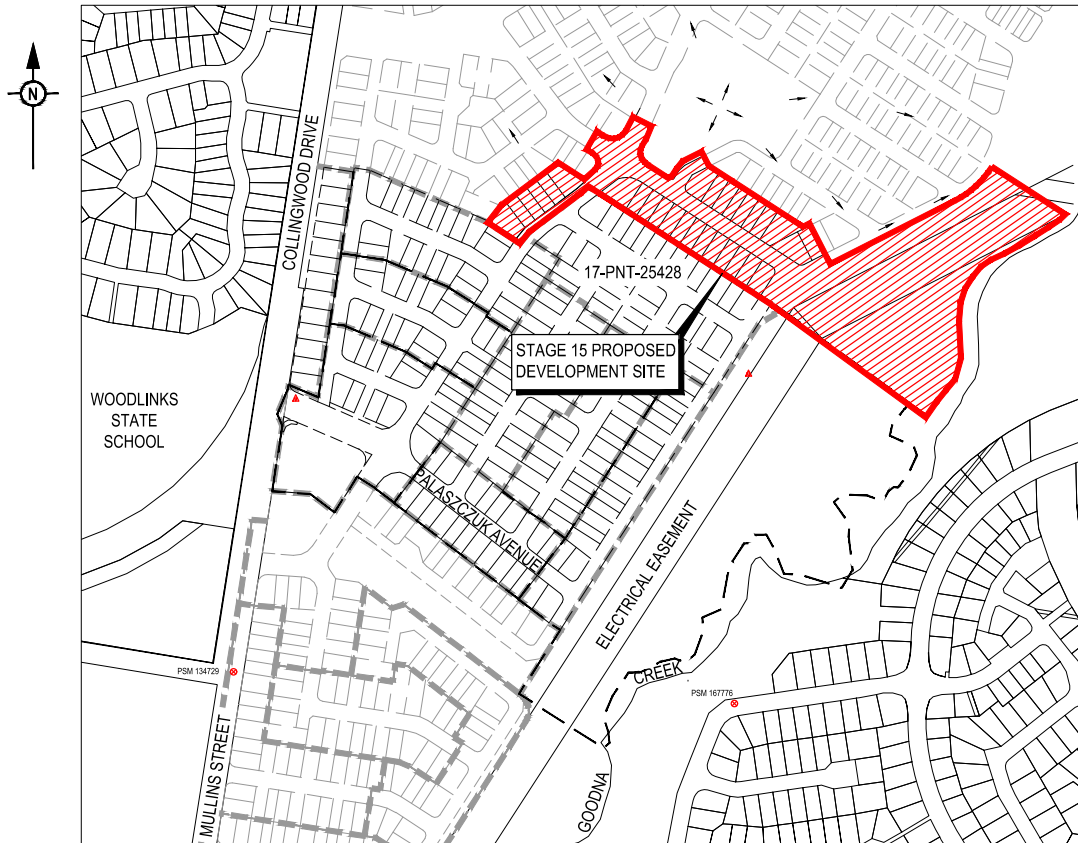


WOODLINKS VILLAGE

PROPOSED RESIDENTIAL SUBDIVISION

STAGE 15 - WATER AND SEWERAGE PLANS



LOCALITY PLAN
SCALE 1:2500

DRAWING INDEX

DRG No.	REV.	DESCRIPTION
18-0199-030	C D	SEWERAGE - LOCALITY PLAN AND NOTES
18-0199-031	C E	SEWERAGE - LIVE SEWER WORKS TABLE
18-0199-032	C E	SEWERAGE LAYOUT PLAN - SHEET 1 OF 3
18-0199-033	C F	SEWERAGE LAYOUT PLAN - SHEET 2 OF 3
18-0199-034	C E	SEWERAGE LAYOUT PLAN - SHEET 2 OF 3
18-0199-035	C F	SEWERAGE - LONGITUDINAL SECTIONS
18-0199-040	C D	WATER RETICULATION - LOCALITY PLAN AND NOTES
18-0199-041	C D	WATER RETICULATION - SHEET 1 OF 3
18-0199-042	C D	WATER RETICULATION - SHEET 2 OF 3
18-0199-043	C E	WATER RETICULATION - SHEET 2 OF 3

THIS DESIGN PACKAGE SHOWS PROPERTY CONNECTIONS FOR OTHER/FUTURE STAGES THAT ARE NOT PART OF THIS APPROVAL. OBTAIN SEPARATE APPROVAL FROM QUU FOR OTHER/FUTURE PROPERTY CONNECTIONS.

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

ENGINEER'S CERTIFICATION

- I, Andrew Ngo, hereby certify that:
- The information contained in this drawing / document is in compliance with approved drawings and design.
 - The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
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EQ No. 12329 Date: 21/11/2019

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.19	MKP	MKP	FIRST ISSUE
B	09.02.19	MKP	MKP	CLIENT RESPONSE
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION
D	14.11.19	SN	SC	AS CONSTRUCTED

DRAWN	STATUS
	AS CONSTRUCTED

DESIGN APPROVED
ANDREW NGO RPEQ 12329

FOR AND ON BEHALF OF PEAKURBAN PTY LTD.

PEAKURBAN
DEVELOPMENT ENGINEERS - ADVISORS

SCALE
1:2500 0 50 100 A1
1:5000 A3

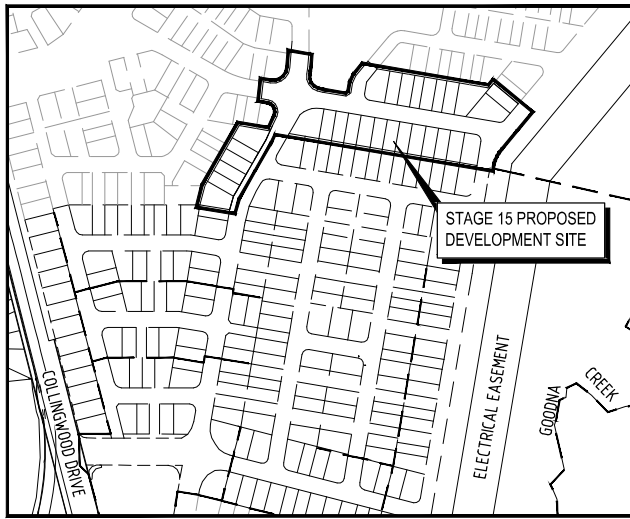
CLIENT
VILLAGE BUILDING CORPORATION

ASSOCIATED CONSULTANT

PROJECT NAME
WOODLINKS VILLAGE STAGE 15

DRAWING TITLE
COVER SHEET

PROJECT No.	DRAWING No.	REVISION
18-0199	029	D



LOCALITY PLAN
SCALE 1:2000 (A1)
SCALE 1:4000 (A3)

LIVE WORKS NOTES:

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

NAME OF ESTATE		WOODLINKS VILLAGE STAGE 15
SUBDIVIDER		VILLAGE BUILDING CORPORATION
SP APPLICATION No.		18-PNT-36198
SP DELEGATE APPROVAL DATE		QUJ 07.03.2019
DRAWING/PLAN No.		
No. OF ALLOTMENTS		29
AREA		1.97ha
LENGTH OF SEWERS	DN110	74m
	DN160	415m- 428m

GENERAL NOTES:

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
- 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.
- ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
- THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
- THE 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.
- THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
- HOLD POINT:** ONCE THE BASE OF MANHOLES, 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.
- 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.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:80 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.

SEWERAGE RETICULATION NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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 SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE UNDERTAKEN BY THE DEVELOPER'S CONTRACTOR WITH A VALID NETWORK ACCESS PERMIT (NAP).
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- 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.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
- 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 THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE DRG SEQ-SEW-1206-1 AND 1207-1.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE SEQ SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE AND QUJ STANDARDS.
- CONSTRUCT EMBEDMENT AND TRENCH FILL TO SEQ-SEW-1200-2, 1201-1 (TYPE 3) AND COUNCIL STANDARDS FOR ROAD CROSSINGS.
- CONSTRUCT MHS TO SEQ-SEW-1301-1 TO 1301-3 (TYPE G), 1301-4 AND 1301-5 (TYPE F), 1301-6 TO 1301-11 (TYPE X), 1304-1, 1305-1, 1307-4 (STUB CUT IN), 1313-1 (CONNECTION) AND 1502-1 (INSERTION TO MH).
- CONSTRUCT MS'S TO SEQ-SEW-1315-1, 1316-1 AND 1502-1 (INSERTION)
- INSTALL MHMS TYPE B COVERS TO SEQ-SEW-1308-2 TO 1308-7
- INSTALL MHMS TYPE D COVERS TO SEQ-SEW-1308-8 TO 1308-11
- INSTALL DETECTABLE MARKER TAPE ON ALL SEWER MAINS AND PROPERTY CONNECTIONS.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- 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.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

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

REHABILITATION

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

SEWER EASEMENTS IN FAVOUR OF QUJ SHALL BE PROVIDED FOR ACCESS TO ALL MAINTENANCE STRUCTURES WITHIN PRIVATE PROPERTY.

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

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

ENGINEER'S CERTIFICATION

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Andrew Ngo

EQ No. 12329 Date: 21/11/2019

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	
A	05.10.18	MKP	MKP	FIRST ISSUE		AS CONSTRUCTED	1:1000 1:2000	VILLAGE BUILDING CORPORATION	WOODLINKS VILLAGE STAGE 15	SEWERAGE LOCALITY PLAN AND NOTES	
B	08.09.19	MKP	MKP	SOIL RESPONSE			1:2500 1:5000				
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION							
D	14.11.19	SN	SC	AS CONSTRUCTED							
					DESIGN	APPROVED					
						ANDREW NGO	RPEQ 12329				
					FOR AND ON BEHALF OF PEAKURBAN PTY LTD.		ENCLURE@PEAKURBAN.COM.AU		ASSOCIATED CONSULTANT		PROJECT No. 18-0199
											DRAWING No. 030
											REVISION D




















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IO No. 12329 Date: 21/11/2019

LEGEND

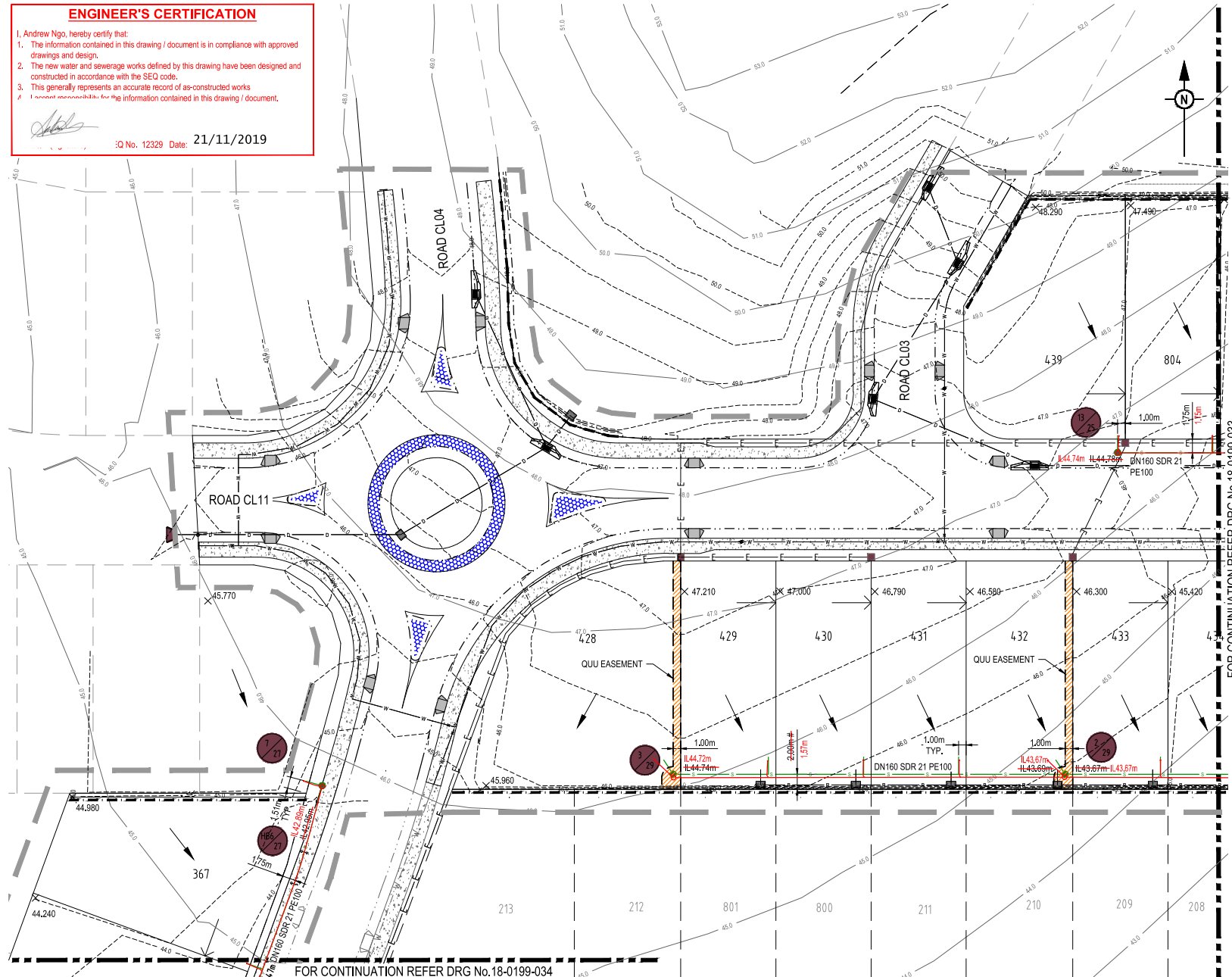
-  AREA OF WORKS
-  PROPOSED SEWERAGE MAIN
-  EXISTING SEWERAGE MAIN
-  SEWER LOT CONTROL SURFACE LEVEL
-  PROPOSED CONTOUR (0.25m INTERVAL)
-  EXISTING CONTOUR (1.0m INTERVAL)
-  PROPOSED STORMWATER DRAINAGE PIPE
-  EXISTING STORMWATER DRAINAGE PIPE
-  PROPOSED ROOFWATER DRAINAGE PIPE
-  EXISTING ROOFWATER DRAINAGE PIPE
-  PROPOSED WATER MAIN
-  EXISTING WATER MAIN
-  PROPOSED SLEEPER RETAINING WALL
-  EXISTING SLEEPER RETAINING WALL
-  EXISTING ELECTRICAL CABLE U/G
-  EXISTING ELECTRICAL CABLE O/H
-  EXISTING TELECOMMUNICATION CABLE U/G
-  EXISTING FIBRE OPTIC CABLE U/G
-  EXISTING GAS MAIN

WARNING! - EXISTING SERVICES

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

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION.



FOR CONTINUATION REFER DRG No. 18-0199-033

FOR CONTINUATION REFER DRG No. 18-0199-034

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	05.10.18	MKP	MKP	FIRST ISSUE		AS CONSTRUCTED	1:250 1:500	VILLAGE BUILDING CORPORATION	WOODLINKS VILLAGE STAGE 15	SEWERAGE LAYOUT PLAN SHEET 1 OF 3
B	09.09.19	MKP	MKP	CLIENT RESPONSE						
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION						
D	26.03.19	MKP	MKP	VARIOUS CHANGES						
E	14.11.19	SN	SC	AS CONSTRUCTED						

DESIGN	APPROVED	ANDREW NGO	RPEQ 12329	FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENCLINRES@PEAKURBAN.COM.AU
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PROVIDE APPROVED TESTING TO QIU COMPLIANCE DELEGATE PER WATER APPROVAL CONDITIONS (PRIOR TO LIVE WORKS)

LIVE SEWER WORKS TABLE											
NO.		DESCRIPTION	DIA SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	IL	DEPTH
1	1 (A)	0.5m FROM PROPOSED END OF NEW STUB OUT OF EXISTING MS 5/27 CONTRACTOR TO LAY NEW LINE 28. AFTER CLEANSING, TESTING AND INSPECTING NOTIFY QIU.	DN160 PE100	5/27	MS	C.I.	FOOTPATH	43.557 43.580	43.557 43.580	41.472 41.460	2.085 2.120
	1(B)	FOLLOWING SUCCESSFUL "ON-MAINTENANCE" INSPECTION THE CONTRACTOR UNDER QIU SUPERVISION EXPOSE EXISTING STUB OUT OF MS 5/27, AND FOLLOWING REMOVAL OF LINE 28 END CAP, CONNECT STUB CONNECTION TO DOWNSTREAM END OF LINE 28 MAKING LIVE.									
2	2 (A)	0.5m FROM PROPOSED END OF NEW STUB OUT OF EXISTING MH 5/27 CONTRACTOR TO LAY NEW LINE 27. AFTER CLEANSING, TESTING AND INSPECTING NOTIFY QIU.	DN160 PE100	5/27	MS	C.I.	FOOTPATH	43.557 43.580	43.557 43.580	41.472 41.460	2.085 2.120
	2 (B)	FOLLOWING SUCCESSFUL "ON-MAINTENANCE" INSPECTION THE CONTRACTOR UNDER QIU SUPERVISION EXPOSE EXISTING STUB OUT OF MS 5/27, AND FOLLOWING REMOVAL OF LINE 27 END CAP, CONNECT STUB CONNECTION TO DOWNSTREAM END OF LINE 27 MAKING LIVE.									
3	3 (A)	0.5m FROM PROPOSED END OF NEW STUB OUT OF EXISTING MH 9/25 CONTRACTOR TO LAY NEW LINE 29. AFTER CLEANSING, TESTING AND INSPECTING NOTIFY QIU.	DN160 PE100	9/25	G	C.I.	ROAD RESERVE	36.238 36.210	36.238 36.210	34.142 34.130	2.096 2.080
	3 (B)	FOLLOWING SUCCESSFUL "ON-MAINTENANCE" INSPECTION THE CONTRACTOR UNDER QIU SUPERVISION TO BREAK INTO EXISTING MH 9/25, AND FOLLOWING REMOVAL OF LINE 29 END CAP, CONSTRUCT 160mm STUB CONNECTION TO DOWNSTREAM END OF LINE 29 MAKING LIVE.									
4	4 (A)	0.5m FROM PROPOSED END OF NEW STUB OUT OF EXISTING MH 9/25 CONTRACTOR TO LAY NEW LINE 25. AFTER CLEANSING, TESTING AND INSPECTING NOTIFY QIU.	DN160 PE100	9/25	G	C.I.	ROAD RESERVE	36.238 36.210	36.238 36.21	34.142 34.130	2.096 2.050
	4 (B)	FOLLOWING SUCCESSFUL "ON-MAINTENANCE" INSPECTION THE CONTRACTOR UNDER QIU SUPERVISION TO BREAK INTO EXISTING MH 9/25, AND FOLLOWING REMOVAL OF LINE 25 END CAP, CONSTRUCT 160mm STUB CONNECTION TO DOWNSTREAM END OF LINE 25 MAKING LIVE.									

