Legend / Symbols

Symbol	Description
POP	PRIVATELY OPERATED PAYPHONES
APS	ASSISTANCE TELEPHONES (EG ELEVATOR AND ROADSIDE PHONES)
MET	APPLY TO OTHER TYPE OF METERING POINT (any service)
ATM	ATM
PRK	BANDSTAND / ROTUNDA / SPORTS FIELD STANDS / OTHER PARK BUILDING
PSD	POINT OF SALE DEVICE (vending machine, ticket machine)
TRF	Traffic Lights / Traffic Light Controller / Variable Speed Sign / Traffic Signal
PBT	Public Transport (bus stop, tram stop, railway station, taxi rank, ferry wharf)
SWT	Links / Link Pole / MV / HV Links / ABC Links / Dynamic Switch / Airbrake Switch / Isolator
WAT	Water Infrastructure (storage, pumps, valves water supply, waste water, sewerage stations)
GAS	Natural Gas Infrastructure
CAM	Camera (security / traffic)
CTL	Bridge control, swing bridge, traffic control gates, railway boom gates)
MOB	Mobile Phone Tower / radio antenna
LIT	Street Lighting Pole / street light controller
CAR	Unmanned (council) car park
PWR	Transformer / Kiosk / Pad Mount Sub-station / Pole Mount Transformer
NAP-ID (N)	Network Access Point (NAP)
MPT-ID (N)	Multiport (MPT) n is the number of ports (eg 4,6,8,12)
	Penetration

CABLE TRAY:

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.

DANGER
LASER BEAM
EYE PROTECTION MUST BE WORN

SAFETY FIRST
SAFETY STARTS WITH YOU

NBN.CO
N

Splice Joints / Pit types

Symbol	Description
TJL-ID	Splice Joint on a Transit Cable (TJL)
DJL-ID	Splice Joint on a Distribution Cable (DJL)
LJL-ID	Splice Joint on a Local Cable (LJL)
MJL-ID	Splice Joint on a Tether Cable (MJL)
AJL-ID	Zone Terminal / Splice Joint (AJL)
FDH-ID	Fibre Distribution Hub-FDH Cabinet with Cabinet ID shown
PIT-ID 2	Service Drop Access Pit (650mmX280mmX565mm)
PIT-ID 5	Network Boundary/Local Network Pit (Single Lid) (700mmX450mmX650mm)
PIT-ID 6	Distribution/Local Network Connection Pit (Dual Lid) (1360mmX555mmX650mm)
PIT-ID 8	Distribution/Local Network Connection Pit (1360mmX555mmX860mm)
PIT-ID 9	Fibre Distribution Hub (FDH) Pit (2000mmX555mmX900mm)
	Shared Trench
NTD	nbn NTD
OBBU	NBN Optional Battery Backup Unit
PDH	nbn Premises Distribution Hub
CTL	nbn Cable Transition Location
FDT	nbn Fibre Distribution Terminal
FIP	nbn NTD Fire Indicator Panel
Riser	Riser
LIFT	nbn NTD LIFT
AP	Access Panel
SEC	nbn NTD Security
CET	nbn Communications Earth Terminal
DES QTY	Example of descriptor box that will show the type of work and the quantity involved
	nbn manhole
	Existing Telstra manhole
FAN AAAA	Fan Access Node site (FAN)
138A	Multi Dwelling Unit (MDU)

Depth / Markers

Symbol	Description
DEPTH-- ALIGN--	DEPTH OVER ALIGNMENT SYMBOL TO BE USED WITH EVERY MARKER POST
X	Symbol to be used when replacing/removing existing network
PCD	Premise Connection Device (PCD)
POLE-ID	Pole (showing pole identity)
5	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
M < _ >	NBN MARKER POST MARKER POST TO BE NUMBERED

Conduit Configuration

CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER :
< L460 NBN Support - Underground >
AND TERMINOLOGY CATEGORIZED INTO TWO GROUPS IN THE DRAWING AS PER BELOW:
1- DUCT   USED WITH LOCAL NETWORK
2-CONDUIT   USED WITH LEAD-IN DROPS
ATTRIBUTES ATTACHED ARE AS SHOWN

CONDUIT SIZE — PIT-ID 9 — P100 — 26.5 — PIT-ID 5 — CONDUIT LENGTH

CABLE CONFIGURATION

CABLE TYPE:
CABLES DIVIDE INTO FOLLOWING CATEGORIES AND ARE COLOUR CODED:

TRANSIT CABLES	COLOUR NO: 1	312F
DISTRIBUTION CABLES	COLOUR NO: 190	288F
LOCAL CABLES	COLOUR NO: 4	144F
TETHER CABLES	COLOUR NO: 3	12F
LEAD IN (DROP) CABLES	COLOUR NO: 5	1F

CABLE LOCATION:
CABLE LOCATIONS DETERMINES WHERE THE CABLE IS USED AS PER BELOW:

IN-CONDUIT — 288F
AERIAL — 144F
BURIED — 96F

CABLE SIZE:
CABLE SIZE IS THE TOTAL NUMBER OF OPTIC FIBRES IN THE CABLE AND IS DETERMINED BY A NUMBER FOLLOWED BY F (FIBRE) OR R (RIBBON) IN THE MIDDLE OF THE LINE TYPE

576F

LINE TYPES ARE CATEGORIZED INTO 3 TYPES:
1- IN-CONDUIT: (XXXF) 312F , ..
2- AERIAL: (XXXF_A) 144_A , ..
3- BURIED: (XXXF_B) 12_B , ..

EXAMPLE:
144 FIBRE AERIAL LOCAL CABLE — 144F
1 FIBRE BURIED DROP CABLE — 1F — 1F
432 FIBRE IN-CONDUIT TRANSIT CABLE — 48F

FSA Boundary
FSAM Boundary
FDA Boundary

PRELIMINARY

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DESIGN IT TELCO PTY . LTD

KEY PLAN

DRAWING TITLE:
HEADWORKS - PIT & PIPE PROJECT
215 BADGERYS CREEK ROAD, BRINGELLY
BRADFIELD CITY
STAGE 1

ENABLE#:
STATE: NSW   REGION:
FSA: SAM: ADA:
PROJECT No: STG-W000???
CADREF No: PN 36824
SCALE N/A   SHEET No. OF   REV. E

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
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MINIMUM SEPARATIONS ARE:
- GAS MAIN (≤ø75mm) - 150mm
- GAS MAIN (≤ø110mm) - 300mm
- LV CABLES - 100mm
- HV CABLES - 300mm
REFER TYPICAL CROSS SECTION DIAGRAM.

