

STANDARD DESIGN NOTES:

- THERE ARE A TOTAL OF 26 SINGLE RESIDENTIAL DWELLING UNITS.
- REFER TO SPA DRAWING 3393-E01 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

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

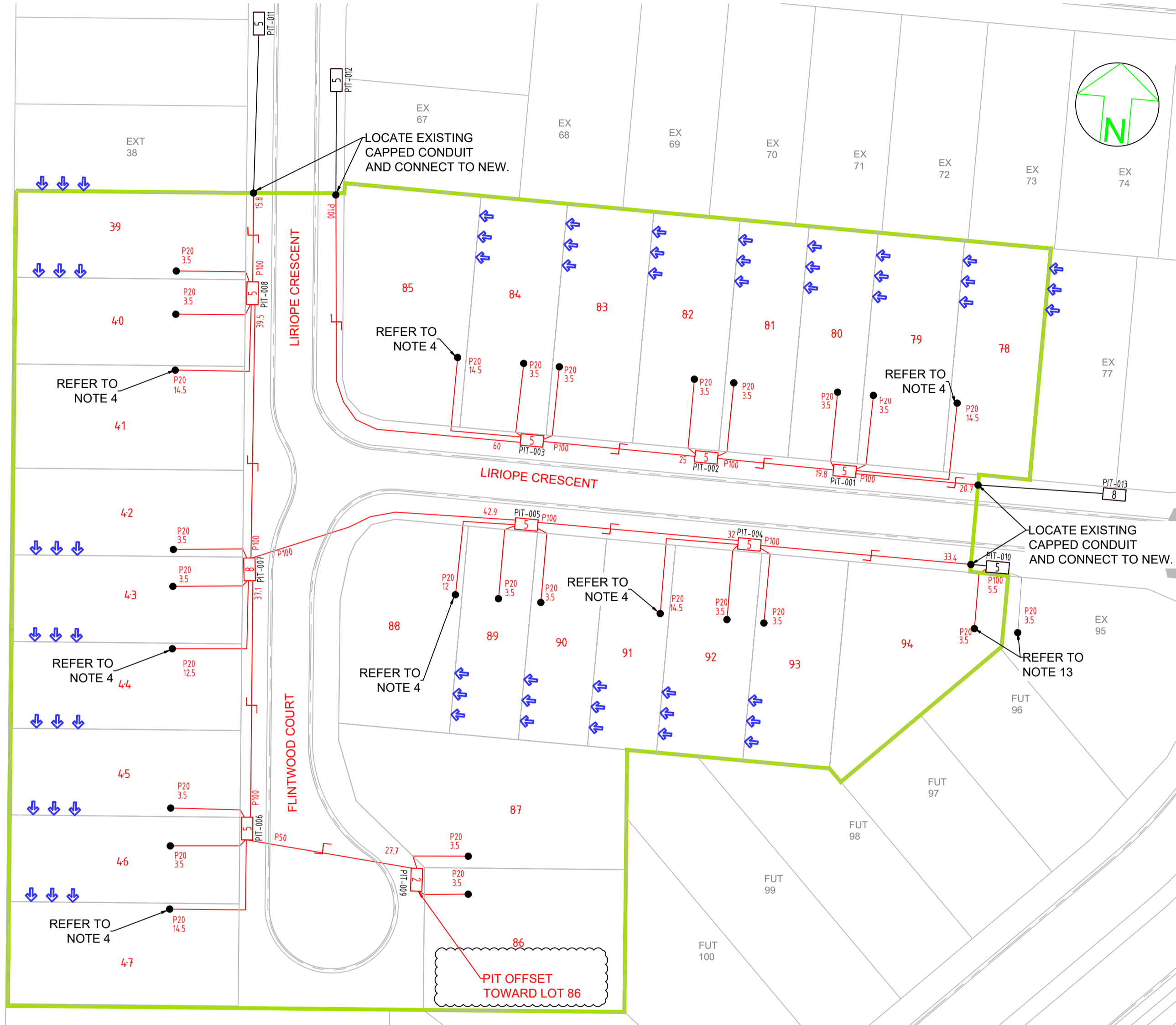
ATTRIBUTES ATTACHED TO CONDUITS ARE AS SHOWN

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

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 PREVENT 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.
- SUPPLY AND INSTALL ADDITIONAL DEVIATING CONDUIT BENDS TO ACHIEVE THE INCREASED / DECREASED BURIAL DEPTH REQUIRED TO AVOID CLASH WITH OTHER SERVICES.
- CONDUIT INSTALLED IN PREVIOUS STAGE. FIBRE TO BE RETICULATED IN THIS STAGE.



LAYOUT PLAN
SCALE 1:500 @ A1

BILL OF MATERIAL

NO OF LOTS: 26

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	1	P100	10	326.2
5	7	P50	1	27.7
6	0	P20	26	161
8	1			
9	0			

TOTAL NUMBER OF PITS: 9
TOTAL NUMBER OF MANHOLES: 0
TOTAL NUMBER OF CONDUITS: 37
TOTAL LENGTH OF CONDUITS: 514.9

SDU Development Information

Development Name:
THE RESERVE (KALYNDA CHASE)

Developer Company:
URBEX PTY LTD

Development Address:
BRUCE HIGHWAY, BOHLE PLAIN

Authorised Rep:
SPA CONSULTING ENGINEERS (QLD) PTY LTD
Phone: 074 7283026
E-Mail: admin@spaconsulting.com.au

nbn Reference Number: STG-M000101527
Stage Number: 13 C
Design Revision: B

AS-BUILT

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

CHANGES: YES/NO

CIVIL CONTRACTOR

NAME: BMD CONSTRUCTION
SIGNATURE: ANOTHY BURKE
DATE: 18/11/22

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
B	18/11/22	SW	AS BUILT	NBN
A	19/05/2022	NJ	FOR CONSTRUCTION	NBN
1	21/03/2022	NJ	FOR APPROVAL	NBN