ENGINEER'S CERTIFICATION

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'EQ No. 12329 Date: 21/11/2019

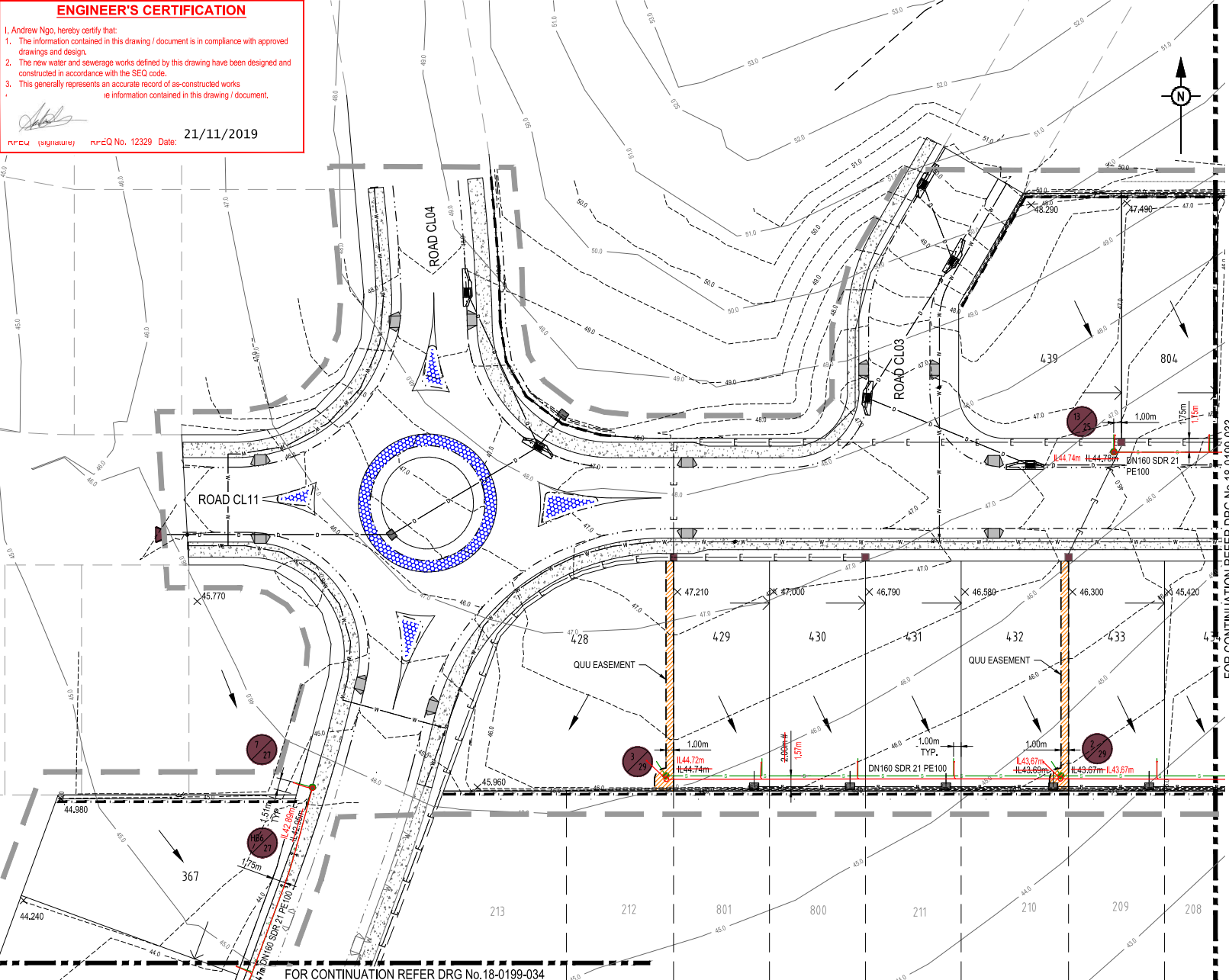
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	
A	05.10.19	MKP	MKP	FIRST ISSUE		AS CONSTRUCTED		VILLAGE BUILDING CORPORATION	WOODLINKS VILLAGE STAGE 15	SEWERAGE LIVE SEWER WORKS TABLE	
B	09.02.19	MKP	MKP	CLIENT RESPONSE							
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION							
D	18.03.19	MKP	MKP	NOTE ADDED							
E	14.11.19	SN	SC	AS CONSTRUCTED							
					DESIGN	APPROVED		ASSOCIATED CONSULTANT			
						ANDREW NGO	RPEQ 12329				
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD.					
							ENQUIRE@PEAKURBAN.COM.AU				
									PROJECT No.	DRAWING No.	REVISION
									18-0199	031	E

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Andrew Ngo
 RPEQ (signature) RPEQ No. 12329 Date: 21/11/2019



LEGEND

	AREA OF WORKS
	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	SEWER LOT CONTROL SURFACE LEVEL
	PROPOSED CONTOUR (0.25m INTERVAL)
	EXISTING CONTOUR (1.0m INTERVAL)
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	EXISTING ROOFWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED SLEEPER RETAINING WALL
	EXISTING SLEEPER RETAINING WALL
	EXISTING ELECTRICAL CABLE U/G
	EXISTING ELECTRICAL CABLE O/H
	EXISTING TELECOMMUNICATION CABLE U/G
	EXISTING FIBRE OPTIC CABLE U/G
	EXISTING GAS MAIN

WARNING! - EXISTING SERVICES

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

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FOR CONTINUATION REFER DRG No. 18-0199-033

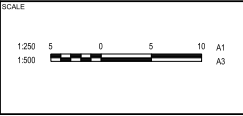
FOR CONTINUATION REFER DRG No. 18-0199-034

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.18	MKP	MKP	FIRST ISSUE
B	09.09.19	MKP	MKP	CLIENT RESPONSE
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D	26.03.19	MKP	MKP	VARIOUS CHANGES
E	14.11.19	SN	SC	AS CONSTRUCTED

AS CONSTRUCTED

DESIGN: ANDREW NGO RPEQ 12329

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT: VILLAGE BUILDING CORPORATION

ASSOCIATED CONSULTANT

PROJECT NAME: WOODLINKS VILLAGE STAGE 15

DRAWING TITLE		
SEWERAGE LAYOUT PLAN SHEET 1 OF 3		
PROJECT No.	DRAWING No.	REVISION
18-0199	032	E

ENGINEER'S CERTIFICATION

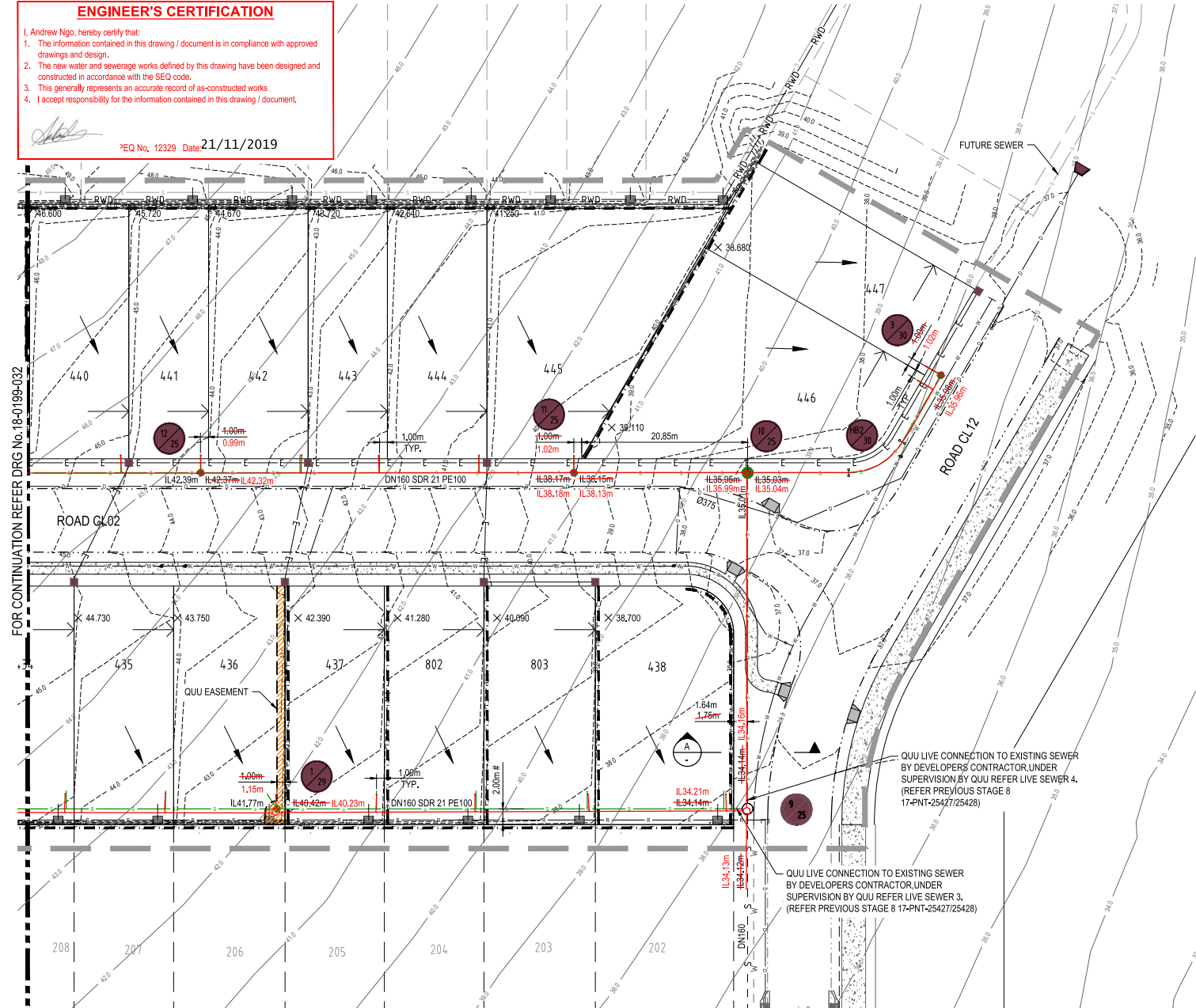
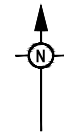
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RPEQ No. 12329 Date: 21/11/2019

LEGEND

- AREA OF WORKS
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- SEWER LOT CONTROL SURFACE LEVEL
- PROPOSED CONTOUR (0.25m INTERVAL)
- EXISTING CONTOUR (1.0m INTERVAL)
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING TELECOMMUNICATION CABLE U/G
- EXISTING FIBRE OPTIC CABLE U/G
- EXISTING GAS MAIN

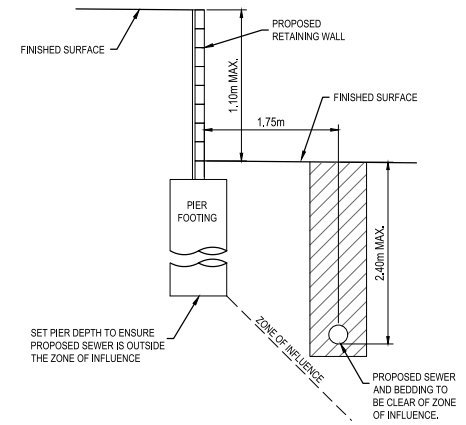


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- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

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

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.19	MKP	MKP	FIRST ISSUE
B	09.02.19	MKP	MKP	OWNER RESPONSE
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION
D	26.02.19	MKP	MKP	VARIOUS CHANGES
E	27.03.19	MKP	MKP	RETAINING WALL LOCATIONS AMENDED
F	14.11.19	SN	SC	AS CONSTRUCTED


DRAWN	STATUS
AS CONSTRUCTED	

PEAKURBAN
DEVELOPMENT ENGINEERS - ADVISORS

DESIGN APPROVED: ANDREW NGO RPEQ 12329

FOR AND ON BEHALF OF PEAKURBAN PTY LTD. ENQUIRIES@PEAKURBAN.COM.AU

SCALE: 1:250 (A1), 1:500 (A3)



CLIENT: **VILLAGE BUILDING CORPORATION**

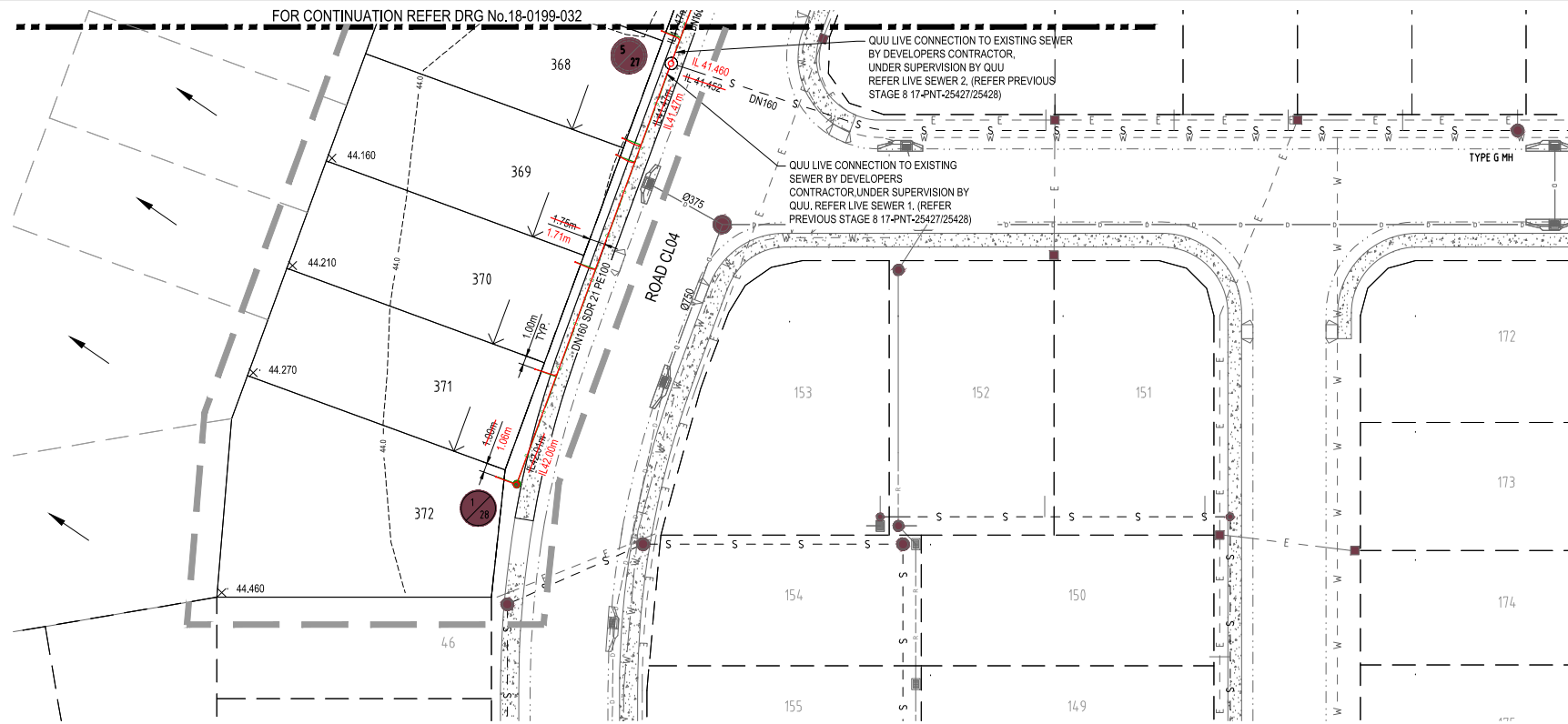
ASSOCIATED CONSULTANT:

PROJECT NAME: **WOODLINKS VILLAGE STAGE 15**

DRAWING TITLE: **SEWERAGE LAYOUT PLAN SHEET 2 OF 3**

PROJECT No. 18-0199	DRAWING No. 033	REVISION F
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FOR CONTINUATION REFER DRG No.18-0199-032



ENGINEER'S CERTIFICATION

I, Andrew Ngo, hereby certify that:

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

Andrew Ngo
 EQ No. 12329 Date: 21/11/2019

LEGEND

- AREA OF WORKS
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- SEWER LOT CONTROL SURFACE LEVEL +24.60
- PROPOSED CONTOUR (0.25m INTERVAL) +24.6
- EXISTING CONTOUR (1.0m INTERVAL)
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING TELECOMMUNICATION CABLE U/G
- EXISTING FIBRE OPTIC CABLE U/G
- 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

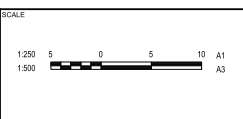
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.19	MKP	MKP	FIRST ISSUE
B	09.02.19	MKP	MKP	CLIENT RESPONSE
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION
D	20.02.19	MKP	MKP	VARIOUS CHANGES
E	11.03.19	SN	SC	AS CONSTRUCTED

AS CONSTRUCTED

DESIGN APPROVED
 ANDREW NGO RPEQ 12329

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT
VILLAGE BUILDING CORPORATION

ASSOCIATED CONSULTANT

PROJECT NAME
WOODLINKS VILLAGE STAGE 15

DRAWING TITLE		
SEWERAGE LAYOUT PLAN SHEET 3 OF 3		
PROJECT No.	DRAWING No.	REVISION
18-0199	034	E

ACCESS CHAMBER NUMBER	5/27	HB6/27	7/27
A.C. TYPE/INLET DROP	MS	-	MS
LID TYPE	B	-	B
JUNCT. LINE No./SIZE	-	-	-
JUNCT. INLET DROP TYPE	MS-A	-	-

STRUCTURE TYPES
 G = CONCRETE 0.9000
 F = CONCRETE 1.2000
 X = CONCRETE 1.2000
 MS = PE 0.6000
MS DROP TYPES:
 MS-A = 20mm DROP THROUGH BULB
 MS-B = >75mm DROP INTO RISER
LID TYPES
 B = NON-TRAFFICABLE
 D = TRAFFICABLE
 DBD = TRAFFICABLE WITH BOLT DOWN

EMBEDMENT NOTE:
 EMBEDMENT TYPE IS PRELIMINARY ONLY AND IS TO BE CONFIRMED AFTER GEOTECHNICAL INVESTIGATION AND ADJUSTED IF NECESSARY IN ACCORDANCE WITH SEQ STD DRGS SEQ-SEW-12011-TO 1205-1

*** 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 DETAIL ON 17-0127-300

ENGINEER'S CERTIFICATION

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Andrew Ngo
 PEQ No. 12329 Date: 21/11/2019

DATUM R.L.	30.000
PROP. DESCRIPTION	FP
PIPE DIAMETER/TYPE	DN160 PE SDR 21
PIPE GRADE	1 in 19.65 1 in 20 1 in 20
EMBEDMENT TYPE	TYPE 3
DEPTH TO INVERT	2.100 2.065 2.100 1.747 1.707
JUNCTION INVERT LEVEL	1.870 1.650 1.770 1.662
INVERT LEVEL	41.480 41.462 41.480 42.517 42.527
FINISHED SURFACE LEVEL	43.580 43.984 43.690 44.600 44.611
CHAINAGE/LENGTH	0.000 44.910 11.810 27.203 28.353

LINE	27	28	25	29	30
PROP. DESCRIPTION	FP	FP	FP	PP	FP
PIPE DIAMETER/TYPE	DN160 PE SDR 21	DN160 PE SDR 21	DN160 PE SDR 21	DN160 PE SDR 21	DN160 PE SDR 21
PIPE GRADE	1 in 19.65 1 in 20 1 in 20	1 in 93.19 1 in 90.74	1 in 49.22 1 in 48.79	1 in 9.74 1 in 9.42	1 in 32.69 1 in 32 1 in 32
EMBEDMENT TYPE	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3
DEPTH TO INVERT	2.100 2.065 2.100	2.000 2.050 2.100	2.470 2.469 2.469	2.100 2.066 2.000	1.400 1.365 1.300
JUNCTION INVERT LEVEL	1.870 1.650 1.770 1.662	1.870 1.650 1.770 1.662	35.033 35.033 35.033	2.100 2.066 2.000	1.400 1.365 1.300
INVERT LEVEL	41.480 41.462 41.480 42.517 42.527	41.480 41.462 41.480 42.517 42.527	34.160 34.160 34.160	34.210 34.210 34.210	35.960 35.960 35.960
FINISHED SURFACE LEVEL	43.580 43.984 43.690 44.600 44.611	43.580 43.984 43.690 44.600 44.611	37.480 38.540 38.540 38.540 38.540	43.740 43.740 43.740 43.740 43.740	37.420 37.420 37.420 37.420 37.420
CHAINAGE/LENGTH	0.000 44.910 11.810 27.203 28.353	0.000 49.000 48.460 48.000	0.000 42.500 41.840 42.500 21.270 64.346 46.900 46.407	0.000 59.136 58.611 58.136 54.500 50.663 110.636 162.136	0.000 42.699 30.040 37.426 35.430 35.683 35.683 31.330 31.060 31.060 30.516

AS CONSTRUCTED

DESIGN: ANDREW NGO
 APPROVED: ANDREW NGO
 RPEQ 12329

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

ENCLURE@PEAKURBAN.COM.AU

SCALE: 1:1000 HORIZONTAL, 1:200 VERTICAL

LINE	29	30
PROP. DESCRIPTION	PP	FP
PIPE DIAMETER/TYPE	DN160 PE SDR 21	DN160 PE SDR 21
PIPE GRADE	1 in 26.66 1 in 27.06 1 in 48.40 1 in 48.33	1 in 32.69 1 in 32 1 in 32
EMBEDMENT TYPE	TYPE 3	TYPE 3
DEPTH TO INVERT	1.720 1.702 1.720 1.662	1.400 1.365 1.300
JUNCTION INVERT LEVEL	1.720 1.702 1.720 1.662	1.400 1.365 1.300
INVERT LEVEL	43.670 43.670 43.670 43.670	35.683 35.683 35.683 35.683
FINISHED SURFACE LEVEL	45.390 45.390 45.390 45.390	37.420 37.420 37.420 37.420
CHAINAGE/LENGTH	110.636 54.500 50.663 162.136	0.000 42.699 30.040 37.426 35.430 35.683 35.683 31.330 31.060 31.060 30.516

VILLAGE BUILDING CORPORATION

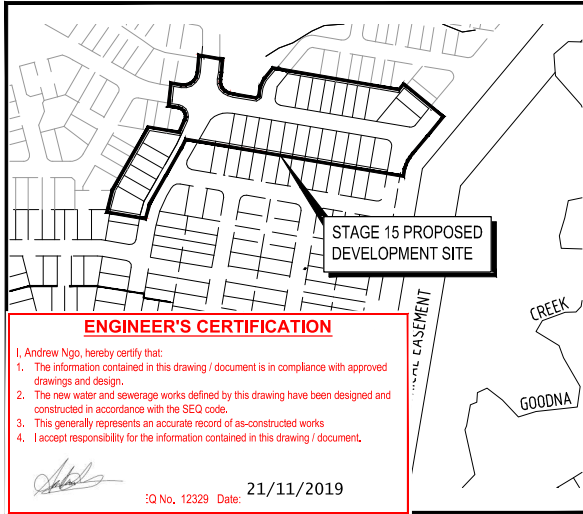
PROJECT NAME: WOODLINKS VILLAGE STAGE 15

ASSOCIATED CONSULTANT

SCALE: 1:1000 HORIZONTAL, 1:200 VERTICAL

SEWERAGE LONGITUDINAL SECTIONS

PROJECT No. 18-0199
 DRAWING No. 035
 REVISION F



ENGINEER'S CERTIFICATION

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- The information contained in this drawing / document is in compliance with approved drawings and design.
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- This generally represents an accurate record of as-constructed works
- I accept responsibility for the information contained in this drawing / document.

Andrew Ngo (Signature)
 :Q No., 12329 Date: 21/11/2019

LOCALITY PLAN
 SCALE 1:2000 (A1)
 SCALE 1:4000 (A3)



GENERAL NOTES:

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
- 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 THEREO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
- ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
- THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
- THE 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.
- THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
- HOLD POINT:** ONCE THE BASE OF MANHOLES, 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.
- 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.