4. NO PITS TO BE INSTALLED WITHIN 15m FROM ANY PAD MOUNTED TRANSFORMER. i.e. NO PITS TO BE INSTALLED WITHIN THE EPR (Earth Potential Rise) ZONE.

5. PITS TO BE INSTALLED CLEAR OF PROPOSED DRIVEWAYS

6. EXCLUSIVE ROAD CROSSING

7. FOR REMOVAL/RELOCATION OF EXISTING COMMS POLES & OVERHEAD NETWORK - DEVELOPER AND/OR PROJECT MANAGER IS TO LIAISE WITH:
* TELSTRA - NETWORK INTEGRITY SERVICES
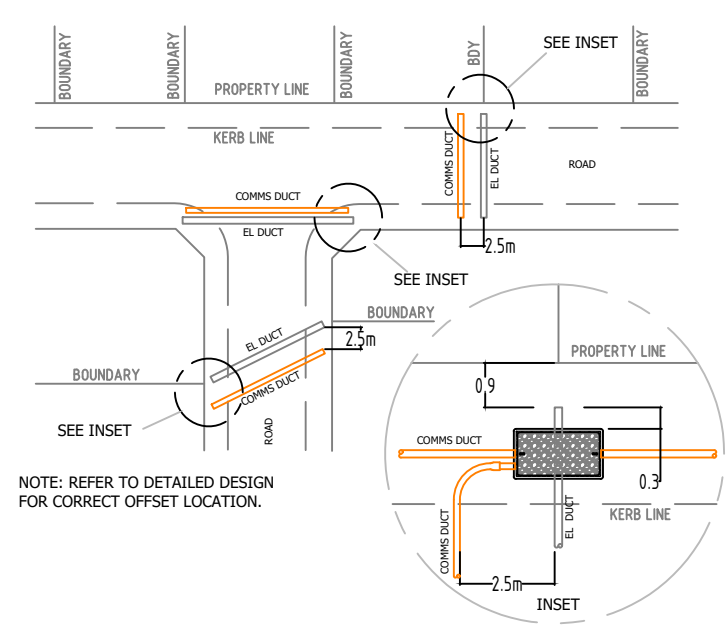PH. 1800 810 443 - NetworkIntegrity@team.telstra.com
* NBN RELOCATION WORKS GROUP
RelocationWorks@nbnco.com.au

INTERNAL STEP

NBN NOMINAL DIMENSIONS (mm)

PIT TYPE	L	W	D
Local Network Pit/Network Boundary Pit	700	450	650
Local Network Connection Pit	1360	555	860
Distribution Pit	1360	555	860
FDH PIT	2000	555	900

TYPICAL ROAD CROSSING CONFIGURATION

OFFSET FROM ELECTRICAL DUCTS TO ALLOW FOR SIDE ENTRY INTO PIT & CORRECT PIT PLACEMENT ON BOUNDARY.

NOTE: REFER TO DETAILED DESIGN FOR CORRECT OFFSET LOCATION.

TYPICAL SHARED TRENCH DETAIL REFER TO NS 130 NTS

DESIGN & CONSTRUCTION AS PER NBN GUIDELINES DOCUMENT.
" INSTALLING PIT AND CONDUIT INFRASTRUCTURE - GUIDELINES FOR DEVELOPERS " - 08/07/2018

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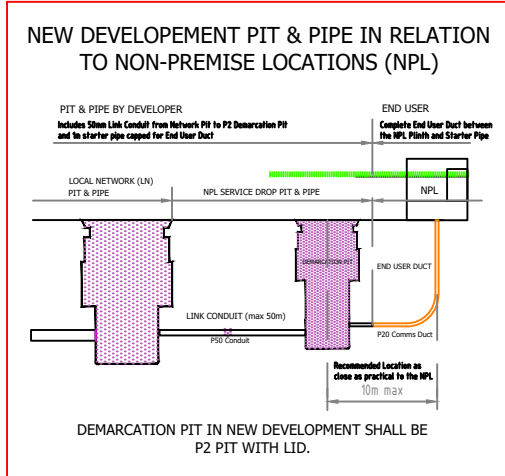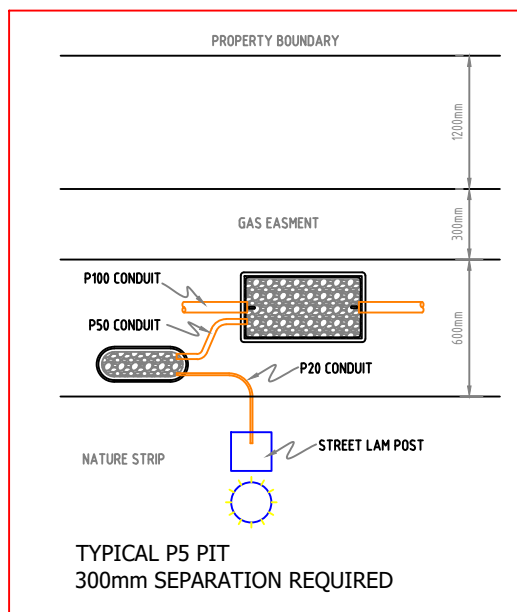PIT AND PIPE ONLY WITH-IN THE DEVELOPMENT

