

- 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** Network Access Point (NAP)
- MPT-ID** Multiport (MPT)
n is the number of ports (eg 4,6,8,12)
- Penetration

- 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)
- NTD** 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** Fan Access Node site (FAN)
- 138A^{RX}CX** Multi Dwelling Unit (MDU)

- 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
- T** 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

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

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

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

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

LINE TYPES ARE CATEGORIZED INTO 3 TYPES:

- 1- IN-CONDUIT: DXXXF 312F , ...
- 2- AERIAL: DXXXF_A1 144_A , ...
- 3- BURIED: DXXXF_B1 12_B , ...

FSA Boundary
FSAM Boundary
FDA Boundary

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



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	17/06/19	C.RIGBY	FOR CONSTRUCTION	
A	15/05/19	C.RIGBY	DRAFT FOR REVIEW	

STRICTLY CONFIDENTIAL

NBNC APPROVAL RECORD:

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

QUALITY RECORD :

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

Australia's broadband network

TEC-NOVIC TELECOMMUNICATIONS

46 CORTLYNE ROAD, ROSTREVOR, SA 5073
Ph: (08) 8365 8136
Mobile: 041 18 037 069
Email: service@tec-novic.com.au

KEY PLAN

001

DRAWING TITLE:
AYCA-650TVZ
MIRAVALE
STAGE 2
PIT AND PIPE DESIGN

ENABLE#: 279174

STATE: SA REGION:

FSA: SAM: ADA:

PROJECT No: AYCA-650TVZ

CADREF No: LF 2053

SCALE N/A SHEET No. 001 OF 002 REV. B

HEASLIP ROAD

HEASLIP ROAD

STAGE 1

STAGE 2

ALEX STREET

ALEX STREET

- CONSTRUCTION NOTES:**
- ALL P20 LEAD-IN CONDUITS ARE SHOWN IN SCHEMATIC FORM.
 - THE MEASUREMENT SHOWN ON EACH CONDUIT REFERS TO THE LENGTH OF CONDUIT INSTALLED IN THE STREET COMMUNICATIONS TRENCH FROM THE CENTRE OF THE RELEVANT CONNECTING PIT, TO THE POINT WHERE EACH LEAD-IN CONDUIT TURNS TO ENTER EACH PROPERTY.
 - NEW P20 LEAD-INS TO EXTEND 1m INSIDE LOT BOUNDARY.
 - ALL P20 LEAD-INS TO CONTAIN DRAW WIRE FROM CONNECTING PIT AND TO BE CAPPED AT CUSTOMER END.
 - CONTRACTOR TO ENSURE PITS ARE OFFSET ON PROPERTY BOUNDARIES WHERE REQUIRED TO AVOID SITING PITS IN DRIVEWAYS.
 - ANY AMENDED PIT LOCATIONS AND LEAD-INS TO BE MARKED BY CONTRACTOR ON 'REDLINE' AS CONSTRUCTED DWGS.
 - 'REDLINE' DWGS TO BE RETURNED TO DESIGNER ON COMPLETION.

FOR CONSTRUCTION

BILL OF MATERIAL

NO OF LOTS: 45

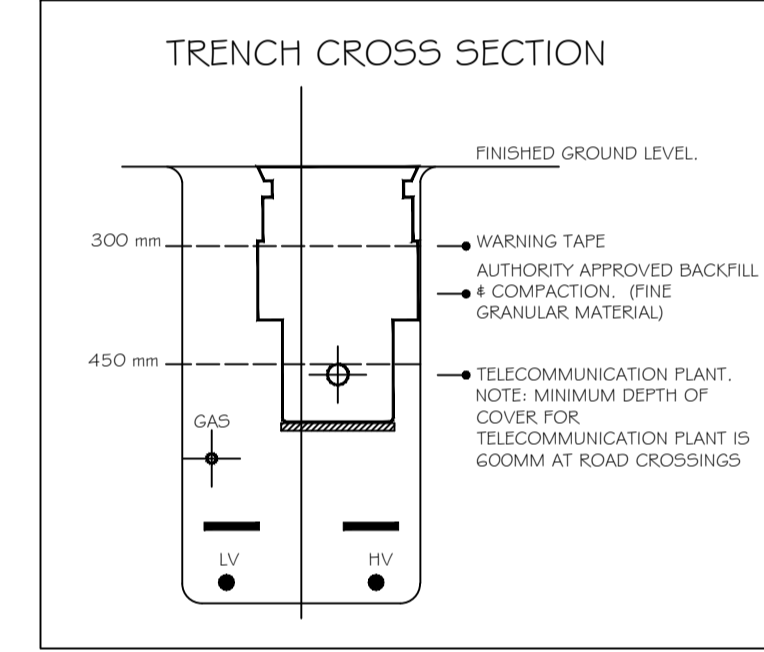
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	15	533.3
5	21	P50	10	253.8
6	2	P20	45	452
8	0			
9	0			

