

BILL OF MATERIAL				
NO OF LOTS: 36				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	4	P100	12	476.0
5	10	P50	4	124.2
8	1	P23	36	455.0
9	0			

TOTAL NUMBER OF PITS: 15
TOTAL NUMBER OF CONDUITS: 52
TOTAL LENGTH OF CONDUITS: 1055.2

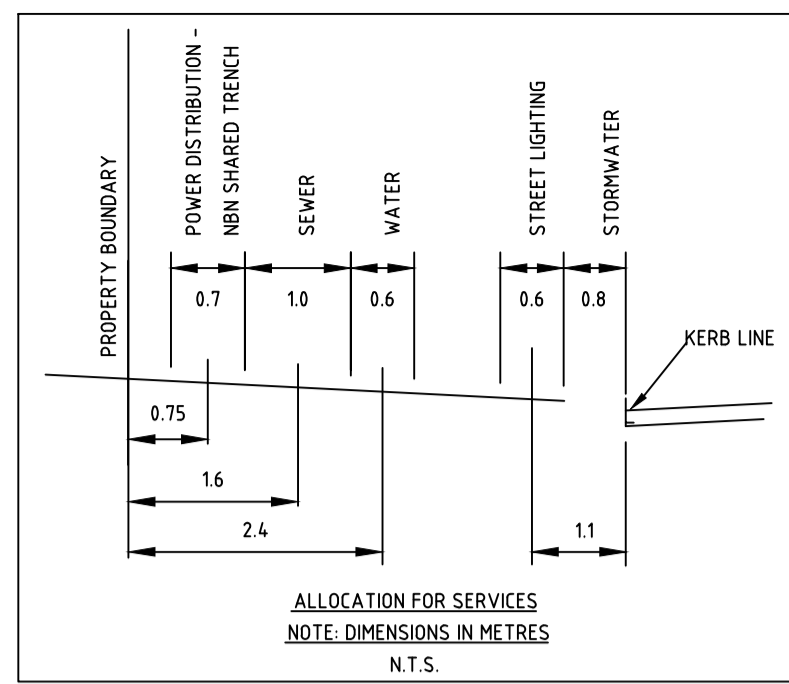
Development Information

Development Name: ZUCCOLI ESTATE
Developer Company: BELLAMACK PTY LTD

Development Address: ZUCCOLI PDE, PALMERSTON, NT

Authorised Rep: RYAN KRAKE
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CRM ID: AYCA-2AVAMX
Stage Number: 2G



CONSTRUCTION NOTES:

PIT LIDS TO BE LABELLED "NBN".

CONSTRUCTOR IS TO ENSURE PITS ARE INSTALLED IN NON-TRAFFICABLE AREAS, AT LEAST 15m AWAY FROM EPR ZONES AND CLEAR OF OTHER AUTHORITY EASEMENTS.

WARNING
BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate ONLY and their exact position should be proven on site. No guarantee is given that all existing services are shown.

For underground service locations contact:
Dial Before You Dig - Ph: 1100

NOTE:

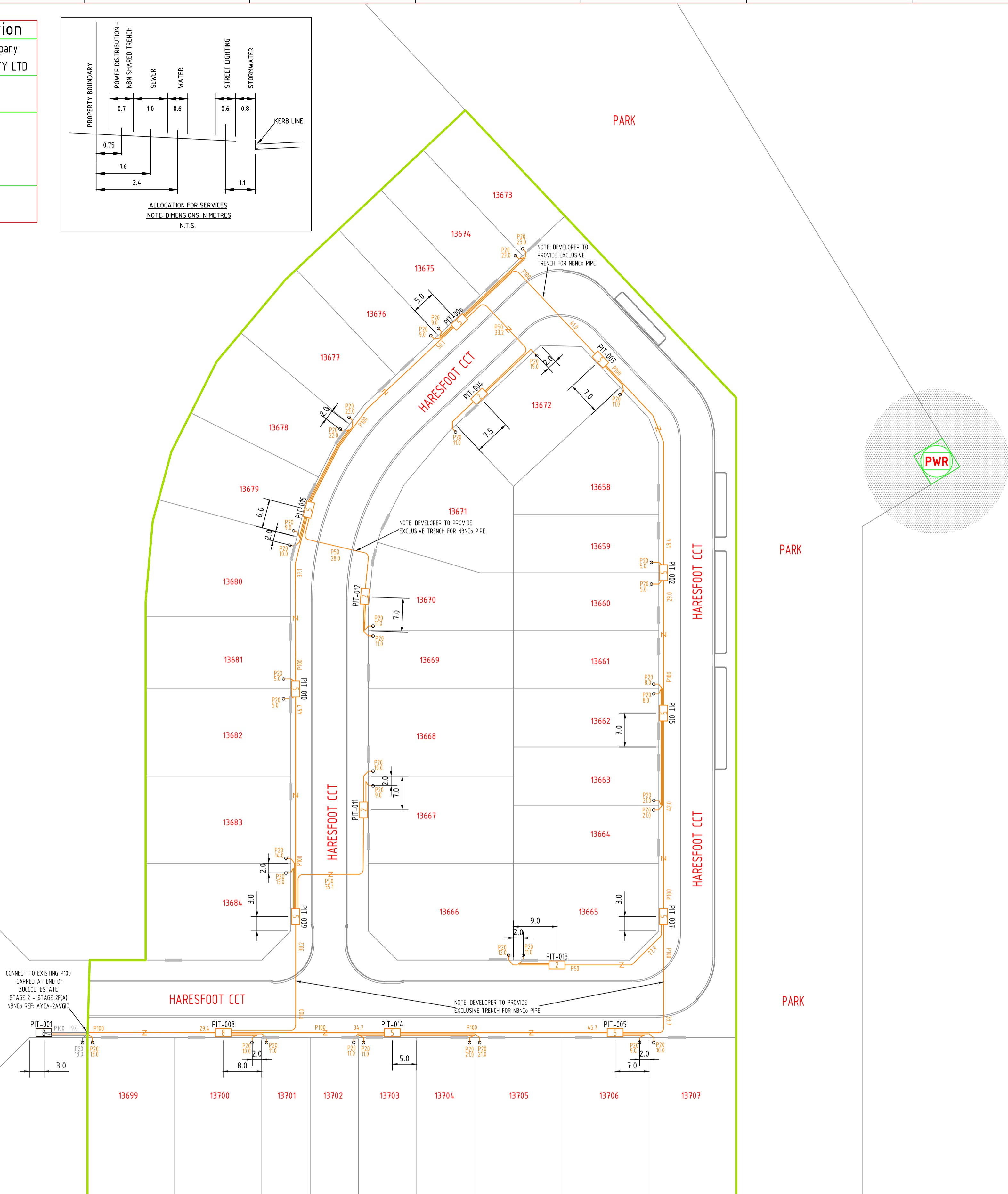
1. THIS DESIGN IS TO BE READ IN CONJUNCTION WITH NBN Co GUIDELINES:
"NEW DEVELOPMENTS: DEPLOYMENT OF THE NBN Co CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS".
ISSUE DATE: 12/12/16 VERSION: 7

ALL WORKS TO BE COMPLETED TO NBN Co SPECIFICATIONS AS OUTLINED IN THE ABOVE DOCUMENT.

