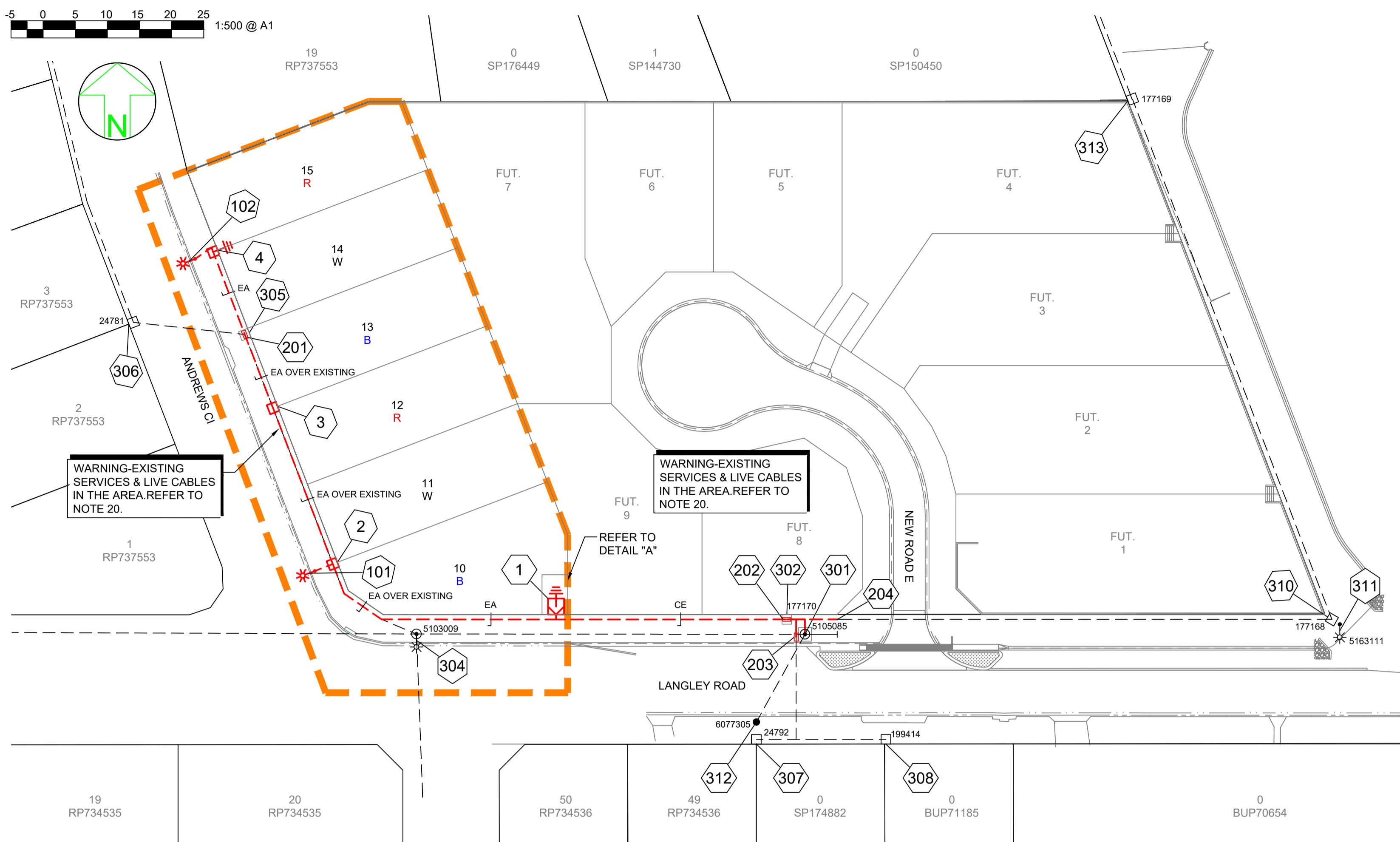


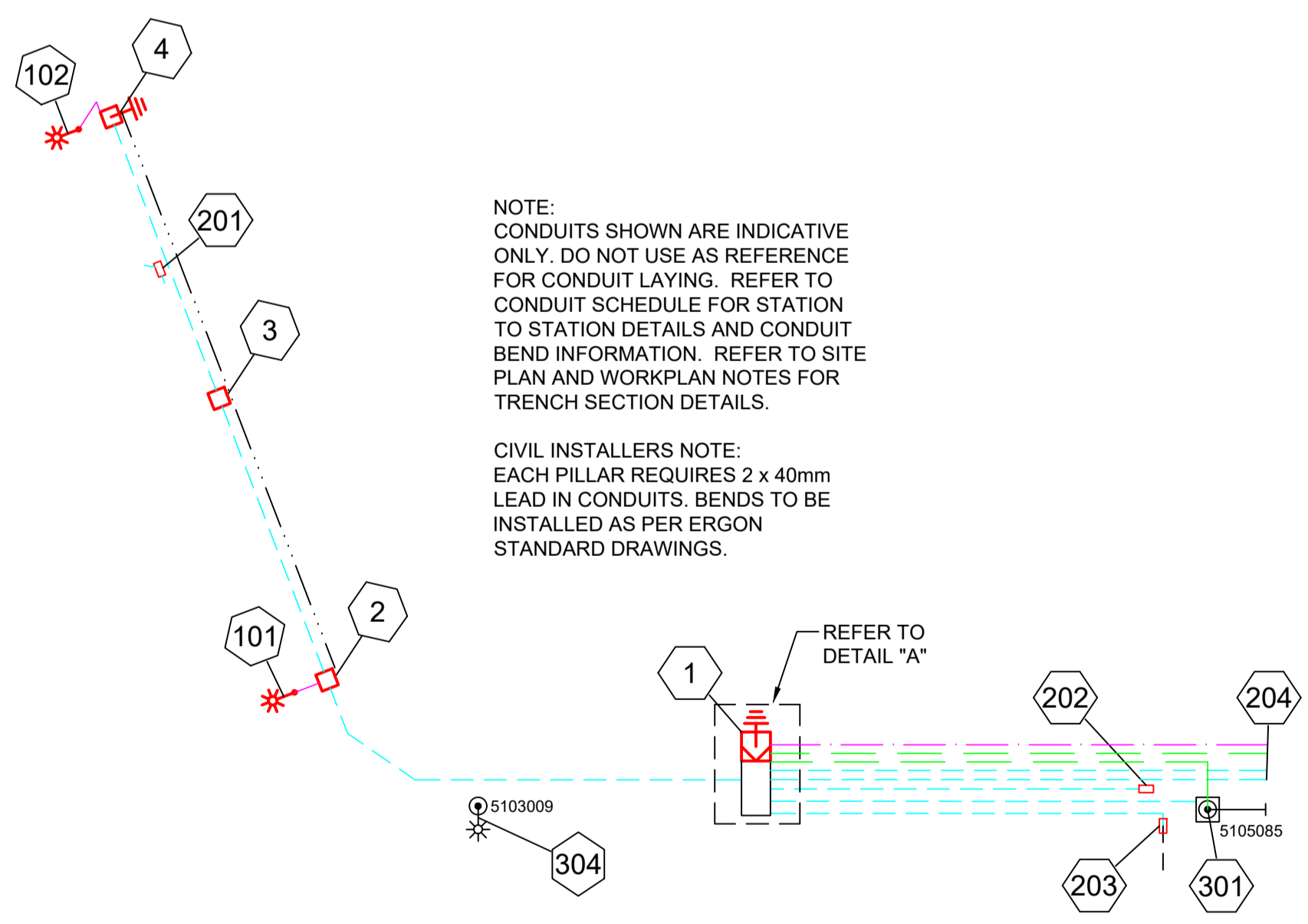
SITE PLAN



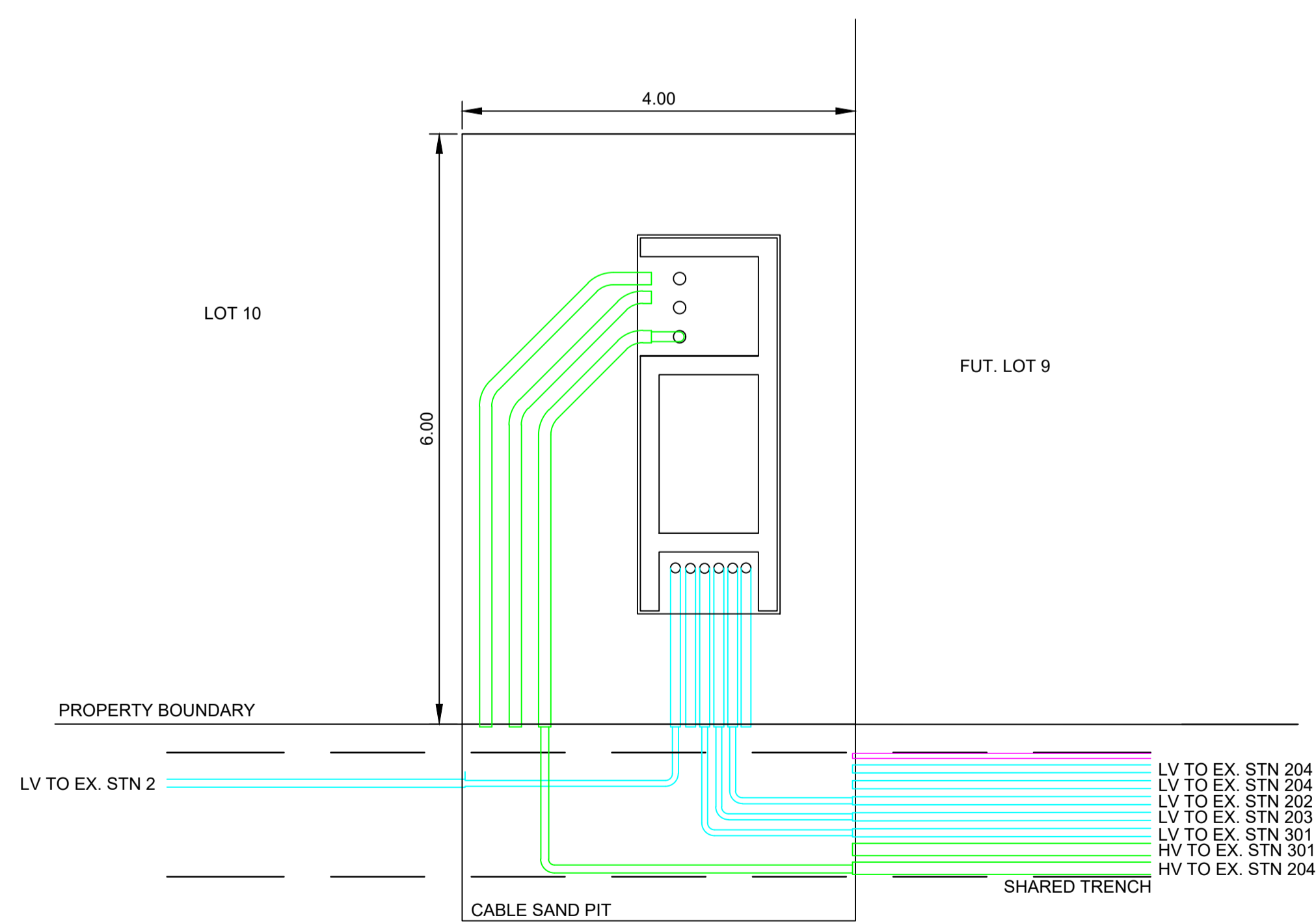
WORKPLAN NOTES

- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5168.
- POLYMERIC COVER TO BE INSTALLED OVER CONDUITS OUTSIDE NORMAL ERGON ALIGNMENT AS PER ERGON DRAWING. 5022-1 AND 5124-1 & 2.
- STANDARD TRENCH ALIGNMENT IS 0.3 TO 1.2 METRES OFF PROPERTY ALIGNMENT SUBJECT TO LOCATION OF OTHER SERVICES. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5228.
- STREETLIGHT POLE FOOTINGS SHALL BE LOCATED PERPENDICULAR TO THE KERB AND SQUARE FROM THE FRONT BOUNDARY PEG ENSURING NO CONFLICT WITH FUTURE DRIVEWAYS, UNLESS DETAILED OTHERWISE. WHERE DIMENSIONS ARE SHOWN, THEY TAKE PRECEDENCE OVER GRID COORDINATES.
- ALL CONDUITS SHALL BE CONTINUOUS UNLESS DETAILED OTHERWISE.
- REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5162 FOR CONDUIT BEND DETAILS AT PILLARS.
- FOR STANDARD UDC CONSTRUCTION PRACTICES REFER TO DRAWINGS 5022, 5085 AND 5124.
- INSTALLATION OF PADMOUNT SUBSTATION REQUIRED IN ROAD RESERVE ADJACENT LOT 10, STATION 1. PADMOUNT SITE IS TO BE 6.0m x 4.0m. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5114. REFER TO DETAIL 'A'.
- DEVELOPER SHALL INSTALL PLINTH AND PAVED CUTOUT AREA. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS SUBSTATIONS 5274 & 5276.
- INSTALL PADMOUNTED SUBSTATION EARTHING - COMMON EARTH ARRANGEMENT. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5123.
- THERE ARE 2 x 17W LED SYLVANIA STREET, AEROSCREEN MINOR ROAD ON RATE 2.
- STREETLIGHT DESIGN TO AS1158 CATEGORY P4.
- MINOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 1200mm FOR MINOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-6-4-1 & 2. FOR ALL FOOTPATHS, CENTRELINE OF STREETLIGHT SHALL BE 0.82m FROM THE INVERT OF KERB AND CHANNEL. WHERE THE ROAD IS UN-KERBED OR THERE IS A FLUSH KERB, CENTRELINE OF STREETLIGHT SHALL BE 1.3m FROM THE OUTER EDGE OF THE BITUMEN.
- THE LIGHTING DESIGN INCLUDES AN ALLOWANCE FOR CONSTRUCTION TOLERANCE OF LIGHT POLES SUCH THAT ANY STREETLIGHT CAN BE POSITIONED UP TO A MAXIMUM OF ±350mm LONGITUDINALLY FROM THE POSITION SHOWN AND UP TO 100mm MAXIMUM FURTHER AWAY FROM KERB EDGE, INCLUDING POLES WITH GRID COORDINATES, AND STILL MAINTAIN COMPLIANCE.
- CONFIRM ALL CONDUIT AND CABLE LENGTHS PRIOR TO INSTALLATION.
- WHERE SHOWN, 35mm sq ANNEALED BARE Cu EARTH SHALL BE INSTALLED AT BOTTOM OF TRENCH, IN NATURAL SOIL. BELOW BEDDING SAND, LOCATED A MINIMUM OF 50mm HORIZONTALLY TOWARDS PROPERTY BOUNDARY FROM CONDUITS (HV OR LV) INSTALLED ON PROPERTY BOUNDARY SIDE OF TRENCH. COIL 2m OF CABLE AT SPECIFIED STATIONS IN THE CONDUIT DUCTING SCHEDULE AND ALL REQUIRED JOINTS FOR CONNECTION BY ELECTRICAL CONTRACTOR. THE USE OF THE EARTH ROD CONNECTOR (U-BOLT, IIN. 0719437) IS NOT ACCEPTABLE FOR CONDUCTOR / CABLE TO CONDUCTOR / CABLE CONNECTIONS. IN ADDITION PARALLEL GROOVE CLAMPS ARE NOT ACCEPTABLE FOR JOINING OR CONNECTING EARTHS BELOW GROUND LEVEL. ACCEPTABLE METHODS SHALL BE EITHER A CRIMP LINK OR A 'C' TYPE COMPRESSION CONNECTOR. CRIMP LINKS AND 'C' TYPE COMPRESSION CONNECTORS ARE AVAILABLE FROM ERGON ENERGY STORES IIN. 0157746 AND IIN. 2406222 RESPECTIVELY.
- IN ACCORDANCE WITH ELECTRICAL SAFETY ACT, A SAFETY OBSERVER MUST BE PRESENT AT ALL TIMES WHEN WORKING IN THE VICINITY OF ENERGISED CABLES. CONTACT ERGON ENERGY ON 131046.
- ELECTRONIC CABLE MARKERS (ECMS) ARE TO BE SUPPLIED AND INSTALLED AT ENDS OF ALL SPARE CONDUITS INCLUDING (SPARE ROAD CROSSINGS, CONDUIT STUBS, FOR FUTURE STAGES, SPARE CONDUITS FOR FUTURE HV, ETC) AND AT ALL CABLE JOINTS. REFER TO ERGON STANDARD SPECIFICATIONS RSC07, RSC08, & RSM02.
- ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
- WARNING:** LIVE CABLES AND EXISTING SERVICES IN AREA. CONTRACTOR TO USE POT HOLING, HYDRO-VAC EXCAVATION AND CABLE LOCATION WHEN INSTALLING NEW INFRASTRUCTURE.
- ERGON WORKS:
 - ERGON ENERGY TO CUT INTO EXISTING LV CABLE AT STN 203 BETWEEN STN 301 (5105085) TO STN 307 (24792) AND CONNECT TO THE NEW COILED CABLE FED FROM SUBSTATION 1.
 - ERGON ENERGY TO RECOVER EXISTING PILLAR STN 302 (177170), CONNECTING THE EXISTING CABLE AT STN 202 FROM STN 310 (177168) TO THE NEW COILED CABLE FED FROM SUBSTATION 1.
 - ERGON ENERGY TO RECOVER EXISTING PILLAR AT STN 305 AND CONNECT CABLES VIA A NEW UNDERGROUND CABLE JOINT AT STN 201 TO EXISTING 4x1C 300mm² Al/XLAl/PVC.
 - ERGON ENERGY TO RECOVER EXISTING 315kVA POLE MOUNTED TRANSFORMER AT STN 301 (5105085).
 - ERGON ENERGY TO RECOVER LV CABLE & TERMINATION BETWEEN STN 301 TO STN 202.
 - ERGON ENERGY TO RECOVER LV CABLE & TERMINATION BETWEEN STN 301 TO STN 203.
 - ERGON ENERGY TO INSTALL HV CABLE TERMINATION BETWEEN STN 1 TO STN 301.
 - ERGON ENERGY TO INSTALL LV CABLE TERMINATION BETWEEN STN 1 TO 301.

CONDUIT SCHEMATIC



DETAIL "A" - SUBSTATION 1



SPA LIGHTING DESIGN COMPLIANCE CERTIFICATE