LIVE CONNECTIONS

CONNECTION 1	
STREET	ROAD CL.04
LOCATION	246 COLLINGWOOD DRIVE, 4301, QLD
LENGTH	0.50m TYPE OF MAIN DN125 PE
DATE COMMENCED	18-10-2019 DATE COMPLETED 18-10-2019
SIGNATURE _____	

LIVE CONNECTIONS

CONNECTION 2	
STREET	ROAD CL.12
LOCATION	246 COLLINGWOOD DRIVE, 4301, QLD
LENGTH	0.50m TYPE OF MAIN DN250 PE
DATE COMMENCED	18-10-2019 DATE COMPLETED 18-10-2019
SIGNATURE _____	

LIVE CONNECTIONS

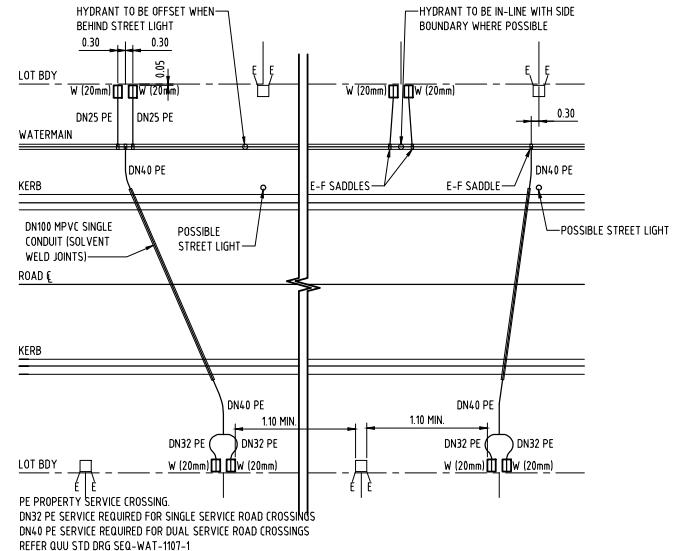
CONNECTION 3	
STREET	ROAD CL.04
LOCATION	246 COLLINGWOOD DRIVE, 4301, QLD
LENGTH TAPPING BAND	TYPE OF MAIN DN40 PE
DATE COMMENCED	18-10-2019 DATE COMPLETED 18-10-2019
SIGNATURE _____	

ASSET REGISTER - WATER RETICULATION						
ESTATE/STAGE	WOODLINKS VILLAGE STAGE 15					
SITE ADDRESS	246 COLLINGWOOD DRIVE COLLINGWOOD PARK					
SP FILE/APPLICATION	18-PNT-36198					
QUU DELEGATES APPROVAL DATE	QUU 07.03.2019					
CLIENT	VILLAGE BUILDING CORPORATION					
DRAWING/PLAN No.						
MAINS	DIAMETER	MATERIAL		LENGTH		
		DESIGN	CONST	DESIGN	CONST	
		DN125	PE100 PN16	PE100 PN16	7	8
DN180	PE100 PN16	PE100 PN16	445	452		
DN250	PE100 PN16					
SERVICES	DIAMETER	MATERIAL		LENGTH		
		DESIGN	CONST	DESIGN	CONST	
		DN25	PE100 PN16	PE100 PN16	32.5	35
		DN32	PE100 PN16	PE100 PN12	15.5	49
DN40	PE100 PN16	PE100 PN12	122	88		
METERS	DIAMETER	NUMBER				
		200	29	29		
		250	-			
		320	-			

SERVICE DETAILS		
NO	SIZE	LOT NUMBERS
13	DN25PE	△ 429-438, 447, 802-903
1	DN32PE	439
15	DN40PE	○ 367-372, 428, 440-446, 804

WATER RETICULATION NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE QUU IPAM 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 THE SEQ-SP.
- TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING No. SEQ-WAT-1410-1, AT THE END OF ALL NEW MAINS BEFORE THE SCOUR VALVE AND WHERE REQUIRED FOR COMMISSIONING PURPOSES.
- 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.
- THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE AND QUU STANDARDS.
- CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-WAT-1201-1 AND COUNCIL STANDARDS FOR ROAD CROSSINGS.
- CONSTRUCT PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
- CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 AND 1409-1.
- CONSTRUCT SCOURS TO SEQ-WAT-1307-2. SCOURS MUST NOT DISCHARGE TO KERB AND CHANNEL (UNLESS OTHERWISE ADVISED IN WRITING BY ICC).
- INSTALL PAVEMENT MARKERS TO SEQ-WAT-1300-1 AND 1300-2.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.



GENERAL WATER SERVICES DETAIL
 NOT TO SCALE

WATER MAINS MUST CROSS OVER SERVICES WITH 0.60m SURFACE COVER, MINIMUM CLEARANCES AS PER WSA/SEQ CODE TABLE 5.5

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

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

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	18.10.19	MKP	MKP	FIRST ISSUE
B	18.02.19	MKP	MKP	COLOR RESPONSE
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION
D	14.11.19	SN	SC	AS CONSTRUCTED

AS CONSTRUCTED

DESIGN: ANDREW NGO
 APPROVED: RPEQ 12329

FOR AND ON BEHALF OF PEAKURBAN PTY LTD.

PEAKURBAN
 DEVELOPMENT ENGINEERS - ADVISORS

ENCLINES@PEAKURBAN.COM.AU

SCALE

CLIENT: VILLAGE BUILDING CORPORATION

ASSOCIATED CONSULTANT

PROJECT NAME: WOODLINKS VILLAGE STAGE 15

DRAWING TITLE: WATER RETICULATION LOCALITY PLAN AND NOTES

PROJECT No. 18-0199
 DRAWING No. 040
 REVISION D

ENGINEER'S CERTIFICATION

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 3. This generally represents an accurate record of as-constructed works.
 4. This drawing is to be used as a record of the information contained in this drawing / document.






EQ No. 12329 Date: 21/11/2019










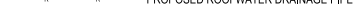





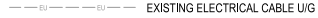



LIVE WORKS NOTES:

- ALL WORK ON EXISTING WATER TO BE CARRIED OUT BY THE CONTRACTOR (IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT) UNDER QUU SUPERVISION, AT THE DEVELOPERS EXPENSE.
- PRE-CHLORINATED FITTINGS SHALL BE USED FOR ALL DRINKING WATER LIVE WORKS CONNECTIONS.







ASCON WATER FITTINGS LEGEND

-  FIRE HYDRANT
-  ISOLATION VALVE
-  REDUCER

LEGEND

-  AREA OF WORKS
-  PROPOSED WATER MAIN
-  EXISTING WATER MAIN
-  PROPOSED WATER CONDUIT
-  EXISTING WATER CONDUIT
-  HIGH POINT / LOW POINT
-  PROPOSED STORMWATER DRAINAGE PIPE
-  EXISTING STORMWATER DRAINAGE PIPE
-  PROPOSED ROOFWATER DRAINAGE PIPE
-  EXISTING ROOFWATER DRAINAGE PIPE
-  PROPOSED SEWER MAIN
-  EXISTING SEWER MAIN
-  PROPOSED ELECTRICAL PILLAR
-  PROPOSED ELECTRICAL CABLE U/I
-  EXISTING ELECTRICAL CABLE U/I
-  EXISTING ELECTRICAL CABLE O/H
-  EXISTING TELECOMMUNICATION CABLE U/I
-  EXISTING FIBRE OPTIC CABLE U/I
-  EXISTING GAS MAIN

WATER FITTINGS LEGEND

-  FIRE HYDRANT
-  ISOLATION VALVE
-  DEAD END
-  REDUCER
-  SCOUR VALVE AND ASSEMBLY
-  WATER SERVICE POINT

WARNING! - EXISTING SERVICES

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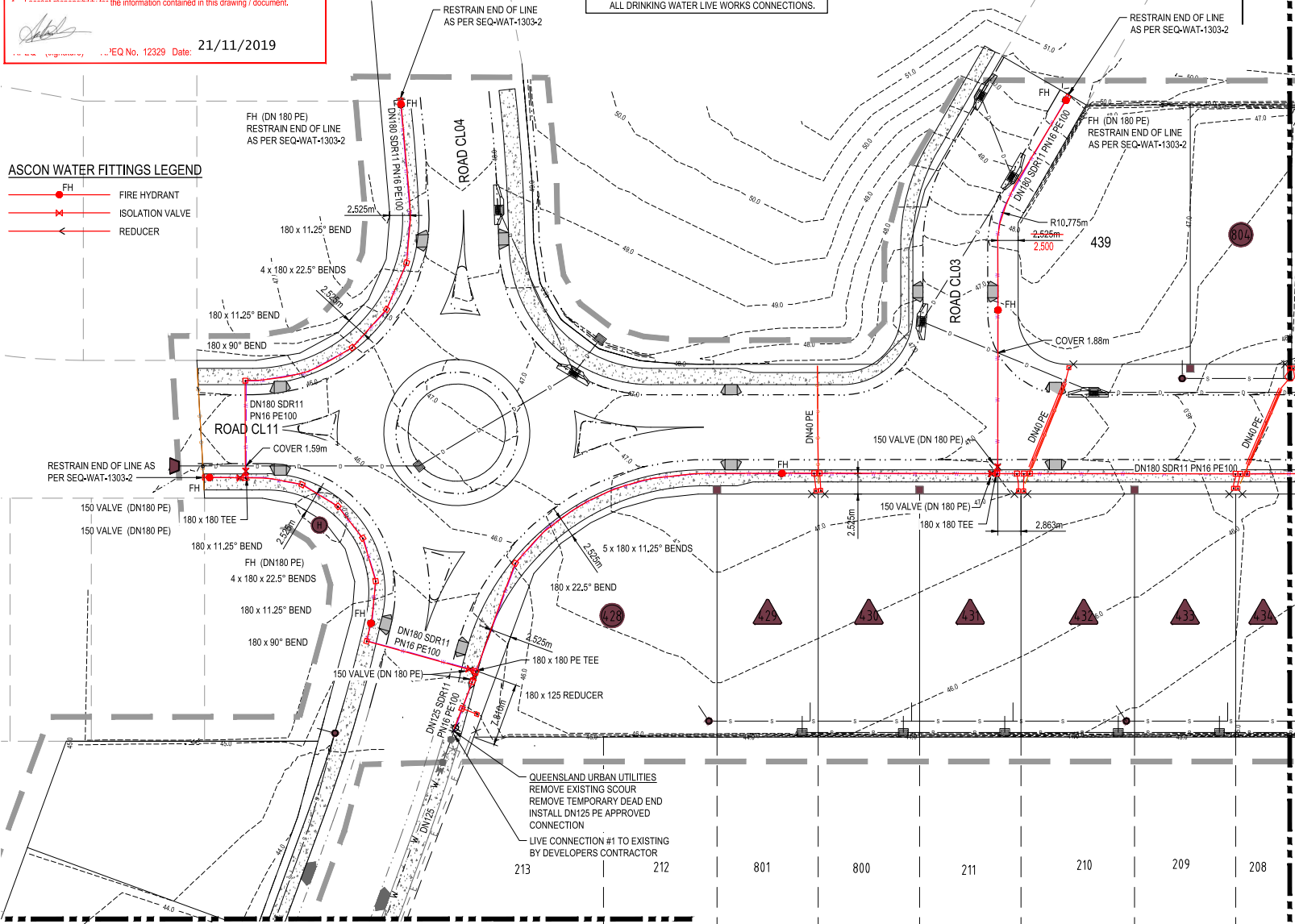
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION.

FITTINGS LIST

ITEM	NO. OF
DN180 PE APPROVED CONNECTION	1
FIRE HYDRANT (DN180 PE)	9
Ø150 VALVE (DN180 PE)	7
DN180 PE X 90° BEND	2
DN180 TEMP DEAD END	3
DN180 X DN180 PE TEE	2
DN180 SCOUR TEE	4
DN180 X DN125 REDUCER	1
DN180 RESTRAINING STRAPS	3

ALL THRUST BLOCKS TO BE IN ACCORDANCE WITH STD DRG SEQ-WAT-1205-1



FOR CONTINUATION REFER DRG No. 18-0199-042

FOR CONTINUATION REFER DRG No. 18-0199-043

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.18	MKP	MKP	FIRST ISSUE
B	09.02.19	MKP	MKP	COLOR RESPONSE
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D	14.11.19	SN	SC	AS CONSTRUCTED


AS CONSTRUCTED

DESIGN APPROVED: ANDREW NGO RPEQ 12329

PEAKURBAN
DEVELOPMENT ENGINEERS - ADVISORS

FOR AND ON BEHALF OF PEAKURBAN PTY LTD ENCLIBRES@PEAKURBAN.COM.AU

SCALE: 1:250 (0 5 10 A1), 1:500 (0 5 10 A3)



CLIENT: VILLAGE BUILDING CORPORATION

ASSOCIATED CONSULTANT

PROJECT NAME: WOODLINKS VILLAGE STAGE 15

DRAWING TITLE: WATER RETICULATION SHEET 1 OF 3

PROJECT No.	DRAWING No.	REVISION
18-0199	041	D

ENGINEER'S CERTIFICATION

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- The information contained in this drawing / document is in compliance with approved drawings and design.
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 - This generally represents an accurate record of as-constructed works
 - I accept responsibility for the information contained in this drawing / document.



I No. 12329 Date: 21/11/2019

LIVE WORKS NOTES:

- ALL WORK ON EXISTING WATER TO BE CARRIED OUT BY THE CONTRACTOR (IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT) UNDER QUU SUPERVISION, AT THE DEVELOPERS EXPENSE.
- PRE-CHLORINATED FITTINGS SHALL BE USED FOR ALL DRINKING WATER LIVE WORKS CONNECTIONS.

LEGEND

- AREA OF WORKS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- HIGH POINT / LOW POINT
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- PROPOSED SEWER MAIN
- EXISTING SEWER MAIN
- PROPOSED ELECTRICAL PILLAR
- PROPOSED ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING TELECOMMUNICATION CABLE U/G
- EXISTING FIBRE OPTIC CABLE U/G
- EXISTING GAS MAIN

WATER FITTINGS LEGEND

- FIRE HYDRANT
- ISOLATION VALVE
- DEAD END
- REDUCER
- SCOUR VALVE AND ASSEMBLY
- WATER SERVICE POINT

ASCION WATER FITTINGS LEGEND

- FIRE HYDRANT
- ISOLATION VALVE
- REDUCER

WARNING! - EXISTING SERVICES

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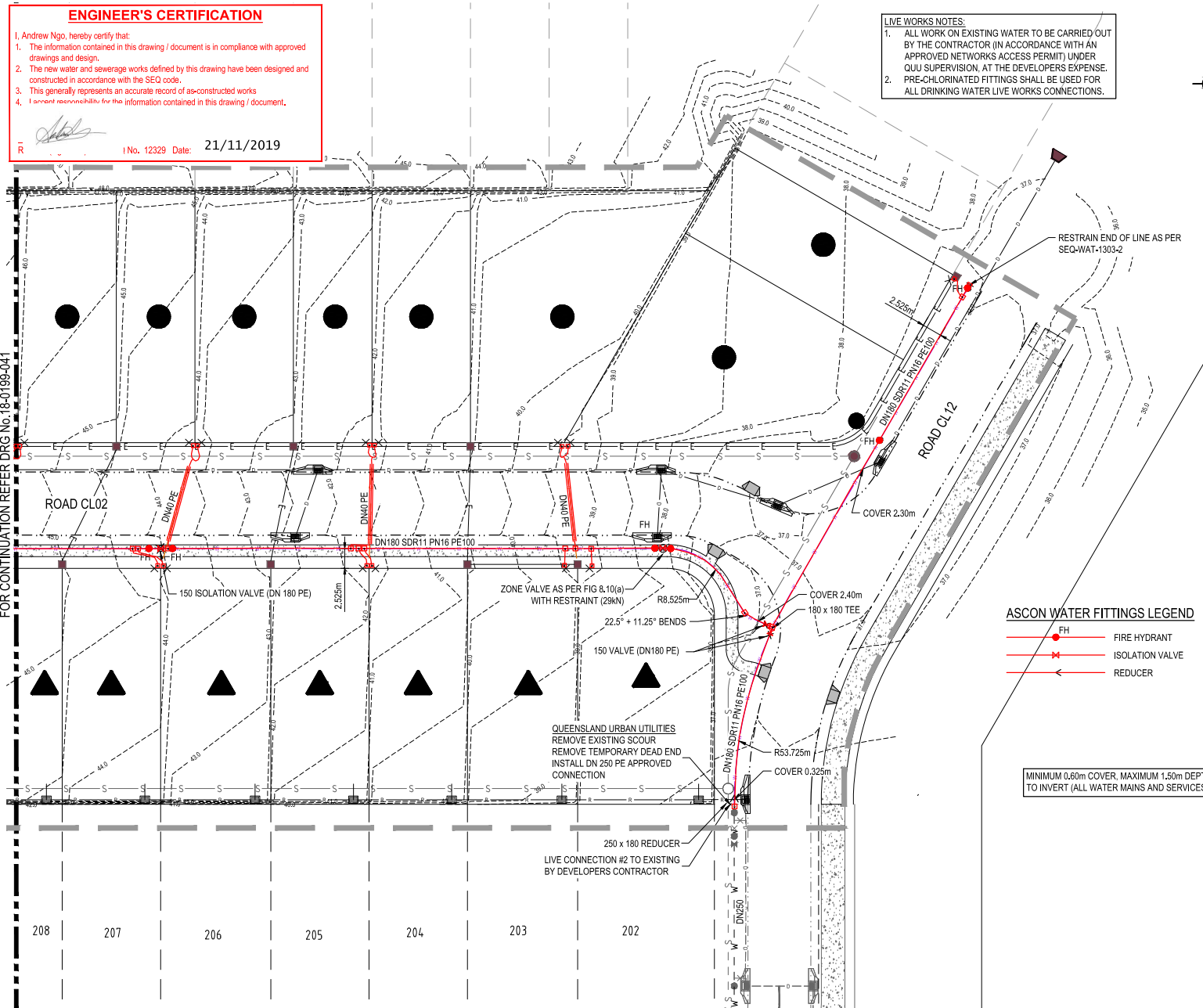
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION.

FITTINGS LIST	
ITEM	NO. OF
DN250 PE APPROVED CONNECTION	1
DN180 PE TEMPORARY END	1
FIRE HYDRANT (DN180 PE)	5
Ø150 VALVE (DN180 PE)	2
DN250 - DN180 REDUCER	1
DN180 X DN180 PE TEE	1
Ø150 ISOLATION VALVE DN180	1
DN180 RESTRAINING STRAPS	1

ALL THRUST BLOCKS TO BE IN ACCORDANCE WITH STD DRG SEQ-WAT-1205-1

FOR CONTINUATION REFER DRG No. 18-0199-041



MINIMUM 0.60m COVER, MAXIMUM 1.50m DEPTH TO INVERT (ALL WATER MAINS AND SERVICES)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.19	MKP	MKP	FIRST ISSUE
B	09.02.19	MKP	MKP	COLOR RESPONSE
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION
D	14.11.19	SN	SC	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	

PEAKURBAN
DEVELOPMENT ENGINEERS - ADVISORS

ENCLIBRES@PEAKURBAN.COM.AU

SCALE: 1:250 (0-10m), 1:500 (0-50m)

CLIENT: VILLAGE BUILDING CORPORATION

ASSOCIATED CONSULTANT

PROJECT NAME: WOODLINKS VILLAGE STAGE 15

DRAWING TITLE: WATER RETICULATION SHEET 2 OF 3

PROJECT No.	DRAWING No.	REVISION
18-0199	042	D

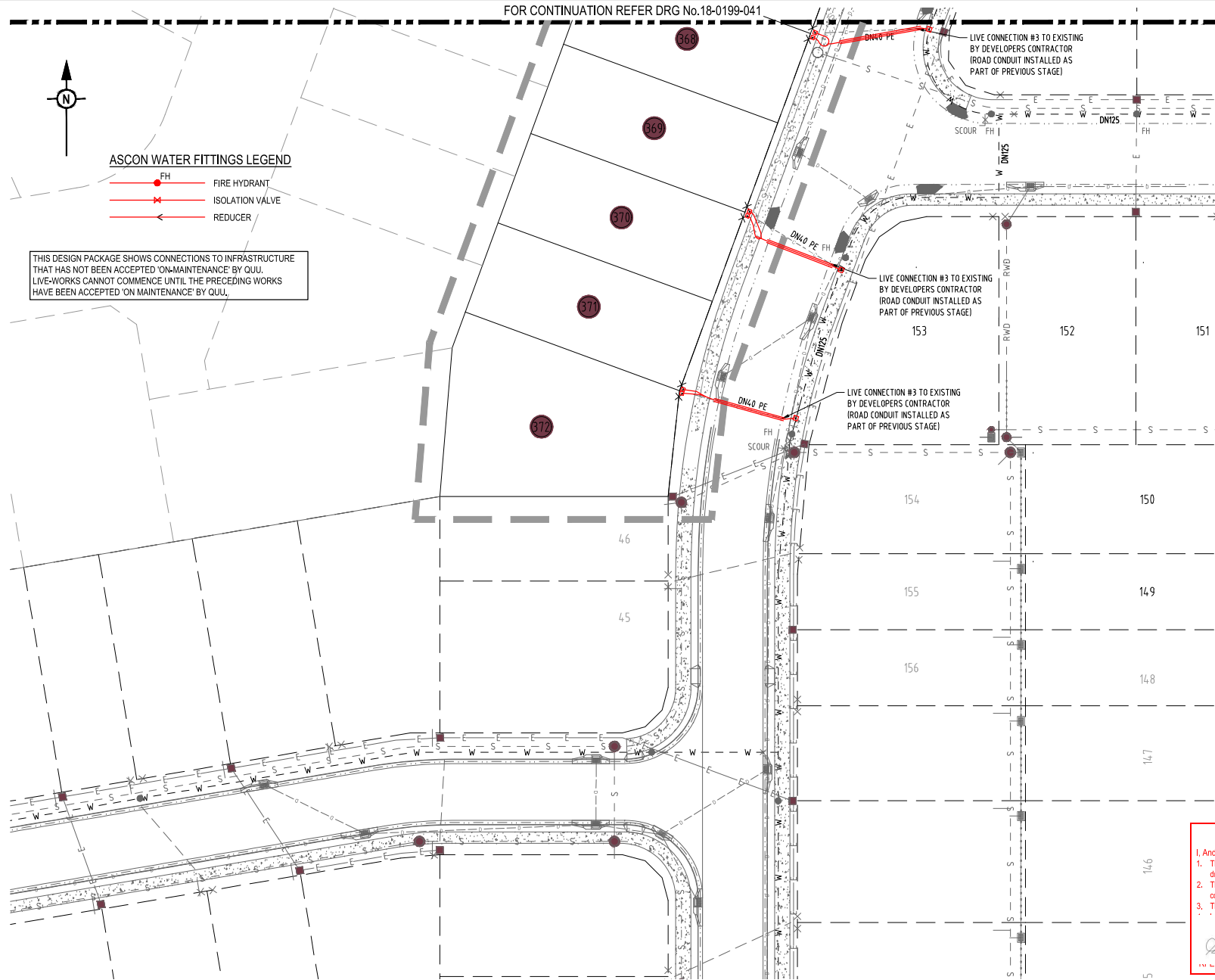
FOR CONTINUATION REFER DRG No.18-0199-041



ASCEN WATER FITTINGS LEGEND

- FIRE HYDRANT
- ISOLATION VALVE
- REDUCER

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



LEGEND

- AREA OF WORKS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- HIGH POINT / LOW POINT
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- PROPOSED SEWER MAIN
- EXISTING SEWER MAIN
- PROPOSED ELECTRICAL PILLAR
- PROPOSED ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING TELECOMMUNICATIONS CABLE U/G
- EXISTING FIBRE OPTIC CABLE U/G
- EXISTING GAS MAIN

WATER FITTINGS LEGEND

- FIRE HYDRANT
- ISOLATION VALVE
- DEAD END
- REDUCER
- SCOUR VALVE AND ASSEMBLY
- WATER SERVICE POINT

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.