PROJECT LEGEND	
--- CONDUIT MAIN	P2 P4-Service Drop Access Pit 650mm(L) x 280mm(W) x 555mm(D)
--- CONDUIT DROP	P5 P4-Local Network / Boundary Pit 700mm(L) x 450mm(W) x 450mm(D)
--- EXISTING NETWORK	P8 P4-Local Network Core / Dist. Pit 130mm(L) x 555mm(W) x 860mm(D)
--- TELECOMMUNICATIONS CONDUIT	P9 P4-Fibre Distribution Hub Pit 2000mm(L) x 555mm(W) x 900mm(D)
--- SHARED TRENCH	EPH FIBRE DISTRIBUTION HUB
	EPR HAZARD AREA

****ATTENTION****
CONSTRUCTORS DO NOT
change or alter job specifications unless first checking with designer.

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
D	22.02.2018	KT (G3NS)	DESIGN UPDATED TO REFLECT LATEST ELECTRICAL PLAN	SM (G3NS)
C	12.09.2017	GJ (G3NS)	REMOVED 14 LOTS THAT WERE CONSTRUCTED AS PART OF STAGE 2F(A)	SM (G3NS)
B	14.12.2015	SM (G3NS)	DESIGN REVIEW COMPLETED BY NBN, DRAWING ISSUED FOR CONSTRUCTION	GJ (G3NS)
A	03.09.2015	GJ (G3NS)	INITIAL DESIGN OF INTENT	SM (G3NS)