THIS LIGHTING DESIGN COMPLIES GENERALLY WITH THE NOMINATED CATEGORIES OF AS1158 FOR RATE 1 AND RATE 2 LUMINAIRES.

NAME: JANE ERREY TITLE: SENIOR ELECTRICAL ENGINEER
RPEQ: 6863

LIGHTING CATEGORIES: CATEGORY P4
LOCAL COUNCIL: DOUGLAS SHIRE COUNCIL

MAINTENANCE FACTOR: 0.75

THE DESIGN ASSUMES MAINTENANCE FACTORS OF 0.75 FOR MINOR ROAD LIGHTING AND 0.75 FOR MAJOR ROAD LIGHTING. THESE MAINTENANCE FACTORS ARE BASED ON THE FOLLOWING MAINTENANCE SCHEDULE, WHICH MIGHT NOT NECESSARILY BE ADOPTED BY ERGON.

- LAMPS SHALL BE REPLACED AT 36- MONTH INTERVALS.
- ALL THAT TIME, LUMINAIRES SHALL BE CLEANED, INSPECTED AND MAINTAINED.
- VEGETATION SHALL BE KEPT CLEAR OF STREET LIGHTS.
- INSPECTION PATROLS AND SPOT LAMP REPLACEMENT SHALL MAINTAIN SERVICE AVAILABILITY AT NO LESS THAN 95%.
- LUMINAIRES AND LAMPS SHALL BE REPLACED WITH EXACT EQUIVALENTS.

ALL LIGHTING CALCULATIONS ARE AVAILABLE UPON REQUEST.

FOR LIGHTING ARRANGEMENT, SPACINGS, MOUNTING HEIGHTS, OUTREACH DETAILS AND SIGNIFICANT ROAD FEATURES, REFER TO DRAWING.

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

ELECTRICAL CONTRACTOR

NAME: _____
SIGNATURE: _____
DATE: _____

CIVIL CONTRACTOR

NAME: _____
SIGNATURE: _____
DATE: _____

Code	Date	Description	Revised	Code	Date	Description	Revised
A	20/05/20	FOR CONSTRUCTION		TM			

CLIENT: SEYMOUR GROUP

LEVEL 24, 300 QUEEN STREET
BRISBANE, QLD 4000
Ph. 0438882024 Fax

CIVIL ENGINEER
GHD PTY LTD (CAIRNS)

85 SPENCE STREET
CAIRNS, QLD 4870
Ph 040442261 Fax

spa
consulting engineers

Simon Perkins & Associates

Tel: (07) 4032 3311 Fax: (07) 4032 5633
PO Box 664 North Cairns QLD 4870
Email Address - admin@spaconsulting.com.au
A business unit of SPA Consulting Engineers (020) Pty Ltd a/c. 015844616

LEGEND

--- CABLE EXISTING	□ SUBSTATION	□ COMMERCIAL/ INDUSTRIAL PILLAR
--- CABLE PLANNED	✓ HV ISOLATING DEVICE	□ DISTRIBUTION CABINET
--- CABLE RECOVER	LV ISOLATING DEVICE	✱ STREETLIGHT
--- EQUIPMENT EXISTING	□ NORMAL PILLAR	⊥ EARTH
--- EQUIPMENT RECOVER	□ CROSS ROAD PILLAR	○ POLE
--- LIGHTING DUCT	□ LINKING PILLAR	□ CABLE JOINT
--- 35mm sq ANNEALED BARE COPPER EARTH		

Drawing Title	Date	JANUARY 2020
LANGLEY RD & ANDREW CI STAGE 1 UDC UG ELECTRICAL RETICULATION SITE PLAN & CONDUIT SCHEMATIC AND DETAIL A	Scale	1:500 @A1
	Drawn	TM
	RPEQ Design Certification	Jane Errey 6863
	Sheet	1 OF 2
Project Description	ERGON Project Number	SPA Drawing Number
LANGLEY ROAD, PORT DOUGLAS, QLD	WR1537708	3205-E01
		Revision
		A

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
1				INSTALL	EARTH	E PM22/COM	5123		
1				INSTALL	HV CABLE TERMINATION	22 CTC/RM6/185T	5279		INSTALL HV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 304.
1				INSTALL	LV CABLE TERMINATION	LV CT PM22/240	5087		INSTALL LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 2.
1				INSTALL	LV CABLE TERMINATION	LV CT PM22/240	5087		INSTALL LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 202.
1				INSTALL	LV CABLE TERMINATION	LV CT PM22/240	5087		INSTALL LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 203.
1				INSTALL	LV CABLE TERMINATION	LV CT PM22/240	5087		INSTALL LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
1				INSTALL	SUBSTATION FOUNDATION	PMRF 22/41/8	5118		REFER TO NOTE 8.
1				INSTALL	SUBSTATION INC HV SWITCHGEAR	PMR 22/5/41 RM6 21	590		REFER TO DETAIL 'A'
2				INSTALL	PILLAR	LV PN2/6S/240/N	5026		
3				INSTALL	PILLAR	LV PN2/6/240/N	5026		
4				INSTALL	EARTH	E MEN/PIL	5085		
4				INSTALL	PILLAR	LV PN1/6S/240/N	5025		
101				INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		
102				INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		
201				INSTALL - ERGON	CABLE JOINT	LV-CJS240C4	5073		REFER TO NOTE 21.
202				INSTALL	CABLE JOINT	LV-CJS240C4	5073		REFER TO NOTE 21.
203				INSTALL	CABLE JOINT	LV-CJS240C4	5073		REFER TO NOTE 21.
301				INSTALL - ERGON	HV CABLE TERMINATION	22 CT P/185T/P	5076		ERGON TO INSTALL HV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
301				RECOVER - ERGON	LV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
301				INSTALL - ERGON	LV CABLE TERMINATION	LV CT P/240/P/AL	5056		ERGON ENERGY TO INSTALL LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
301				RECOVER - ERGON	LV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING LV TERMINATION FOR CABLE BETWEEN STN 301 TO STN 302.
301	5105085			EXISTING	POLE				
301	5105085			RECOVER - ERGON	POLE MOUNTED TRANSFORMER				REFER TO NOTE 21.
302	177170			RECOVER - ERGON	PILLAR				ERGON ENERGY TO RECOVER EXISTING PILLAR. REFER TO NOTE 21.
304	5103009			EXISTING	POLE				
304	5103009			EXISTING	WOOD POLE BRACKET				
305				RECOVER - ERGON	PILLAR				ERGON ENERGY TO RECOVER EXISTING PILLAR. REFER TO NOTE 21.
306	24781			EXISTING	PILLAR				
307	24782			EXISTING	PILLAR				
308	199414			EXISTING	PILLAR				
310	177168			EXISTING	PILLAR				
311	5163111			EXISTING	POLE				
311	5163111			EXISTING	WOOD POLE BRACKET				
312	6077305			EXISTING	POLE				
313	177169			EXISTING	PILLAR				

