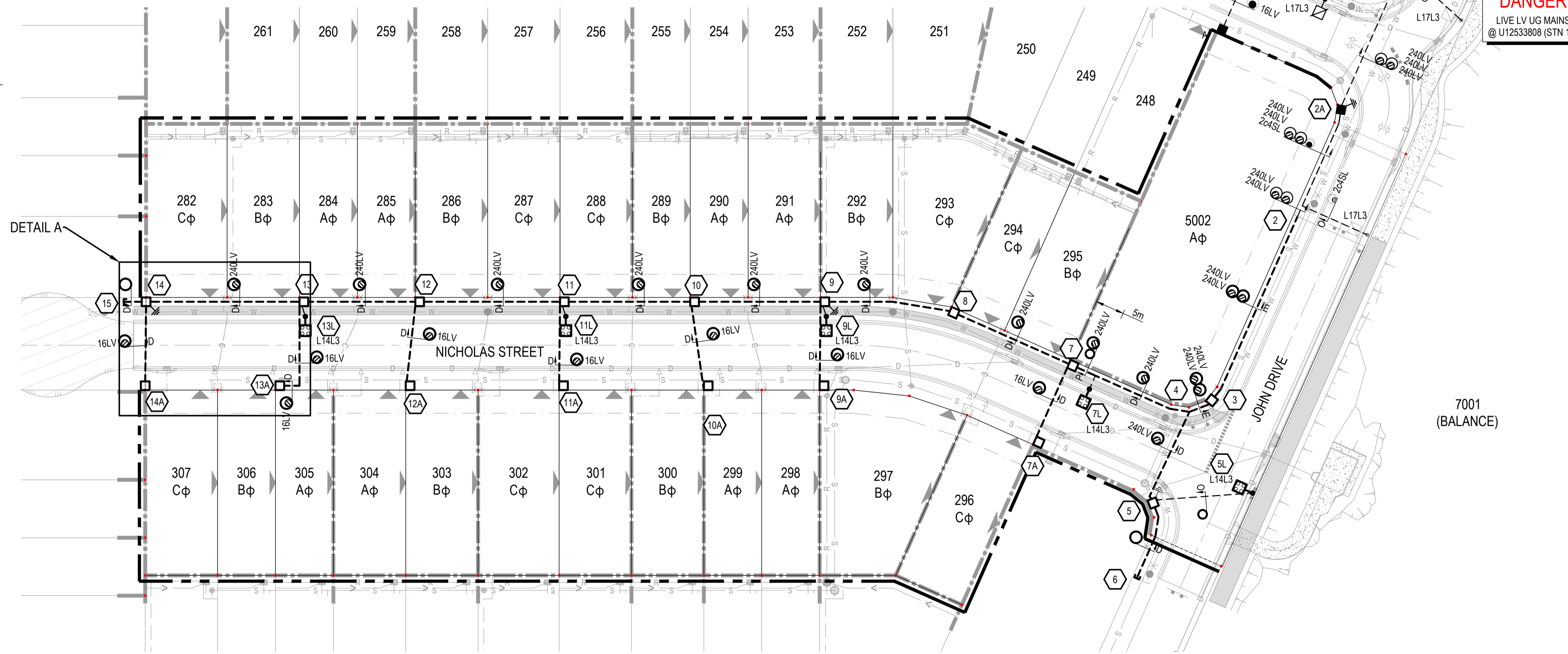
CERTIFICATION APPROVED: Brad Kunde	RPEQ No: 16286	DATE: 1/03/2023
CHECKED: B. KUNDE	DESIGNER: A. BUI	ISSUE DATE: 01.03.23

PROJECT: 28 LOT RESIDENTIAL SUBDIVISION WOODLINKS VILLAGE STAGE 11 WOODLINKS STAGING PLAN, ZERO LOT DETAIL, RATE 3 TRENCH DETAIL, MATERIAL SUMMARY, LEGEND & NOTES	DRAWING: A222116	SHEET 1 OF 3
--	------------------	--------------

PLOT: 03/02/23-13:59 PM FILE: E:\2023\15_7001 COLLINGWOOD DR COLLINGWOOD PARK WOODLINKS_STAGE 11_UG_WIRING\A22116.DWG



PILLAR CROSSING DETAIL 'A'
SCALE 1:125



SCALE 1:500 (BEFORE REDUCTION)

DANGER
LIVE LV UG MAINS
@ SC12533809

DANGER
LIVE LV UG MAINS
@ U12533808 (STN 1A)

AS CONSTRUCTED
Garry Edwards Date: 17/07/23
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

FILE: P:\22116_7001\WOODLINKS_VILLAGE\WOODLINKS_STAGE_11\WORKING\A22116.DWG

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REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD	
D	01.03.23	ISSUED FOR CONSTRUCTION	AB	BK	BK	
C	27.02.23	REVISED CIVIL (FH) & MOVE PILLAR STN 3	AB	BK	BK	
B	15.02.23	ISSUED FOR APPROVAL	AB	BK	BK	
A	15.02.23	PRELIMINARY ISSUE	AB	BK	BK	

SITE CONTACT DETAILS	
NAME	ENERGEX OH 0.7 FR KI
COMPANY	ENERGEX UG 0-0.91
VILLAGE BUILDING CO	TELSTRA 0.91-1.3
PHONE	GAS 3.41-3.81
MOBILE	HP GAS 3.41-3.81
EMAIL	WATER 2.21-2.81
	STORMWATER IN ROAD
	SEWERAGE 1.3-2.21