SDU Development Information

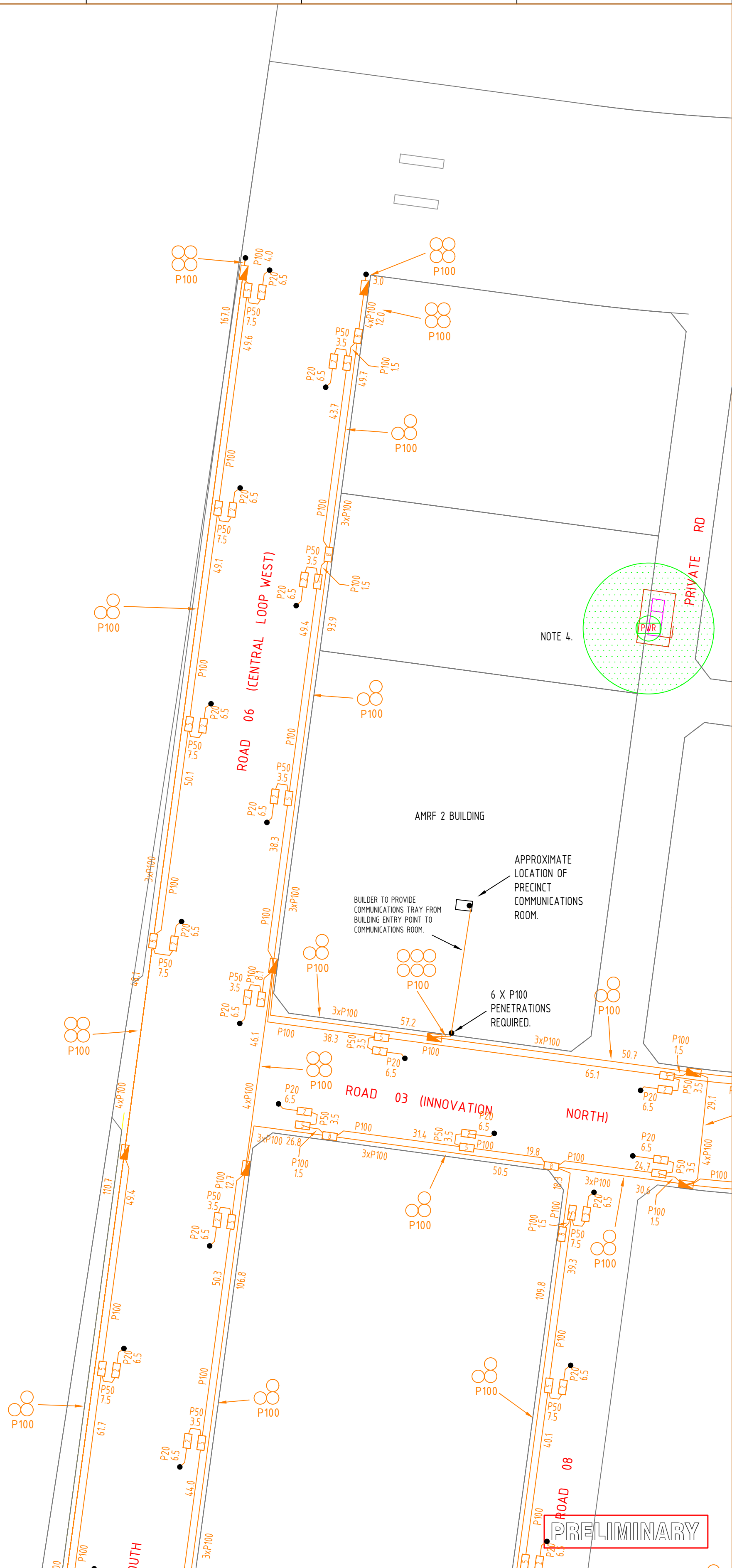|	
Development Name:	BRADFIELD CITY
Developer Company:	SMEC
Development Address:	215 BADGERYS CREEK ROAD, BRINGELLY
Authorised Rep:	MEHUL PATEL
Phone:	02 8850 9076
E-Mail:	Schatfield@bennelong.com

nbn Reference Number: STG-W000???	Stage Number: BRADFIELD STAGE 1
	Design Revision: D

BILL OF MATERIAL

NO OF LOTS:LOTS

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	84	P100	P100	17049.2
5	76	P50	P50	460.9
6	0	P20	P20	588.6
8	18			
MANHOLE	31			

TOTAL NUMBER OF PITS:	205
TOTAL NUMBER OF MANHOLES:	31
TOTAL NUMBER OF CONDUITS:	0
TOTAL LENGTH OF CONDUITS:	20033.5

PROPERTY BOUNDARY
GAS EASEMENT
P100 CONDUIT
P50 CONDUIT
P20 CONDUIT
NATURE STRIP
STREET LAM POST
TYPICAL P5 PIT
300mm SEPARATION REQUIRED

NEW DEVELOPEMENT PIT & PIPE IN RELATION TO NON-PREMISE LOCATIONS (NPL)
DEMARCATION PIT IN NEW DEVELOPMENT SHALL BE P2 PIT WITH LID.

155
LOT 5
DP 243457

BADGERYS CREEK RD

ROAD 02 (METRO LINK BLVD)

ROAD 06 (CENTRAL LOOP WEST)

ROAD 03 (INNOVATION NORTH)

INNOVATION NORTH

PRIVATE RD

ROAD 08

NOTE 4.

AMRF 2 BUILDING

APPROXIMATE LOCATION OF PRECINCT COMMUNICATIONS ROOM.

BUILDER TO PROVIDE COMMUNICATIONS TRAY FROM BUILDING ENTRY POINT TO COMMUNICATIONS ROOM.

6 X P100 PENETRATIONS REQUIRED.

PRELIMINARY

P100

STRICTLY CONFIDENTIAL

NBNCO APPROVAL RECORD:
SIGNATURE   DATE
☐ DD
☐ WD
☐ AB
QUALITY RECORD :