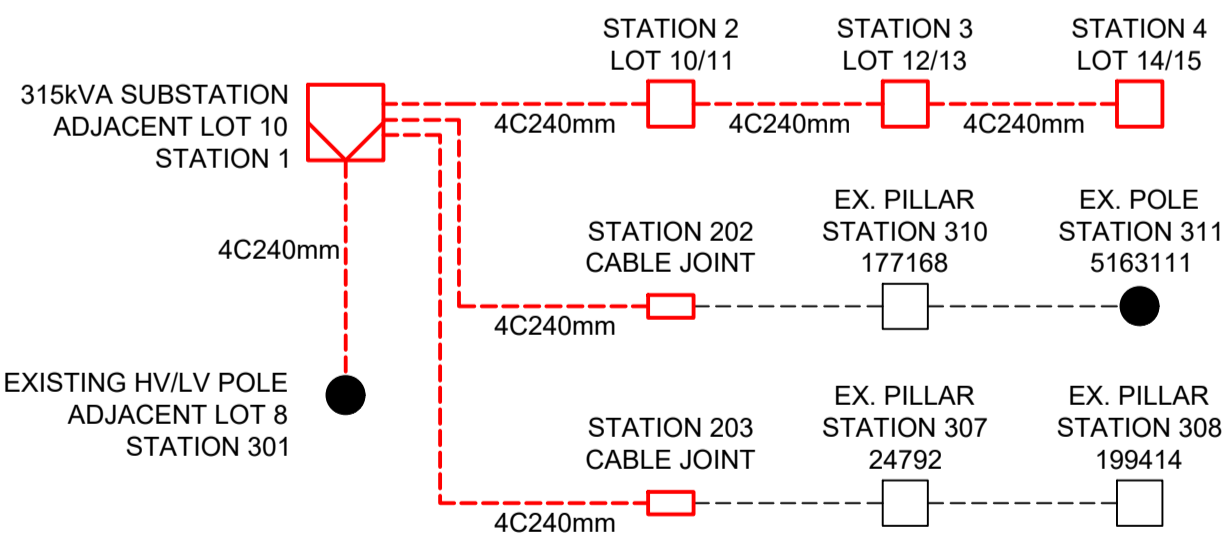
STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	REMARKS
1	1	INSTALL - CIVIL	C125L	1	0.2	90/1000x3 60/1000x3 45/1000x2	
1	1	INSTALL - CIVIL	C100L	1	0.2	90/1000x6	
1	2	INSTALL - CIVIL	C80L	42	7.0	45/1830x3	
1	202	INSTALL - CIVIL	C80L	36	6.0		
1	203	INSTALL - CIVIL	C80L	40	6.7		
1	204	INSTALL - CIVIL	C80L	44	7.3		CAP CONDUIT AT STN 204.
1	204	INSTALL - CIVIL	C80L	44	7.3		CAP CONDUIT AT STN 204.
1	204	INSTALL - CIVIL	C40H	44	11.0		CAP CONDUIT AT STN 204.
1	204	INSTALL - CIVIL	C125L	45	7.5		CAP CONDUIT AT STN 204.
1	301	INSTALL - CIVIL	C80L	40	6.7		CAP CONDUIT 1M FROM BASE OF STN 301.
1	301	INSTALL - CIVIL	C125L	45	7.5	45/1830x2	CAP CONDUIT 1M FROM BASE OF STN 301.
2	3	INSTALL - CIVIL	C80L	26	4.3	45/1830x2	
2	4	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	52	0.2		COIL 2M OF CABLE AT STN 4 FOR CONNECTION BY ELECTRICAL CONTRACTOR LEAVE AT BOTTOM OF TRENCH AT STN 2.
2	101	INSTALL - CIVIL	C40H	9	2.3	90/300x2	
3	4	INSTALL - CIVIL	C80L	26	4.3	45/1830x2	
4	102	INSTALL - CIVIL	C40H	9	2.3	90/300x2 90/600x1	ADDITIONAL BEND TO AVOID NBN PIT.

STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
1	2	INSTALL	415V	LV-240C4/673	42	46	
1	202	INSTALL	415V	LV-240C4/673	36	48	COIL CABLE AT STN 202 FOR CONNECTION BY ERGON ENERGY. REFER TO NOTE 21.
1	203	INSTALL	415V	LV-240C4/673	40	52	COIL CABLE AT STN 203 FOR CONNECTION BY ERGON ENERGY. REFER TO NOTE 21.
1	301	INSTALL	22kV	22-185T/1834	45	70	COIL CABLE AT STN 301 FOR CONNECTION BY ERGON ENERGY.
1	301	INSTALL	415V	LV-240C4/673	40	65	COIL CABLE AT STN 301 FOR CONNECTION BY ERGON ENERGY.
2	3	INSTALL	415V	LV-240C4/673	26	30	
2	101	INSTALL	240V	LVI-4CU2NS/1671	9	14	
3	4	INSTALL	415V	LV-240C4/673	26	30	
4	102	INSTALL	240V	LVI-4CU2NS/1671	9	14	
301	203	RECOVER - ERGON	415V	LV-240C4/673	6	23	ERGON ENERGY TO RECOVER CABLE BETWEEN STN 301 & STN 203. REFER TO NOTE 21.
301	302	RECOVER - ERGON	415V	LV-240C4/673	6	23	ERGON ENERGY TO RECOVER CABLE BETWEEN STN 301 & STN 302. REFER TO NOTE 21.

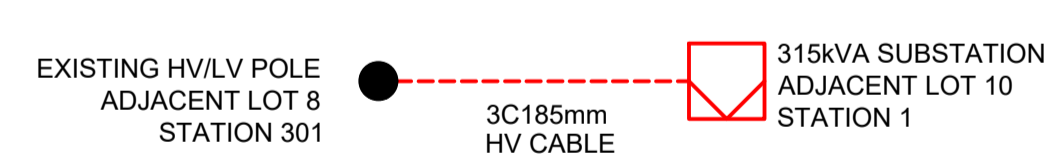
STN NO	SITE LABEL	ACTION	CONSTRUCTION CODE	RATE	TARIFF OWNER	MOUNTING HEIGHT (m)	REMARKS
101		INSTALL	SLED GL 0167 N	RATE 2	DSC	7.5	
102		INSTALL	SLED GL 0167 N	RATE 2	DSC	7.5	
304	5103009	EXISTING					
311	5163111	EXISTING					

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
201				INSTALL - ERGON	CABLE JOINT	LV-CJS240C4	5073		REFER TO NOTE 21.
202				INSTALL - ERGON	CABLE JOINT	LV-CJS240C4	5073		REFER TO NOTE 21.
203				INSTALL - ERGON	CABLE JOINT	LV-CJS240C4	5073		REFER TO NOTE 21.
301				INSTALL - ERGON	HV CABLE TERMINATION	22 CT P/185T/P	5076		ERGON TO INSTALL HV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
301				RECOVER - ERGON	LV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING LV TERMINATION FOR CABLE BETWEEN STN 301 TO STN 302.
301				INSTALL - ERGON	LV CABLE TERMINATION	LV CT P/240/P/AL	5056		ERGON ENERGY TO INSTALL LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
301				RECOVER - ERGON	LV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING LV TERMINATION FOR CABLE BETWEEN STN 1 TO STN 301.
301	5105085			RECOVER - ERGON	POLE MOUNTED TRANSFORMER				REFER TO NOTE 21.
302	177170			RECOVER - ERGON	PILLAR				ERGON ENERGY TO RECOVER EXISTING PILLAR. REFER TO NOTE 21.
305				RECOVER - ERGON	PILLAR				ERGON ENERGY TO RECOVER EXISTING PILLAR. REFER TO NOTE 21.

LV SCHEMATIC



HV SCHEMATIC



FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

ELECTRICAL CONTRACTOR
 NAME: _____
 SIGNATURE: _____
 DATE: _____

CIVIL CONTRACTOR
 NAME: _____
 SIGNATURE: _____
 DATE: _____

Code	Date	Description	Revised	Code	Date	Description	Revised
A	20/05/20	FOR CONSTRUCTION		TM			

CLIENT: SEYMOUR GROUP
 LEVEL 24, 300 QUEEN STREET
 BRISBANE, QLD 4000
 Ph. 0438882024 Fax
 CIVIL ENGINEER
 GHD PTY LTD (CAIRNS)
 85 SPENCE STREET
 CAIRNS, QLD 4870
 Ph 040442261 Fax



LEGEND	---	□	□
♦♦♦ ZERO LOT BOUNDARY	--- CABLE EXISTING	□ SUBSTATION	□ COMMERCIAL/ INDUSTRIAL PILLAR
--- HV DUCT	--- CABLE PLANNED	✓ HV ISOLATING DEVICE	□ DISTRIBUTION CABINET
--- LV DUCT	--- CABLE RECOVER	LV ISOLATING DEVICE	☼ STREETLIGHT
--- LIGHTING DUCT	--- EQUIPMENT EXISTING	□ NORMAL PILLAR	⊥ EARTH
--- 35mm sq ANNEALED BARE COPPER EARTH	--- EQUIPMENT RECOVER	□ CROSS ROAD PILLAR	○ POLE
	--- EQUIPMENT PLANNED	□ LINKING PILLAR	□ CABLE JOINT

Drawing Title	Date	Scale	Drawn	RPEQ Design Certification	Sheet	Project Description	ERGON Project Number	SPA Drawing Number	Revision
LANGLEY RD & ANDREW CI STAGE 1 UDC UG ELECTRICAL RETICULATION SCHEMATICS, DETAIL "A" & SCHEDULES AND ERGON WORKS SCHEDULE	JANUARY 2020	NTS	TM	Jane Errey 6863	2 OF 2	LANGLEY ROAD, PORT DOUGLAS, QLD	WR1537708	3205-E02	A

STANDARD DESIGN NOTES:

- THERE ARE A TOTAL OF 6 SINGLE RESIDENTIAL DWELLINGS.
- REFER TO SPA DRAWING 3205-E01-E02. FOR COORDINATION WITH THE ELECTRICAL DESIGN.

LEGEND

PIT-ID 2	NBN Co PIT TYPE 2 PLASTIC PIT OR SIMILAR	ZERO LOT PROPERTY BOUNDARY
PIT-ID 5	NBN Co PIT TYPE 5 PLASTIC PIT OR SIMILAR	SHARED TRENCH
PIT-ID 6	NBN Co PIT TYPE 6 PLASTIC PIT OR SIMILAR	TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER
PIT-ID 8	NBN Co PIT TYPE 8 PLASTIC PIT OR SIMILAR	END CAP CONDUIT WITH STATION NO.
5	EXISTING TELSTRA PIT (2,3,4,5,6,7,8,9)	CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNCo SERVICE CONDUIT
PIT-ID 8	EXISTING NBN Co PIT	LOCAL CONDUIT (P100/P50)
	EXISTING CONDUIT	NBNCo STAGE BOUNDARY

SDU Development Information

Development Name:
LANGLEY ROAD & ANDREWS CLOSE SUBDIVISION

Developer Company:
SEYMOUR GROUP

Development Address:
20-30 LANGLEY ROAD, PORT DOUGLAS 4877

Authorised Rep:
TIMOTHY MATTHEWS

Phone: 07 4728 3026

E-Mail: TIM@SPACONSULTING.COM.AU

nbn Reference Number: STG - W000114372

Stage Number: 1

Design Revision: 1

CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:
< L460 NBN Support - Underground >
AND TERMINOLOGY CATEGORISED INTO TWO GROUPS IN
THE DRAWINGS AS PER BELOW:

1- DUCT USED WITH LOCAL NETWORK
2- CONDUIT USED WITH LEAD-IN DROPS

ATTRIBUTES ATTACHED TO CONDUITS ARE AS SHOWN

NOTE:

- P100 HAS AN INTERNAL DIAMETER OF 104.9 mm AND A MINIMUM WALL THICKNESS OF 4.5 mm
- P50 HAS AN INTERNAL DIAMETER OF 53 mm AND A MINIMUM WALL THICKNESS OF 3.1 mm
- P20 HAS AN INTERNAL DIAMETER OF 23.3 mm AND A MINIMUM WALL THICKNESS OF 1.4 mm