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NBNCO APPROVAL RECORD:

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

QUALITY RECORD:

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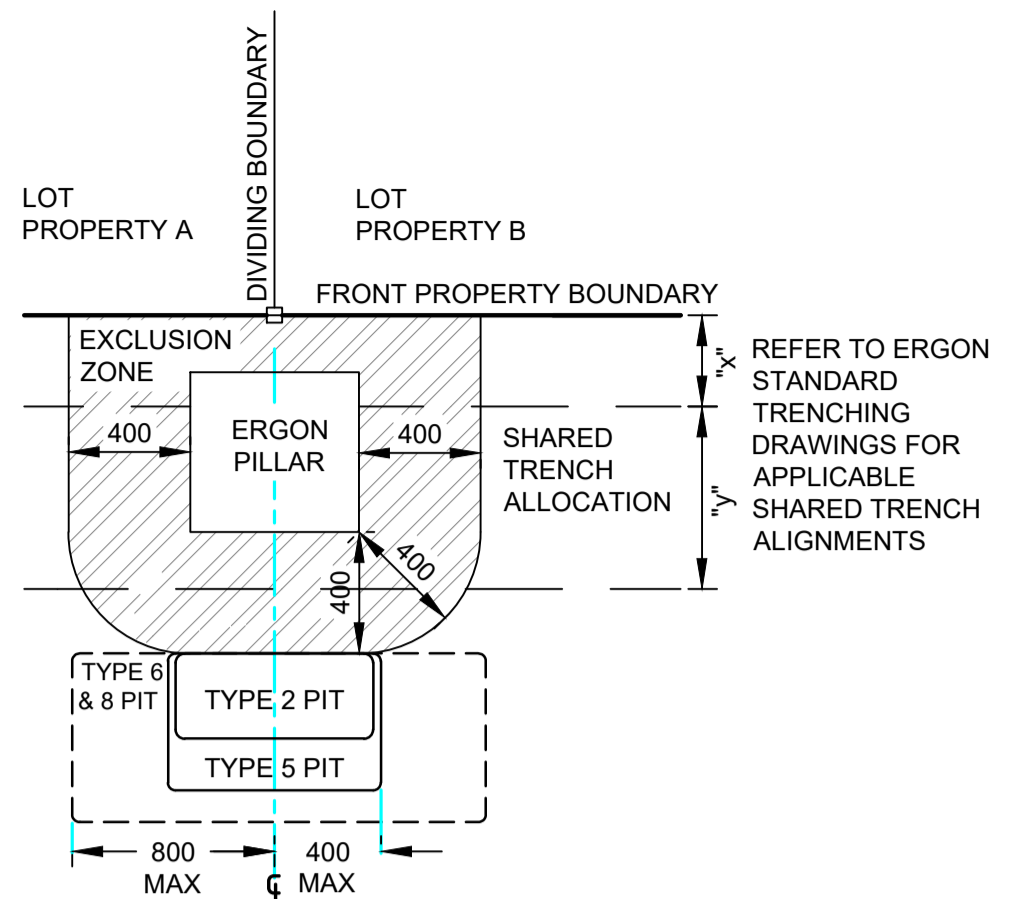
KEY PLAN

ENABLED:	STATE: QLD	REGION: NQ
PROJECT No:	STG-M000101527	
CADREF No:	3393-T01	
SCALE	SHEET No. 1 OF 2	REV. B

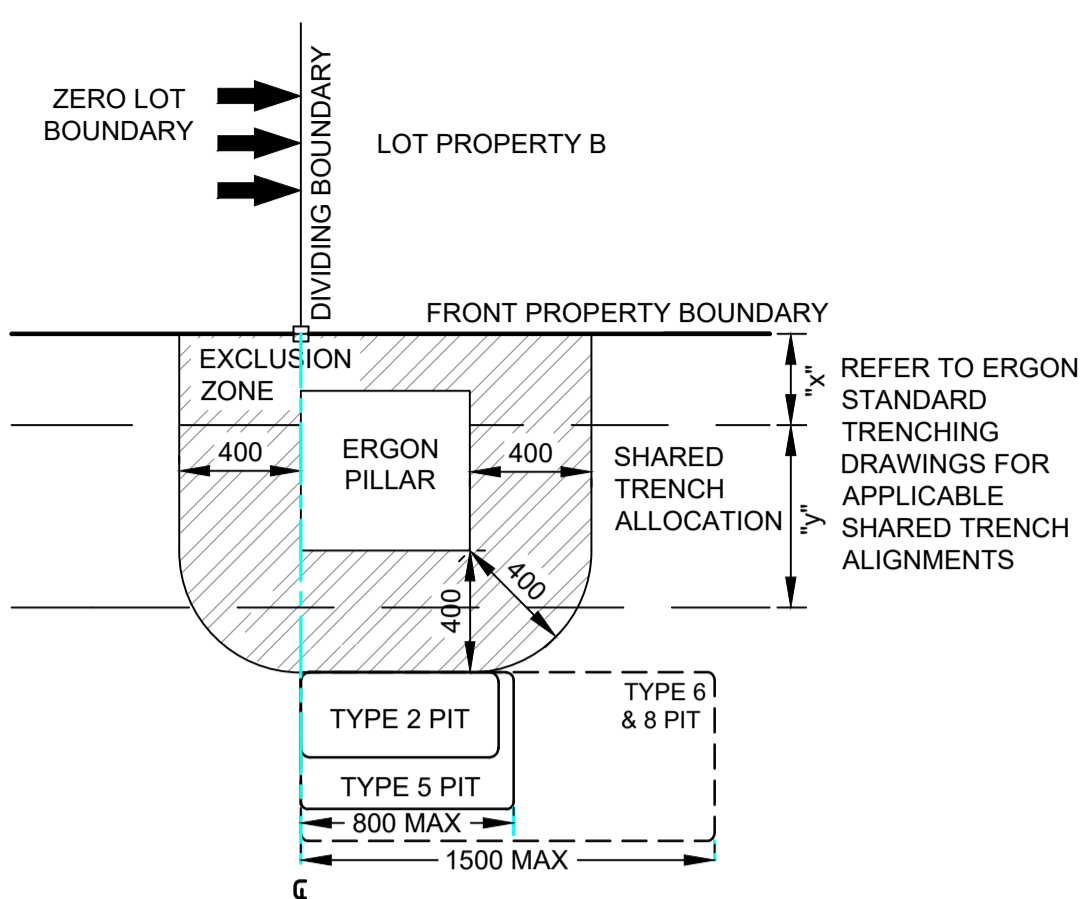
DRAWING TITLE:	THE RESERVE (KALYNDA CHASE) STAGE 13C NBNCo PIT AND PIPE DESIGN LAYOUT PLAN
ENABLED:	
STATE:	QLD
REGION:	NQ
PROJECT No:	STG-M000101527
CADREF No:	3393-T01
SCALE	SHEET No. 1 OF 2
REV.	B