LIVE WORKS NOTES:

1. ALL WORK ON EXISTING WATER TO BE CARRIED OUT BY THE CONTRACTOR (IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT) UNDER QUIL SUPERVISION. AT THE DEVELOPERS EXPENSE.
2. PRE-CHLORINATED FITTINGS SHALL BE USED FOR ALL DRINKING WATER LIVE WORKS CONNECTIONS.

ENGINEER'S CERTIFICATION

1. Andrew Ngo, 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 SEO code.
 3. This generally represents an accurate record of as-constructed works.

EQ No. 12329 Date: 21/11/2019

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	05.10.18	MKP	MKP	FIRST ISSUE
B	09.02.19	MKP	MKP	CLIENT RESPONSE
C	13.03.19	MKP	MKP	ISSUED FOR CONSTRUCTION
D	18.03.19	MKP	MKP	NOTE DELETED
E	14.11.19	SN	SC	AS CONSTRUCTED

<p>AS CONSTRUCTED</p> <p>DESIGN APPROVED ANDREW NGO</p> <p>RPEQ 12329</p>	<p>FOR AND ON BEHALF OF PEAKURBAN PTY LTD.</p>
--	--



<p>SCALE</p> <p>1:250 0 5 10 A1</p> <p>1:500 A3</p>

<p>CLIENT</p> <p>VILLAGE BUILDING CORPORATION</p> <p>ASSOCIATED CONSULTANT</p>

<p>PROJECT NAME</p> <p>WOODLINKS VILLAGE STAGE 15</p>
--

<p>DRAWING TITLE</p> <p>WATER RETICULATION SHEET 3 OF 3</p>
<p>PROJECT No.</p> <p>18-0199</p>
<p>DRAWING No.</p> <p>043</p>
<p>REVISION</p> <p>E</p>

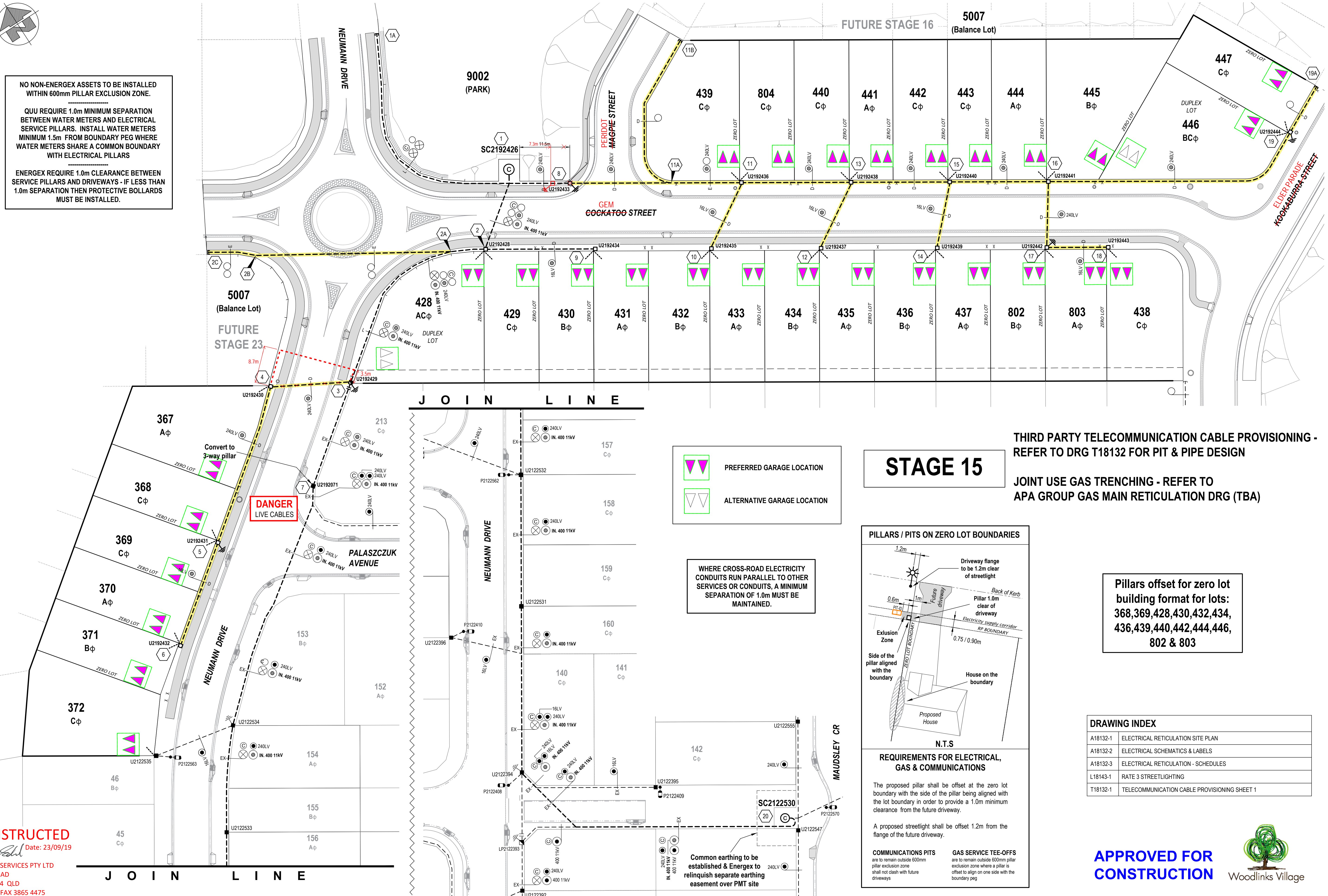
LEGEND

- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- E PROPOSED ELECTRICAL SERVICE CONDUIT
- E T PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- POLE TRANSFORMER
- PADMOUNT TRANSFORMER
- HV SWITCH
- HV POLE
- HV / LV POLE
- LV POLE
- HV UNDERGROUND POLE TERMINATION
- LV UNDERGROUND POLE TERMINATION
- AERIAL STAY
- GROUND STAY
- EARTH
- EXISTING PILLAR
- PROPOSED PILLAR
- COMMERCIAL PILLAR
- LINK PILLAR
- CONDUIT / CABLE CROSS-SECTION
- EXISTING CF32 NOSTALGIA STREET LIGHT
- GAS IN SHARED TRENCH

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

QUU REQUIRE 1.0m MINIMUM SEPARATION BETWEEN WATER METERS AND ELECTRICAL SERVICE PILLARS. INSTALL WATER METERS MINIMUM 1.5m FROM BOUNDARY PEG WHERE WATER METERS SHARE A COMMON BOUNDARY WITH ELECTRICAL PILLARS

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



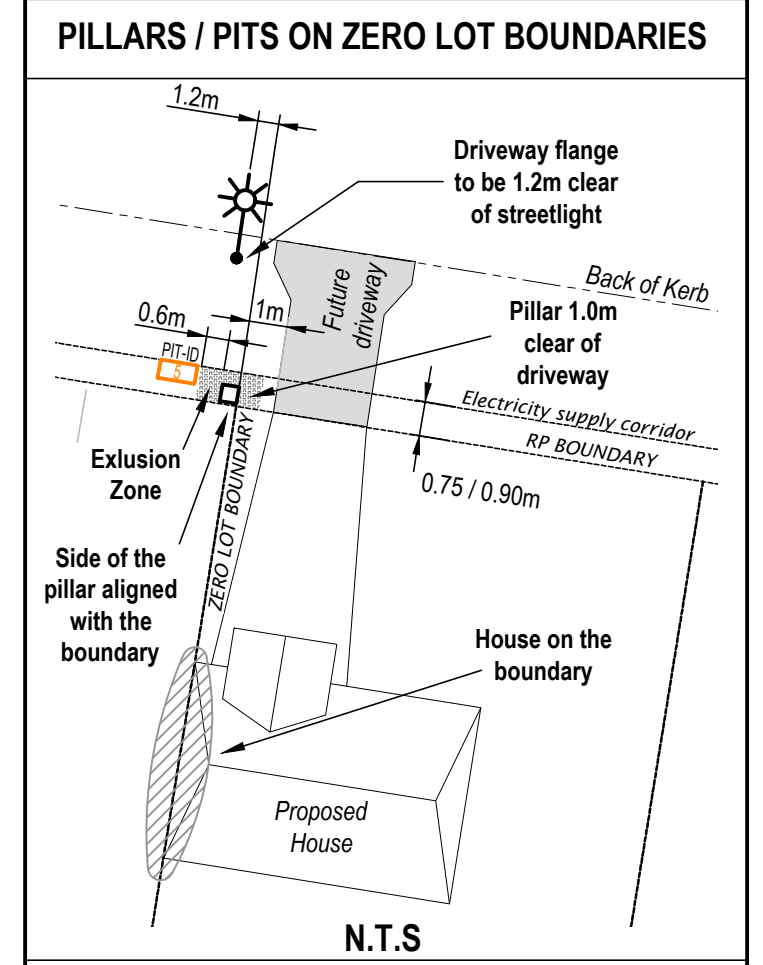
DANGER LIVE CABLES

- PREFERRED GARAGE LOCATION
- ALTERNATIVE GARAGE LOCATION

WHERE CROSS-ROAD ELECTRICITY CONDUITS RUN PARALLEL TO OTHER SERVICES OR CONDUITS, A MINIMUM SEPARATION OF 1.0m MUST BE MAINTAINED.

Common earthing to be established & Energex to relinquish separate earthing easement over PMT site

STAGE 15



REQUIREMENTS FOR ELECTRICAL, GAS & COMMUNICATIONS

The proposed pillar shall be offset at the zero lot boundary with the side of the pillar being aligned with the lot boundary in order to provide a 1.0m minimum clearance from the future driveway.

A proposed streetlight shall be offset 1.2m from the flange of the future driveway.

COMMUNICATIONS PITS
are to remain outside 600mm pillar exclusion zone where a pillar is offset to align on one side with the boundary peg

GAS SERVICE TEE-OFFS
are to remain outside 600mm pillar exclusion zone where a pillar is offset to align on one side with the boundary peg

THIRD PARTY TELECOMMUNICATION CABLE PROVISIONING - REFER TO DRG T18132 FOR PIT & PIPE DESIGN

JOINT USE GAS TRENCHING - REFER TO APA GROUP GAS MAIN RETICULATION DRG (TBA)

Pillars offset for zero lot building format for lots: 368,369,428,430,432,434, 436,439,440,442,444,446, 802 & 803

DRAWING INDEX

A18132-1	ELECTRICAL RETICULATION SITE PLAN
A18132-2	ELECTRICAL SCHEMATICS & LABELS
A18132-3	ELECTRICAL RETICULATION - SCHEDULES
L18143-1	RATE 3 STREETLIGHTING
T18132-1	TELECOMMUNICATION CABLE PROVISIONING SHEET 1

APPROVED FOR CONSTRUCTION

Woodlinks Village

AS CONSTRUCTED
Garry Edwards Date: 23/09/19
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

ISSUE	REVISION	BY	DATE	NOTES
A	Initial Design	av	19.12.18	
B	Final Design	av	21.01.19	
C	added proposed Garage locations	ms	19.08.19	

NOTES

This Works Plan is to be constructed in compliance with Energex documents:

- Overhead Construction Manual
- Underground Distribution Construction Manual
- Public Lighting Construction Manual
- Network Labelling and Signage Manual

The Construction Contractor is to manage this project and submit As Constructed drawings and the Certificate of Completion to Energex.

CROSS ROAD CONDUITS
Unless specified the Civil Contractor will install all cross road conduits.

EARTHING
Earthing is to be carried out in accordance with Energex requirements.

TELECOMMUNICATION INSTALLATION
Telecommunication conduits to be laid in shared trenches with electricity conduits. The Civil Electrical Construction Contractor is to notify the Telstra Contractor one week prior to installation of cross road conduits and two days prior to installation of footpath conduits for Telstra Pit and Pipe designs.

FIRE ANTS
The Construction Contractor is to confirm if this work site is within a Fire Ant Restricted Area. For work sites within a Fire Ant Restricted area the Contractor must comply with a DPI Approved Risk Management Plan.

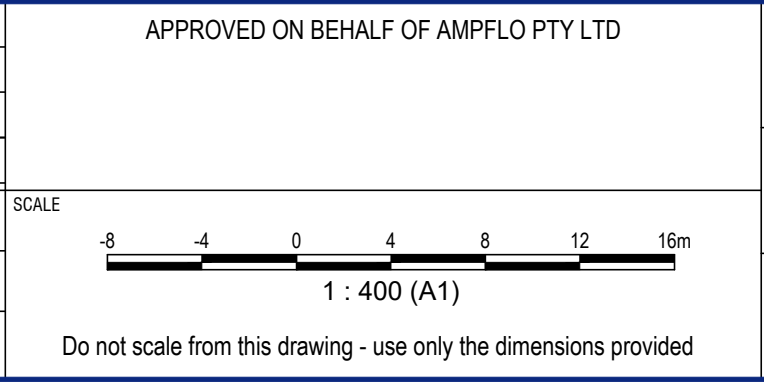
UNDERGROUND SERVICES IDENTIFICATION

WORK CREWS TO CONFIRM LOCATION OF ALL EXISTING SERVICES PRIOR TO EXCAVATION - ANY SERVICES SHOWN ARE INDICATIVE ONLY

ALIGNMENTS

ENERGEX OH	EXISTING
ENERGEX UG	0 - 0.9m
STREET LIGHTS	N/A

DESIGNED: A. Vihnal
CHECKED: C. Radu
DATE: December 2018



COUNCIL REFERENCE
IPSWICH CITY: 2558/2014/CA

CIVIL ENGINEER
Peak Urban
Ph. 5413 5300

SURVEYOR
SAUNDERS HAVILL GROUP
saundershavill.com

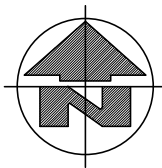
AMPFLO

1/10 Moore Street
Acacia Ridge Qld 4110
Phone 3372 9280
projects@ampflo.com.au
www.ampflo.com.au

ABN 28 111 423 842
electricity-nbn-telstra consultants

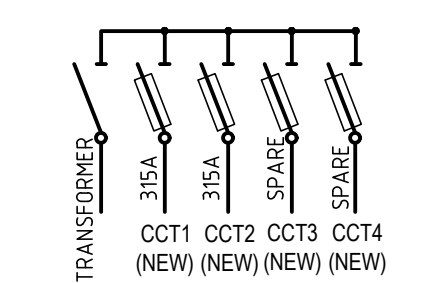
PROJECT
WOODLINKS VILLAGE - STAGE 15
246 COLLINGWOOD DR, COLLINGWOOD PARK 4301
Lots 367-372, 428-447, 802-804 (29 lots) & 5007
Cancelling Lot 5007 on SP266999

CLIENT
Canberra Estates Consortium No 36 Pty Ltd



LABELS FOR SWBD AT PMT SC2192426				
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	80x35	WB	6	TO NEUMANN DR LP2192429 & SERVICES
2	80x35	WB	6	GEM TO COOKATOO ST U2192444 & SERVICES
3	80x35	WB	6	SPARE
4	80x35	WB	6	SPARE

SC2192426 - LV BOARD



LABELS FOR LINK PILLAR LP2192429				
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	150x50	WB	6	GEM TO COOKATOO ST SC2192426 & SERVICES
2	150x50	WB	6	TO MAUDSLEY CR SC2122530 / PALASZCZUK AVE LP2192072 / CAHILL CR. LP2122542 / NEUMANN DR. LP2122393 & SERVICES

LABELS FOR LINK PILLAR LP2122542				
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	150x50	WB	6	EXISTING
2	150x50	WB	6	TO MAUDSLEY CR SC2122530 / NEUMANN DR LP2122393 & LP212429 / PALASZCZUK AVE LP2192072 & SERVICES

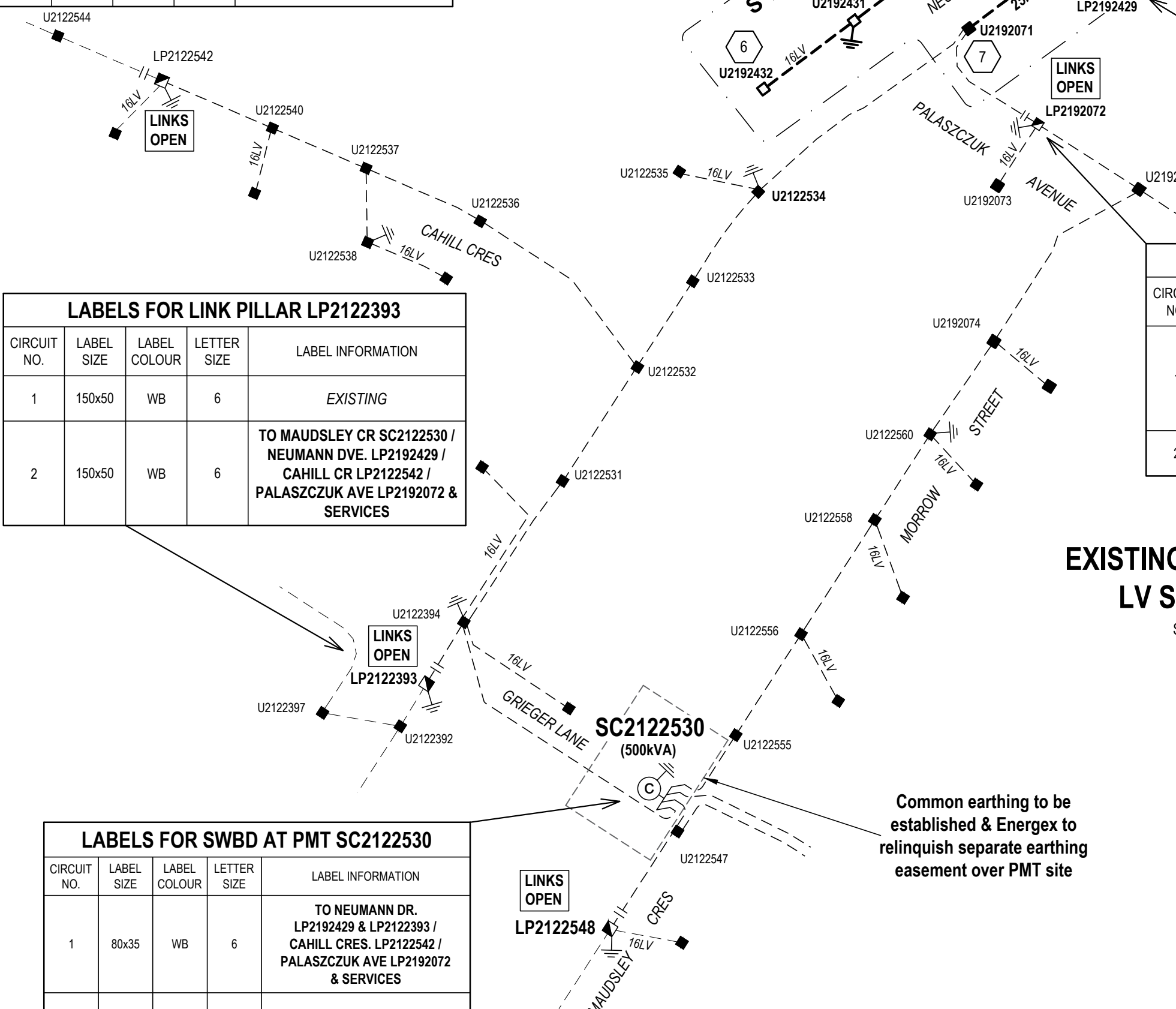
LABELS FOR LINK PILLAR LP2122393				
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	150x50	WB	6	EXISTING
2	150x50	WB	6	TO MAUDSLEY CR SC2122530 / NEUMANN DR. LP2192429 / CAHILL CR LP2122542 / PALASZCZUK AVE LP2192072 & SERVICES

LABELS FOR LINK PILLAR LP2192072				
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	150x50	WB	6	TO MAUDSLEY CR SC2122530 / NEUMANN DR LP2192429 / CAHILL CR LP2122542 / NEUMANN DR LP2122393 & SERVICES
2	150x50	WB	6	EXISTING