ALIGNMENTS		PROJECT / SUB PROJECT NO.		S2602364	
ENERGEX OH 0.7 FR KI		PARENT PROJECT NO.		-	
ENERGEX UG 0-0.91		WORK REQUEST NO.		-	
TELSTRA 0.91-1.3		PLANNER & PHONE		SUBDIVISIONS	
GAS 3.41-3.81		LOTS		282 - 307, 5002 & 5007	
HP GAS 3.41-3.81		CANCELLING LOTS		5007 ON SP332780	
WATER 2.21-2.81		LOCAL AUTHORITY		IPSWICH CITY COUNCIL	
STORMWATER IN ROAD		PEGGED?		ON REQUEST	
SEWERAGE 1.3-2.21					

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

ECAAS
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CERTIFIED QUALITY MANAGEMENT

CERTIFICATION:	
APPROVED:	Brad Kunde
RPEQ No:	16286
DATE:	1/03/2023
CHECKED:	B. KUNDE
DESIGNER:	A. BUI
ISSUE DATE:	01.03.23

PROJECT	
28 LOT RESIDENTIAL SUBDIVISION WOODLINKS VILLAGE STAGE 11 ELECTRICAL RETICULATION PLAN & PILLAR DETAILS	
DRAWING:	A222116
PROJECT:	222116
SHEET:	2 OF 3
ISSUE:	D

URD CONDUIT SCHEDULE - FOOTPATHS - BY ELECTRICAL CONTRACTOR

LOCATION	STATIONS FROM - TO	CONDUIT LENGTH (m)						X-SECTION (m)			DRAW WIRE	KERB MARKERS	REMARKS	
		50mm HD	No.	100mm LD	No.	125mm LD	No.	EQL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE				TRENCH DETAIL
JOHN DRIVE	1 1A												EXISTING BANK OF CONDUITS	
	1A 2A												EXISTING BANK OF CONDUITS	
	2 3			36	2				36	E	76		JOIN TO EXISTING AT STN 2	
	2A 2												EXISTING CONDUITS	
NICHOLAS STREET	7 8			22	1				22	D	24			
	8 9			22	1				22	D	24			
	9 10			22	1				22	D	24			
	10 11			23	1				23	D	25			
	11 12			25	1				25	D	27			
	12 13			20	1				20	D	22			
	13 14			27	1				27	D	29			
	14 15			5	1				5	D	7			
	TOTAL				238m				202m		258m			CAP CONDUIT

URD CONDUIT SCHEDULE - ROADWAYS - BY CIVIL CONTRACTOR

LOCATION	STATIONS FROM - TO	CONDUIT LENGTH (m)						X-SECTION (m)			DRAW WIRE	KERB MARKERS	REMARKS	
		50mm HD	No.	100mm LD	No.	125mm LD	No.	EQL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE				TRENCH DETAIL
JOHN DRIVE	3 4			5	2				5	E	14	2	RETAINING WALL	
	4 5			18	1				18	D	20	2		
	4 7			23	1				23	D	25	2	RETAINING WALL	
	5 6			15	1				15	D	17	2	RETAINING WALL & CAP CONDUIT END	
NICHOLAS STREET	7 7A			17	1				17	D	19	2		
	9 9A			15	1				15	D	17	2		
	10 10A			16	1				16	D	18	2		
	11 11A			15	1				15	D	17	2		
	12 12A			15	1				15	D	17	2		
	13 13A			18	1				18	D	20	2		
	14 14A			16	1				16	D	18	2		
	TOTAL				178m			130m	173m		202m	22		