TYPICAL PIT DETAILS

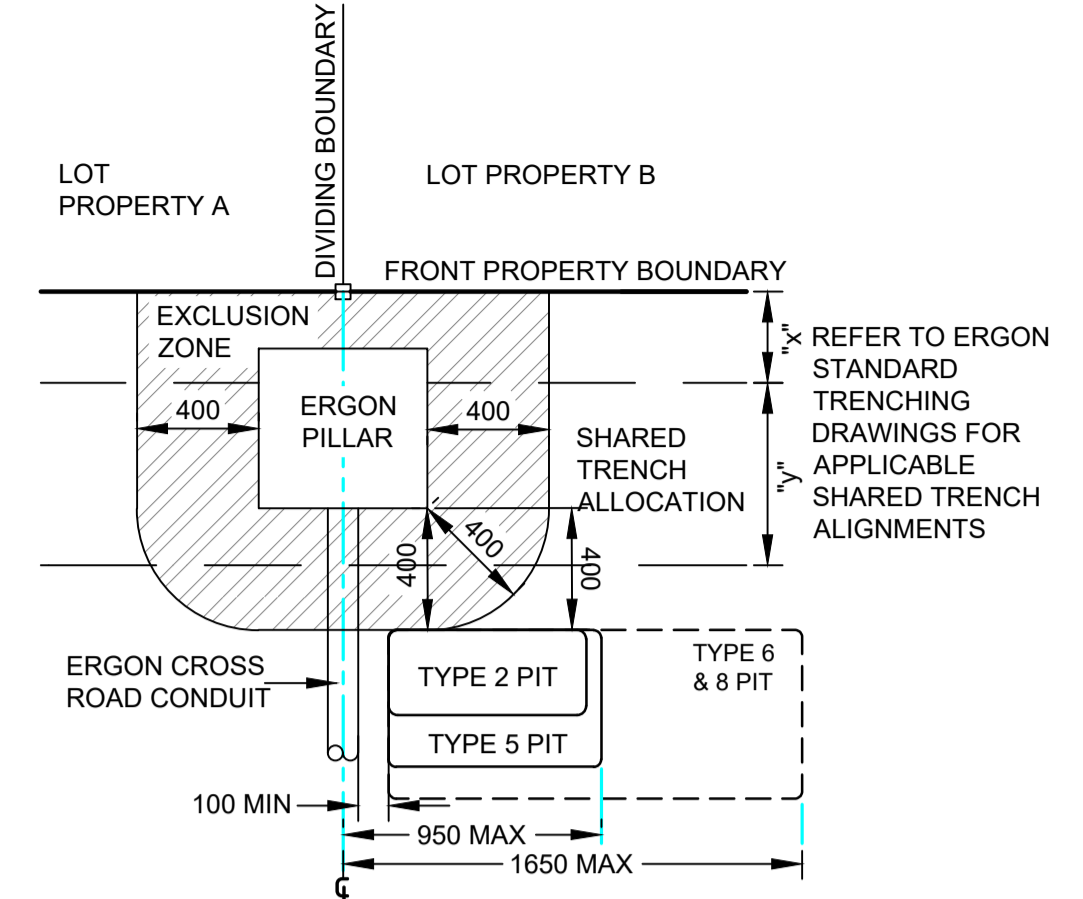
- NOTES:
- THESE DETAILS REPRESENT TYPICAL PIT CONFIGURATIONS AND THE CONTRACTOR SHALL DETERMINE THE MOST SUITABLE DETAIL FOR EACH PARTICULAR APPLICATION, IGNORING REDUNDANT DETAILS.
 - PITS SHALL BE INSTALLED CLEAR OF DRIVEWAYS AND FUTURE DRIVEWAY LOCATIONS. COORDINATE FINAL LOCATIONS WITH CIVIL DRAWINGS.
 - 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 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