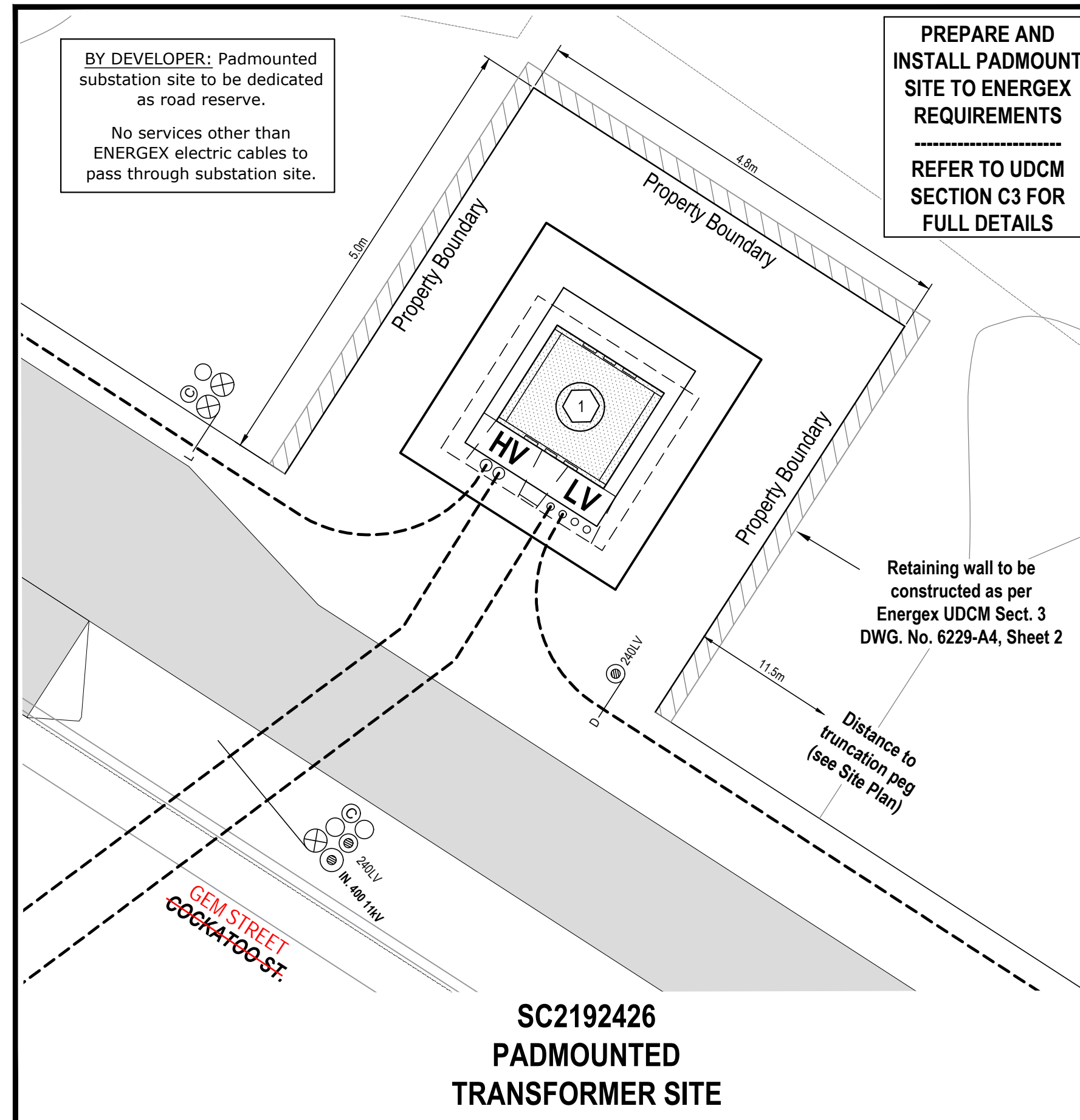
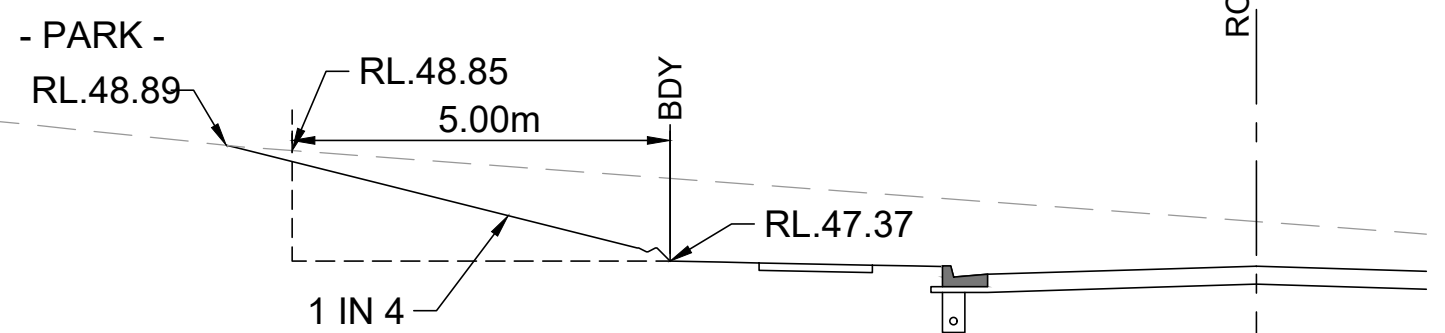
LABELS FOR SWBD AT PMT SC2122530				
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	80x35	WB	6	TO NEUMANN DR. LP2192429 & LP2122393 / CAHILL CRES. LP2122542 / PALASZCZUK AVE LP2192072 & SERVICES
2	80x35	WB	6	EXISTING
3	80x35	WB	6	EXISTING
4	80x35	WB	6	EXISTING

Common earthing to be established & Energex to relinquish separate earthing easement over PMT site

EXISTING & PROPOSED LV SCHEMATIC
SCALE 1:1000



PMT SECTION



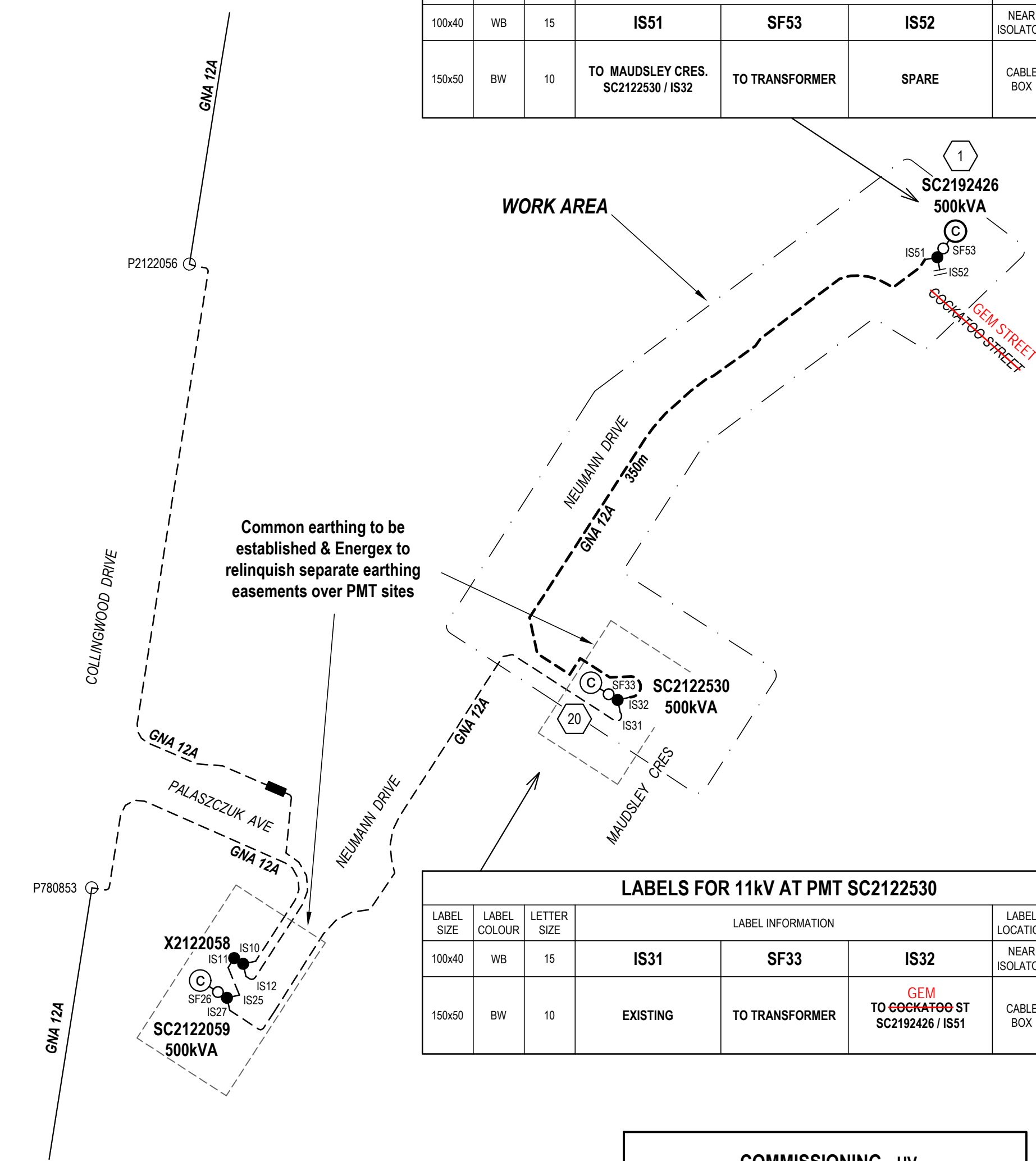
SC2192426 PADMOUNTED TRANSFORMER SITE

BY DEVELOPER: Padmounted substation site to be dedicated as road reserve. No services other than ENERGEX electric cables to pass through substation site.

PREPARE AND INSTALL PADMOUNT SITE TO ENERGEX REQUIREMENTS REFER TO UDCM SECTION C3 FOR FULL DETAILS

Retaining wall to be constructed as per Energex UDCM Sect. 3 DWG. No. 6229-A4, Sheet 2
Distance to truncation peg (see Site Plan)

PROPOSED 11KV SCHEMATIC
SCALE 1:2000



APPROVED FOR CONSTRUCTION

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

DRAWING INDEX	
A18132-1	ELECTRICAL RETICULATION SITE PLAN
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T18132-1	TELECOMMUNICATION CABLE PROVISIONING SHEET 1

LABELS FOR 11KV AT PMT SC2192426					
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION		LABEL LOCATION
100x40	WB	15	IS51	SF53	IS52
150x50	BW	10	TO MAUDSLEY CRES. SC2122530 / IS32	TO TRANSFORMER	SPARE

LABELS FOR 11KV AT PMT SC2122530					
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION		LABEL LOCATION
100x40	WB	15	IS31	SF33	IS32
150x50	BW	10	EXISTING	TO TRANSFORMER	TO GEM TO COOKATOO ST SC2192426 / IS51

- COMMISSIONING - HV**
PROPOSED COMMISSIONING PLAN
(tentative only - subject to amendment by switching co-ordinator)
- SC2192426 - INSTALL NEW 500KVA PMT
 - INSTALL 11KV CABLE FROM STN. 1 - STN. 20
 - TEST NEW WORK
 - SC2192426 - CLOSE IS51
 - SC2122530 - CLOSE IS32
 - COMMISSION
- PROPOSED COMMISSIONING PLAN - LV**
(subject to site conditions, amendment by switching co-ordinator and approval by LV outage co-ordinator)
- U2122534 - BREAK CONNECTION
 - SC2192426 - INSTALL 500 KVA PMT
 - INSTALL NEW PILLARS & CABLE
 - LP2192429 - INSTALL LINK PILLAR & OPEN
 - U2122534 - RE-ESTABLISH CONNECTION
 - TEST NEW WORK
 - SC2192426 - CLOSE CCT1 & CCT2
 - COMMISSION

ISSUE	REVISION	BY	DATE	NOTES
A	Initial Design	av	19.12.18	
B	Final Design	av	21.01.19	
C	added proposed Garage locations	ms	19.08.19	

NOTES
This Works Plan is to be constructed in compliance with Energex documents:
• Overhead Construction Manual
• Underground Distribution Construction Manual
• Public Lighting Construction Manual
• Network Labelling and Signage Manual
The Construction Contractor is to manage this project and submit As Constructed drawings and the Certificate of Completion to Energex.
CROSS ROAD CONDUITS
Unless specified the Civil Contractor will install all cross road conduits.

EARTHING
Earthing is to be carried out in accordance with Energex requirements.
TELECOMMUNICATION INSTALLATION
Telecommunication conduits to be laid in shared trenches with electricity conduits. The Civil Electrical Construction Contractor is to notify the Telstra Contractor one week prior to installation of cross road conduits and two days prior to installation of footpath conduits for Telstra Pit and Pipe designs.
FIRE ANTS
The Construction Contractor is to confirm if this work site is within a Fire Ant Restricted Area. For work sites within a Fire Ant Restricted area the Contractor must comply with a DPI Approved Risk Management Plan.

UNDERGROUND SERVICES IDENTIFICATION
WORK CREWS TO CONFIRM LOCATION OF ALL EXISTING SERVICES PRIOR TO EXCAVATION - ANY SERVICES SHOWN ARE INDICATIVE ONLY

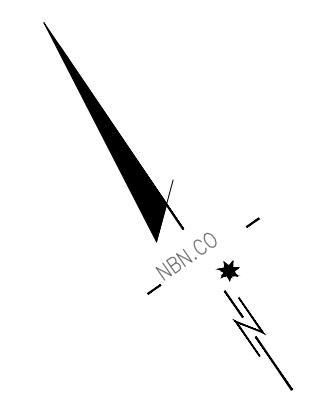
ALIGNMENTS
ENERGEX OH N/A
ENERGEX UG 0-0.9m
STREET LIGHTS N/A
SCALE APPROVED ON BEHALF OF AMPFLO PTY LTD
DESIGNED A. Vihnal
CHECKED C. Radu
DATE December 2018
Do not scale from this drawing - use only the dimensions provided

COUNCIL REFERENCE
IPSWICH CITY: 2558/2014/CA
CIVIL ENGINEER
Peak Urban
Ph. 5413 5300
SURVEYOR
SAUNDERS HAVILL GROUP
saundershavill.com

AMPFLO
1/10 Moore Street
Acacia Ridge Qld 4110
Phone 3372 9280
projects@ampflo.com.au
www.ampflo.com.au
electricity-nbn-telstra consultants

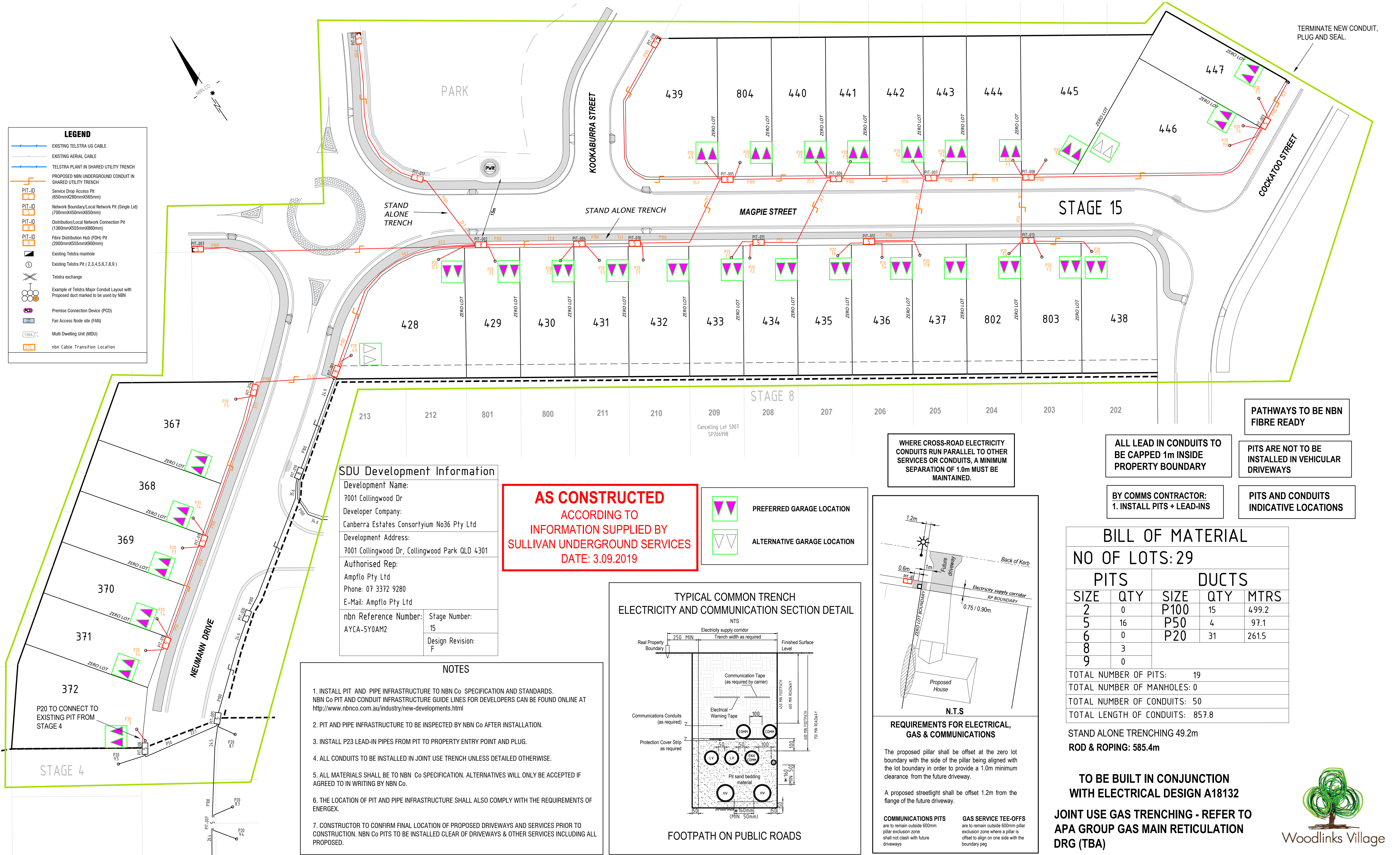
PROJECT
WOODLINKS VILLAGE - STAGE 15
246 COLLINGWOOD DR, COLLINGWOOD PARK 4301
Lots 367-372, 428-447, 802-804 (29 lots) & 5007
Cancelling Lot 5007 on SP266999
CLIENT
Canberra Estates Consortium No 36 Pty Ltd





LEGEND

- EXISTING TELSTRA UG CABLE
- EXISTING AERIAL CABLE
- TELSTRA PLANT IN SHARED UTILITY TRENCH
- PROPOSED NBN UNDERGROUND CONDUIT IN SHARED UTILITY TRENCH
- Service Drop Access Pit (650mmx280mmx555mm)
- Network Boundary/Local Network Pit (Single Lio) (700mmx450mmx550mm)
- Distribution/Local Network Connection Pit (1360mmx555mmx860mm)
- Fibre Distribution Hub (FDH) Pit (2000mmx555mmx900mm)
- Existing Telstra manhole
- Existing Telstra Pit (2,3,4,5,6,7,8,9)
- Telstra exchange
- Example of Telstra Major Conduit Layout with Proposed duct marked to be used by NBN
- Premise Connection Device (PCD)
- Fan Access Node site (FAN)
- Multi Dwelling Unit (MDU)
- nbn Cable Transition Location