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N KEY PLAN

DESIGN IT TELCO PTY . LTD

DRAWING TITLE:
HEADWORKS - PIT & PIPE PROJECT
215 BADGERYS CREEK ROAD, BRINGELLY
BRADFIELD CITY
STAGE 1

ENABLE#:
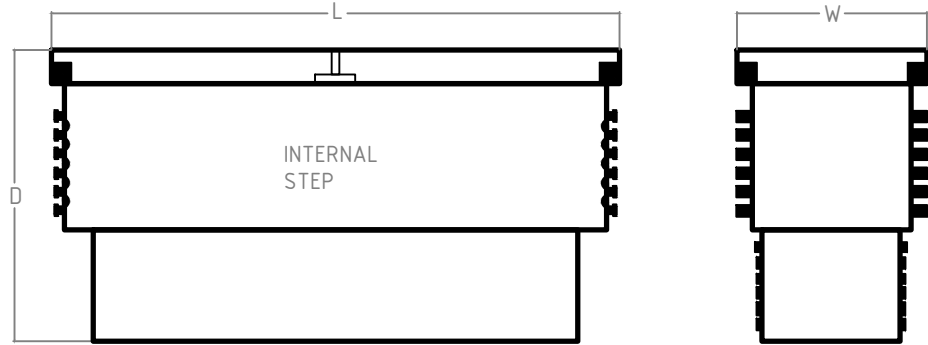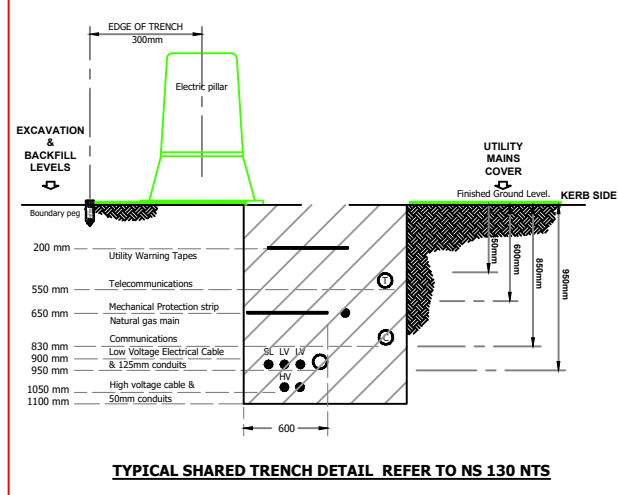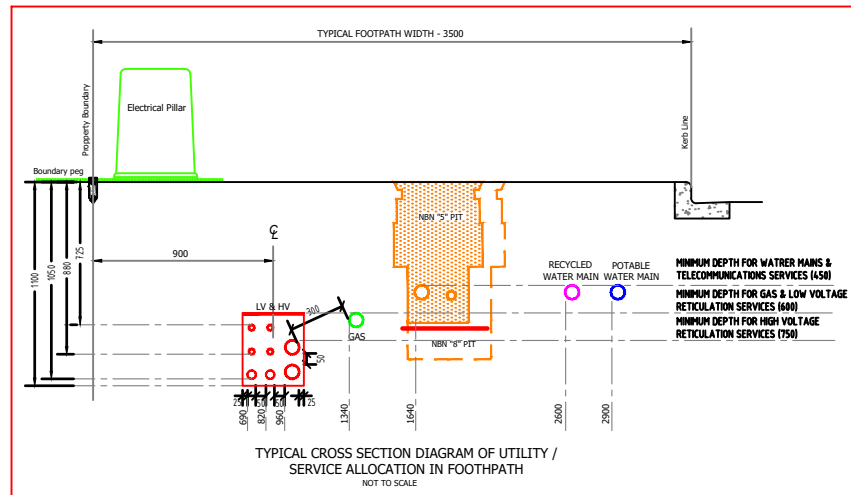STATE: NSW   REGION:
FSA: SAM: ADA:
PROJECT No: STG-W000???
CADREF No: PN 36824

SCALE	SHEET No.	REV.
N/A	1 OF 5	E

INTERNAL STEP

NBN NOMINAL DIMENSIONS (mm)			
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TYPICAL ROAD CROSSING CONFIGURATION

OFFSET FROM ELECTRICAL DUCTS TO ALLOW FOR SIDE ENTRY INTO PIT & CORRECT PIT PLACEMENT ON BOUNDARY.

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SHEET 2

(METRO LINK BLVD)

ROAD 02

(METRO LINK BLVD)

ROAD 02

(METRO LINK

PRIVATE RD

PRELIMINARY

DIAL BEFORE YOU DIG
www.1100.com.au

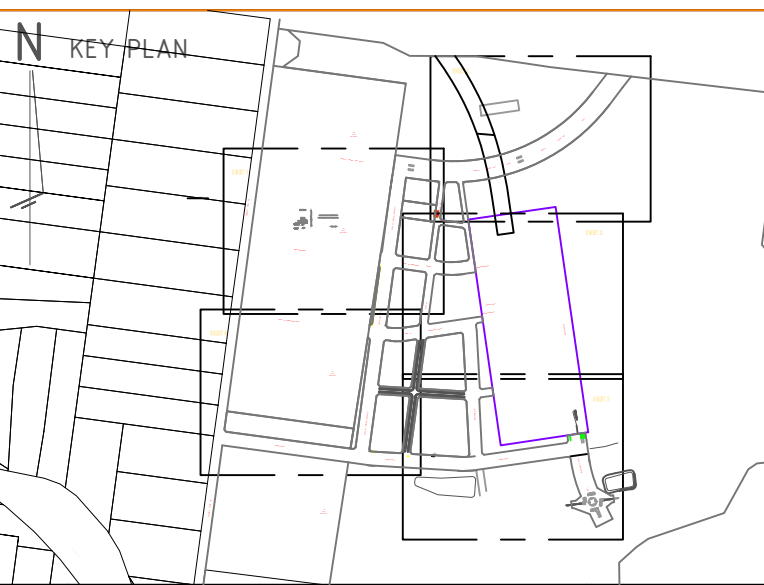| REV	DATE	DRAFTER	DESCRIPTION	APPROVED
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STRICTLY CONFIDENTIAL

DESIGN IT TELCO PTY . LTD

N KEY PLAN

DRAWING TITLE:
HEADWORKS – PIT & PIPE PROJECT
215 BADGERYS CREEK ROAD, BRINGELLY
BRADFIELD CITY
STAGE 1

ENABLE#:

STATE:	NSW		REGION:
FSA:		SAM:	ADA:

PROJECT No: STG-W000???

CADREF No: PN 36824

SCALE	SHEET No.		REV.
N/A	2 OF 5		E

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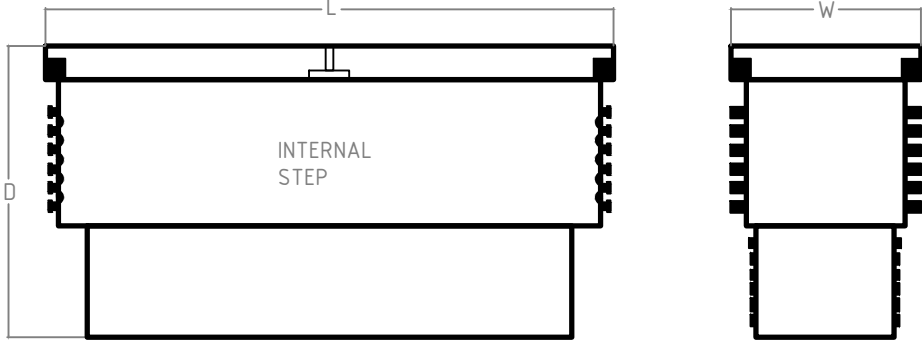REFER TYPICAL CROSS SECTION DIAGRAM.