BILL OF MATERIAL

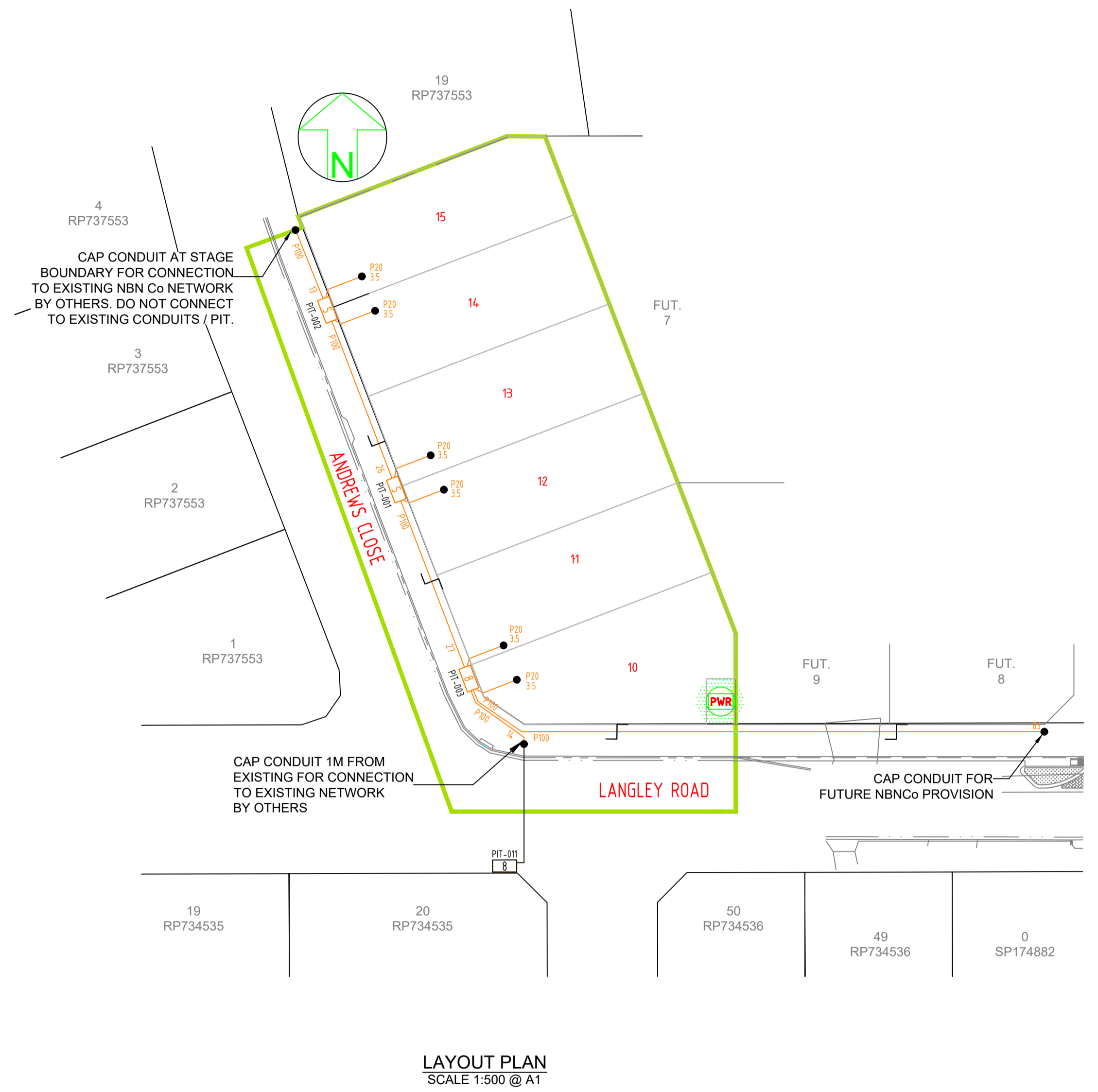
NO OF LOTS: 6

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	5	163
5	2	P50	0	0
6	0	P20	6	21
8	1			
9	0			

TOTAL NUMBER OF PITS: 3
 TOTAL NUMBER OF MANHOLES: 0
 TOTAL NUMBER OF CONDUITS: 11
 TOTAL LENGTH OF CONDUITS: 184

STANDARD CONSTRUCTION NOTES:

- REFER TO NBN Co DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBN Co CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED CONSTRUCTION SPECIFICATION.
- MULTIPLE 15° CONDUIT BENDS TO BE USED TO SWING IN AND OUT OF THE STANDARD TRENCH ALIGNMENT AND ENTER THE NARROW ENDS OF THE PIT.
- PITS TO INCLUDE LID GASKET TO PREVENT DIRT ENTRY AND SPREADER BARS TO PREVENT PIT BUCKLING DURING BACKFILL / GROUND COMPACTION. PIT LIDS TO BE EMBOSSED WITH "NBN" AND COMPLY AS PER CLAUSE 5.3.2 OF THE ABOVE NBN Co DOCUMENT.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY. REFER EXTENDED SERVICE CONDUIT DETAIL FOR DISTANCES FROM DIVIDING PROPERTY BOUNDARY FOR BOUNDARIES WITHOUT PIT. CONTRACTORS TO TIE TELECOMMUNICATIONS CAUTION TAPE TO END OF SERVICE CONDUITS AND EXTEND TO ABOVE GROUND LEVEL FOR FUTURE CONDUIT LOCATION.
- ALL CONDUITS TO ENTER AND EXIT AT NARROW ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. CONDUITS SHALL NOT BE INSTALLED WITHIN 50 mm OF ANY CORNER OF THE PIT. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. INSTALL CONDUITS AND CONDUIT COLLARS (BUSHES) TO BE SQUARE AND FLUSH WITH THE PIT END WALL. REFER TO THE PIT END WALL DETAILS IN THIS DESIGN FOR ADDITIONAL REQUIREMENTS.
- MINIMUM COVER TO BE: 300 mm FOR SERVICE DROP CONDUITS, 450 mm IN VERGE, 600 mm UNDER LOCAL ROADS, AND 800 mm UNDER MAIN ROADS.
- CONDUITS ARE TO BE CLEANED AND PROVEN USING A MANDREL. AFTER TESTING INSTALL A SUITABLE DRAW ROPE TO ALL CONDUITS AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE. SERVICE CONDUIT DRAW ROPES TO BE ADDITIONALLY FITTED WITH A PLASTIC LABEL AT PIT END, IDENTIFYING LOT NUMBER AND DISTANCE / DIRECTION FROM BOUNDARY.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBN Co CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL. INSTALL METALLIC KERB MARKERS AT ROAD CROSSINGS.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUITS SHOWN IN THE SITE PLAN.
- WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBN Co DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES, SUPPLY AND INSTALL CONCRETE COVER (FOR VERGE AND FOOTPATH) / CONCRETE ENCASUREMENT (FOR ROADWAYS) ENSURE THAT MINIMUM SEPARATION TO ALL OTHER SERVICES ARE MAINTAINED.
- WHERE SPECIFIED ON THE SITE PLAN, NBN Co CONDUIT TO BE INSTALLED UNDERNEATH STORM WATER. REFER TO THE NBN Co DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES FOR THE MINIMUM CLEARANCES REQUIRED.
- SUPPLY AND INSTALL ADDITIONAL DEVIATING CONDUIT BENDS TO ACHIEVE THE INCREASED / DECREASED BURIAL DEPTH REQUIRED TO AVOID CLASH WITH OTHER SERVICES.



FOR APPROVAL

NOT FOR CONSTRUCTION

SAFETY FIRST
SAFETY STARTS WITH YOU

STAFF WORKING ON THIS ESTIMATE PLEASE NOTE:
The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
1	20/05/20	TM	FOR APPROVAL	JE

STRICTLY CONFIDENTIAL

NBNCo APPROVAL RECORD:

SIGNATURE	DATE
<input type="checkbox"/> DD	_____
<input type="checkbox"/> WD	_____
<input type="checkbox"/> AB	_____

QUALITY RECORD:

NBNCo DISCLAIMER
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KEY PLAN

DRAWING TITLE:
LANGLEY ROAD & ANDREW CLOSE SUBDIVISION
NBNCo PIT AND PIPE DESIGN
LAYOUT PLAN

ENABLE#:

STATE: QLD REGION: DSC

FSA: SAM: ADA:

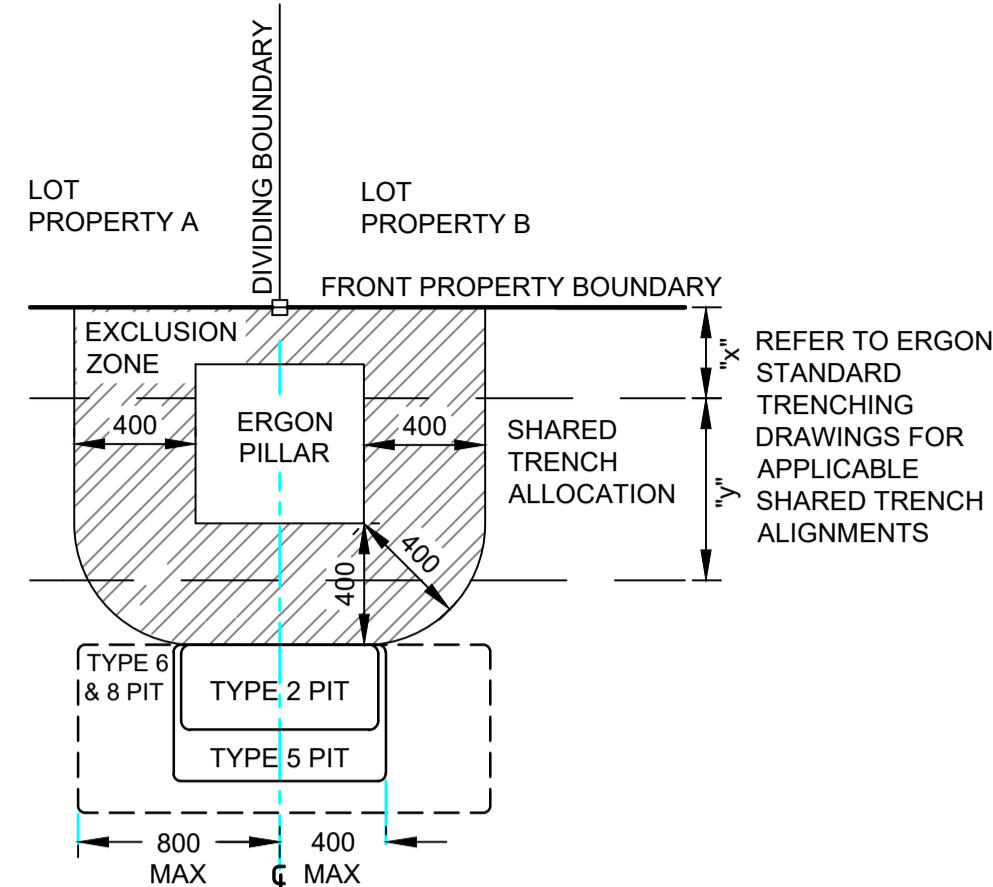
PROJECT No: STG - W000114372

CADREF No: 3205-T01

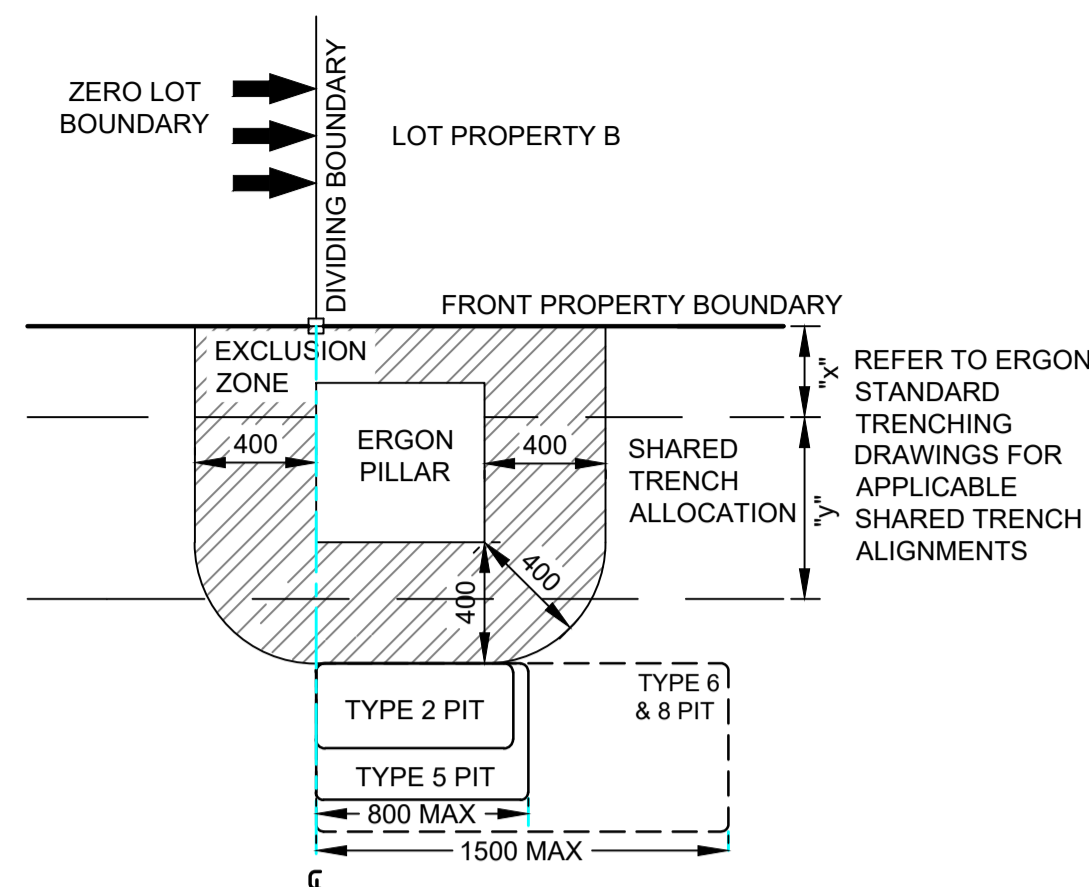
SCALE AS SHOWN SHEET No. 1 OF 2 REV. 1

TYPICAL PIT DETAILS

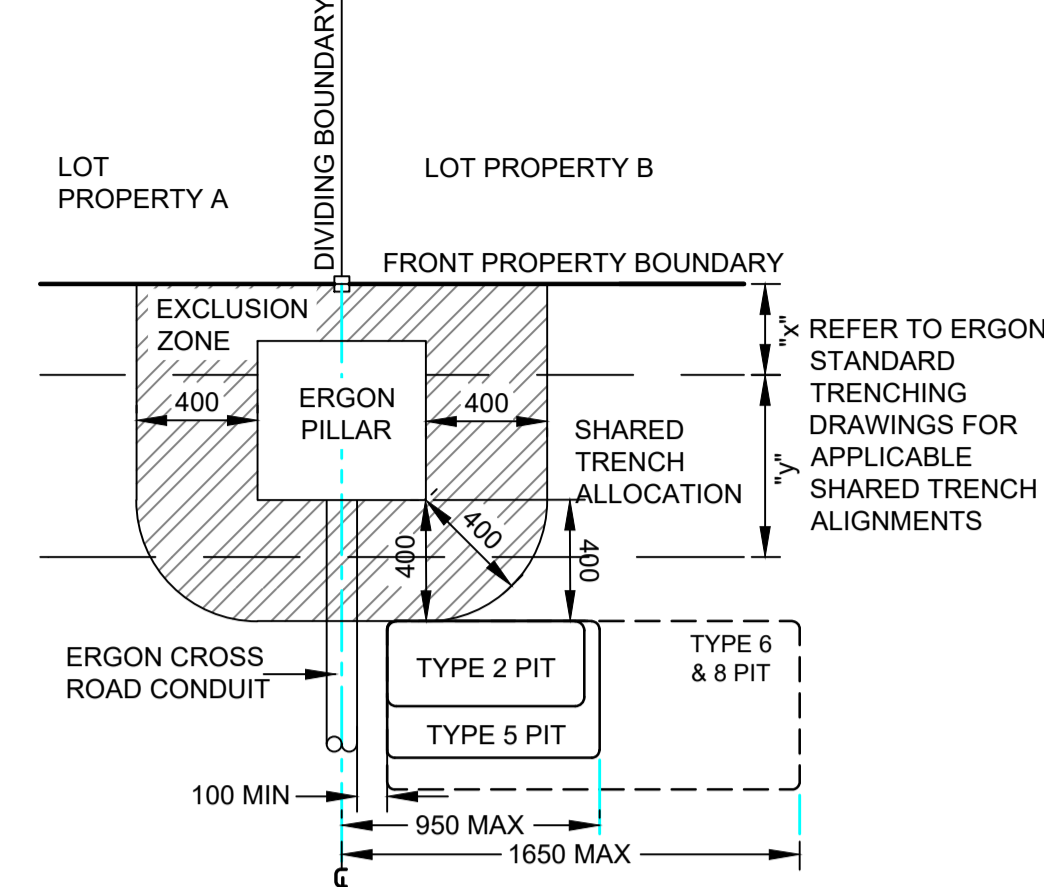
- NOTES:**
- THESE DETAILS REPRESENT TYPICAL PIT CONFIGURATIONS AND THE CONTRACTOR SHALL DETERMINE THE MOST SUITABLE DETAIL FOR EACH PARTICULAR APPLICATION, IGNORING REDUNDANT DETAILS.
 - PITS SHALL BE INSTALLED CLEAR OF DRIVEWAYS AND FUTURE DRIVEWAY LOCATIONS. COORDINATE FINAL LOCATIONS WITH CIVIL DRAWINGS.
 - ENSURE PITS ARE INSTALLED IN ACCORDANCE WITH NBN Co GUIDELINES AND THE FOLLOWING CLEARANCES:
 - A. 100 mm FROM LV / 300 mm FROM HV ELECTRICAL CONDUITS
 - B. 150 mm FROM WATER RETICULATION & 300mm FROM HIGH PRESSURE MAINS
 - C. 150 mm FROM SEWER RETICULATION & 300mm FROM MAINS
 - D. 150 mm FROM STORMWATER RETICULATION
 - E. 100mm FROM OTHER TELECOMMUNICATIONS CARRIERS
 - MIRROR CONFIGURATION WHERE APPROPRIATE



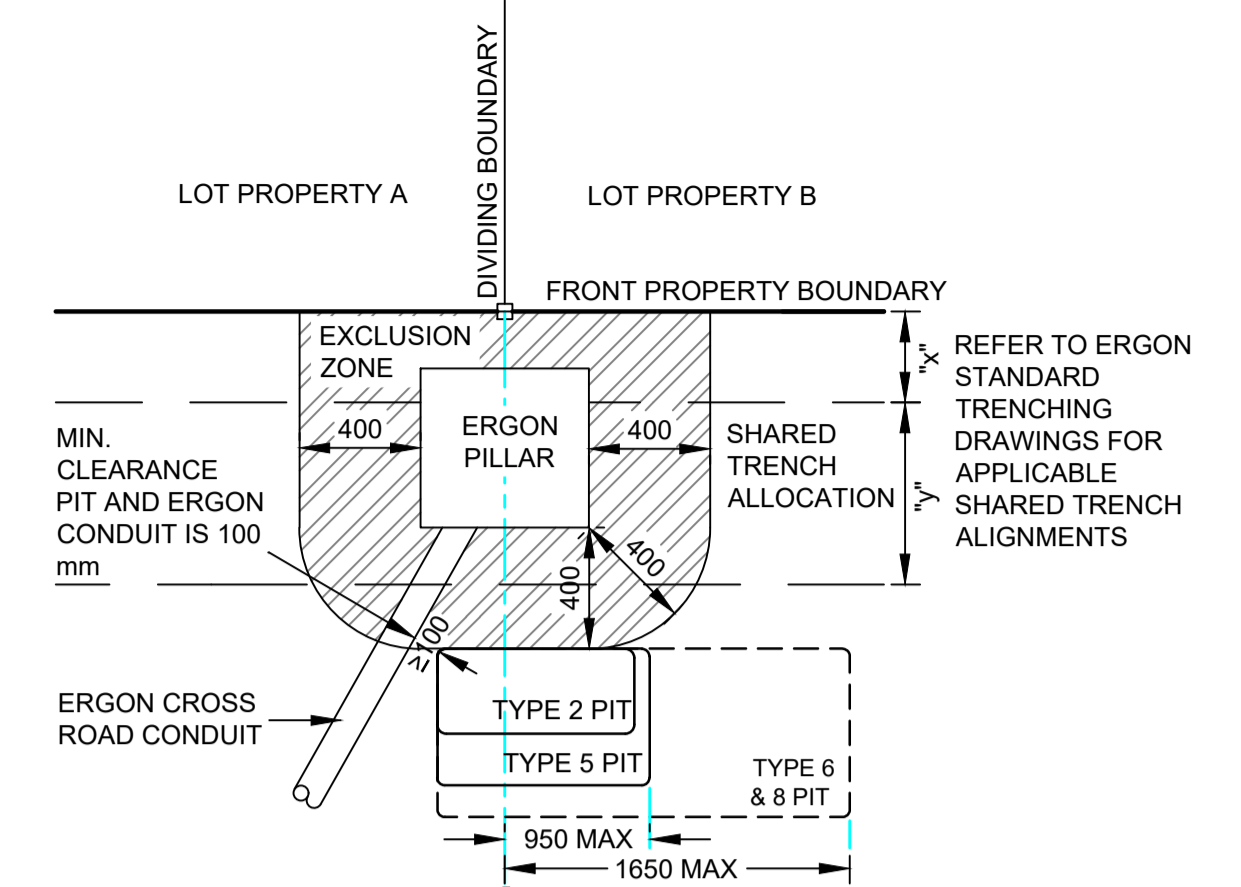
TYPICAL PIT DETAIL 1
PIT CENTRAL TO THE BOUNDARY WITH AN ERGON PILLAR.
- INSTALL CENTRE OF PIT IN LINE WITH PROLONGATION OF DIVIDING BOUNDARY.



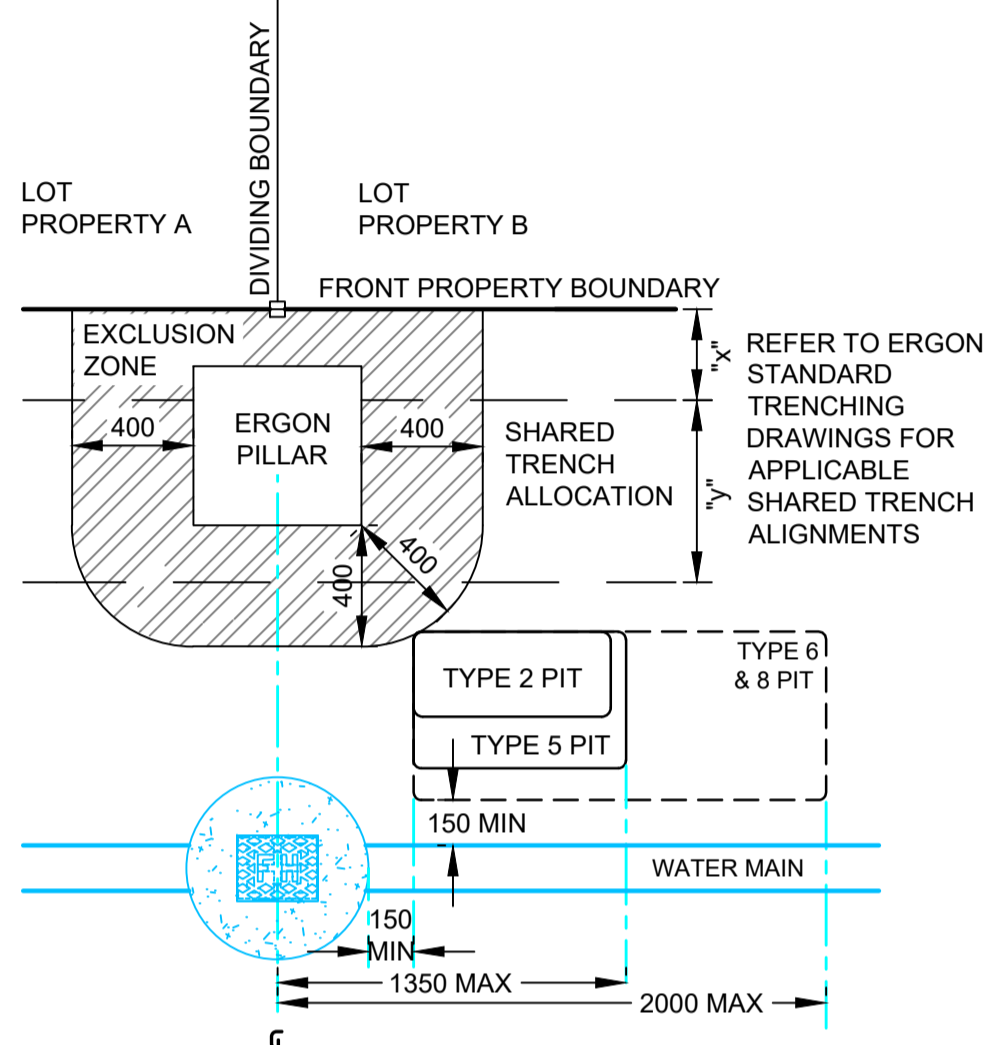
TYPICAL PIT DETAIL 2
PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR (ZERO LOT BOUNDARY).
- ENSURE PIT TO BE CLEAR OF THE ZERO LOT BOUNDARY