SDU Development Information

Development Name:
7001 Collingwood Dr

Developer Company:
Canberra Estates Consortium No36 Pty Ltd

Development Address:
7001 Collingwood Dr, Collingwood Park QLD 4301

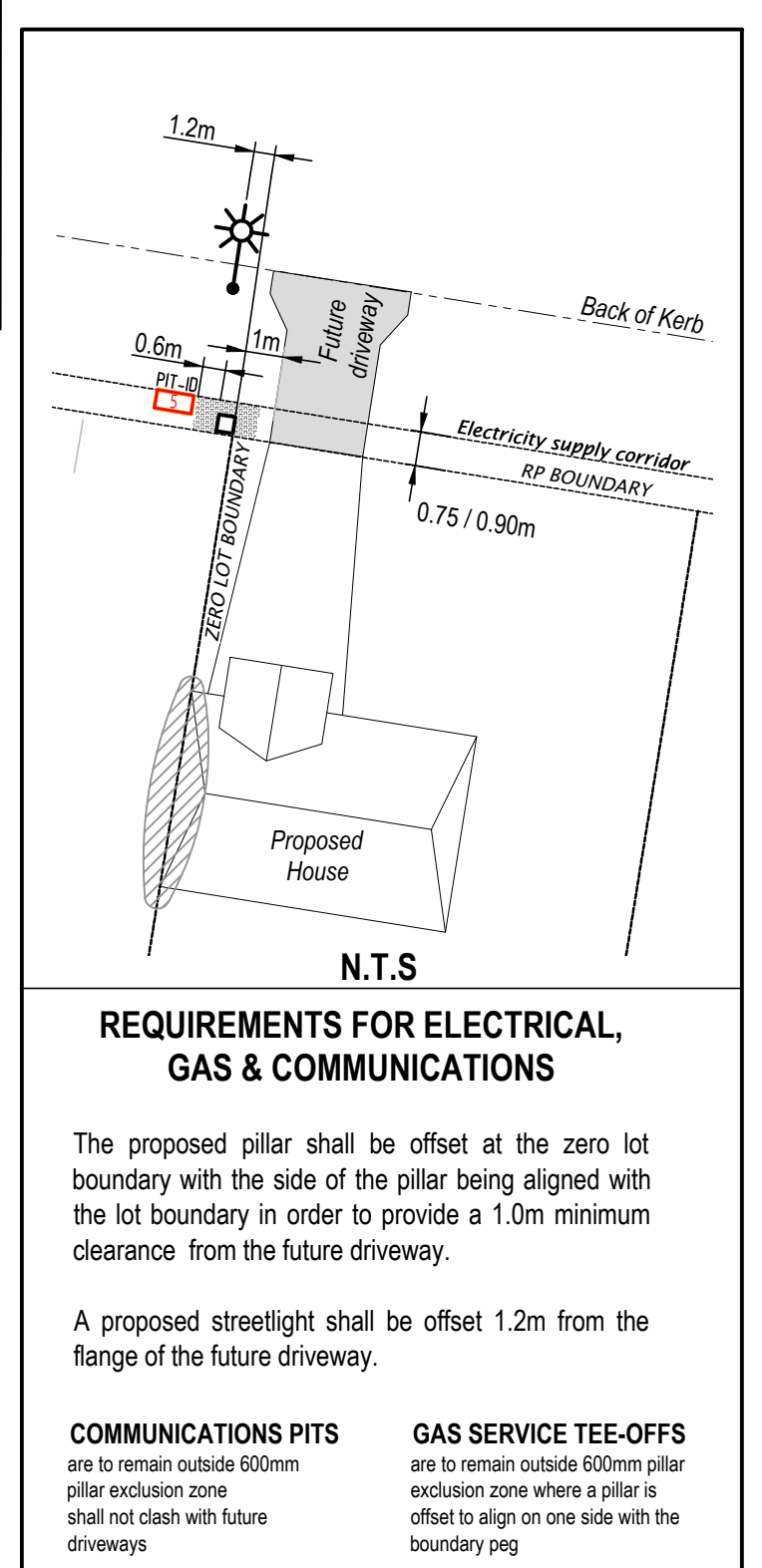
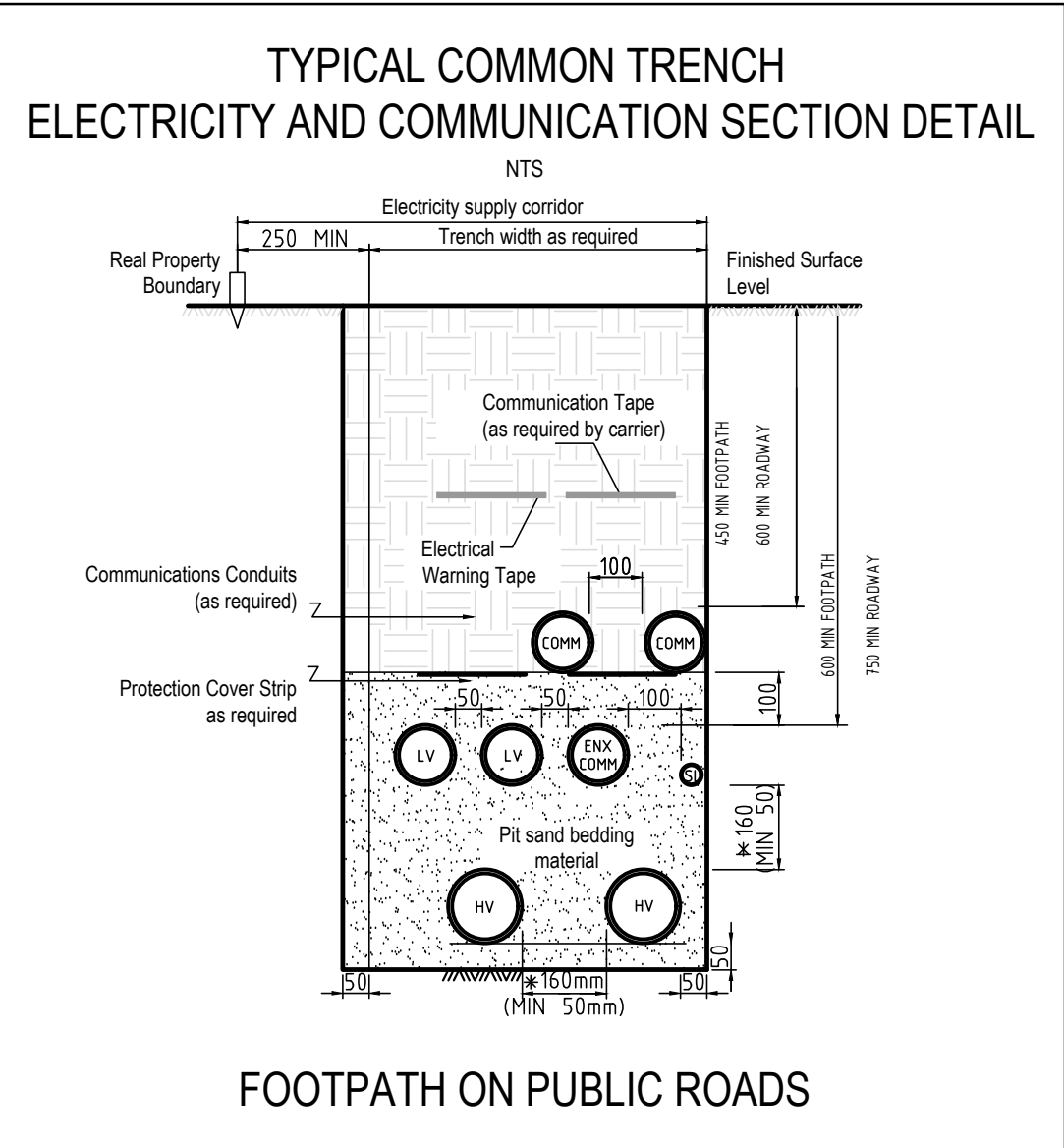
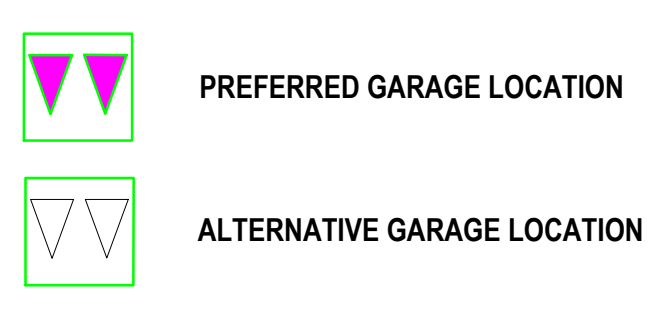
Authorised Rep:
Ampflo Pty Ltd

Phone: 07 3372 9280
E-Mail: Ampflo Pty Ltd

nbn Reference Number: AYCA-5Y0AM2

Stage Number: 15
Design Revision: F

AS CONSTRUCTED
ACCORDING TO
INFORMATION SUPPLIED BY
SULLIVAN UNDERGROUND SERVICES
DATE: 3.09.2019



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

PATHWAYS TO BE NBN FIBRE READY

PITS ARE NOT TO BE INSTALLED IN VEHICULAR DRIVEWAYS

PITS AND CONDUITS INDICATIVE LOCATIONS

ALL LEAD IN CONDUITS TO BE CAPPED 1m INSIDE PROPERTY BOUNDARY

**BY COMMS CONTRACTOR:
1. INSTALL PITS + LEAD-INS**

WHERE CROSS-ROAD ELECTRICITY CONDUITS RUN PARALLEL TO OTHER SERVICES OR CONDUITS, A MINIMUM SEPARATION OF 1.0m MUST BE MAINTAINED.

BILL OF MATERIAL

NO OF LOTS: 29

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	15	499.2
5	16	P50	4	97.1
6	0	P20	31	261.5
8	3			
9	0			

TOTAL NUMBER OF PITS: 19
TOTAL NUMBER OF MANHOLES: 0
TOTAL NUMBER OF CONDUITS: 50
TOTAL LENGTH OF CONDUITS: 857.8

STAND ALONE TRENCHING 49.2m
ROD & ROPING: 585.4m

TO BE BUILT IN CONJUNCTION WITH ELECTRICAL DESIGN A18132

JOINT USE GAS TRENCHING - REFER TO APA GROUP GAS MAIN RETICULATION DRG (TBA)



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-	-	-	-	-
F	4.09.19	MS	As Built	JB
E	20.08.19	MS	Added secondary lead ins to duplex lots	JB
D	19.08.19	MS	Added in proposed Garage locations	JB
C	19.08.19	JB	Pits 010, 011 & 012 relocated to Western Boundary	JB
B	29.03.19	JB	Duplex lots 428 and 446 removed	CR
A	19.12.18	JB	Initial Design	CR

STRICTLY CONFIDENTIAL

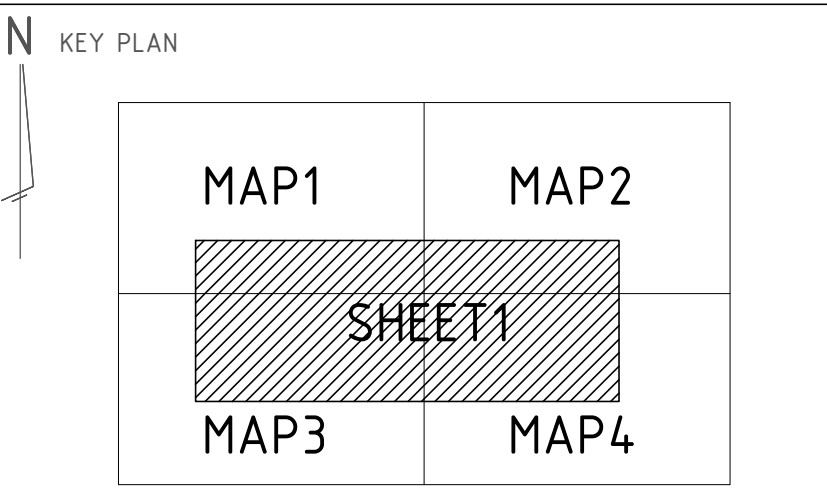
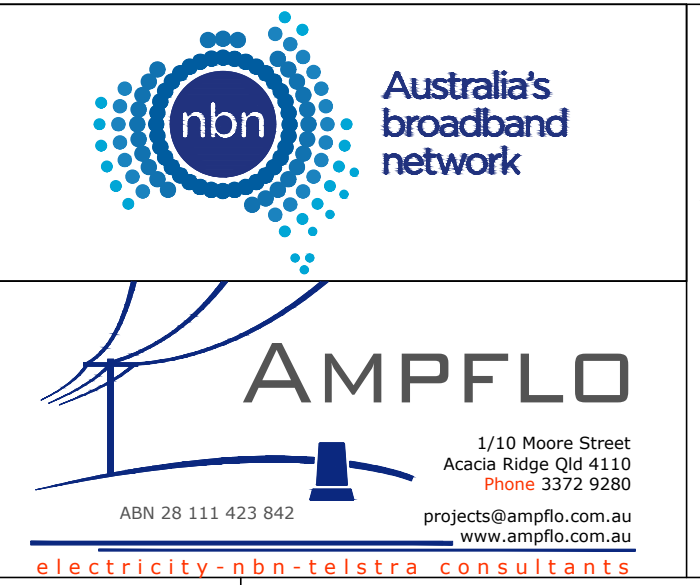
NBNCO APPROVAL RECORD:

SIGNATURE _____ DATE _____

DD _____
WD _____
AB _____

QUALITY RECORD:

NBNCO DISCLAIMER
THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR THE USE OF NBNCO LIMITED (ABN 86 136 533 741) FOR USE IN MAINTAINING NBNCO FACILITIES. IT HAS NOT BEEN CREATED FOR ANY OTHER USE. IT SHOULD NOT BE SCALED TO LOCATE NBNCO ASSETS. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE.



AYCA-5Y0AM2
NATIONAL BROADBAND NETWORK
7001 Collingwood Dr,
Collingwood Park
QLD 4301

ENABLE#: 280530

STATE: _____ REGION: _____

FSA: _____ SAM: _____ ADA: _____

PROJECT No: 18132

CADREF No: T18132

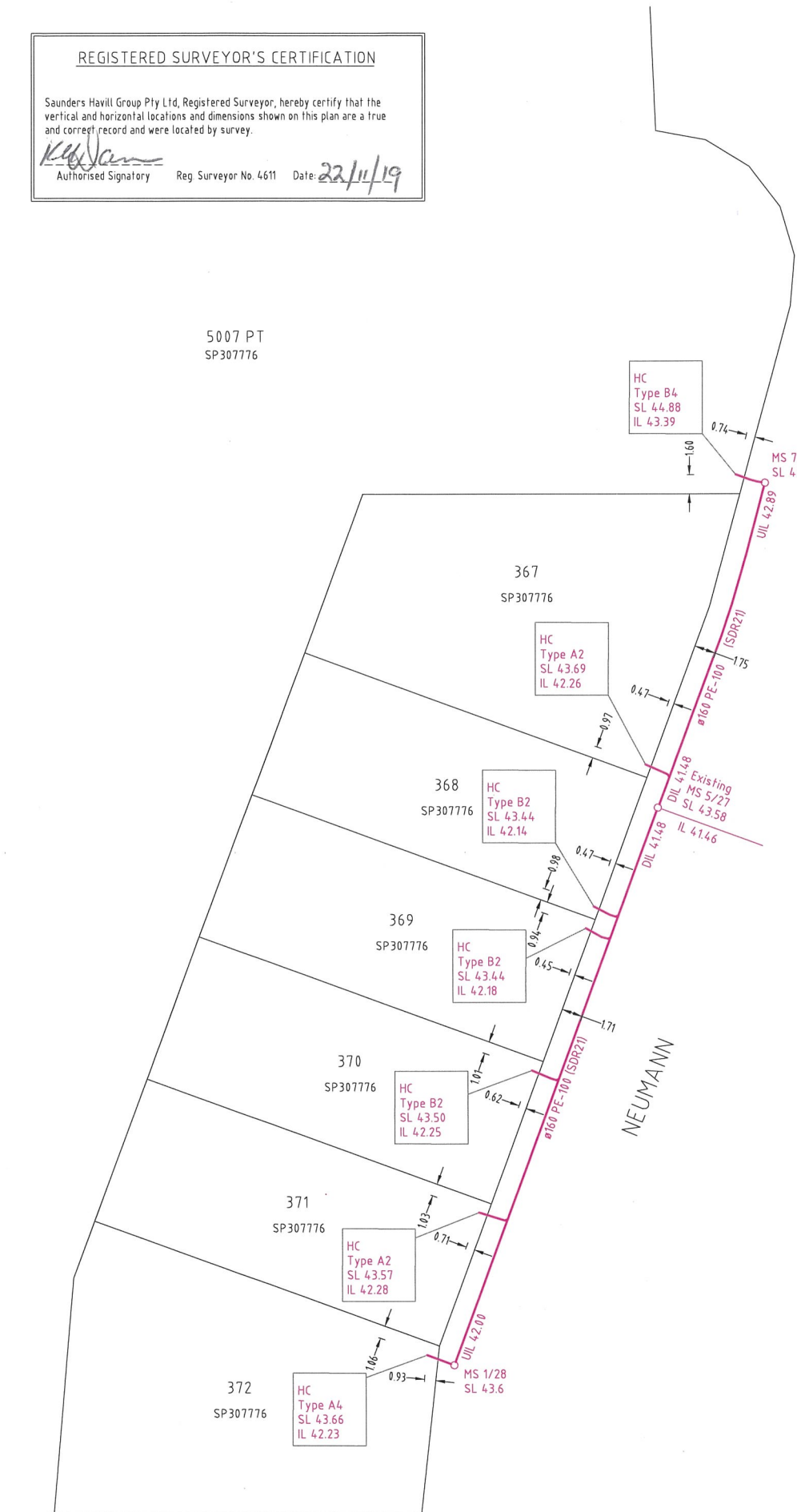
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REGISTERED SURVEYOR'S CERTIFICATION

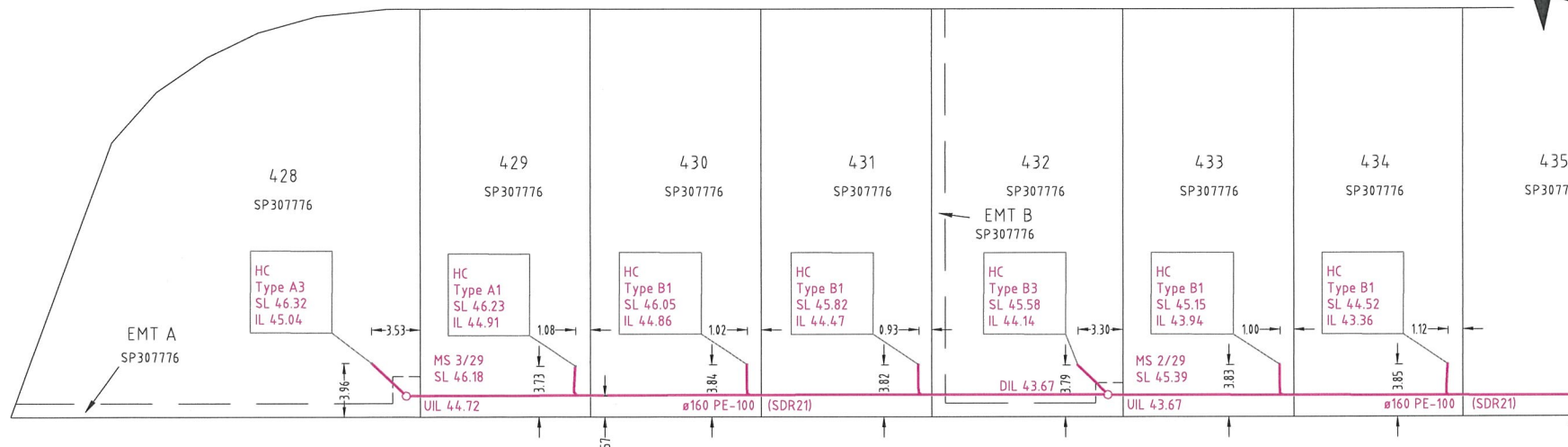
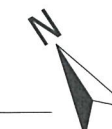
Saunders Havill Group Pty Ltd, Registered Surveyor, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

Authorised Signatory *K. J. J. [Signature]* Reg Surveyor No. 4611 Date 22/11/19

5007 PT
SP307776



GEM DRIVE



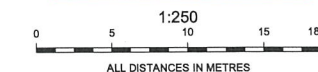
Plan of ADAC Survey Data

Project Name: Woodlinks Village Stage 15
 Description: Subdivision
 Works Approval ID: 18-PNT-36198
 Receiver: Queensland Urban Utilities
 Construction date: 2019-09-20
 Status: As Constructed

ADAC version: 4.2.0
 Horizontal coordinates: MGA zone 56
 Vertical datum: AHD derived
 Notes: Vertical Origin: PM203097, RL 45.557
 Surveyor: Saunders Havill Group (Reg ID 4611)
 Engineer: Peakurban

Note: See ADAC xml file for full attribute information

AS CONSTRUCTED



A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED
A	22.11.2019	ORIGINAL ISSUE			

INITIALS	DATE
DRAWN JTC	21.10.2019
CHECKED HK	23.10.2019
PASSED	

saunders havill group

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 phone (07) 3251 9444
 fax (07) 3251 9455
 address 9 Thompson St Bowen Hills Q 4006
 surveying # town planning # urban design
 environmental management # landscape architecture
 Drawing No: 8777 5 32 AC A



Queensland Urban Utilities

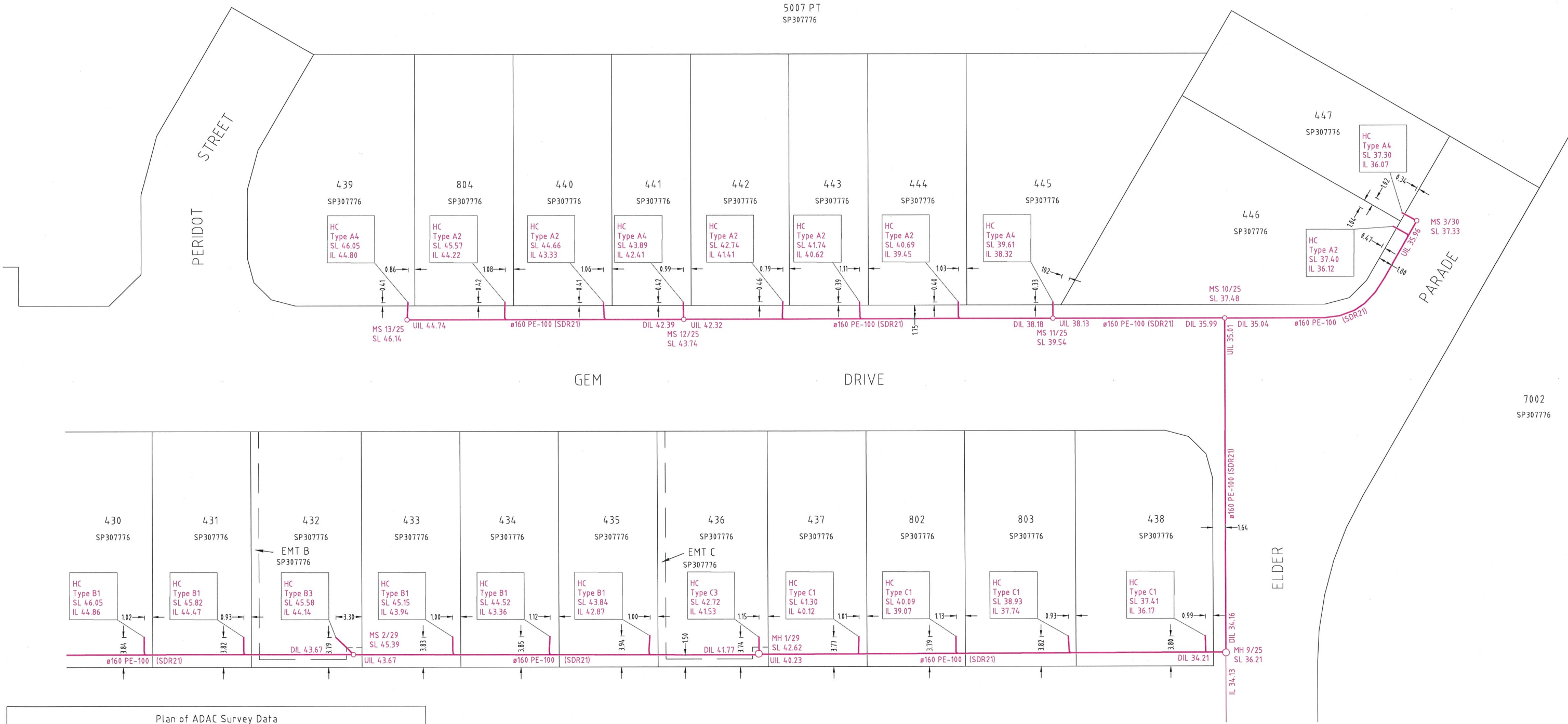
WOODLINKS VILLAGE STAGE 15
 SEWERAGE RETICULATION
 PLAN OF ADAC SURVEY DATA
 18-PNT-36198

SCALE	1:250
SHEET 1 OF 2 SHEETS	
DRAWING NO.	