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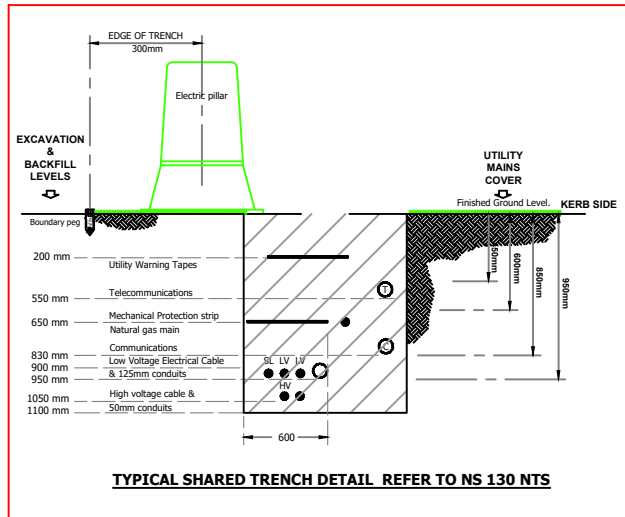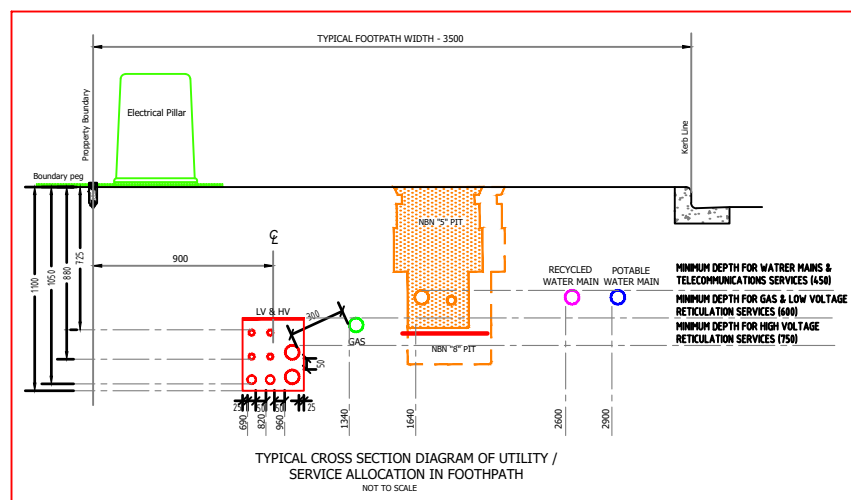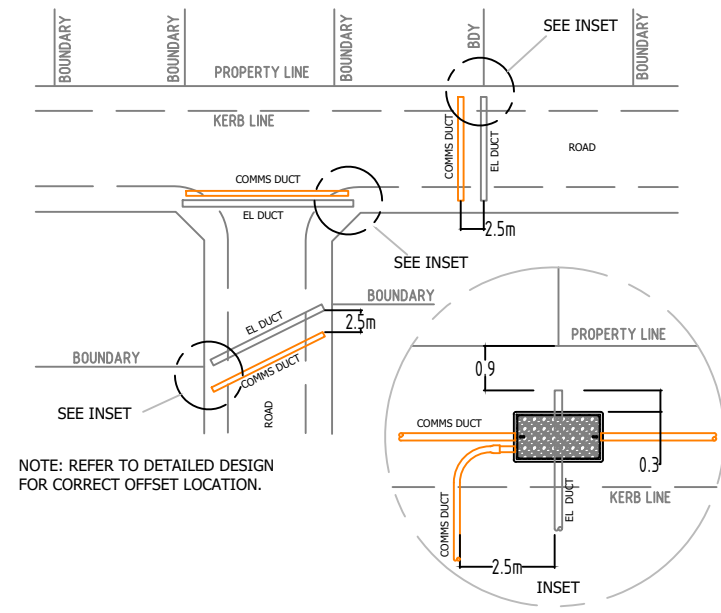
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PH. 1800 810 443 − NetworkIntegrity@team.telstra.com
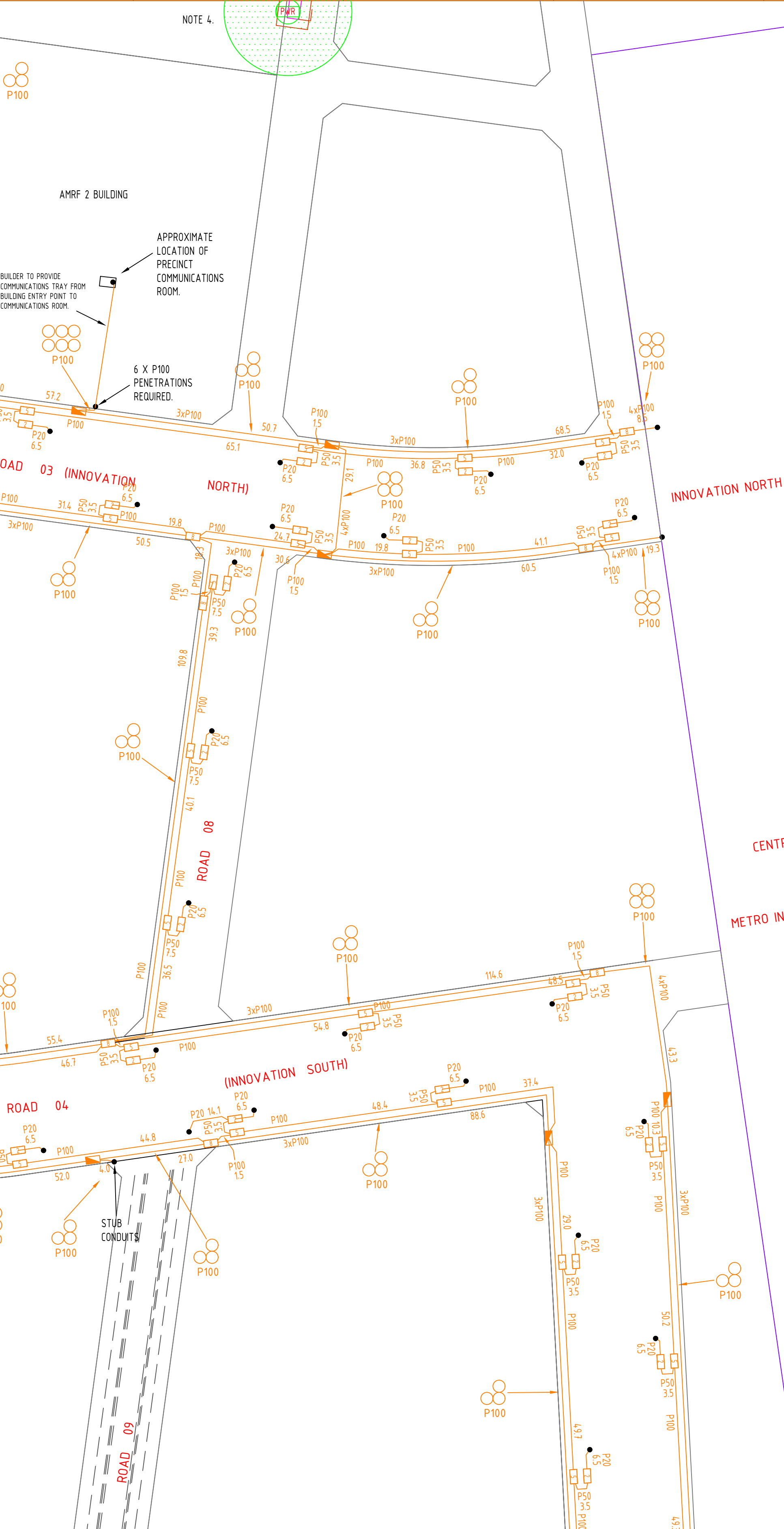• NBN RELOCATION WORKS GROUP
RelocationWorks@nbnco.com.au