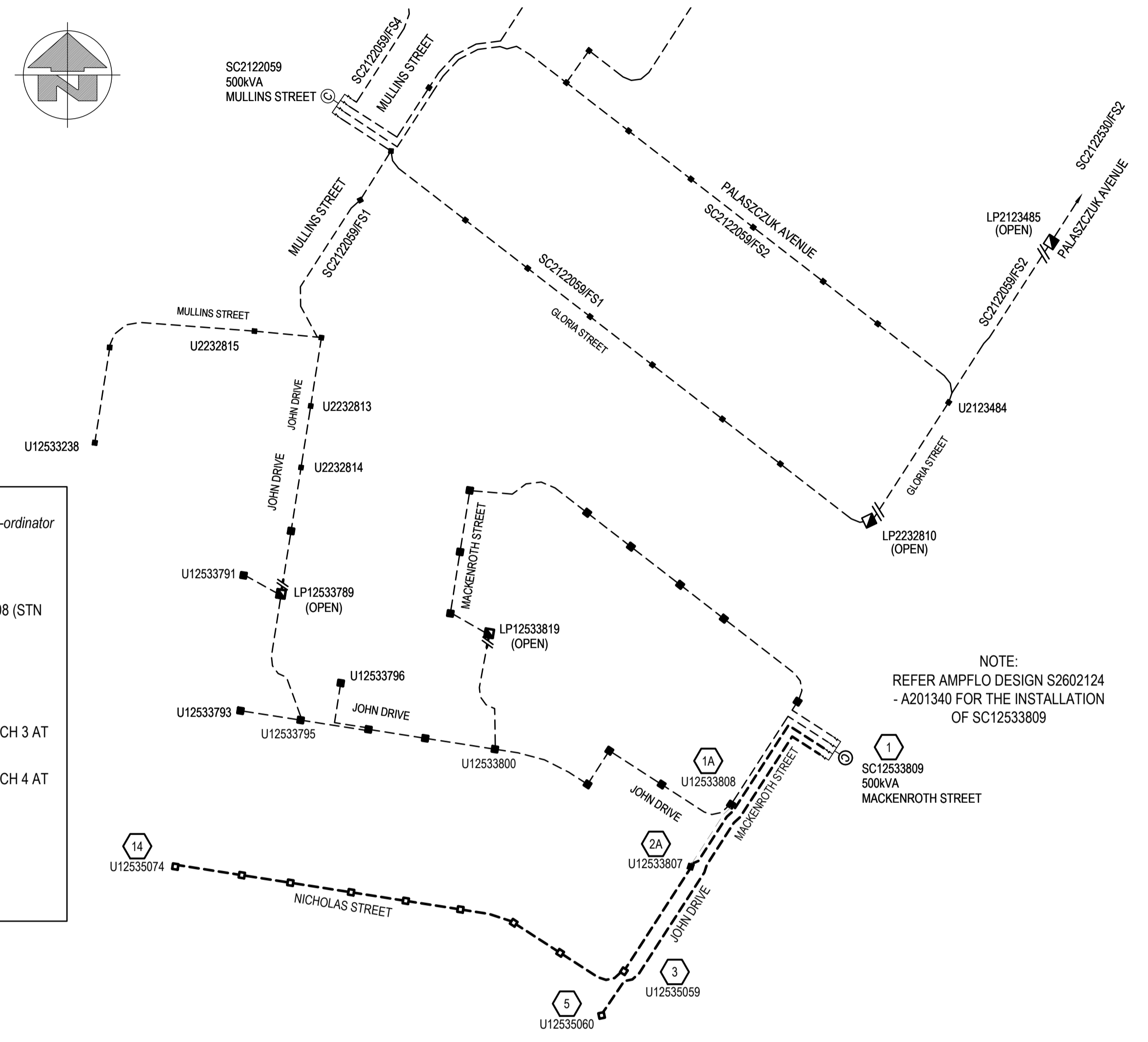
UNDERGROUND CABLE SCHEDULE

LOCATION	STATIONS FROM - TO	VOLTS	EX	REC	IN	CABLE SIZE/TYPE	CU CODE	CABLE LENGTH (m)		REMARKS
								NEW	REC	
JOHN DRIVE	1 2A	LV			*	240mm ² Al 4C XLPE/PVC	SCS820364	95		RECOVER EXISTING 240LV
	1 5	LV			*	240mm ² Al 4C XLPE/PVC	SCS820364	170		
	1A 2A	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364			
	2A 3	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	56		
	3 7	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	34		
NICHOLAS STREET	7 7A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	19		
	7 8	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	24		
	8 9	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	24		
	9 9A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	17		
	9 10	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	24		
	10 10A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	18		
	10 11	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	25		
	11 11A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	17		
	11 12	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	27		
	12 12A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	17		
	12 13	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	22		
	13 13A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	20		
	13 14	LV		*	*	240mm ² Al 4C XLPE/PVC	SCS820364	29		
	14 14A	LV		*	*	16mm ² Cu 4C XLPE/PVC	SCS820365	18		
TOTALS						240mm ² Al 4C XLPE/PVC	SCS820364	530		
						16mm ² Cu 4C XLPE/PVC	SCS820365	126		

EQUIPMENT SCHEDULE

LOCATION	STN No.	SITE I.D.	EX	REC	IN	SIZE AND DESCRIPTION	COMP ID	CU CODE	QTY	REMARKS
JOHN DRIVE	1	SC12533809	*			EXISTING TRANSFORMER TO REMAIN LV TERMINATION 315A LV FUSE LINK FOR LV BOARD		LVPT4C240 DSLVF31	2	
	1A	U12533808	*			3 WAY PILLAR				CONVERT TO 2 WAY
	2A	U12533807	*			1 WAY PILLAR 240mm 4 CORE CABLE LV LUG SET		LVSP4-6	2	CONVERT TO 2 WAY 1x240LV
	3	U12535059	*			2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
NICHOLAS STREET	5	U12535060	*			1 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP2-6SL LV4CMEN	1	1x240LV, 1x4SL
	7	U12535061	*			2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x16LV, 1x4SL
	7A	U12535062	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	8	U12535063	*			2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	9	U12535064	*			2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1	2x240LV, 1x16LV, 1x4SL
	10	U12535066	*			2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV, 1x16LV
	10A	U12535067	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	11	U12535068	*			2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x16LV, 1x4SL
	11A	U12535069	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	12	U12535070	*			2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV, 1x16LV
	12A	U12535071	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	13	U12535072	*			2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x16LV, 1x4SL
	13A	U12535073	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	14	U12535074	*			1 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP2-6SL LV4CMEN	1	1x240LV, 1x16LV, 1x4SL
14A	U12535075	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV	
	9A	U12535065	*			CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV

- SWITCHING & COMMISSIONING PLAN - LV
(subject to site conditions, amendments by switching co-ordinator and approval by LV outage co-ordinator)
- SWITCHING
- BREAK BRIDGES AT U12533808 (STN 1A)
 - RECOVER EXISTING 240LV BETWEEN U12533807 (STN 1A) AND U12533807 (STN 2A)
 - INSTALL LV NETWORK AS PER PLANS
 - OPEN FUSE SWITCH 3 AT SC12533809
 - OPEN FUSE SWITCH 4 AT SC12533809
 - MAKE NEW 240LV CONNECTION TO FUSE SWITCH 3 AT SC12533809 FROM U12533807 (STN 2A)
 - MAKE NEW 240LV CONNECTION TO FUSE SWITCH 4 AT SC12533809 FROM U12535060 (STN 5)
 - CLOSE FUSE SWITCH 4 AT SC12533809
 - CLOSE FUSE SWITCH 3 AT SC12533809
 - TEST AND COMMISSION
 - PERFORM POST COMMISSIONING CHECKS