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[Signature]
 Authorised Signatory Reg. Surveyor No. 4611 Date: 22/11/19



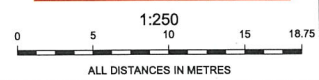
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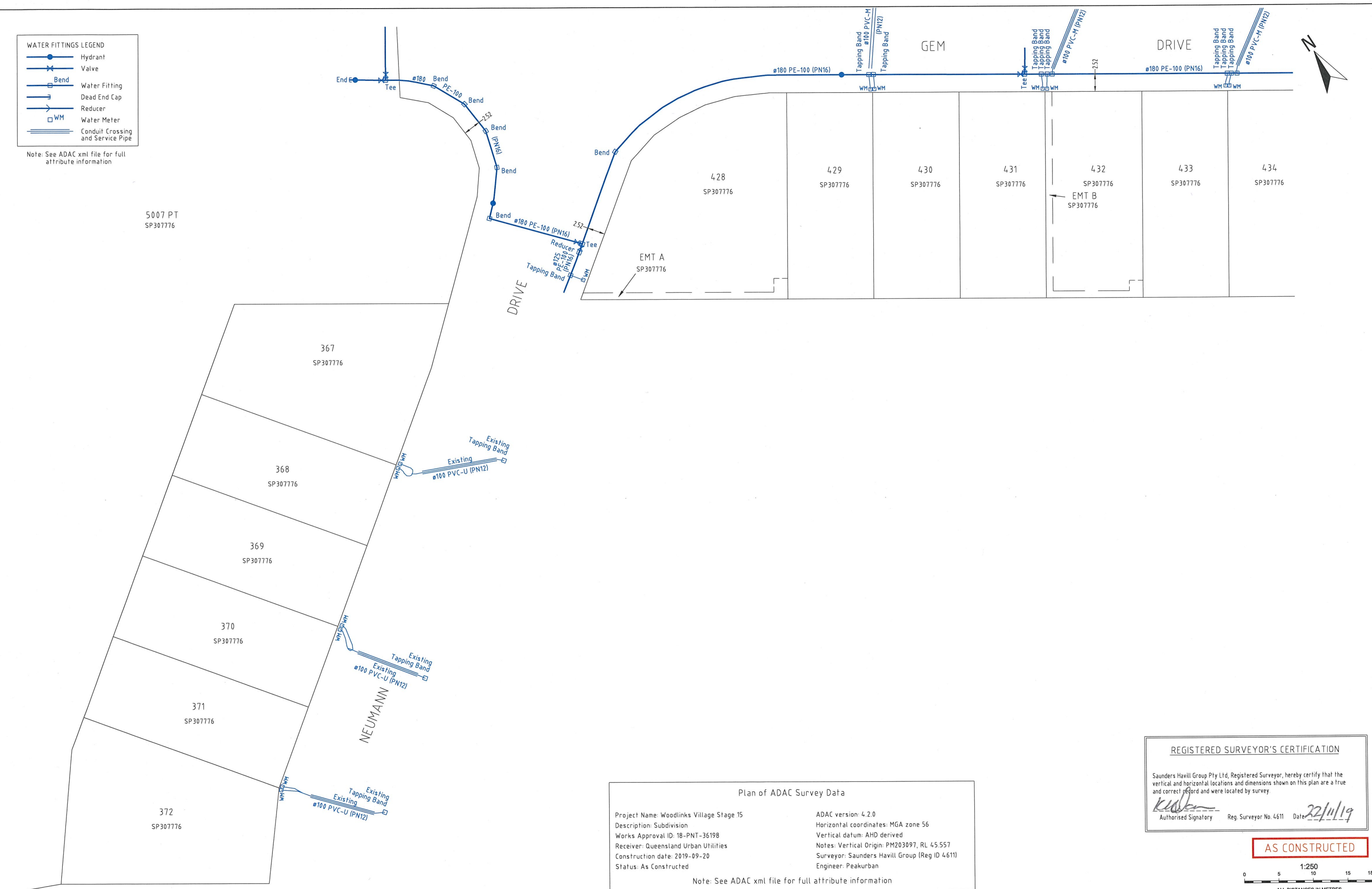
Queensland Urban Utilities

WOODLINKS VILLAGE STAGE 15
 SEWERAGE RETICULATION
 PLAN OF ADAC SURVEY DATA
 18-PNT-36198

SCALE	1:250
SHEET	2 OF 2 SHEETS
DRAWING NO.	

WATER FITTINGS LEGEND	
	Hydrant
	Valve
	Bend
	Water Fitting
	Dead End Cap
	Reducer
	Water Meter
	Conduit Crossing and Service Pipe

Note: See ADAC xml file for full attribute information



Plan of ADAC Survey Data

Project Name: Woodlinks Village Stage 15	ADAC version: 4.2.0
Description: Subdivision	Horizontal coordinates: MGA zone 56
Works Approval ID: 18-PNT-36198	Vertical datum: AHD derived
Receiver: Queensland Urban Utilities	Notes: Vertical Origin: PM203097, RL 45.557
Construction date: 2019-09-20	Surveyor: Saunders Havill Group (Reg ID 4611)
Status: As Constructed	Engineer: Peakurban

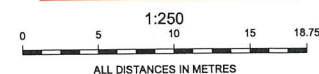
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K. J. J. J.
 Authorised Signatory Reg. Surveyor No. 4611 Date: 22/11/19

AS CONSTRUCTED



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saunders havill group	
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PASSED	
INITIALS	DATE

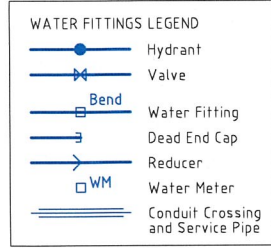
www.saundershavill.com
 phone (07) 3251 9444
 fax (07) 3251 9455
 address 9 Thompson St Bowen Hills Q 4006



Queensland Urban Utilities

WOODLINKS VILLAGE STAGE 15
 WATER RETICULATION
 PLAN OF ADAC SURVEY DATA
 18-PNT-36198

SCALE	1:250
SHEET 1 OF 3 SHEETS	
DRAWING NO.	



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K. Havill
 Authorised Signatory Reg. Surveyor No. 4611 Date: 22/11/19



Note: See ADAC xml file for full attribute information

5007 PT
 SP307776



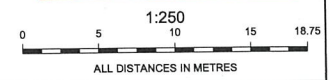
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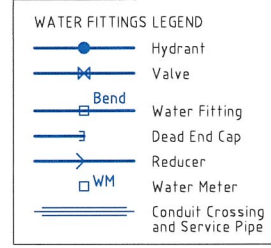
surveying town planning urban design
 environmental management landscape architecture
 Drawing No: 6777 S-32 AC A



Queensland Urban Utilities

WOODLINKS VILLAGE STAGE 15
 WATER RETICULATION
 PLAN OF ADAC SURVEY DATA
 18-PNT-36198

SCALE	1:250
SHEET	2 OF 3 SHEETS
DRAWING NO.	



REGISTERED SURVEYOR'S CERTIFICATION

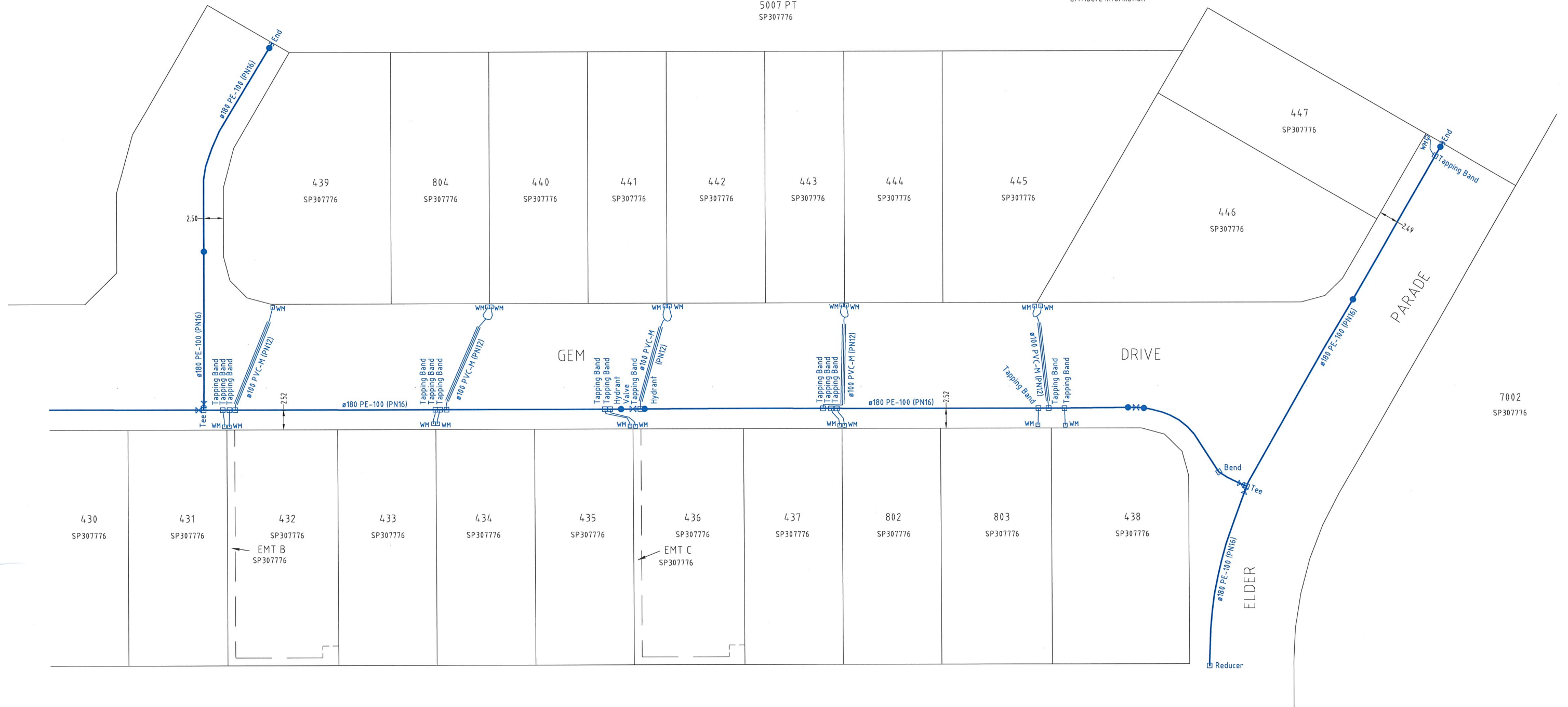
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 Authorised Signatory Reg. Surveyor No. 4611 Date: 22/11/19



Note: See ADAC xml file for full attribute information

5007 PT
SP307776

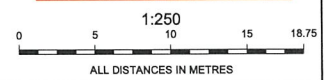


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 Receiver: Queensland Urban Utilities Notes: Vertical Origin: PM203097, RL 45.557
 Construction date: 2019-09-20 Surveyor: Saunders Havill Group (Reg ID 4611)
 Status: As Constructed Engineer: Peakurban

Note: See ADAC xml file for full attribute information

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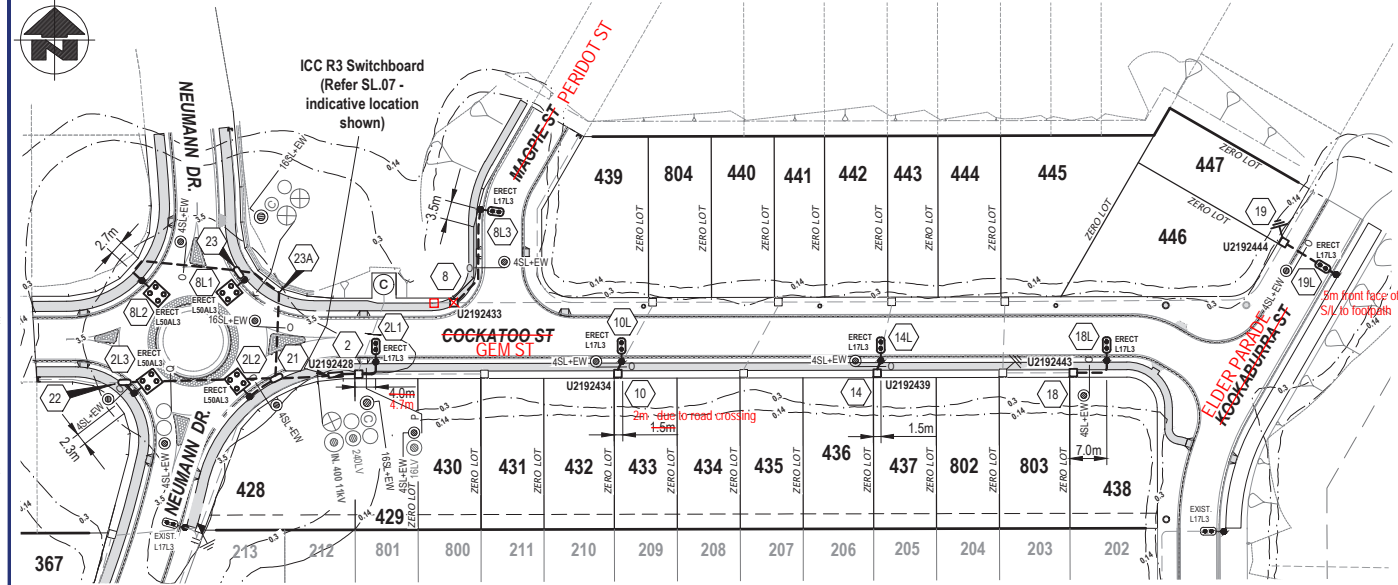
Queensland Urban Utilities

WOODLINKS VILLAGE STAGE 15
 WATER RETICULATION
 PLAN OF ADAC SURVEY DATA
 18-PNT-36198

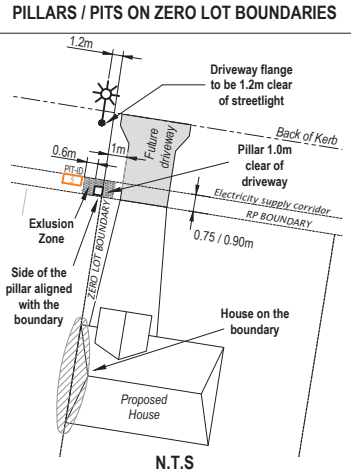
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SHEET	3 OF 3 SHEETS
DRAWING NO.	

LEGEND

- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- PROPOSED ELECTRICAL SERVICE CONDUIT
- PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- E.T. PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- POLE TRANSFORMER
- PADMOUNT TRANSFORMER
- HV SWITCH
- HV POLE
- HV / LV POLE
- LV POLE
- HV UNDERGROUND POLE TERMINATION
- LV UNDERGROUND POLE TERMINATION
- AERIAL STAY
- GROUND STAY
- EARTH
- EXISTING PILLAR
- PROPOSED PILLAR
- COMMERCIAL PILLAR
- LINK PILLAR
- CONDUIT / CABLE CROSS-SECTION
- EXISTING CP32 NOSTALGIA STREET LIGHT
- EXISTING L17 STREET LIGHT
- PROPOSED L17 STREET LIGHT
- PROPOSED L50A STREET LIGHT
- ISOLUX LINE



- PROPOSED COMMISSIONING PLAN RATE 3 STREETLIGHTING**
(subject to site conditions, amendment by switching co-ordinator and approval by LV outage co-ordinator)
- Confirm & record all required documentation is present & has been completed prior to commissioning
 - Confirm & record insulation & continuity results from new installation
 - Connect LV cable to pillar
 - Install fuse at pillar U2192428, energise W2192445
 - Install fuse at pillar U2192428, energise W2192446 & W2192447
 - Install fuse at pillar U2192433, energise W2192448 & W2192449
 - Install fuse at pillar U2192433, energise W2192450
 - Install fuse at pillar U2192434, energise W2192451
 - Install fuse at pillar U2192439, energise W2192452
 - Install fuse at pillar U2192443, energise W2192453
 - Install fuse at pillar U2192444, energise W2192455
 - Confirm & record polarity results
 - Update workplan including streetlight energisation date



REQUIREMENTS FOR ELECTRICAL, GAS & COMMUNICATIONS

The proposed pillar shall be offset at the zero lot boundary with the side of the pillar being aligned with the lot boundary in order to provide a 1.0m minimum clearance from the future driveway.

A proposed streetlight shall be offset 1.2m from the flange of the future driveway.

COMMUNICATIONS PITS are to remain outside 600mm pillar exclusion zone shall not clash with future driveways

GAS SERVICE TEE-OFFS are to remain outside 600mm pillar exclusion zone where a pillar is offset to align on one side with the boundary peg

APPROVED FOR CONSTRUCTION

AS CONSTRUCTED
Garry Edwards Date: 29/10/19
INZ ELECTRICAL SERVICES PTY LTD
97 ZILLMERE ROAD
BOONDALL 4034 QLD
PH 3865 2122 FAX 3865 4475

URD CIVIL WORKS SCHEDULE - ROADWAYS (BY CIVIL CONTRACTOR)

LOCATION	STATIONS FROM-TO	NUMBER OF CONDUITS x CONDUIT LENGTH (m)	PVC CABLE PROTECTION (m)					X-SECTION (m)			PLUGS	DRAW WIRE	KERB MARK	REMARKS	
			40mm HD	90° BENDS	150mm	200mm	300mm	EXCAV TAPE	TRENCH DETAIL	MIL COVER					
KOOKABURRA ST.	19 - 19L	12						12	0	0.75	2x40	12	2		
NEUMANN DRIVE	21 - 22	30						30	0	0.75	2x40	30	2		
	21 - 23A	17						17	0	0.75	2x40	17	2		
	23 - 8L2	27						27	0	0.75	2x40	27	2		
TOTALS		86						86			8x40	95	8		

(C) = COMMUNICATIONS CONDUIT: WHITE MEDIUM DUTY PVC

URD CIVIL WORKS SCHEDULE - ROADWAYS & FOOTPATHS (BY ELECTRICAL CONTRACTOR)

LOCATION	STATIONS FROM-TO	NUMBER OF CONDUITS x CONDUIT LENGTH (m)	PVC CABLE PROTECTION (m)					X-SECTION (m)			PLUGS	DRAW WIRE	KERB MARK	REMARKS	
			40mm HD	90° BENDS	150mm	200mm	300mm	EXCAV TAPE	TRENCH DETAIL	MIL COVER					
COCKATOO ST.	2 - 2L1	8						8	0	0.6		8			
	2 - 2L1	16						16	0	0.6		16			
NEUMANN DRIVE	21 - 2L2	6						6	0	0.6		6			
	22 - 2L3	2						2	0	0.6		2			
COCKATOO ST.	23A - 23	9						9	0	0.6		9			
NEUMANN DRIVE	23 - 8L1	1						1	0	0.6		1			
MAGPIE STREET	8 - 8L3	20						20	0	0.6		20			
COCKATOO ST.	10 - 10L	3						3	0	0.6		3			
	14 - 14L	3						3	0	0.6		3			
	18 - 18L	10						10	0	0.6		10			
TOTALS		78						78				86			

(C) = COMMUNICATIONS CONDUIT: WHITE MEDIUM DUTY PVC

UNDERGROUND CABLE SCHEDULE

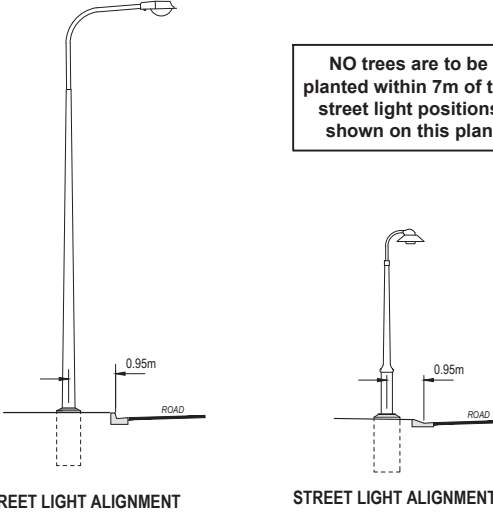
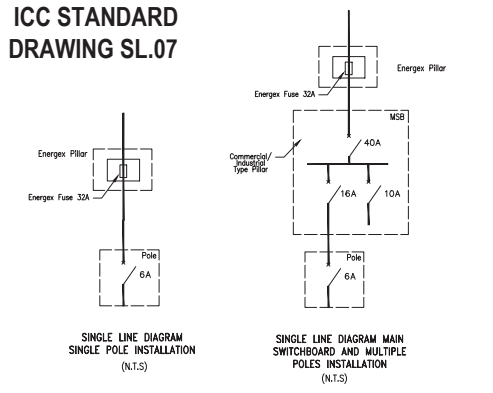
LOCATION	STATIONS FROM-TO	EXIST	REC	INSTALL	STREET LIGHT		REMARKS
					16mm² TWIN + EARTH	4mm² TWIN + EARTH	
COCKATOO STREET	2 - 2L1			✓		13	
	2 - 2L1			✓	18		
NEUMANN DRIVE	21 - 2L2			✓		11	
	21 - 2L3			✓		37	
COCKATOO STREET	21 - 23			✓	25		
NEUMANN DRIVE	23 - 8L1			✓		5	
	23 - 8L2			✓		32	
MAGPIE STREET	8 - 8L3			✓		25	
COCKATOO STREET	10 - 10L			✓		8	
	14 - 14L			✓		8	
	18 - 18L			✓		8	
KOOKABURRA STREET	19 - 19L			✓		17	
TOTALS					43	164	

CONTRACTOR TO CONFIRM ACTUAL CABLE LENGTHS ON SITE BEFORE ORDERING

STREET LIGHT SCHEDULE - RATE 3

LOCATION	STN NO.	POLE I.D.	POLE OR COMPONENTS			LUMINAIRE				OUTREACH BRACKET			MOUNT HEIGHT (m)	REMARKS	
			COMP I.D.	EXIST	REC	ERECT	STOCK CODE	ALIGN	COMP I.D.	DATE DE-ENERG	ERECT LUMIN	CUST			ENERGISED
COCKATOO STREET	2L1	W2192445	P01			4.5m EST	SLN0S3CI	0.95 BIK	SL1	L17L3	IPSW	ASSY843-22	0.5	5.1	BLACK AVENUE
	2L2	W2192446	P01			7.0 BPM	S890115UCI	0.95 BIK	SL1	L50AL3	IPSW	2467058	1.5	9.0	
	2L3	W2192447	P01			7.0 BPM	S890115UCI	0.95 BIK	SL1	L50AL3	IPSW	2467058	1.5	9.0	
	8L1	W2192448	P01			7.0 BPM	S890115UCI	0.95 BIK	SL1	L50AL3	IPSW	2467058	1.5	9.0	
MAGPIE STREET	8L2	W2192449	P01			7.0 BPM	S890115UCI	0.95 BIK	SL1	L50AL3	IPSW	2467058	1.5	9.0	
	8L3	W2192450	P01			4.5m EST	SLN0S3CI	0.95 BIK	SL1	L17L3	IPSW	ASSY843-22	0.5	5.1	BLACK AVENUE
COCKATOO STREET	10L	W2192451	P01			4.5m EST	SLN0S3CI	0.95 BIK	SL1	L17L3	IPSW	ASSY843-22	0.5	5.1	BLACK AVENUE
	14L	W2192452	P01			4.5m EST	SLN0S3CI	0.95 BIK	SL1	L17L3	IPSW	ASSY843-22	0.5	5.1	BLACK AVENUE
	18L	W2192453	P01			4.5m EST	SLN0S3CI	0.95 BIK	SL1	L17L3	IPSW	ASSY843-22	0.5	5.1	BLACK AVENUE
	19L	W2192455	P01			4.5m EST	SLN0S3CI	0.95 BIK	SL1	L17L3	IPSW	ASSY843-22	0.5	5.1	BLACK AVENUE