NBN NOMINAL DIMENSIONS (mm)

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NOTE: REFER TO DETAILED DESIGN FOR CORRECT OFFSET LOCATION.

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ROAD 03 (INNOVATION NORTH)

INNOVATION NORTH

ROAD 08

CENTRAL PARK /

METRO INTERFACE

ROAD 04

(INNOVATION SOUTH)

STUB CONDUITS

ROAD 09

INNOVATION EAST

PRELIMINARY

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KEY PLAN

DESIGN IT TELCO PTY . LTD

DRAWING TITLE:
HEADWORKS − PIT & PIPE PROJECT
215 BADGERYS CREEK ROAD, BRINGELLY
BRADFIELD CITY
STAGE 1

ENABLE#:

STATE: NSW		REGION:
FSA:	SAM:	ADA:

PROJECT No. STG-W000???

CADREF No. PN 36824

SCALE	SHEET No.		REV.
N/A	3 OF 5		E

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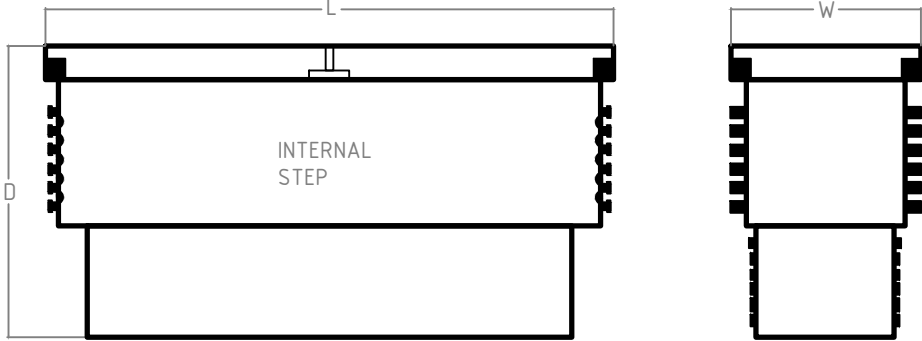REFER TYPICAL CROSS SECTION DIAGRAM.

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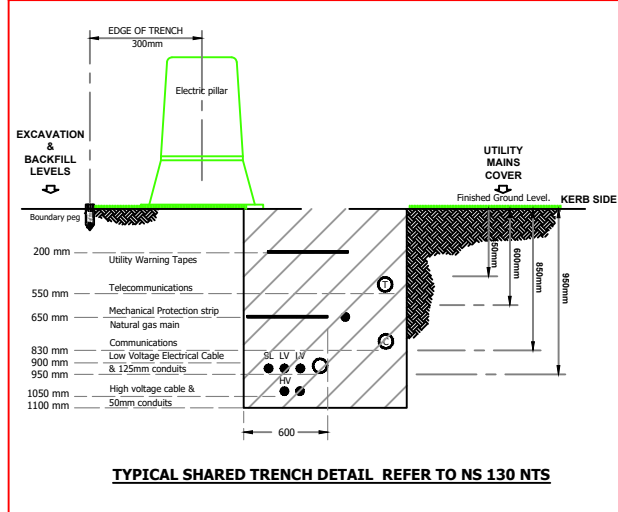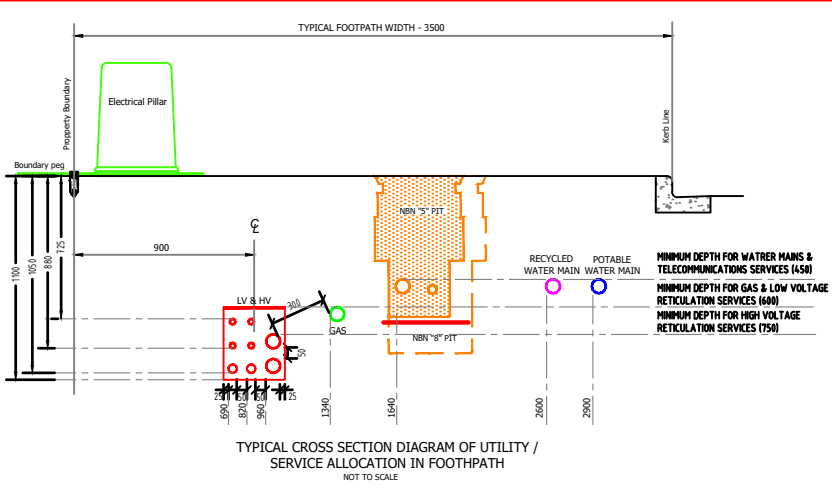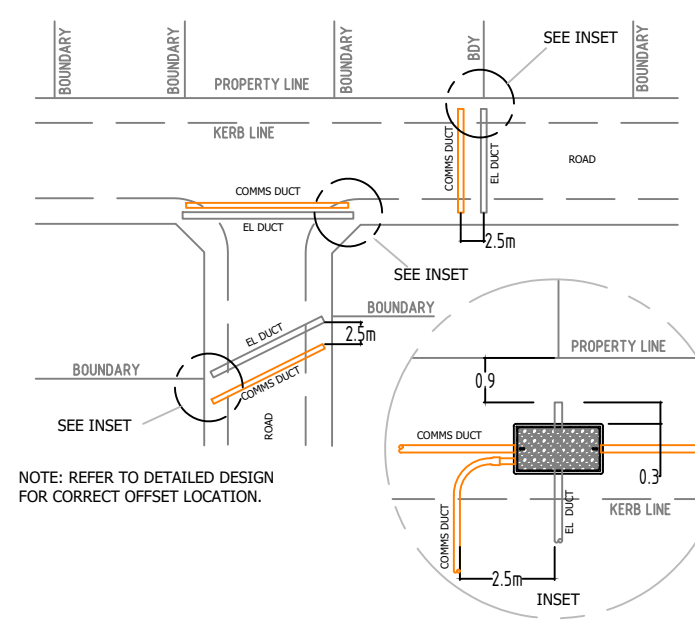
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TYPICAL SHARED TRENCH DETAIL REFER TO NS 130 NTS