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

AT SC12533809

CCT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80x35	WB	6mm	TRANSFORMER ISOLATOR
1	80x35	WB	5mm	EXISTING LABEL TO REMAIN
2	80x35	WB	5mm	EXISTING LABEL TO REMAIN
3	80x35	WB	5mm	LV CABLE TO JOHN DRIVE U12533807 DIRECT / THEN NICHOLAS STREET U12535074 AND SERVICES
4	80x35	WB	5mm	LV CABLE TO JOHN DRIVE U12535060 DIRECT

AS CONSTRUCTED
Garry Edwards Date: 17/07/23
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

PLOT: 03/20/2023-12:41 PM FILE: E:\2021\11-7001 COLLINGWOOD DR COLLINGWOOD PARK - WOODLINKS - STAGE 11\03 WORKING\A22116.DWG

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D	01.03.23	ISSUED FOR CONSTRUCTION	AB	BK	BK
C	27.02.23	REVISED CIVIL (FH) & MOVE PILLAR STN 3	AB	BK	BK
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A	15.02.23	PRELIMINARY ISSUE	AB	BK	BK
REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD

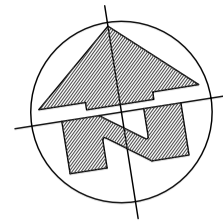
SITE CONTACT DETAILS		ALIGNMENTS		PROJECT / SUB PROJECT NO.	
NAME	BEC ASHBY	ENERGEX OH	0.7 FR KI	S2602364	
COMPANY	VILLAGE BUILDING CO	ENERGEX UG	0-0.91	PARENT PROJECT NO.	-
PHONE	0421 078 630	TELSTRA	0.91-1.3	WORK REQUEST NO.	-
MOBILE	-	GAS	3.41-3.81	PLANNER & PHONE	SUBDIVISIONS
EMAIL	-	HP GAS	3.41-3.81	LOTS	282 - 307, 5002 & 5007
		WATER	2.21-2.81	CANCELLING LOTS	5007 ON SP332780
		STORMWATER	IN ROAD	LOCAL AUTHORITY	IPSWICH CITY COUNCIL
		SEWERAGE	1.3-2.21	PEGGED?	ON REQUEST

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

ISO 9001 CERTIFIED QUALITY MANAGEMENT

CERTIFICATION:	APPROVED: Brad Kunde
RPEQ No: 16286	DATE: 1/03/2023
CHECKED: B. KUNDE	DESIGNER: A. BUI
ISSUE DATE: 01.03.23	DRAWING: A22116

PROJECT		SHEET 3 OF 3	
28 LOT RESIDENTIAL SUBDIVISION WOODLINKS VILLAGE STAGE 11 SCHEDULES LV SCHEMATIC, LV PMT LABEL, & COMMISSIONING PLAN		D	



STREETLIGHTING CERTIFICATION

This lighting design is certified to comply generally with the nominated categories of AS/NZS 1158.1.1:2022 (V Category) and / or AS/NZS 1158.3.1:2020 for (P Category), and AS/NZS 4282:2019 for luminaires supplied on the following road within this design:

JOHN DRIVE
NICHOLAS STREET

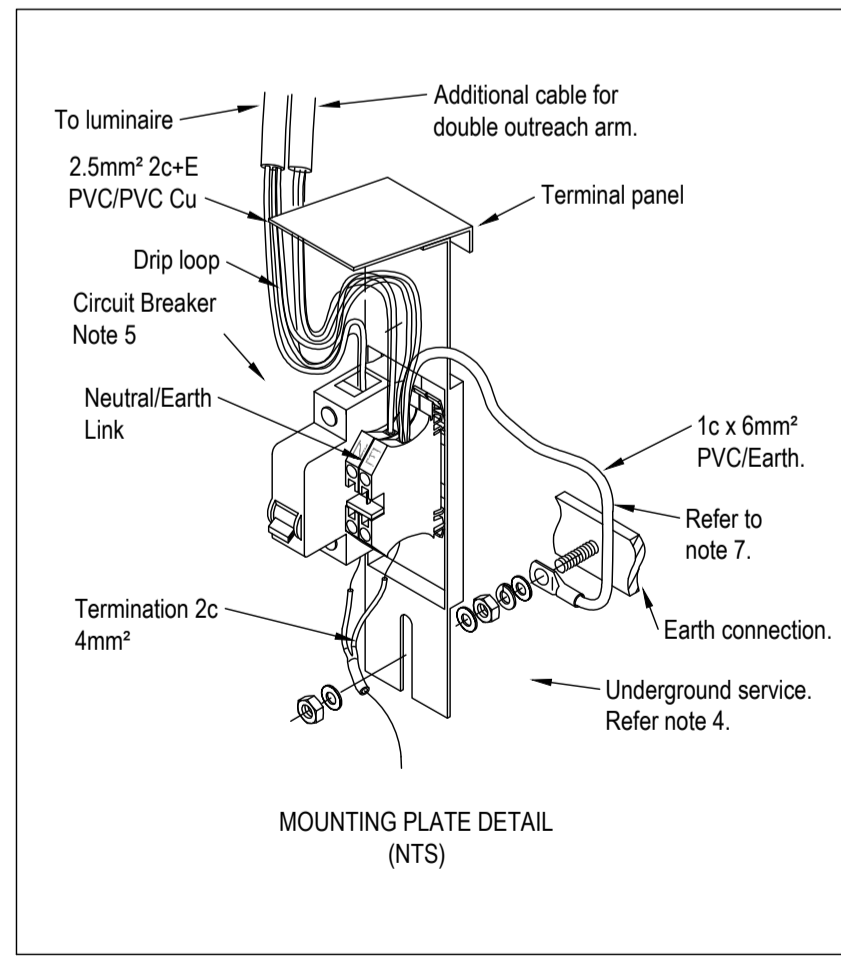
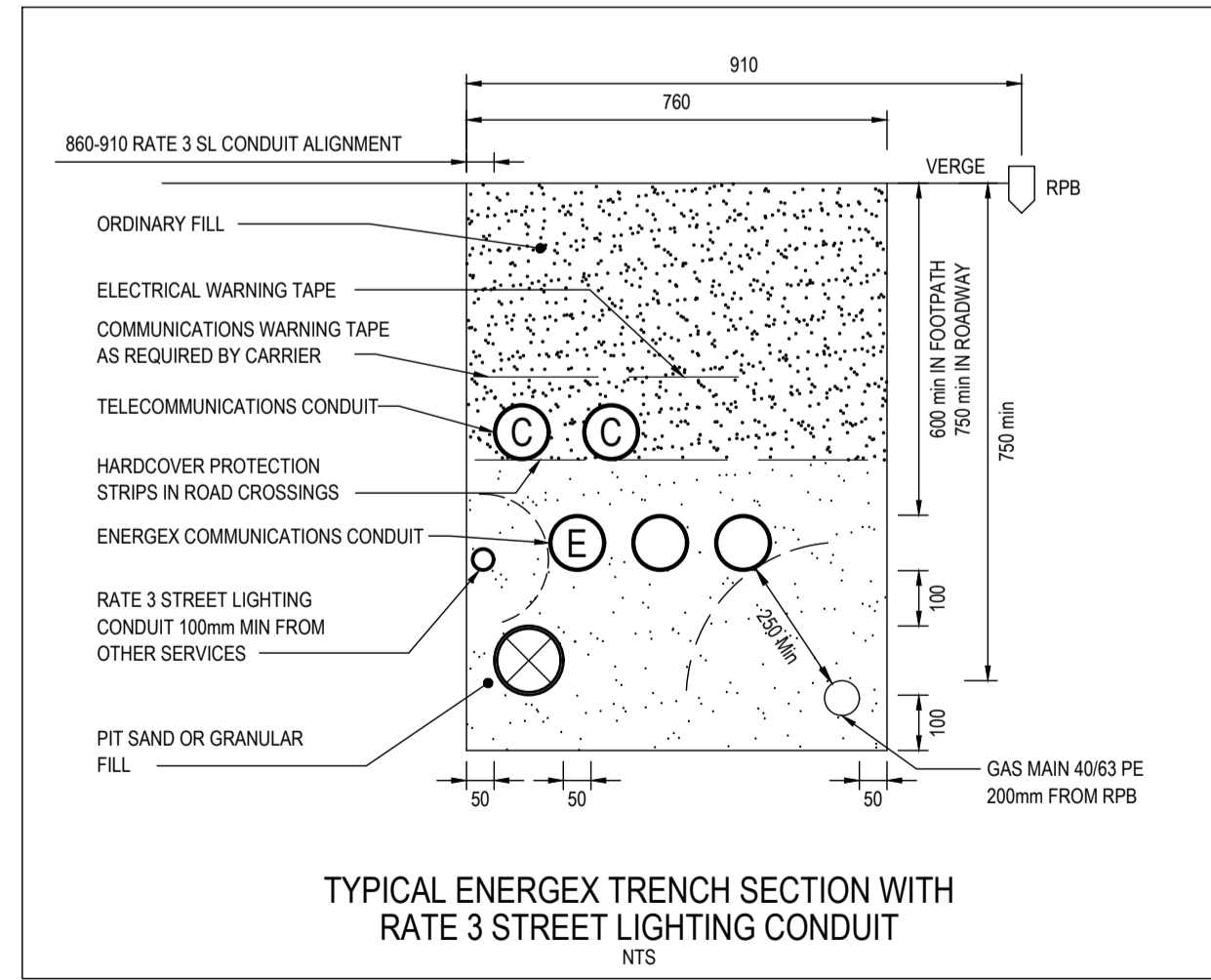
With the following exceptions:
NIL.

Maintenance Factor:
This lighting design uses the following maintenance factor(s):
Maintenance Factor Calculated : 0.80

These maintenance factor(s) are based on the following nominal maintenance regime:
Lamp replacement (for non-LED luminaires) at 36 month intervals.
Cleaning, inspection and maintenance of all luminaires at 36 month intervals
Service availability maintained at not less than 95%.
Vegetation kept clear of luminaires.

If the asset owner elects not to adopt this maintenance regime, they shall develop an inspection and maintenance regime such that the overall lighting installation operates in accordance with this design.