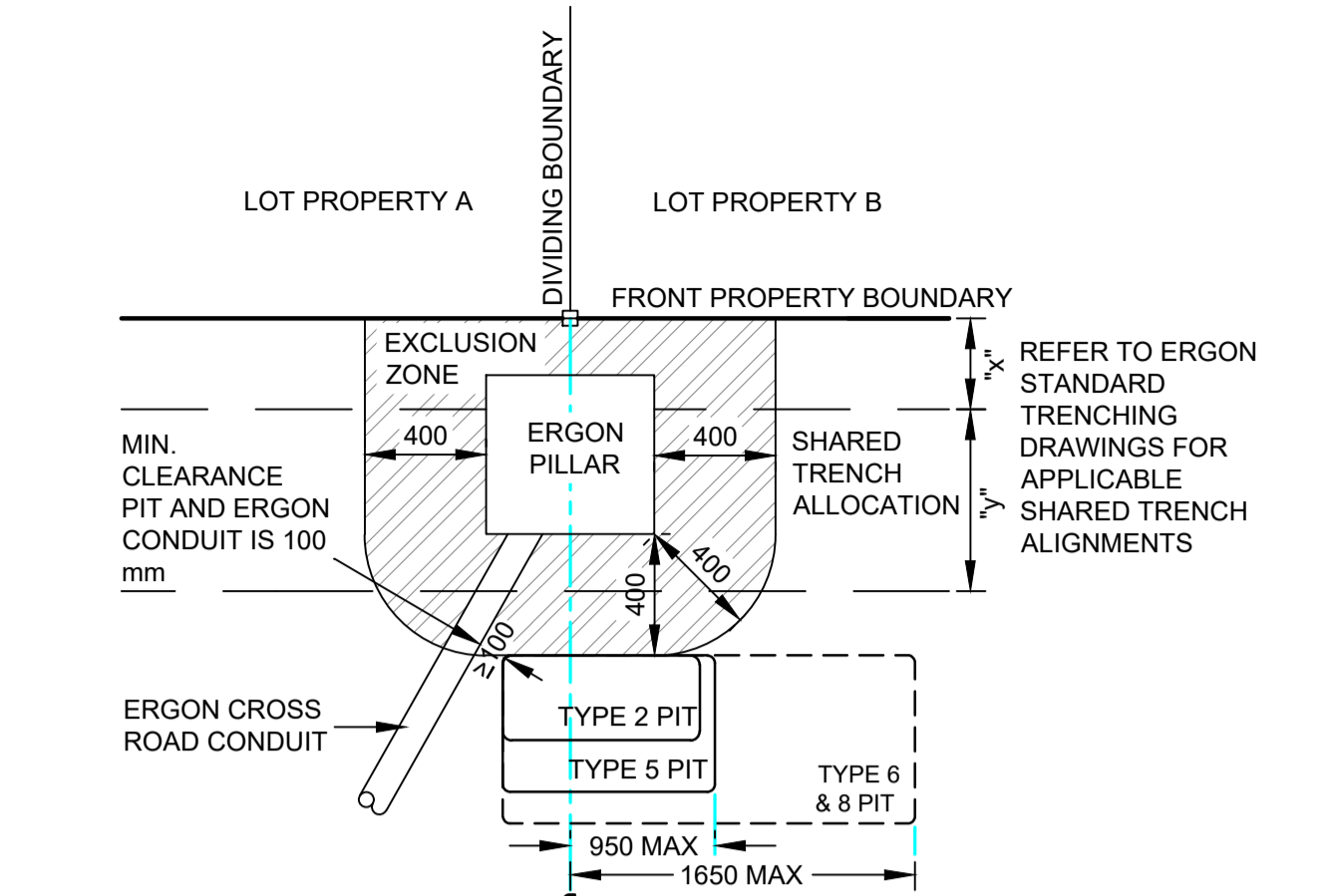
TYPICAL PIT DETAIL 1
 PIT CENTRAL TO THE BOUNDARY WITH AN ERGON PILLAR.
 - INSTALL CENTRE OF PIT IN LINE WITH PROLONGATION OF DIVIDING BOUNDARY.



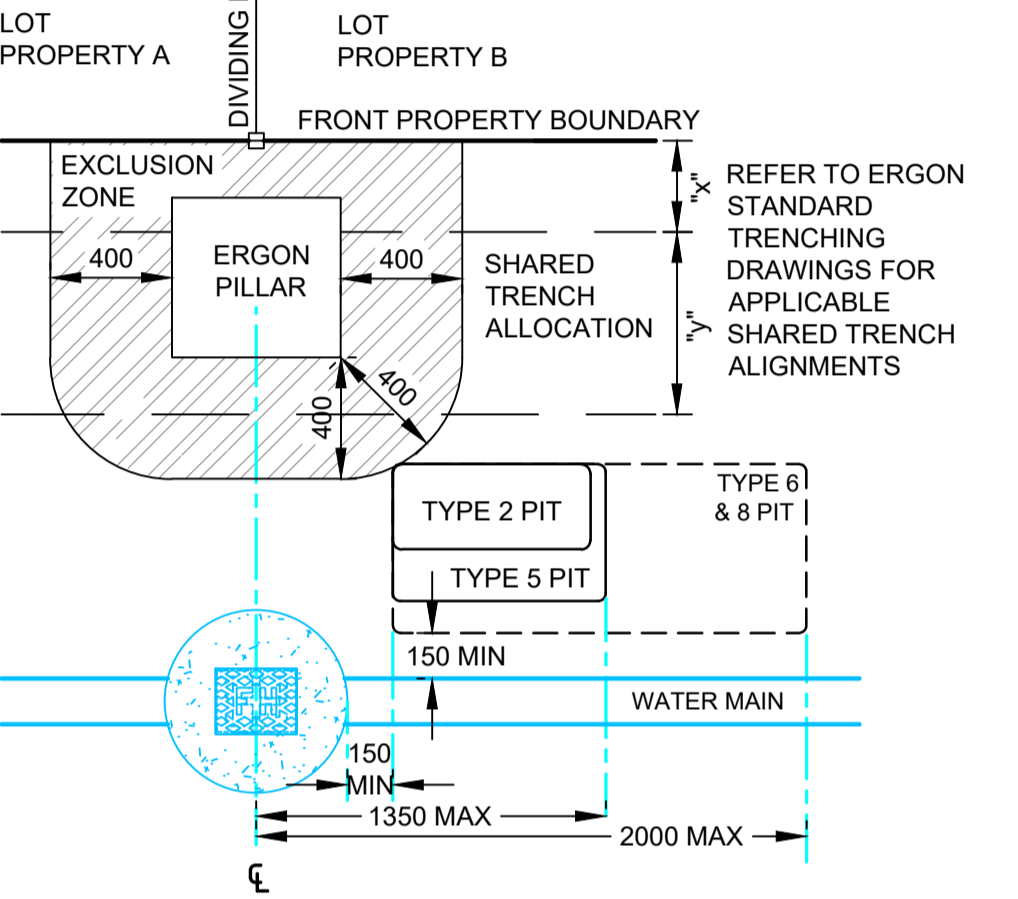
TYPICAL PIT DETAIL 2
 PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR (ZERO LOT BOUNDARY).
 - ENSURE PIT TO BE CLEAR OF THE ZERO LOT BOUNDARY