TOTAL NUMBER OF PITS: 23
 TOTAL NUMBER OF MANHOLES: 0
 TOTAL NUMBER OF CONDUITS: 70
 TOTAL LENGTH OF CONDUITS: 1239.1

SDU Development Information

Development Name: MIRAVALE
 Developer Company: LANCER COMMUNITIES
 Development Address: Heaslip Road, Angle Vale, SA
 Authorised Rep: Shaun Bowden
 Phone: 08-8132-1115
 E-Mail: sbowden@lanser.com.au
 nbn Reference Number: 2
 AYCA-650TVZ
 Stage Number: 2
 Design Revision: A

- STANDARD SEPARATIONS AND CONSTRUCTION NOTES:**
- PITS SHOULD BE INSTALLED AT LEAST 15.0M AWAY FROM EPR ZONES
 - PITS SHOULD BE INSTALLED 1.000M CLEAR FROM OTHER COMM PITS
 - CONDUITS SHOULD BE INSTALLED 300MM CLEAR FROM HV CABLES
 - CONDUITS SHOULD BE INSTALLED 150MM CLEAR FROM GAS PIPES (1.00M OR LESS)
 - CONDUITS SHOULD BE INSTALLED 100MM CLEAR FROM ALL OTHER SERVICES
 - HORIZONTAL SEPARATION TO OTHER SERVICES INSIDE PROPERTY IS 150MM
 - DEPTH OF COVER FOR COMM CONDUITS:
 ROAD CROSSINGS - 600MM
 VERGE - 450MM
 SERVICE DROP CONDUIT - 300MM



PIT DIMENSIONS TABLE - By Type & Size.

PIT TYPE	Length	Width	Depth
P2 Pit	650mm	280mm	565mm
P5 Pit	700mm	450mm	650mm
P6 Pit	1360mm	555mm	650mm
P8 Pit	1360mm	555mm	860mm
P9 Pit	2040mm	550mm	900mm

DESIGN RETICULATION OF 45 LOT ESTATE WITH PIT # PIPE TO SUIT NBN GUIDELINES.

THIS ESTATE HAS BEEN DESIGNED FROM DEVELOPER SUPPLIED PLANS

DRAWING No : -
 REV : -
 ISSUE DATE : -

SCOPE OF WORKS:
 DESIGN RETICULATION OF 45 LOT ESTATE WITH PIT # PIPE TO SUIT NBN GUIDELINES.

NOTE 1:
 PROJECT HAS BEEN DESIGNED TO NBNCo. GUIDELINES. ANY CONSTRUCTION CARRIED OUT BY DEVELOPERS/CONSTRUCTORS BASED ON THIS PLAN ARE TO BE CARRIED OUT AT OWN RISK. REFER TO NBNCo. WEB SITE FOR GUIDELINES FOR DEVELOPERS NBN-TE-STD-194.

NOTE 2:
 ENSURE THAT THE INSTALLATION OF ALL P50 ROAD CROSSINGS ARE SET AS CLOSE TO 90 DEGREES AS POSSIBLE.

NOTE 3:
 NO CONDUIT INFRASTRUCTURE INCLUDED IN THIS DESIGN IS TO BE CONNECTED TO ANY EXISTING INFRASTRUCTURE THAT IS NOT OWNED BY THE DEVELOPER.

NOTE 4:
 ALL CONDUIT IS LOCAL UNLESS NOTED OTHERWISE.

NOTE 5:
 CONTRACTOR TO SEAL AND BURY 100mm CONDUIT AT END OF PROVIDED SHARED TRENCH TO NBNCo. GUIDELINES.