CERTIFICATE OF COMPLIANCE	
Design Documentation in accordance with the requirements of : Appendix C	
Applicable Standard : AS/NZS 1158.3.1:2020	Maintenance Factor: 0.80
Calculation Software : PERFECT LITE v5.06	
Lighting Category	
Road Name(s)	JOHN DRIVE & NICHOLAS STREET
Nominated Category	PR5
Road Surface Reflection	-
Road Reserve/ Path Width	AS SHOWN ON PLAN
Mounting Height	5.1m
Overhang/Offset Distance	N/A
Lighting Arrangement	SINGLE
Pole Setback	800 (STN SL) & 950 IOK
Upcast Angle	0°
Luminaire Details	
Lamp Type / Wattage	LED 14W
Luminaire Identification	AVENUE II 4K 14W VW DISTRIBUTED BY SCHREDER/SYLVANIA
Lamp Flux (lumens)	1969
I-table Identifier	AVENUE II 4K 14W V2 210729PH.CIE
Lighting Tariff	Rate 2
Power Factor	HPF (≥ 0.9)
Start/run Currents	0.05A / 0.05A
Ip Rating	IP66
Spacing Calculations	
Average Horizontal Illuminance (E _h)	≥ 0.85 lux
Min Point Horizontal Illuminance (E _{ph})	≥ 0.14 lux
Illuminance Uniformity (U _{E2})	≤ 10
Min Point Vertical Illuminance (E _{pv})	N/A
Upward Waste Light Ratio (UWLR) %	≤ 1.0% (calculated 0%)
Road Reserve/ Footpath Design Width (m)	Maximum Spacing (m)
13.45m	52.7m
16.0m	54.8m



TARIFF 3 LED LIGHTING INFORMATION

DESIGN NOTES
SOFTWARE USED - PERFECT LITE - TREVOR CASWELL SOFTWARE.
MAINTENANCE FACTOR - 0.8
CLEANING CYCLE - 36 MONTHS.
MAXIMUM SERVICE LIFE - 50,000 HOURS.

PUBLIC LIGHTING NOTES
REFER TO IPSWICH CITY COUNCIL STANDARD DRAWINGS SL.01 TO SL.08 FOR STANDARD NOTES, INSTALLATION DETAILS AND LABELLING REQUIREMENTS.

CONTRACTOR OBLIGATION
ALL LIGHT FITTINGS SHALL BE CONNECTED TO UNMETERED SUPPLY IN ACCORDANCE WITH ENERDEX TARIFF 3 REQUIREMENTS, AND AS NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE THE DATE OF CONNECTION OF EACH STREET LIGHT ADJACENT TO EACH STATION IN THE STREET LIGHTING SCHEDULE.

THIS SCHEDULE WILL THEN BE USED BY THE CONTRACTOR FOR B2B SUBMISSION.

AS CONSTRUCTED

Garry Edwards
Date: 04/08/23
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

FOR CONSTRUCTION

01/03/2023 2:12 PM

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REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD
D	01.03.23	ISSUED FOR CONSTRUCTION	AB	BK	BK
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A	15.02.23	PRELIMINARY ISSUE	AB	BK	BK

CLIENT

Woodlinks Village

SITE CONTACT DETAILS		ALIGNMENTS		PROJECT / SUB PROJECT NO.	
NAME	BEC ASHBY	ENERGEX OH	0.7 FR KI	S2602400	
COMPANY	TELSTRA	ENERGEX UG	0-0.91	PARENT PROJECT NO.	-
VILLAGE BUILDING CO	GAS	TELSTRA	0.91-1.3	WORK REQUEST NO.	-
PHONE	-	HP GAS	3.41-3.81	PLANNER & PHONE	SUBDIVISIONS
MOBILE	0421 078 630	WATER	3.41-3.81	LOTS	282 - 307, 5002 & 5007
EMAIL	-	STORMWATER	2.21-2.81	CANCELLING LOTS	5007 ON SP332780
		SEWERAGE	1.3-2.21	LOCAL AUTHORITY	IPSWICH CITY COUNCIL
				PEGGED?	ON REQUEST

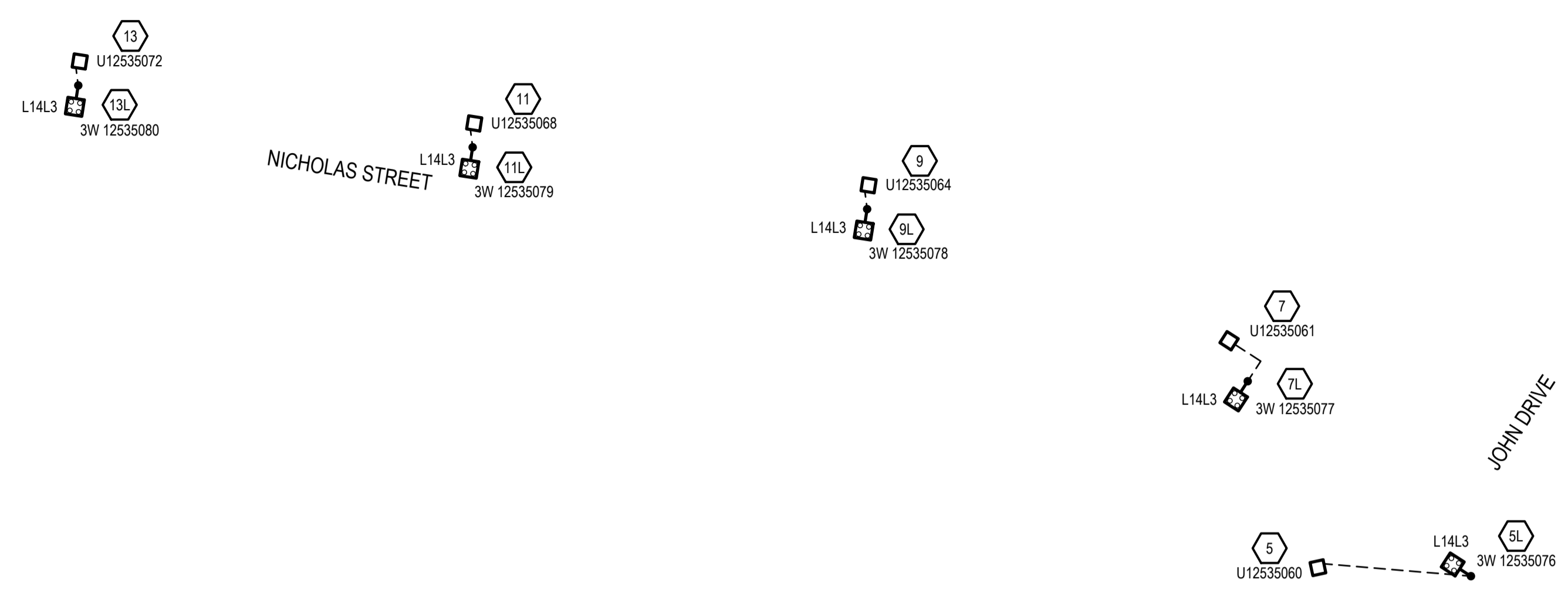
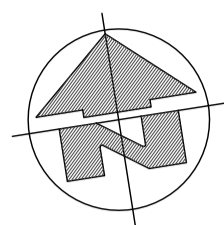
ISO 9001 CERTIFIED QUALITY MANAGEMENT