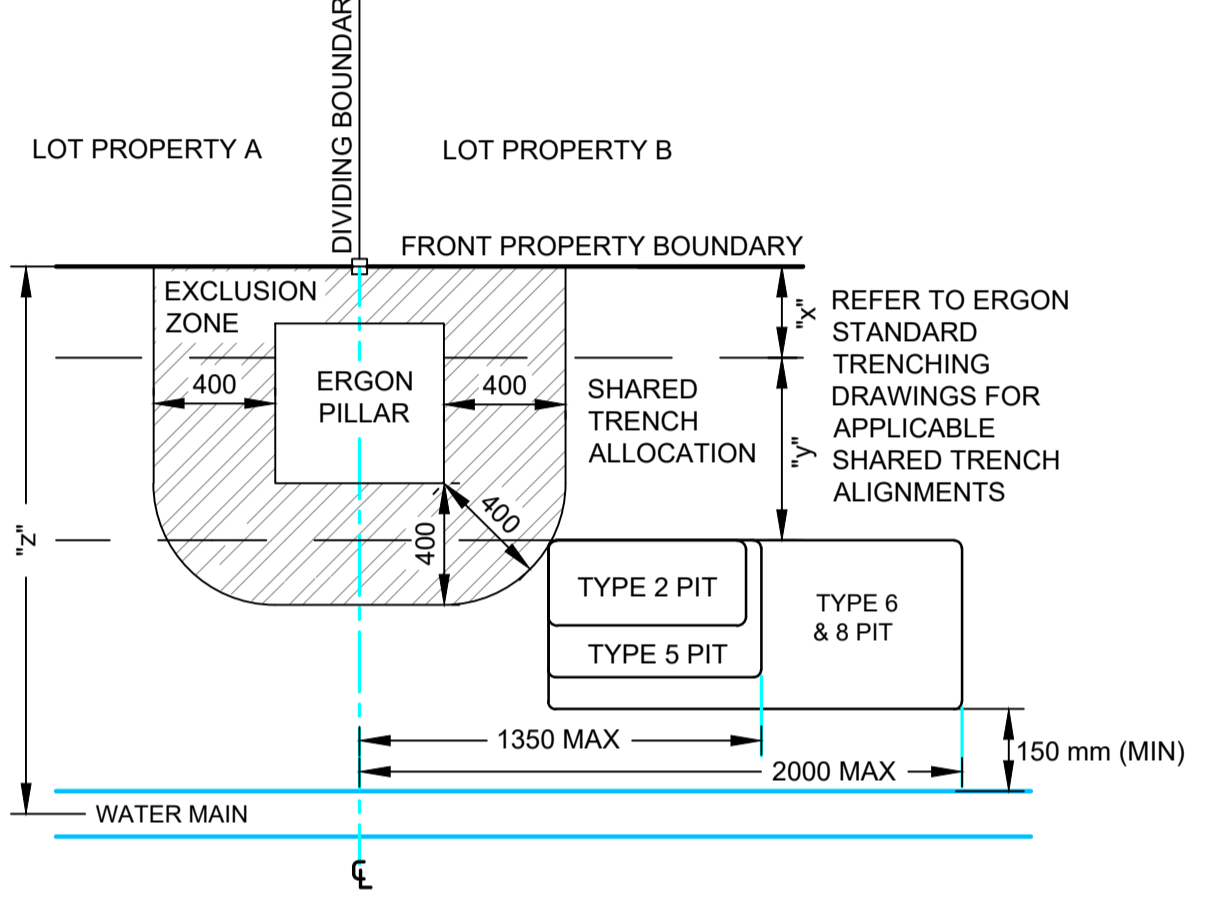
TYPICAL PIT DETAIL 3
 PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND 90° ERGON CONDUIT.
 - ENSURE 100 mm MIN CLEARANCE TO ERGON CROSS ROAD CONDUIT