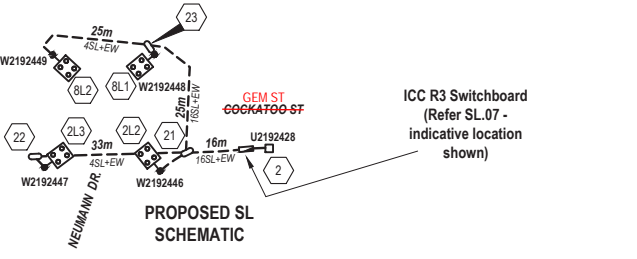
BIK = 0.95m BEHIND INVERT OF KERB



BILL OF MATERIALS

RATE 3 LIGHTING			
DESCRIPTION	QTY	MTRS	REMARKS
40mm HD electrical conduit	1	164	
16mm² twin + earth	N/A	43	
4mm² twin + earth	N/A	164	
#4 SL PIT + J/BOX	2		
AVENUE + L17 LUMINAIRE	6	N/A	BLACK
7.0 BPM + L50A RoadFlair	4	N/A	

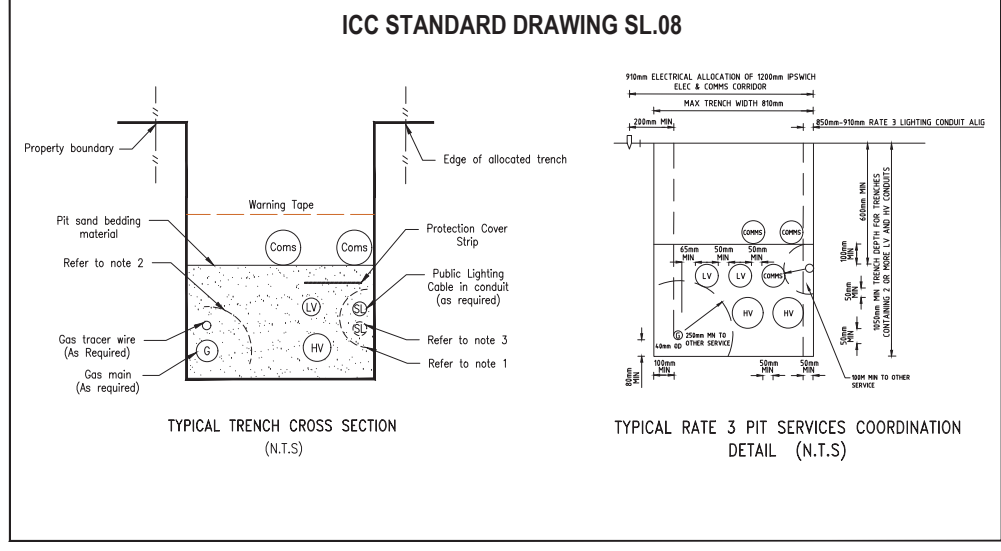
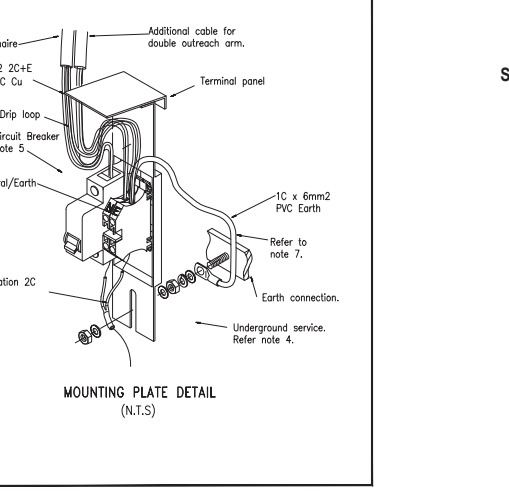
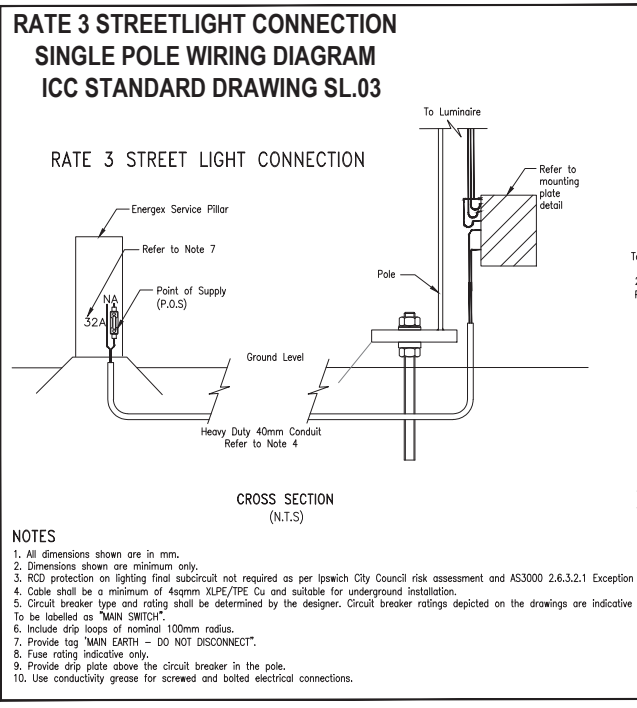
INSTALL IN COMMON TRENCH WITH ELECTRICAL



STREET LIGHTING CERTIFICATION
NEUMANN DR - P3, COCKATOO STREET, MAGPIE STREET & KOOKABURRA STREET - P4

- THE ILLUMINANCE LIGHT TECHNICAL PARAMETERS COMPLY WITH THE RECOMMENDATIONS OF AS/NZS 1158.3.1 CAT P3 & P4 ROADWAYS & PATHWAYS
- THE LIGHT LOSS FACTOR OF 0.75 FOR MINOR ROADWAY LUMINAIRES IS BASED ON THE CLIENTS CURRENT PRACTICE & IS IN ACCORDANCE WITH AS/NZS1158
- PHOTOMETRIC DATA WAS PROVIDED BY MANUFACTURER. SOFTWARE USED FOR CALCULATIONS IS PERFECT LITE
- CALCULATIONS ARE SUBJECT TO ACCURACIES AND TOLERANCES NOMINATED IN AUSTRALIAN AND NEW ZEALAND STANDARDS AS/NZS 3827.1:1998 AND AS/NZS 3827.2:1998.

CornelRadu
RPEQ17404
2018.12.20 15:51:19 +10'00'



- NOTES**
- Minimum of 100mm separation to be maintained between street light conduits and other services.
 - Minimum of 250mm separation to be maintained between Gas Pipes and other services.
 - Additional 100mm street light conduit to be installed where required.
 - Circuit breaker type and rating shall be determined by the designer. Circuit breaker ratings depicted on the drawings are indicative only.
 - Number of circuits as required for project plus 50% spare for each switchboard
 - Fuse rating indicative only.

DRAWING INDEX

NO.	DESCRIPTION
A18132-1	ELECTRICAL RETICULATION SITE PLAN
A18132-2	ELECTRICAL SCHEMATICS & LABELS
A18132-3	ELECTRICAL RETICULATION - SCHEDULES
L181132-1	RATE 3 STREETLIGHTING
T18132-1	TELECOMMUNICATION CABLE PROVISIONING SHEET 1

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ISSUE	REVISION	BY	DATE	NOTES
A	Initial Design	av	18.12.18	This Work Plan is to be constructed in compliance with Energex documents: • Overhead Construction Manual • Underground Distribution Construction Manual • Public Lighting Construction Manual • Network Labelling and Signage Manual
B	Amendments as per ICC	av	11.02.19	The Construction Contractor is to manage this project and submit 'As Constructed' drawings and the Certificate of Completion to Energex. CROSS ROAD CONDUITS Unless specified the Civil Contractor will install all cross road conduits.

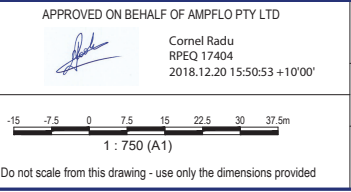
EARTHING
Earthing is to be carried out in accordance with Energex requirements.

TELECOMMUNICATIONS INSTALLATION
Telecommunication conduits to be laid in shared trenches with electricity conduits. The Civil Electrical Construction Contractor is to notify the Telecommunications Contractor one week prior to installation of cross road conduits and two days prior to installation of footpath conduits for Telstra Pit and Pipe designs.

FIRE ANTS
The Construction Contractor is to confirm if this work site is within a Fire Ant Restricted Area. For work sites within a Fire Ant Restricted area the Contractor must comply with a DPI Approved Risk Management Plan.

UNDERGROUND SERVICES IDENTIFICATION

WORK CREWS TO CONFIRM LOCATION OF ALL EXISTING SERVICES PRIOR TO EXCAVATION - ANY SERVICES SHOWN ARE INDICATIVE ONLY



COUNCIL REFERENCE
IPSWICH CITY: 2558/2014/CA

CIVIL ENGINEER
Peak Urban
Ph. 5413 5300

SURVEYOR
SAUNDERS HAVILL GROUP
saundershavill.com

ampflo
Electrical & Telecommunications Consultants
07 3372 9280 - projects@ampflo.com.au
www.ampflo.com.au
ABN: 28 111 423 842

WOODLINKS VILLAGE - STAGE 15
246 COLLINGWOOD DR, COLLINGWOOD PARK 4301
Lots 367-372, 428-447, 802-804 (29 lots) & 5007
Cancelling Lot 5007 on SP266999

CLIENT
Canberra Estates Consortium No 36 Pty Ltd

ampflo

RATE 3 STREETLIGHTING

S2601313

L18143 1 OF 2

LEGEND

- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- E PROPOSED ELECTRICAL SERVICE CONDUIT
- E T PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- POLE TRANSFORMER
- PADMOUNT TRANSFORMER
- HV SWITCH
- HV POLE
- HV / LV POLE
- LV POLE
- HV UNDERGROUND POLE TERMINATION
- LV UNDERGROUND POLE TERMINATION
- AERIAL STAY
- GROUND STAY
- EARTH
- EXISTING PILLAR
- PROPOSED PILLAR
- COMMERCIAL PILLAR
- LINK PILLAR
- 16LV CONDUIT / CABLE CROSS-SECTION
- EXISTING CF32 NOSTALGIA STREET LIGHT
- EXISTING L17 STREET LIGHT
- PROPOSED L17 STREET LIGHT
- PROPOSED L504 STREET LIGHT
- ISOLUX LINE

LIST OF STANDARD DRAWINGS

- SL.01 List of Standard Drawings and Equipment Requirements
- SL.02 Electrical, Project Documentation & Design Requirements
- SL.03 Single Pole Wiring Diagram
- SL.04 Two Pole Wiring Diagram - DELETED
- SL.05 Multiple Pole Installation with Unmetered 3 Phase Supply
- SL.06 Multiple Pole Installation with Metered 3 Phase Supply - DELETED
- SL.07 Single Line Diagram & Conduit Installation Details
- SL.08 Streetlight Reticulation Details

ABBREVIATIONS

- NTS - not to scale
- POS - point of supply
- MCB - miniature circuit breaker

EQUIPMENT REQUIREMENTS

All streetlight and associated works are to be carried out in accordance with all legislative requirements and Australian Standards. The standards that will apply shall include but not be limited to:

- AS/NZS 1158
- AS/NZS 2053
- AS/NZS 3000
- AS/NZS 3008
- QLD Electrical Safety Act

The details contained within the standard drawings are to be read in conjunction with the Ipswich City Council (ICC) policy documents; Planning Scheme Policy 3 - General Works, and Planning Scheme Policy 2. Where there is a conflict of requirements then the Planning Scheme Policy documents shall take precedence over the drawings. All equipment shall be selected from ENERGEX or Department of Transport and Main Roads (DTMR) standard equipment.

Warranty for rate 3 streetlight equipment shall be vested with Ipswich City Council at the start of Off Maintenance period.

Ipswich City Council has mandated the use of the Light Emitting Diode (LED) luminaires. The LED luminaire type and associated street light equipment shall be installed as an Energex unmetered rate 3 type. Any luminaire approved for use must be fitted with a NEMA 7 pin socket and associated wiring. Terminal numbers 1 to 5 inclusive of the NEMA 7 pin socket are to have their respective connections made prior to installation. Terminals 6 and 7 of the NEMA 7 pin socket are to have fly leads connected prior to installation. The fly leads are to be 150 mm in length, matching existing wire type, different external colour and terminated with insulated end caps. All luminaires must be operated using a photoelectric (P.E.) cell installed on the luminaire. The external NEMA 7 pin socket must be installed to allow the matching P.E. cell plug connection. Where the NEMA 7 pin socket is not used for a P.E. connection it must be capped with a shorting cap to prevent material ingress.

ELECTRICAL REQUIREMENTS

Any calculations shall use the nominal voltage value of 230/400 volts. All street light connections shall be balanced across the phases of the supply network.

The value of current draw to be used for cable size calculations and selection of circuit protection devices is to be based on the total rated load of each luminaire installed, including electronic losses, power factor, harmonics and inrush current.

Minimum cable sizes and insulation types are indicated in the drawings SL03 and SL05.

Provide larger separate earth cables where the integral earth conductor is not sufficient size to meet earth fault loop impedance requirements.

Preferred types and values of protection equipment are shown on associated standard drawings. cable sizes shall be checked for each proposed project for the following criteria:

1. Continuous current rating as per section 3 of AS 3008.
2. Limitation of voltage drop as per section 4 of AS 3008.
3. Short circuit performance as per section 5 of AS 3008.
4. Earth loop impedance as per appendix B of AS 3000.

Residual current devices (RCDs) shall not be installed for streetlight final subcircuits, in accordance with AS3000 2.6.3.2.1 exception 5 and Ipswich City Council risk assessment.

Select overcurrent/short circuit protective devices in accordance with as3000 to suit electrical load, prospective short circuit current and earth fault loop impedance.

Any changes in direction of conduit shall use a sweeping bend.

Provide pits for reticulation of electrical services as necessary. Pits shall be provided adjacent to poles to provide cable tee-off joints and at junctions and where conduit reticulation change direction. Generally, space the pits at maximum 50m intervals in local roads. This spacing may be greater in outer urban or rural subdivisions. Provide pit drainage to stormwater system or where not practicable to rubble pits.

ELECTRICAL ENERGISATION REQUIREMENTS

The Ipswich City Council as of July 2017 uses the Stanwell Corporation as the electricity retailer. Queries regarding connection of street light should be directed to the following email address:

Rate3StreetLights@ipswich.qld.gov.au

PROJECT DESIGN REQUIREMENTS

4.5m outreach arms size shall not be used for minor road installation. 4.5m outreach arms shall be permitted for major road lighting installation.

Where a project is to be constructed in more than one stage then the same style of equipment must be installed across all stages of the same project.

Where a project has been constructed then the same style of equipment must be installed across all subsequent stages of the same constructed project.

In urban developments, each street light shall be supplied directly from the nearest energex point of supply (i.e. LV pillar) unless approved by ICC. Multiple street lights fed from one supply will only be considered where there are no LV pillars. The number of street lights connected to a point of supply shall be determined by the designer based on the unique installation conditions that may be present.

ICC preference for developments with large frontages and significant distance between service pillar & streetlight locations is to supply multiple street lights from a main switchboard. Where an ICC MSB is utilized, a No.4 cable pit (with junction box, unfused) shall be located within 3mtrs of the base of each streetlight. Pits shall be aligned 125mm from property alignment (to ensure footpaths are not impacted).

HD conduits to be aligned at 870mm from property alignment. A maximum of 3 x 90 degree large radius sweep bends shall be used.

Provide durable and clearly visible permanently fixed weather proof Energex label to all rate 3 streetlights. Label shall be green back with white lettering "ICC3" to indicate a rate 3 Ipswich City Council site. Label shall be affixed on the light pole above the Energex site ID label. Refer Energex Public Lighting Manual for ID location.

Provide durable traffolyte label inside pole access hatch with words to the effect of: "WARNING RCD PROTECTION NOT INSTALLED".

Provide durable Energex type weather resistant permanently fixed 50mm high label to all ICC MSBs. Label shall be green back with white lettering with the MSB asset number, e.g. "ICC MSB XXXXXXXX" where XXXXXXXX is the service pillar supplying the MSB. Confirm asset numbering with ICC prior to installation.

Lighting supplied directly from the overhead network shall remain Rate 2.

PROJECT DOCUMENTATION REQUIREMENTS

Update all project documentation to be accurate and up to date for the as built installation.

All street light project documentation shall be provided in an agreed electronic format. The agreed electronic format shall allow the electronic transfer of all geospatial and all database information to the Ipswich City Council.

The unmetered rate 3 street light information shall also be made available to the distribution network service provider.

Provide full tabulated equipment schedules for streetlights, cables and equipment for the project.

All project documentation shall reference the following:

- ICC Public Lighting Standard Drawings (SL series)
- ICC Planning Scheme Policy
- Energex Public Lighting Standard Conditions for Public Lighting Services
- Qld Public Lighting Design Manual (RED00767)
- Qld Public Lighting Construction Manual (RED00796)
- AS/NZS3000 Wiring Rules
- AS/NZS1158 Lighting for Roads & Public Spaces
- Manufacturer's installation requirements

Completion of the construction certificate for streetlights is required for the Ipswich City Council.

EQUIPMENT REQUIREMENTS

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- AS/NZS 1158
- AS/NZS 2053
- AS/NZS 3000
- AS/NZS 3008
- QLD ELECTRICAL SAFETY ACT

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ENERGEX NOTES

1. Green 3' and "W" Site Identification Numbers (stickers), as per Energex drawings 1-3-6.1 and 1-3-62.2 for the Rate 3 Streetlight Poles, will be allocated upon written request to Energex. Please contact the Energex Subdivision and Street Lighting Department to arrange for collection of the stickers. Please email a request to subdivision@energex.com.au
2. An EWR is required for each Rate 3 supply point to advise Energex that the project is ready for connection to supply or alteration to a Point of Supply. The Rate 3 lighting shall not be connected to supply by the electrical contractor.
3. The Electrical contractor shall forward a full set of "As Constructed" drawings (signed & dated by the Electrical Contractor) to Energex's Subdivision & Streetlight Department when construction of the Rate 3 installation is completed. A copy of these "As Constructed" drawings is required to be located onsite in each switchboard for collection by Energex or the Rate 3 Installation will not be connected to supply.
4. Energex will commence billing for all the Rate 3 lights, shown on the works plan as connected to the switchboard, from the date that the switchboard is connected to supply.

AS CONSTRUCTED
 Garry Edwards Date: 29/10/19
 INZ ELECTRICAL SERVICES PTY LTD
 97 ZILLMERE ROAD
 BOONDALL 4034 QLD
 PH 3865 2122 FAX 3865 4475

APPROVED FOR CONSTRUCTION

DRAWING INDEX	
A18132-1	ELECTRICAL RETICULATION SITE PLAN
A18132-2	ELECTRICAL SCHEMATICS & LABELS
A18132-3	ELECTRICAL RETICULATION - SCHEDULES
L18143-1	RATE 3 STREETLIGHTING
T18132-1	TELECOMMUNICATION CABLE PROVISIONING SHEET 1



ISSUE	REVISION	BY	DATE	NOTES
A	Initial Design	av	18.12.18	
B	Amendments as per ICC	av	11.02.19	

NOTES
 This Work Plan is to be constructed in compliance with Energex documents:
 • Overhead Construction Manual
 • Underground Distribution Construction Manual
 • Public Lighting Construction Manual
 • Network Labelling and Signage Manual
 The Construction Contractor is to manage this project and submit 'As Constructed' drawings and the Certificate of Completion to Energex.
CROSS ROAD CONDUITS
 Unless specified the Civil Contractor will install all cross road conduits.

EARTHING
 Earthing is to be carried out in accordance with Energex requirements.
TELECOMMUNICATION INSTALLATION
 Telecommunication conduits to be laid in shared trenches with electricity conduits. The Civil Electrical Construction Contractor is to notify the Telstra Contractor one week prior to installation of cross road conduits and two days prior to installation of footpath conduits for Telstra Pit and Pipe designs.
FIRE ANTS
 The Construction Contractor is to confirm if this work site is within a Fire Ant Restricted Area. For work sites within a Fire Ant Restricted area the Contractor must comply with a DPI Approved Risk Management Plan.

UNDERGROUND SERVICES IDENTIFICATION
 WORK CREWS TO CONFIRM LOCATION OF ALL EXISTING SERVICES PRIOR TO EXCAVATION - ANY SERVICES SHOWN ARE INDICATIVE ONLY

ALIGNMENTS		APPROVED ON BEHALF OF AMPFLO PTY LTD	
ENERGEX OH	N/A	DESIGNED	A. Vihnal
ENERGEX UG	0 - 0.9m	CHECKED	C. Radu
STREET LIGHTS	0.95 BIK	DATE	December 2018
SCALE		1 : 750 (A1)	
Do not scale from this drawing - use only the dimensions provided			

COUNCIL REFERENCE
 IPSWICH CITY: 2558/2014/CA
 CIVIL ENGINEER
 Peak Urban
 Ph. 5413 5300
 SURVEYOR
 SAUNDERS HAVILL GROUP
 saundershavill.com

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PROJECT
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