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:	1/03/2023
CHECKED:	B. KUNDE
DESIGNER:	A. BUI
ISSUE DATE:	01.03.23

PROJECT	
28 LOT RESIDENTIAL SUBDIVISION WOODLINKS VILLAGE STAGE 11 STREETLIGHTING RETICULATION PLAN, RELEVANT RATE 3 DETAILS & NOTES, STREETLIGHTING CERTIFICATION & CERTIFICATE OF COMPLIANCE	
DRAWING:	R222116
PROJECT:	222116
SHEET	1 OF 2

D



PROPOSED SL SCHEMATIC DIAGRAM
SCALE N.T.S

RATE 3 MATERIALS SUMMARY

EQUIPMENT	
MODEL No.	QTY
LVC24PVPV	48
SLEDSY01375	5
SLNOS3CI	5
SUGSLPIL	5
TOTAL TRENCH LENGTH	15

RATE 3 CONDUIT SCHEDULE - FOOTPATHS - BY ELECTRICAL CONTRACTOR

LOCATION	STATIONS FROM - TO	CONDUIT LENGTH (m)		PVC CABLE PROTECTION (m)	X-SECTION (m)		DRAW WIRE	KERB MARKERS	REMARKS
		50mm HD	No.		EXCAV /TAPE	TRENCH DETAIL			
NICHOLAS STREET	7 7L	8	1	3	3	P+O	10		
	9 9L	4	1	4	4	O	6		
	11 11L	4	1	4	4	O	6		
	13 13L	4	1	4	4	O	6		
TOTAL		20m		15m	15m		28m		

RATE 3 CONDUIT SCHEDULE - ROADWAYS - BY CIVIL CONTRACTOR

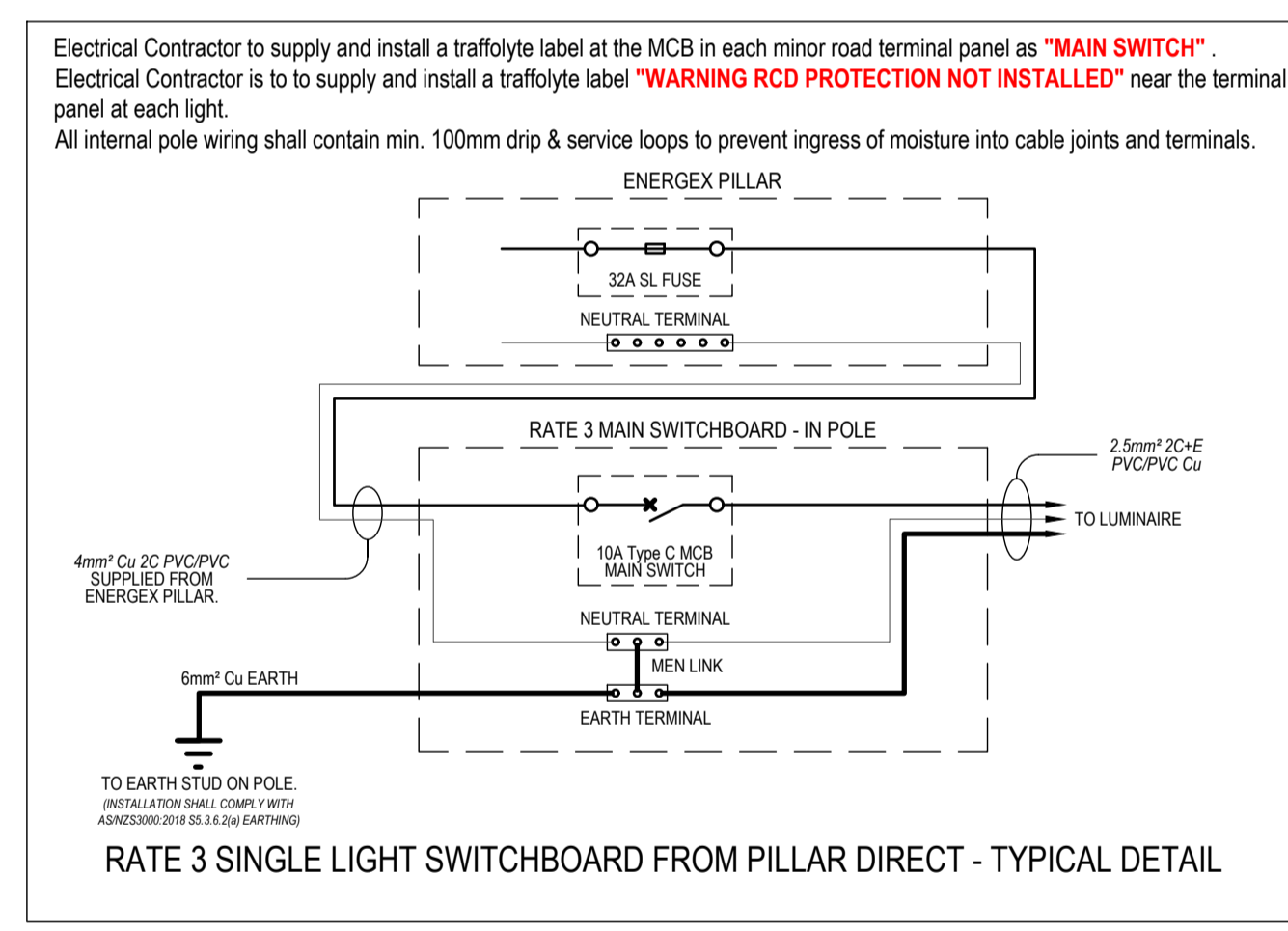
LOCATION	STATIONS FROM - TO	CONDUIT LENGTH (m)		PVC CABLE PROTECTION (m)	X-SECTION (m)		DRAW WIRE	KERB MARKERS	REMARKS
		50mm HD	No.		EXCAV /TAPE	TRENCH DETAIL			
JOHN DRIVE	5 5L	18	1	18	18	O	20	2	
TOTAL		18m		18m	18m		20m	2	