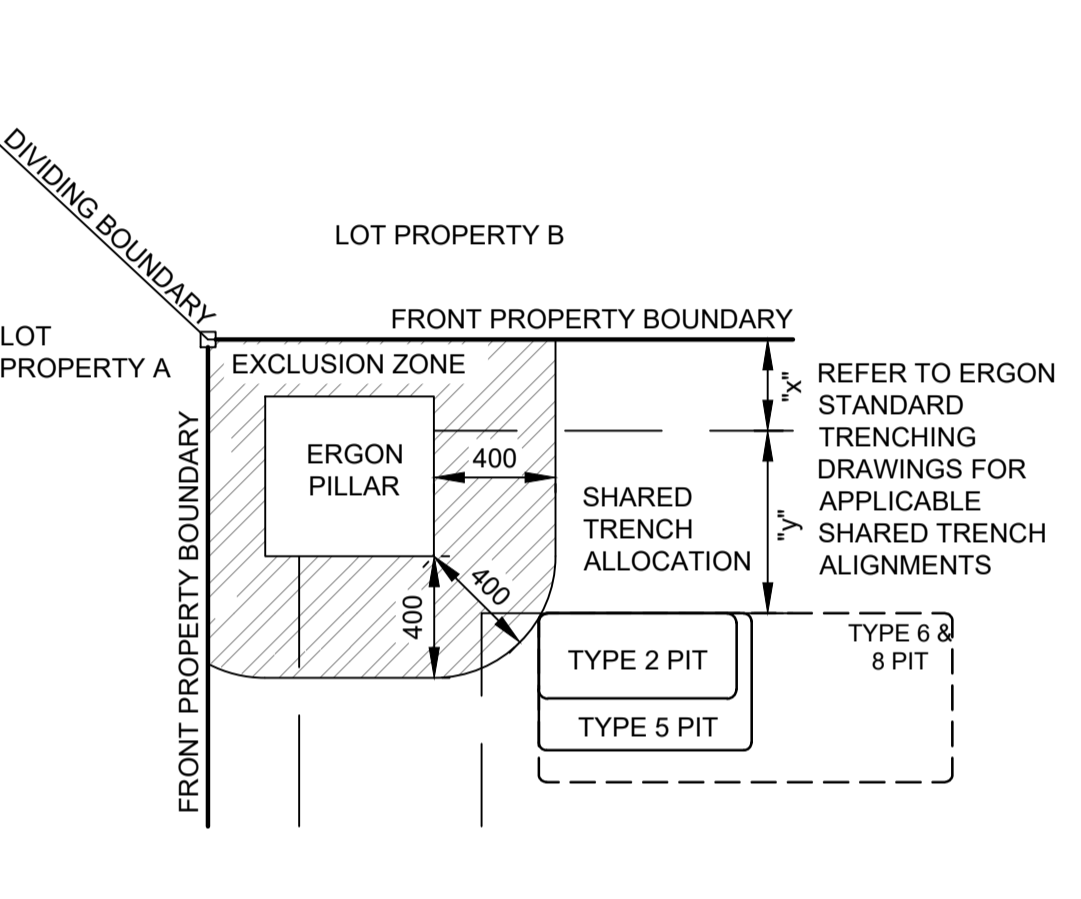
TYPICAL PIT DETAIL 4
 PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND ANGLED ERGON CONDUIT.
 - LOCATE FAR END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF DIVIDING BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CONDUIT(S) TO MINIMISE DRIVEWAY INTRUSION.



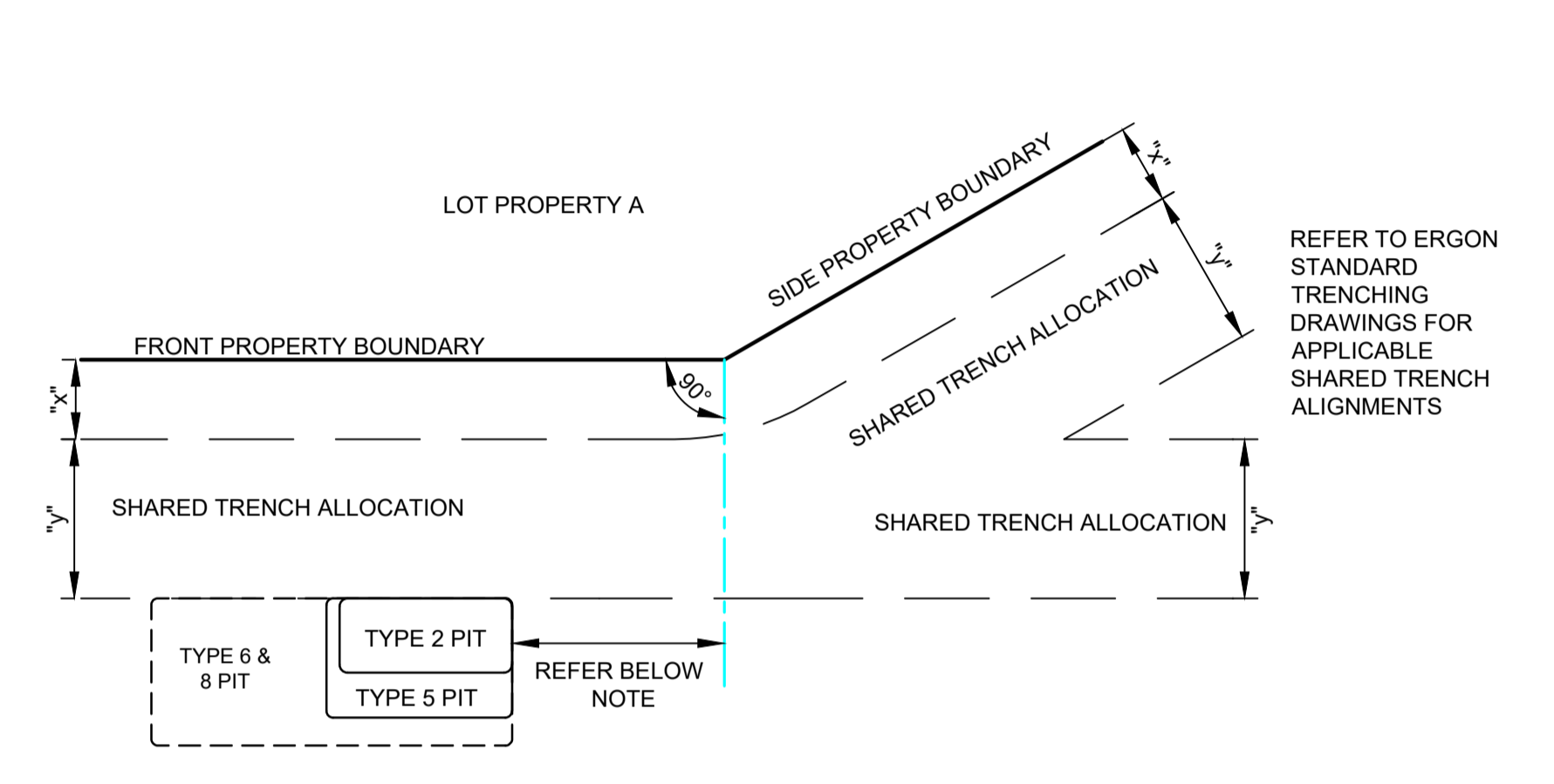
TYPICAL PIT DETAIL 5
 PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR AND FIRE HYDRANT.
 - LOCATE END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF DIVIDING BOUNDARY WHILST MAINTAINING MINIMUM 150 mm CLEARANCE FROM FIRE HYDRANT AND MARGIN SETT TO MINIMISE DRIVEWAY INTRUSION.