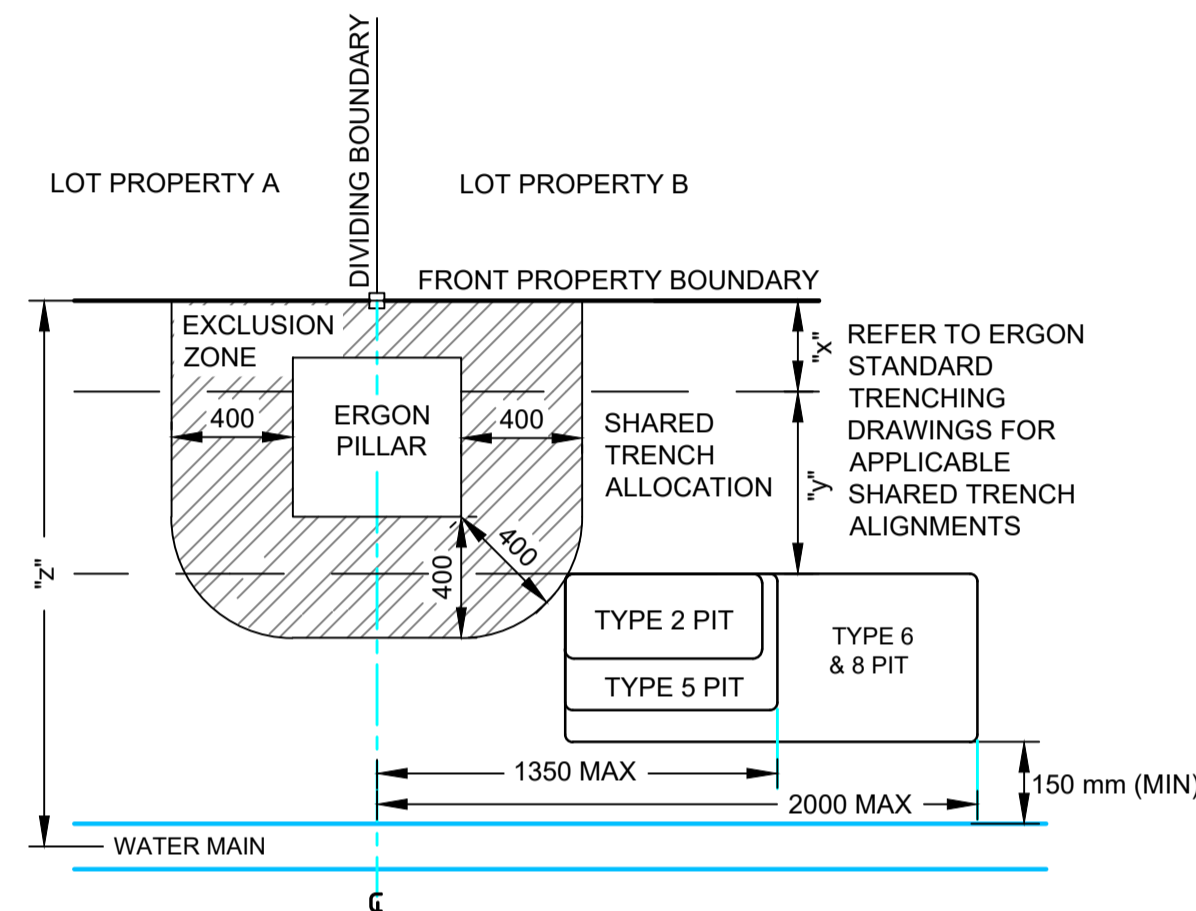
TYPICAL PIT DETAIL 3
PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND 90° ERGON CONDUIT.
- ENSURE 100 mm MIN CLEARANCE TO ERGON CROSS ROAD CONDUIT



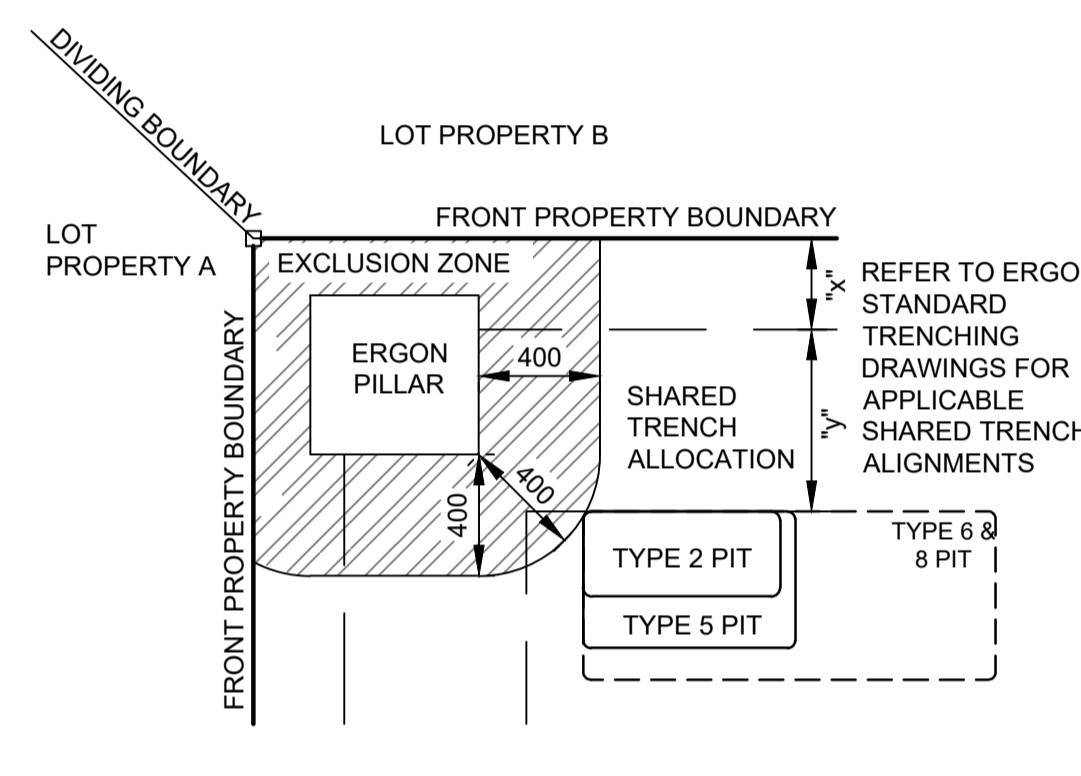
TYPICAL PIT DETAIL 4
PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND ANGLED ERGON CONDUIT.
- LOCATE FAR END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF DIVIDING BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CONDUIT(S) TO MINIMISE DRIVEWAY INTRUSION.



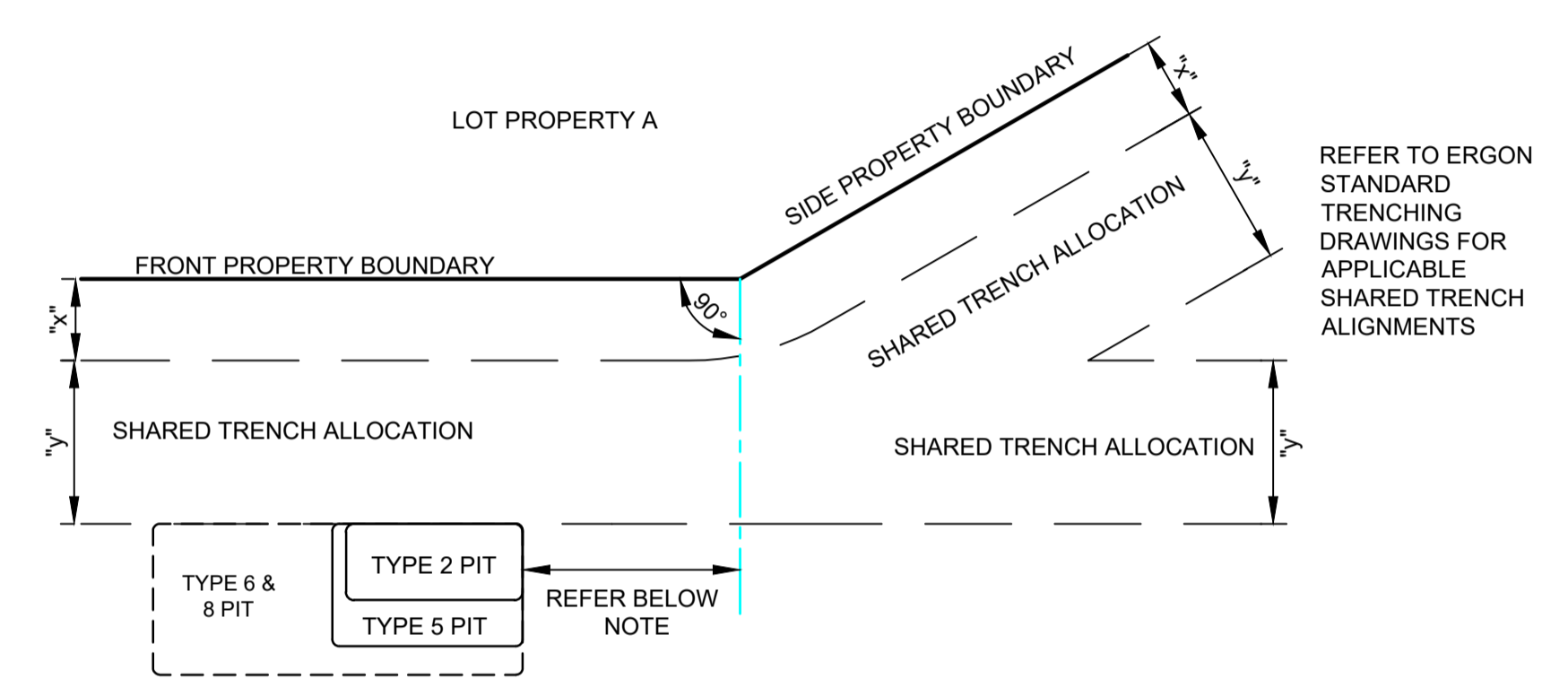
TYPICAL PIT DETAIL 5
PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND FIRE HYDRANT.
- LOCATE END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF DIVIDING BOUNDARY WHILST MAINTAINING MINIMUM 150 mm CLEARANCE FROM FIRE HYDRANT AND MARGIN SETT TO MINIMISE DRIVEWAY INTRUSION.



TYPICAL PIT DETAIL 6
TYPE 8 PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND CLASHING WITH WATER MAIN.
- LOCATE END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF DIVIDING BOUNDARY WHILST MAINTAINING MINIMUM 150 mm CLEARANCE FROM WATER MAIN TO MINIMISE DRIVEWAY INTRUSION.