SHEET 4

ROAD 07 (INNOVATION SOUTH)

ROAD 04

115
LOT 1
DP 244113

CENTRAL LOOP SOUTH

CENTRE SOUTH

ROAD 06 (CENTRAL LOOP WEST)

ROAD 09

ROAD 10

ROAD 09

STUB CONDUITS

CENTRE SOUTH

PRELIMINARY

STRICTLY CONFIDENTIAL

NBNCO APPROVAL RECORD:

	SIGNATURE	DATE
DD		
WD		
AB		

QUALITY RECORD :

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
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SCALE	SHEET No.		REV.
N/A	4	OF 5	E

NOTES:

1. ALL PIT & PIPE INFRASTRUCTURE IS TO BE INSTALLED ACCORDING TO NBN Co's CONDUIT AND PIT NETWORK GUIDELINES (DOCUMENT NUMBER NBN-TE-CTO-194 VERSION 7.0 OR LATER).

2. ——— DENOTES SHARED TRENCHES

3. CONDUITS TO BE INSTALLED IN SHARED TRENCHES, BUT NOT VERTICALLY ABOVE OR BELOW OTHER UTILITIES. CONDUITS MAY BE INSTALLED WITHIN THE ENDEAVOUR ENERGY ASSET ALLOCATION SPACE IF MANDATORY RADIAL SEPARATION FROM OTHER SERVICES IS MAINTAINED AT ALL TIMES.
MINIMUM SEPARATIONS ARE:
– GAS MAIN (≤⌀75mm) – 150mm
– GAS MAIN (≤⌀110mm) – 300mm
– LV CABLES – 100mm
– HV CABLES – 300mm
REFER TYPICAL CROSS SECTION DIAGRAM.

4. NO PITS TO BE INSTALLED WITHIN 15m FROM ANY PAD MOUNTED TRANSFORMER. i.e. NO PITS TO BE INSTALLED WITHIN THE EPR (Earth Potential Rise) ZONE.

5. PITS TO BE INSTALLED CLEAR OF PROPOSED DRIVEWAYS

6. EXCLUSIVE ROAD CROSSING

7. FOR REMOVAL/RELOCATION OF EXISTING COMMS POLES & OVERHEAD NETWORK – DEVELOPER AND/OR PROJECT MANAGER IS TO LIAISE WITH:
* TELSTRA – NETWORK INTEGRITY SERVICES
PH. 1800 810 443 – NetworkIntegrity@team.telstra.com
* NBN RELOCATION WORKS GROUP
RelocationWorks@nbnco.com.au

NBN NOMINAL DIMENSIONS (mm)

PIT TYPE	L	W	D
Local Network Pit/Network Boundary Pit	700	450	650
Local Network Connection Pit	1360	555	860
Distribution Pit	1360	555	860
FDH PIT	2000	555	900

TYPICAL ROAD CROSSING CONFIGURATION

OFFSET FROM ELECTRICAL DUCTS TO ALLOW FOR SIDE ENTRY INTO PIT & CORRECT PIT PLACEMENT ON BOUNDARY.

NOTE: REFER TO DETAILED DESIGN FOR CORRECT OFFSET LOCATION.

TYPICAL CROSS SECTION DIAGRAM OF UTILITY / SERVICE ALLOCATION IN FOOTPATH

TYPICAL SHARED TRENCH DETAIL REFER TO NS 130 NTS

DESIGN & CONSTRUCTION AS PER NBN GUIDELINES DOCUMENT.
" INSTALLING PIT AND CONDUIT INFRASTRUCTURE - GUIDELINES FOR DEVELOPERS " - 08/07/2018

CIVIL CONTRACTORS ARE NOT TO LINK INTO EXISTING TELSTRA OR OTHER SERVICE PROVIDER NETWORK. NEW NETWORK WILL BE LINKED UNDER FUTURE PROJECT.
PIT AND PIPE ONLY WITH-IN THE DEVELOPMENT

PRELIMINARY

ROAD 09
INNOVATION WEST
CENTRE SOUTH
ROAD 01 INNOVATION
EAST1
STUB CONDUITS
NOTE 4.

STRICTLY CONFIDENTIAL

NBNCO APPROVAL RECORD:
SIGNATURE   DATE
☐ DD
☐ WD
☐ AB
QUALITY RECORD :

NBNCO DISCLAIMER
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REV	DATE	DRAFTER	DESCRIPTION	APPROVED
–				
–				
–.E.01	06/12/2023	CIPRIAN PASCU	PRELIMINARY – CADATRE LAYOUT UPDATED ROAD 9 & 10 REMOVED LID TO AMRF	NAME
–.D.01	20/11/2023	CIPRIAN PASCU	PRELIMINARY – PIT & PIPE AMENDED BOQ	NAME
–.C.01	07/09/2023	CIPRIAN PASCU	PRELIMINARY – PIT & PIPE AMENDED	NAME
–.B.01	15/08/2023	CIPRIAN PASCU	PRELIMINARY – UPDATED AS PER REF1	NAME
–.A.01	15/08/2023	CIPRIAN PASCU	PRELIMINARY	NAME