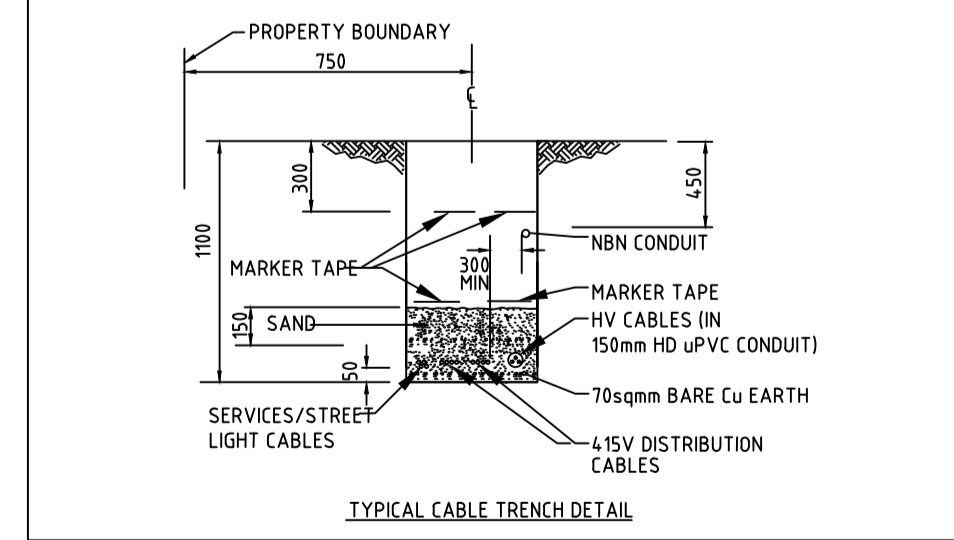
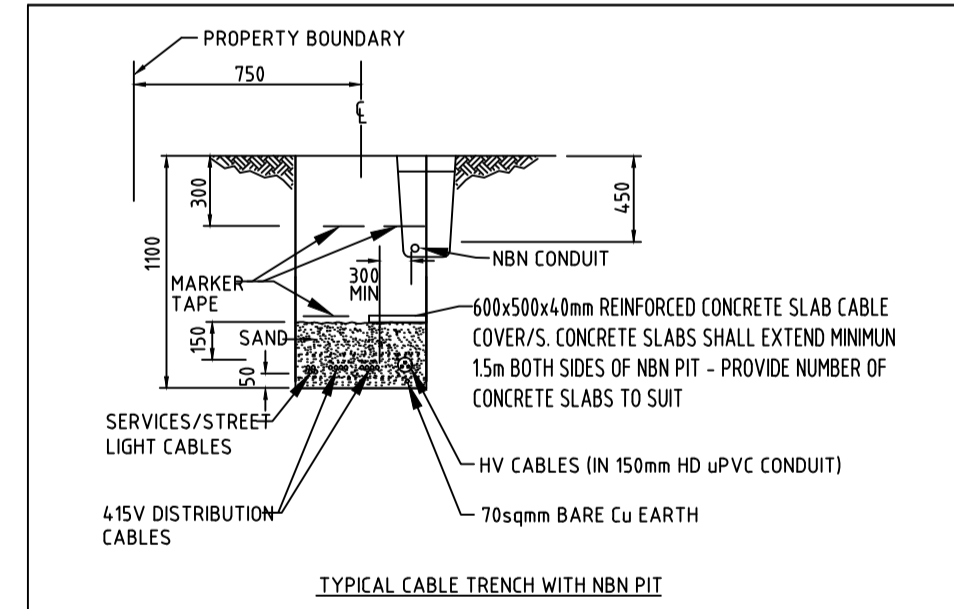
- NOTES:**
- COMMUNICATIONS CONDUITS, ASSOCIATED FITTINGS, CAPS, DRAW WIRE, HAUL ROPES, INSTALLATION, TRENCHING, BEDDING AND BACKFILL ARE TO BE PROVIDED IN ACCORDANCE WITH AS/ACIF 5008:2006, ACIF C524:2004, AS/NZS2032:2006, AS/ACIF 5009:2006 COUNCIL CIVIL WORKS SPECIFICATION, RELEVANT MANUFACTURERS RECOMMENDATIONS AND NBN Co "NEW DEVELOPMENTS: DEPLOYMENT OF THE NBN Co CONDUIT & PIT NETWORK - GUIDELINES FOR DEVELOPERS" (V7, 12 DEC 2016).
 - 100mm & 50mm LOCAL NETWORK & LATERAL CONDUITS, 20mm & 50mm SERVICE DROP CONDUITS TO BE WHITE. BOTH ARE TO BE STAMPED "COMMUNICATIONS" AND COMPLY WITH AS/ACIF5008:2006.
 - ALL CONDUIT BENDS SHALL BE PREFABRICATED. COMBINATIONS OF BENDS WITH ANGLES OF 15°, 22.5° AND 30° SHOULD BE USED TO CHANGE THE DIRECTION OF THE 100mm CONDUIT WHERE REQUIRED. 50mm CONDUIT BENDS UTILISED FOR LOCAL LATERAL DUCTS CAN UTILISE A 90° BEND WHERE REQUIRED.
 - THE MINIMUM RADIUS OF THE CONDUIT BENDS SHOULD BE A MINIMUM OF 8 X THE OUTER DIAMETER OF THE CONDUIT.
 - PROVIDE 20mm (MINIMUM) SERVICE DROP CONDUITS FOR SINGLE DWELLING UNITS AND 50mm (MINIMUM) SERVICE DROP CONDUITS FOR MULTI DWELLING UNITS. SERVICE DROP CONDUITS ARE TO BE EXTENDED FROM THE LOCAL NETWORK / BOUNDARY PIT OR SERVICE DROP ACCESS PIT TO THE LOT BOUNDARY AND SHALL BE CAPPED NO MORE THAN 1 METER INSIDE THE LOT.
 - CONDUIT DEPTHS AND COVER:

LOCATION	MINIMUM COVER
SERVICE DROP CONDUIT LESS THAN 3M FROM THE PIT TO THE BOUNDARY ENTRY	300mm
SERVICE DROP CONDUIT MORE THAN 3M FROM THE PIT TO THE BOUNDARY ENTRY	450mm
VERGE (WALKWAYS, FOOTPATHS)	450mm
ROAD (NON-STATE OR TERRITORY)	600mm
ROAD CROSSING	800mm TO 1200mm (TYPICALLY)