NOTE 6:
 REFER TO POWER/ELECTRICAL DESIGN FOR MINIMUM CLEARANCE DISTANCE REQUIRED BETWEEN ELECTRICAL PILLAR OR PIT AND TELECOMMUNICATIONS PIT.

EPR ZONE - DO NOT INSTALL PITS WITHIN 15m OF TRANSFORMER EASEMENT

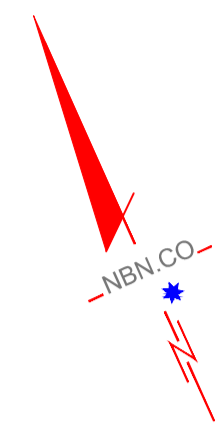
PROPOSED TRANSFORMER PWR

OFFSET NEW PIT 4m FROM CORNER

OFFSET NEW PIT 3m FROM CORNER

OFFSET NEW PIT 4.5m FROM 54/55 LOT BOUNDARY

CAP P100 AT STAGE BOUNDARY



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	17/06/19	C.RIGBY	FOR CONSTRUCTION	
A	15/05/19	C.RIGBY	DRAFT FOR REVIEW	

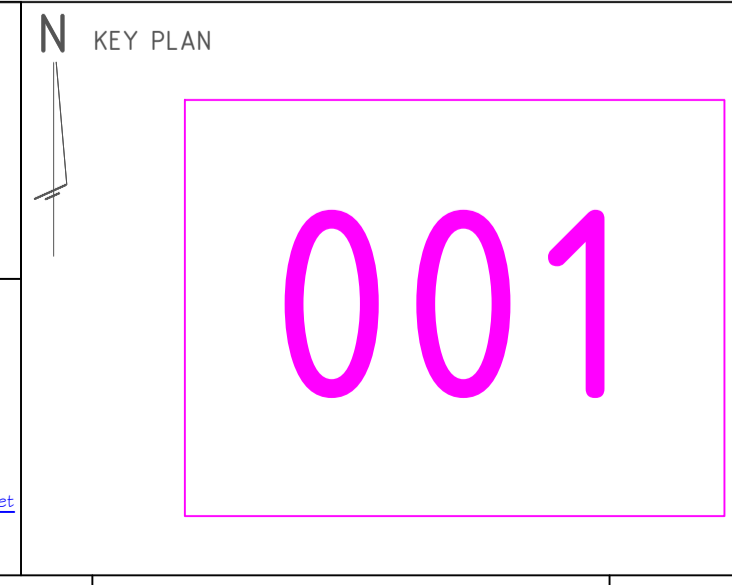
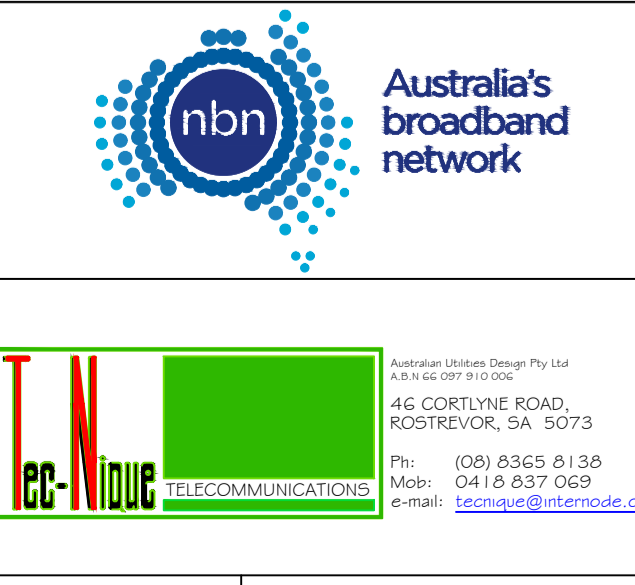
STRICTLY CONFIDENTIAL

NBNC APPROVAL RECORD:

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

QUALITY RECORD:

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



DRAWING TITLE:
 AYCA-650TVZ
 MIRAVALE
 STAGE 2
 PIT AND PIPE DESIGN

ENABLE#: 279174

STATE: SA REGION:

FSA: SAM: ADA:

PROJECT No: AYCA-650TVZ

CADREF No: LF 2053

SCALE: N/A SHEET No: 002 OF 002 REV: B