DESIGN IT TELCO PTY . LTD

N KEY PLAN

DRAWING TITLE:
HEADWORKS – PIT & PIPE PROJECT
215 BADGERYS CREEK ROAD, BRINGELLY
BRADFIELD CITY
STAGE 1

ENABLE#:
STATE: NSW   REGION:
FSA: SAM: ADA:
PROJECT No. STG-W000???
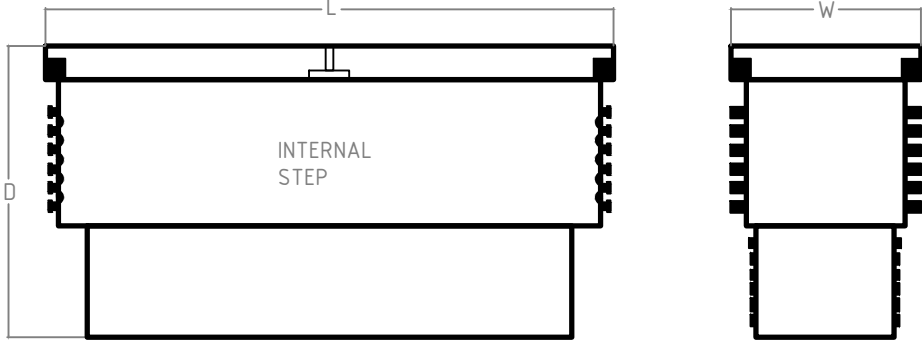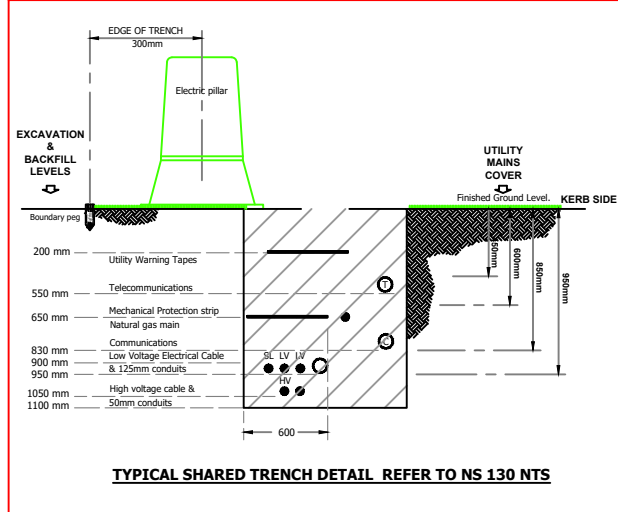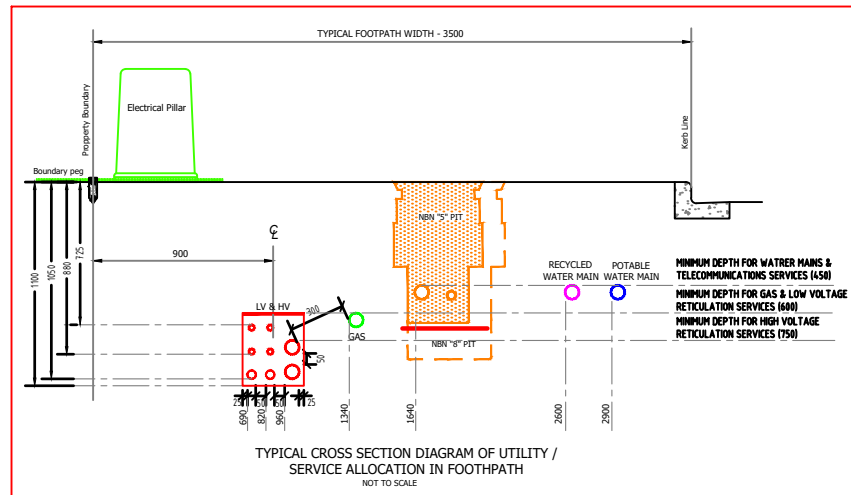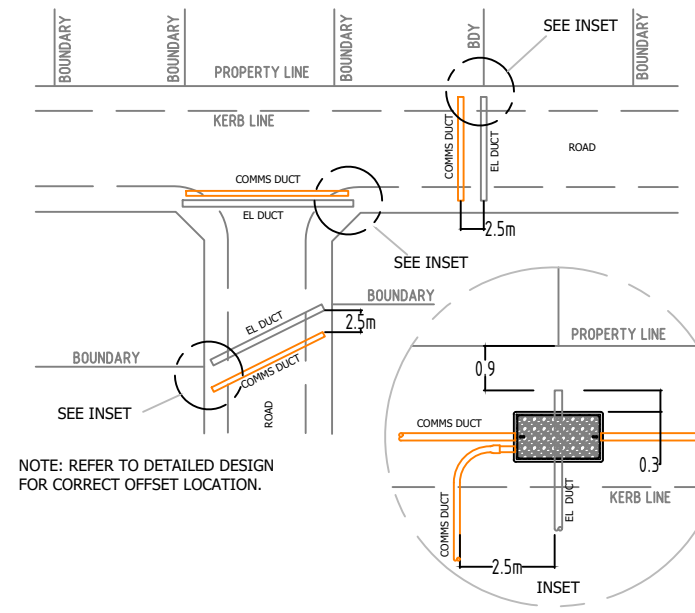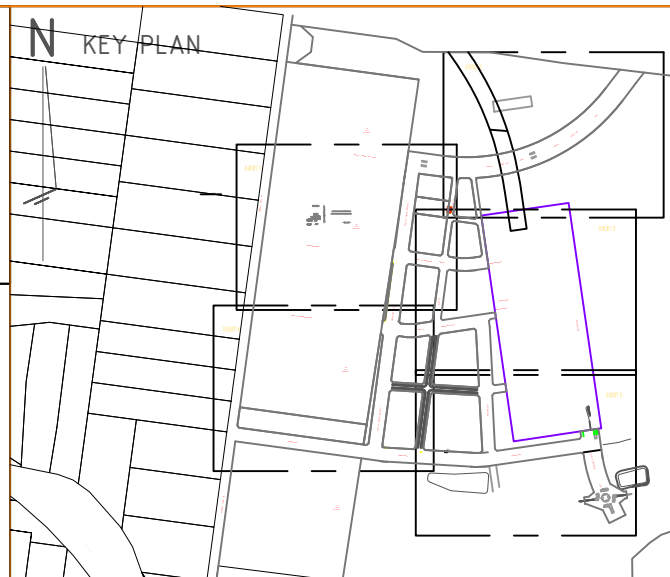CADREF No. PN 36824
SCALE N/A   SHEET No. 5   OF 5   REV. E