- CONDUITS SHOULD ENTER THE PITS VIA THE END OF THE PIT ONLY AND BE LOCATED CENTRALLY WITH AT LEAST 50mm OF SPACE BETWEEN CONDUIT EXTERIOR AND THE PIT FLOOR. WHERE MULTIPLE DUCTS ENTER A PIT 25mm (MINIMUM) SEPARATION IS REQUIRED BETWEEN EACH DUCT.
- ALL CONDUIT ENDS ARE TO FINISH SQUARE AND FLUSH WITH THE PIT END WALLS AND BE FITTED WITH BUSHES FLUSH WITH THE PIT WALL ENDS. ALL ENTRIES SHOULD BE SEALED BETWEEN THE CONDUIT EXTERIOR AND THE PIT WALL.
- A DRAW STRING OR SIMILAR (SUITABLE FOR USE AS A CABLE HAULING AID) SHALL BE INSTALLED WITHIN EACH CONDUIT AND THE CONDUIT ENDS SEALED.
- MINIMUM RADIAL CLEARANCE BETWEEN NBN Co CONDUITS AND OTHER UNDERGROUND SERVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING TABLE:

SERVICES ITEM	MINIMUM RADIAL CLEARANCES
GAS - LARGE MAIN (OVER 110mm DIA)	300mm
GAS - SMALL MAIN (110mm DIAMETER OR LESS)	150mm
ELECTRICAL - HIGH VOLTAGE	300mm
ELECTRICAL - LOW VOLTAGE	100mm*2
WATER - HIGH CAPACITY MAIN	300mm
WATER - LOCAL RETICULATION	150mm
SEWER - MAIN	300mm
SEWER - CONNECTION PIPE	150mm
OTHER TELECOMMUNICATIONS	100mm*1
DRAINAGE - MAIN	300mm
DRAINAGE - CONNECTION PIPE	150mm

*1 - REDUCED SEPARATION IS POSSIBLE WHERE ALL PARTIES ARE CONSULTED AND AGREEMENT IS REACHED
*2 - ONLY WHERE PROTECTION BARRIERS ARE USED, FOR EXAMPLE, CONDUIT, BEDDING, MARKER TAPE & COVER BATTEN



NBNCO APPROVAL RECORD:

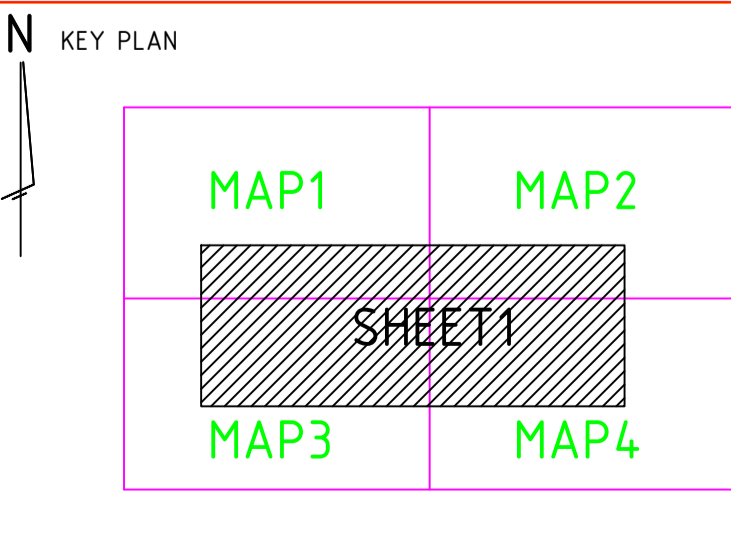
SIGNATURE _____ DATE _____

DD _____
WD _____
AB _____

QUALITY RECORD :

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DRAWING TITLE:
NBNCo PIT & PIPE DESIGN
ZUCCOLI ESTATE STAGE 2 - STAGE 2G
PALMERSTON
36 LOTS

STATE: NT REGION: _____
FSA: _____ FSAM: _____ FDA: _____

PROJECT No: AYCA-2AVAMX

CADREF No: G3NS0908

SCALE: NTS SHEET No. 1 OF 1 REV. D