RATE 3 CABLE SCHEDULE

LOCATION	STATIONS FROM - TO	EX	REC	In	CABLE SIZE/TYPE	CABLE LENGTH (m)	REMARKS
NICHOLAS STREET	7 7L				4mm ² Cu 2C PVC/PVC	10	
	9 9L				4mm ² Cu 2C PVC/PVC	6	
	11 11L				4mm ² Cu 2C PVC/PVC	6	
	13 13L				4mm ² Cu 2C PVC/PVC	6	
TOTALS					4mm ² Cu 2C PVC/PVC	48	

RATE 3 - STREETLIGHT SCHEDULE

LOCATION	STN No.	POLE OR COMPONENTS										LANTERN										OUTREACH BRACKET					REMARKS
		SITE ID (POLE No.)	COMP ID	EX (m)	REC (m)	ER (m)	POLE CODE	ALIGN (mm)	NORTH	EAST	COMP ID	EX (m)	RECOVER LUMIN	CUST	DATE DE-ENERG	ERECT LUMIN	CUST	DATE ENERG	LUMINAIRE CODE	EX (m)	REC (m)	ER (m)	CU ID	UPCAST ANGLE	MOUNT HT (m)		
																										SLNOS3CI	
JOHN DRIVE	5L	3W 12535076	P01			4.5m BPM	SLNOS3CI	800 IOK			SL1				L14L3	IPSW	SLEDSY01375						0°	5.1	BLACK NOSTALGIA		
NICHOLAS STREET	7L	3W 12535077	P01			4.5m BPM	SLNOS3CI	950 IOK			SL1				L14L3	IPSW	SLEDSY01375						0°	5.1	BLACK NOSTALGIA		
	9L	3W 12535078	P01			4.5m BPM	SLNOS3CI	950 IOK			SL1				L14L3	IPSW	SLEDSY01375						0°	5.1	BLACK NOSTALGIA		
	11L	3W 12535079	P01			4.5m BPM	SLNOS3CI	950 IOK			SL1				L14L3	IPSW	SLEDSY01375						0°	5.1	BLACK NOSTALGIA		
	13L	3W 12535080	P01			4.5m BPM	SLNOS3CI	950 IOK			SL1				L14L3	IPSW	SLEDSY01375						0°	5.1	BLACK NOSTALGIA		



RATE 3 SINGLE LIGHT SWITCHBOARD FROM PILLAR DIRECT - TYPICAL DETAIL

AS CONSTRUCTED
Garry Edwards Date: 04/08/23
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

PLOT: 03/20/2023-12:51:PM FILE: P:\2021\15_7001 COLLINGWOOD DR COLLINGWOOD PARK - WOODLINKS - STAGE 11\03 WORKING\A2211.DWG

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Email : projects@ampflo.com.au
Website : ampflo.com.au

ISO 9001 CERTIFIED QUALITY MANAGEMENT

CERTIFICATION: APPROVED: Brad Kunde RPEQ No: 16286 DATE: 1/03/2023	PROJECT 28 LOT RESIDENTIAL SUBDIVISION WOODLINKS VILLAGE STAGE 11 STREETLIGHTING RETICULATION PLAN, RATE 3 SCHEDULES, MATERIAL SUMMARY,
CHECKED: B.KUNDE	DRAWING: R222116
DESIGNER: A.BUI	PROJECT: 222116
ISSUE DATE: 01.03.23	SHEET 2 OF 2