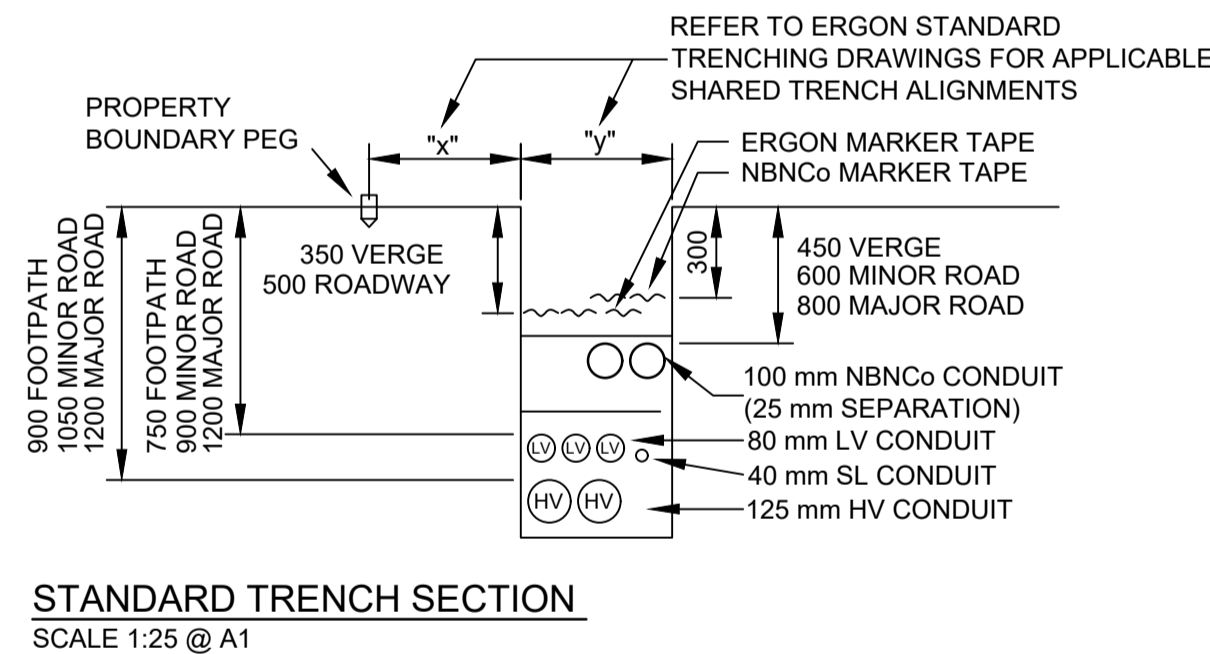


TYPICAL PIT DETAIL 7
PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR ON CORNER LOT.
- LOCATE END OF PIT AS CLOSE AS PRACTICABLE TO THE INTERSECTING PROPERTY BOUNDARIES WHILST MAINTAINING CLEARANCE TO PILLAR EXCLUSION ZONE TO MINIMISE DRIVEWAY INTRUSION.



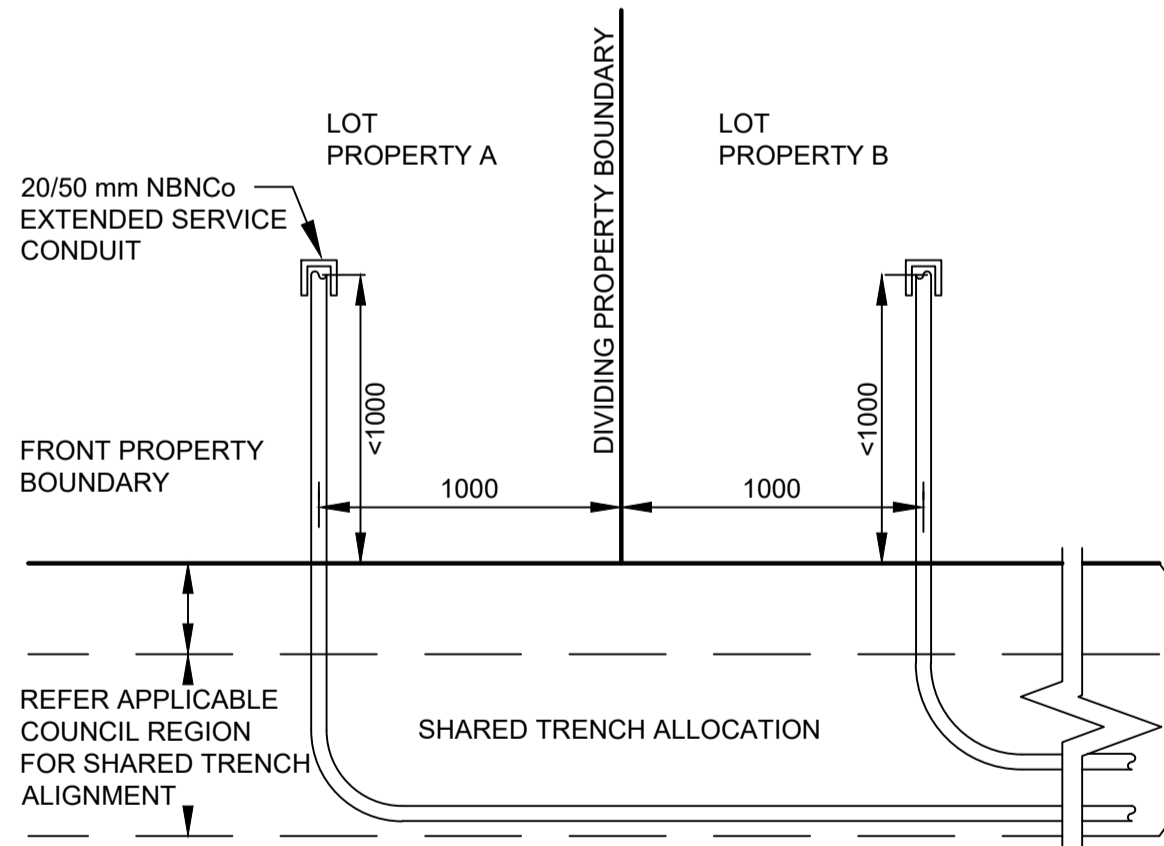
TYPICAL PIT DETAIL 8
PIT OFFSET FROM PROPERTY TRUNCATION POINT.
- LOCATE END OF PIT AS CLOSE AS PRACTICABLE TO THE TRUNCATION. WHERE APPLICABLE MAINTAIN REQUISITE COMPLIANCE TO FIGURE 13 IN THE NBN DEPLOYMENT GUIDELINES NBN-CTO-194.

SEPARATION FROM ERGON CONDUITS		
ERGON CONDUIT TYPE	PARALLEL SEPARATION (mm)	CROSSING SEPARATION (mm)
LV/SL	100	100
HV	300	100

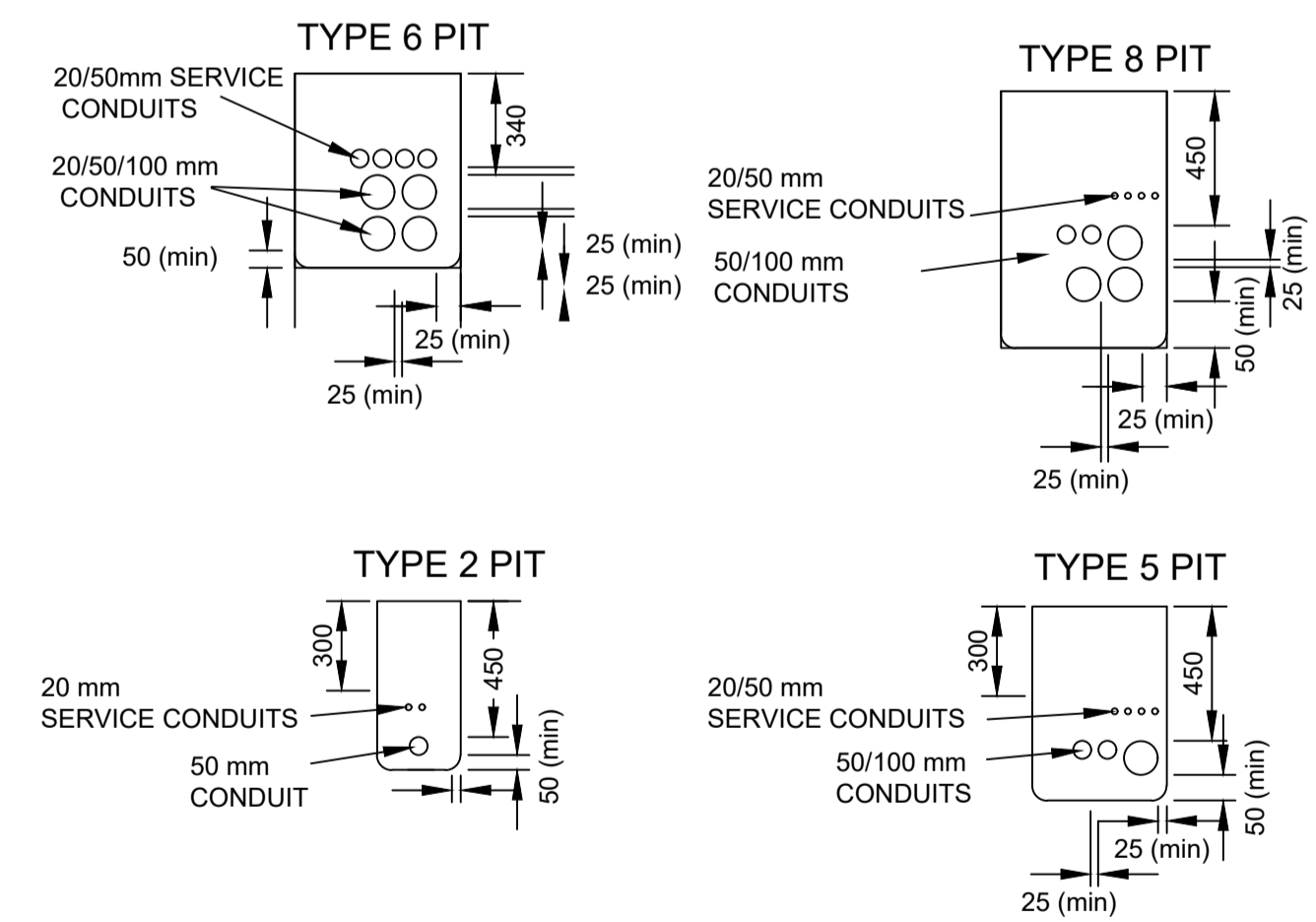


STANDARD TRENCH SECTION
SCALE 1:25 @ A1

NBN Co PIT SIZES							
PIT TYPE	NAME	NOMINAL EXTERNAL DIMENSIONS (mm)			MINIMUM INTERNAL DIMENSIONS (mm)		
		LENGTH	WIDTH	DEPTH	LENGTH	WIDTH	DEPTH
SERVICE DROP ACCESS PIT	TYPE 2	650	280	565	490	150	500
SERVICE DROP ACCESS PIT or BOUNDARY PIT or FJL PIT	TYPE 5	700	450	650	510	290	540
SERVICE DROP ACCESS PIT or LN PIT or FJL PIT	TYPE 6	1360	555	650	1130	340	600
DISTRIBUTION PIT or LN CONNECTION PIT	TYPE 8	1360	555	860	1130	390	820



EXTENDED SERVICE CONDUITS TO DISTANT PIT
SCALE 1:25 @ A1



TYPICAL PIT END WALL DETAILS
SCALE 1:25 @ A1



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
1	20/05/20	TM	FOR APPROVAL	JE

STRICTLY CONFIDENTIAL

NBNCo APPROVAL RECORD:

SIGNATURE	DATE
<input type="checkbox"/> DD	
<input type="checkbox"/> WD	
<input type="checkbox"/> AB	

QUALITY RECORD:

NBNCo DISCLAIMER
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KEY PLAN

DRAWING TITLE:
LANGLEY RD & ANDREW CL SUBDIVISION
NBNCo PIT AND PIPE DESIGN
TYPICAL PIT LAYOUTS AND TRENCH DETAILS

ENABLE#:

STATE: QLD REGION: DSC

FSA: SAM: ADA:

PROJECT No: STG - W000114372

CADREF No: 3205-T02

SCALE AS SHOWN SHEET No. 2 OF 2 REV. 1

FOR APPROVAL
NOT FOR CONSTRUCTION

Chief Executive Officer

28/05/2020

The Manager
PO Box 723
MOSSMAN QLD 4873

Dear Sir/Madam,

**APPROVAL FOR UNDERGROUND WORKS, ELECTRICITY SUPPLY AND STREET LIGHTING -
OUR PROJECT No: 3205**

We are writing on behalf of Ergon Energy to advise of the following works at the above location.

Ergon Energy proposes to conduct underground works in accordance with the enclosed Plans, Drawing No. 3205 – E01, 3205 – E02.

Could you please advise whether you have any objection to these works, in your capacity as the Statutory Body having control or management of the roadway.

We advise that negotiations with the subdivider, KS5 Pty Ltd, are finalised for the provision of underground electricity reticulation to Langley Rd & Andrew CI Subdivision Stage 1.

An agreement has been entered into with the subdivider, whereby Ergon Energy will provide underground electricity reticulation for residential purposes to the 6 lots being developed.

Under one of the terms of this agreement, an undertaking has been given that, upon application made in accordance with usual requirements, an underground electricity supply will be made available to the owner or occupier of any allotment forming part of the said land within a reasonable period after receiving such application for supply subject to the availability of materials and other resources.

Connection shall be to a new substation Located in Lot 10 of Stage 1.