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.

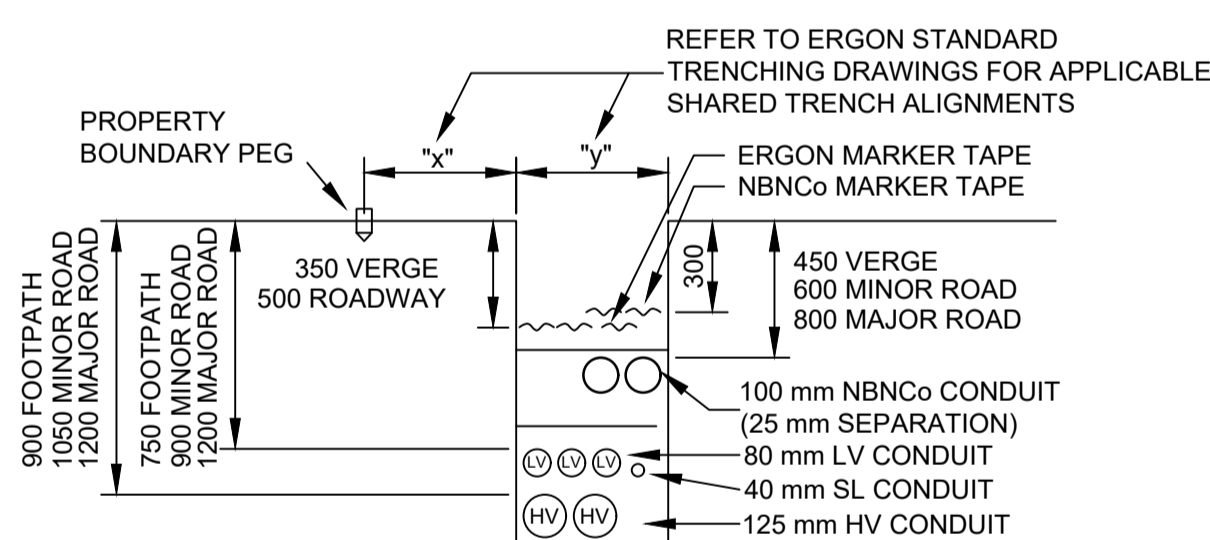


TYPICAL PIT DETAIL 7
 PIT OFFSET FROM BOUNDARY WITH AN ERGON PILLAR ON CORNER LOT.
 - LOCATE END OF PIT AS CLOSE AS PRACTICABLE TO THE INTERSECTING PROPERTY BOUNDARIES WHILST MAINTAINING CLEARANCE TO PILLAR EXCLUSION ZONE TO MINIMISE DRIVEWAY INTRUSION.

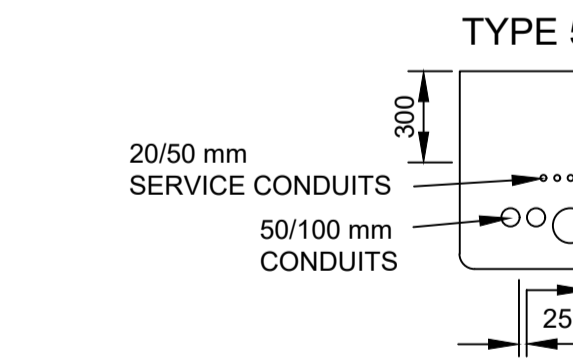
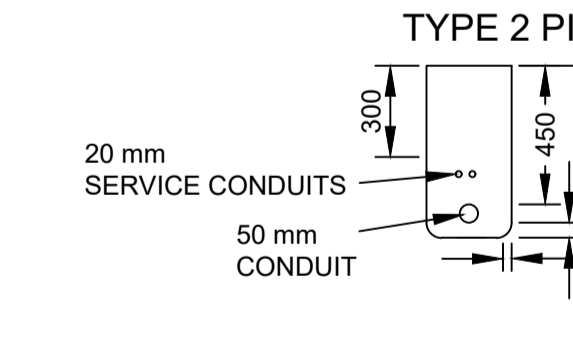
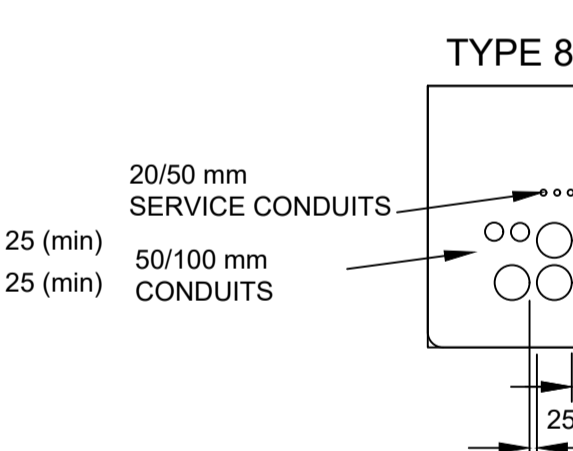
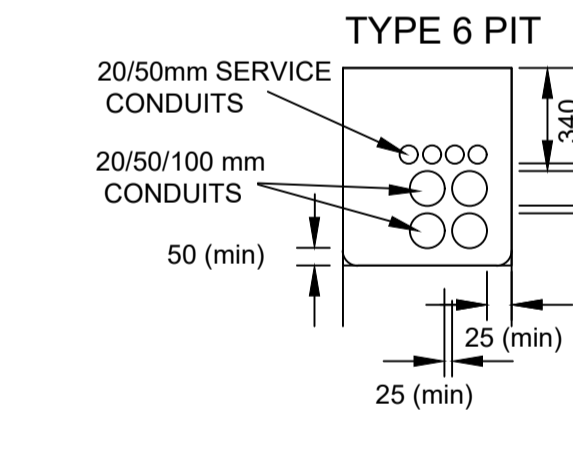
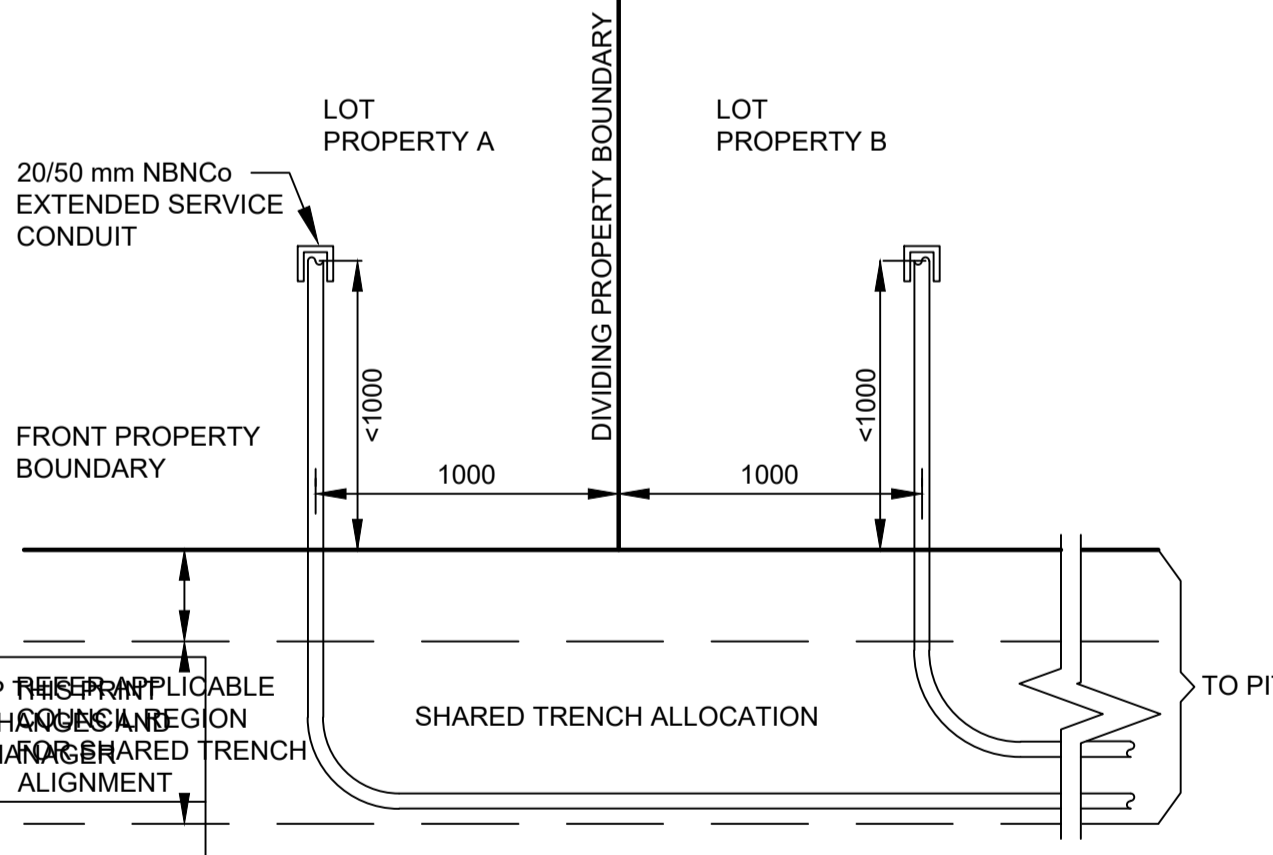


TYPICAL PIT DETAIL 8
 PIT OFFSET FROM PROPERTY TRUNCATION POINT.
 - LOCATE END OF PIT AS CLOSE AS PRACTICABLE TO THE TRUNCATION. WHERE APPLICABLE MAINTAIN REQUISITE COMPLIANCE TO FIGURE 13 IN THE NBN DEPLOYMENT GUIDELINES NBN-CTO-194.

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



TYPICAL PIT END WALL DETAILS
 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

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

CHANGES: YES/NO

CIVIL CONTRACTOR EXTENDED SERVICE CONDUITS TO DISTANT PIT

NAME: BMD CONSTRUCTION SCALE 1:25 @ A1

SIGNATURE: ANOTHY BURKE

DATE: 18/11/22

AS-BUILT

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CIVIL CONTRACTOR

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SIGNATURE: ANOTHY BURKE

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KEY PLAN

ENABLE#:	
STATE:	QLD
REGION:	NQ
FSA:	SAM
ADA:	
PROJECT No:	STG-M000101527
CADREF No:	3393-T02
SCALE:	AS SHOWN
SHEET No.:	2 OF 2
REV:	B

DRAWING TITLE:	THE RESERVE (KALYNDIA CHASE) STAGE 13C NBNC PIT AND PIPE DESIGN TYPICAL PIT LAYOUTS AND TRENCH DETAILS
ENABLE#:	
STATE:	QLD
REGION:	NQ
FSA:	SAM
ADA:	
PROJECT No:	STG-M000101527
CADREF No:	3393-T02
SCALE:	AS SHOWN
SHEET No.:	2 OF 2
REV:	B