The point of supply for each lot would be at a pillar box on the road boundary.

The Subdivider has made arrangements for the installation of 2 x 17W LED Sylvania street aeroscreen minor light fittings.

Could you please advise your acceptance of the Rate 2 tariff for each light fitting and in addition provide Acknowledgement to Written Agreement – Works on Roads as it is now an Ergon requirement at the design submission stage.

Your reply within fourteen days would be appreciated to avoid unnecessary delays in the construction of the above works.

Yours sincerely

Tim Matthews
SPA Consulting Engineers (QLD)

Project Name: LANGLEY RD & ANDREW CI SUBDIVISION
 Drawing No: 3205-E01,E02 REV A



Council: Douglas Shire Council

I certify this design meets the compliance requirements of AS/NZS 1158.3.1:2005

Jane Errey RPEQ 6863

LUMINAIRE / POLE / PHOTOMETRIC INFORMATION TABLE			
Category	P4	Luminaire Type	IV
Luminaire Type	Sylvania Street - Single	Luminaire Wattage	LED A 17W
Pole Height (m)	5.5	Luminaire Outreach (m)	0.3
Foundation Depth (mm)	1200	Outreach (m)	Standard 1.5m
Upcast	5	Uplift (m)	2
Mounting Height (m)	7.5	Cleaning / Replacement	36 Months
Lamp	LED 17W	Pollution Level	Medium
Photometric File	StreetLED3 17W 4K AERO 180805PH	IP Rating	IP6x
Lamp Type	LED	LLMF	0.8
Lumens	2009	MF	0.75
Ergon Construction Code	SLEDGL0167A		

LIMITING LTPs			
Min Av E _H	0.85	Min E _H Maint	0.14
Lamp Type	4	U _p Maint	10

HAS COMPLIANCE WITH THE FOLLOWING ELEMENTS BEEN MET?					
Is compliance with the maximum permissible spacing achieved on all straights and curves?	YES				
For curved sections, does a straight line joining successive luminaires lie within the road reserve or is at least one luminaire located within the hatched area, as shown in figure 3.1?	N/A				
Has a luminaire associated with one of the intersecting roads been located within the hatched area shown in figure 3.1, and where differing levels of Category P lighting are provided, the luminaire is a type that complies with the higher lighting category?	YES				
For Tee-intersections, has the first luminaire in the joining road been located no more than 50% of the maximum spacing detailed in clause 3.2.1 from the limits of the junction defined by the prolongation of the property lines?	YES				
Where pedestrian refuges are located on roads requiring category P lighting, is the maintained horizontal illuminance over the surface of the refuge, within the design area shown in figure 3.3, not less than 3.5 Lux?	N/A				
Do maximum spacing for luminaires in cul-de-sacs comply with Clause 3.2.1 and are the provisions of Clauses 3.2.5.2, 3.2.5.3 or 3.2.5.4 met?	N/A				
Lighting design compliance is conditional on all lights being operational.					
Is the maintained horizontal illuminance over the surface not be less than 3.5 lux for the design areas defined below:	Modelling Software Used:				
Roundabouts	N/A	LATMDs	N/A	PlePcat	

ROAD INFORMATION TABLE				RESULTS TABLE				ELEMENTS FOR THIS ROAD							
Road Name	Road Reserve Width (m)	Distance to Kerb (m)	Offset (m)	Spacing Value from PlePal S	Min Av E _H	Min E _H Maint	U _p Maint	Straights Single Sided	Straights Staggered	Curves (Single or Staggered)	T-Inter sections	Pedestrian Refuges	LATMDs	Cul-de-sacs	Roundabouts
ANDREWS CI	17	4.5	5.48	67.6	0.98	0.14	5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments: EXISTING LIGHTING TO LANGLEY ROAD.

Network Connection Subdivision/Street Lighting Application Form



Privacy Notice

Ergon Energy is collecting information on this Application for Network Connection Subdivision/Street Lighting Form for the purpose of assessing your Connection Application. This may include the collection of your personal information. Your personal information will not be disclosed to any external third parties without your consent, unless authorised or required by law. If you wish to apply for access to this information or make a privacy complaint, you may contact the Right to Information & Privacy Officer on (07) 3851 6000, or visit ergon.com.au to obtain access application and privacy complaint forms. If you have provided personal information of another individual, please ensure that you advise the person about this privacy statement. Our privacy policy is available at ergon.com.au.

Network Connection Application Form

Subdivision / Street Lighting



DO YOU HAVE THE RIGHT APPLICATION?

This application is for:

- ✓ Developers that have already submitted an online Developer Enquiry;
- ✓ Developers undertaking Underground Distribution Construction (UDC) Projects;
- ✓ Developers or Street Lighting Customers undertaking design and construction for street lighting premises;
- ✓ Customers undertaking the subdivision of two or more lots, small developers.

This application does not apply to:

- ✗ a new connection or connection alteration. For these connections you will need to complete the Network Connection Application Form.
- ✗ the removal of an unmetered supply device. For these applications you will need to complete a Request for the Abolishment of Supply and Removal of Ergon Energy Electrical Assets Form.
- ✗ an unmetered supply device to be mounted on an Ergon Energy pole such as CCTV. For these connections you will need to complete a Network Connection for Watchman Lights and Pole Mounted Unmetered Supply Devices Application Form.
- ✗ an unmetered supply device to be mounted on an Ergon Energy pole such as CCTV. For these connections you will need to complete a Network Connection of Watchman Lights and Pole Mounted Unmetered Supply Devices Application Form.
- ✗ an unmetered supply device that is not mounted an Ergon Energy pole. For these connections you will need to complete an Application for Network Connection of an Unmetered Supply Device Form.
- ✗ a load that exceeds 1500kVA/1.5MVA or where power usage is typically above 4GWh per annum at a single site or generation over 30kVA. For these connections go to www.ergon.com.au/network/connections/major-business-connections/major-connections.
- ✗ the connection of a Micro Embedded Generating (micro EG) Unit to an existing supply on the Ergon Energy Network. Please complete the Application for Network Connection of a Micro Embedded Generating (micro EG) Unit 30kVA and Under form. For these connections go to www.ergon.com.au/network/contractors-and-industry/solar-pv-installers/ies-network-connection-form.

HOW TO COMPLETE THE APPLICATION?

SECTION	TO BE COMPLETED BY
A Ergon Energy Work Request No	All Applicants
B Developer/ Street Lighting Customers	All Applicants
C Design and Construction Details	All Applicants
D Documents to Supplied with the Application	All Applicants
E Application Fee	For the information of the Applicant
F Authority to Sign	All Applicants

Network Connection Application Form

Subdivision / Street Lighting



Section A

Ergon Energy Work Request No:

SECTION B

Developer/Street Lighting Customers Please use BLOCK LETTERS

1. State the full name(s) of the person(s) making this application. 2. If a registered business, state the full name(s) of the proprietor(s) and the business name in the box below. 3. If a registered company or other incorporated body, state the registered name in the box provided.		
Mr / Mrs / Ms Mr	Given Names Daniel	Surname Farquhar
Mr / Mrs / Ms	Given Names	Surname
Name of business, company or other incorporated body KS5 Pty Ltd		ACN/ABN 97 110 280 405
Postal Address C/ SPA Consulting Engineers (Qld) Pty Ltd, PO Box 4706, Kirwan, Qld		Postcode 4817
Phone No. 07 3226 8799	Mobile No.	E-mail dfarquhar@seymourgroup.com.au
Property Address Number/Name of Street Langley Road, Port Douglas		Postcode
Real Property Description Number Lot 5 RP804926		Subdivision Plan Reference
Designated Developer Representative for this application Name Consultant <input checked="" type="checkbox"/> / Other <input type="checkbox"/>		Company Name SPA Consulting Engineers (Qld) Pty Ltd
Address PO Box 4706, Kirwan, Qld		Postcode 4817
Phone No. 07 4728 3026	Mobile No.	Email tim@spaconsulting.com.au

Project Details

Project Name Langley Rd & Andrew Cl Subdivision Port Douglas	Stage 1	No. of Lots 6
Reference Information		
Project Description		
Project Drawing Number(s) 3205	Average Lot Size (m ²)	Average Lot Frontage (m)
Lighting Category (Ergon Owned and Operated, Gifted and Ergon Operated or Customer Owned and Operated)	Number of Lights	<input checked="" type="checkbox"/> Underground <input type="checkbox"/> Overhead

IMPORTANT INFORMATION FOR CUSTOMERS:

Applications for Customer Owned and Maintained lighting must have CAD drawings of the installation attached together with the GPS coordinates. (Note: format of GPS coordinate schedule below)

Source	GPS Location	Orientation	Loading Details	Reason

I have attached the CAD drawing for the Customer Owned and Maintained Street Lighting.

Network Connection Application Form

Subdivision / Street Lighting



SECTION C

Design and Construction Options

Will you use your own contractors, or Ergon Energy, to carry out this project?	
Developer Design and Construct (DD&C): Please tick the box if you are using contractors approved by Ergon Energy to design and construct your project. This option is available if you are developing an underground subdivision and/or public lighting project.	<input checked="" type="checkbox"/> ASR Contractors
Ergon Energy Design and Construct: Please tick this box if you require Ergon Energy to design and construct.	<input type="checkbox"/> Ergon Energy

SECTION D

Documents that must be Supplied with the Application

Plan Requirements:	Yes	No	If "No" indicate date when information will be supplied.
(2) Electronic copies of the completed Electrical Design. (1) pdf. and (1) dwg. format (For ASR Contractor Projects Only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/ /
Copy of Lot Layout for subdivision in dwg. format (For Ergon Energy Projects Only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/ /
Copy of Local Government Decision Notice. (For ASR Contractors and Ergon Energy Projects)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/ /

SECTION E

Application Fee

Ergon Energy is entitled to charge you for the costs it incurs in assessing a connection application under the negotiated process, negotiating with you and preparing a connection offer. Ergon Energy may issue you a tax invoice for these costs.

SECTION F

Authority to Sign

I/We sign this application for Network Connection Services and confirm I/we are authorised to make this application.

SIGNED FOR AND ON BEHALF OF – Developer's Company Name or Individual/s (as applicable)	
Signature of authorised representative 	Signature of authorised representative
Name of authorised representative (print) Daniel Farquhar	Name of authorised representative (print)
Date: 20 / 5 / 20	Date: / /

Easements If Ergon Energy requires any easements, the landowner acknowledges it is the responsibility of the landowner to provide these.

Signature 	Print Name Daniel Farquhar
---------------	-------------------------------

Consultant Details (If not identified in Section B)

Business Name SPA Consulting Engineers (Qld) Pty Ltd	Contact Person Timothy Matthews
Phone No. 07 4728 3026	Mobile No.
	Email. Tim@spaconsulting.com.au

Electrical Construction Contractor Details (if known)

Business Name TBC	Contact Person
Phone No.	Mobile No.
	Email.

FNQROC DEVELOPMENT MANUAL

Council:Douglas Shire Council.....

STATEMENT OF COMPLIANCE OPERATIONAL WORKS DESIGN

This form duly completed and signed by an authorised agent of the Designer shall be submitted with the Operational Works Application for Council Approval.

Name of Development: Langley Rd and Andrews CI subdivision Stage 1

Location of Development: Cnr of Langley Road & Andrews Circuit, Port Douglas

Applicant: KS5 Pty Ltd

Designer: SPA Consulting Engineers (Qld)


It is hereby certified that the Calculations, Drawings, Specifications and related documents submitted herewith have been prepared, checked and amended in accordance with the requirements of the FNQROC Development Manual and that the completed works comply with the requirements therein, except as noted below.

Compliance with the requirements of the Operational Works Design Guidelines	Compliance Yes/No	Non-Compliance refer to non-compliance report / drawing number
Plan Presentation	N/A	
Geometric Road Design	N/A	
Pavements	N/A	
Structures / Bridges	N/A	
Subsurface Drainage	N/A	
Stormwater Drainage	N/A	
Site Re-grading	N/A	
Erosion Control and Stormwater Management	N/A	
Pest Plant Management	N/A	
Cycleway / Pathways	N/A	
Landscaping	N/A	
Water Reticulation	N/A	
Electrical Reticulation and Street Lighting	Yes	
Associated Documentation/ Specification	N/A	
Priced Schedule of Quantities	N/A	

Conscientiously believing the above statements to be true and correct, signed on behalf of:

Designer: SPA Consulting Engineers (Qld)..... **RPEQ No: 6863**.....

Name in Full: Boronia Jane Errey

Signature: 

Date: 28-05-2020