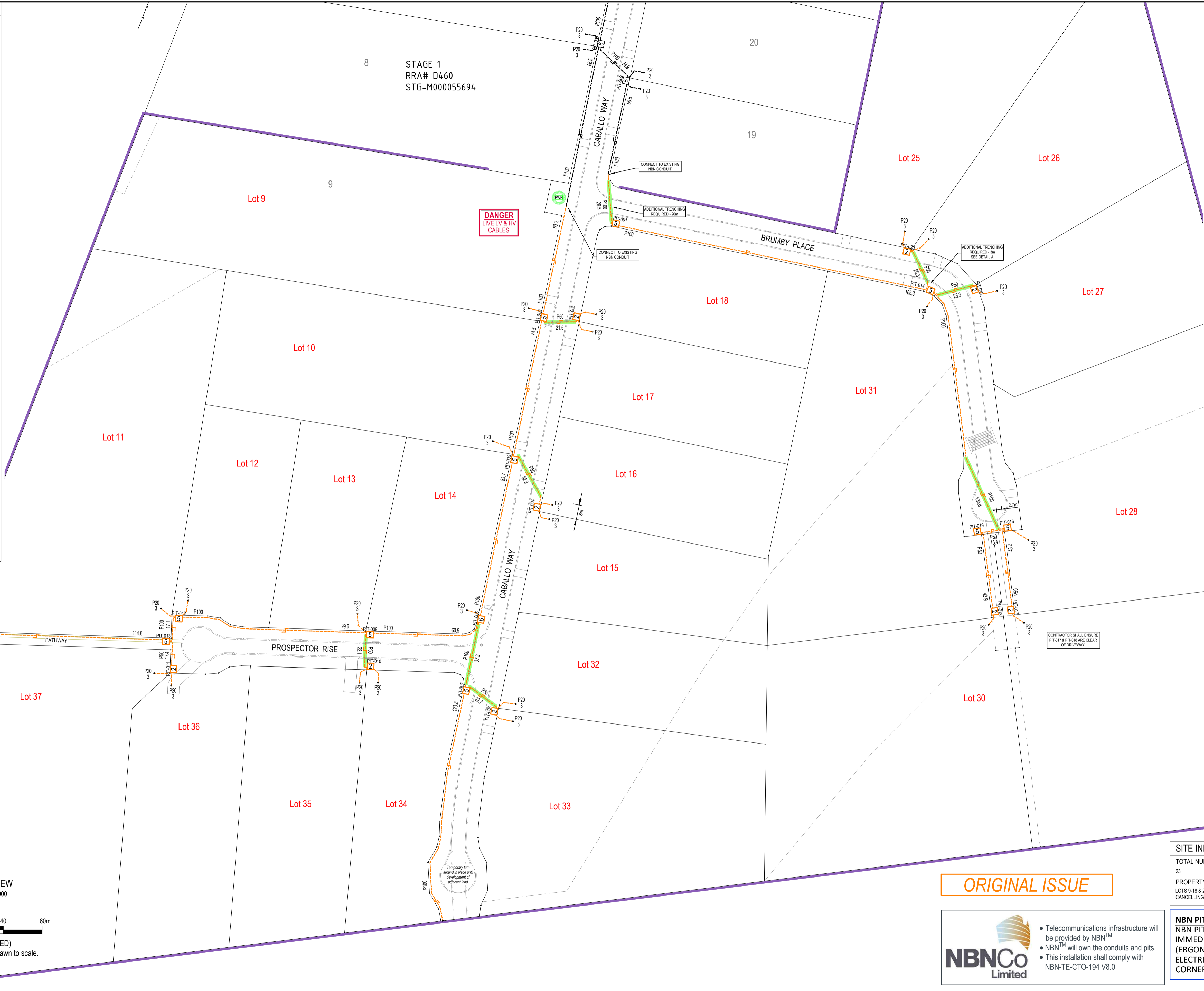


LEGEND: NBN CONDUITS & PITS

	Fibre Access Node (FAN) site
	Fibre Distribution Hub (FDH) site - 1m x 1m
	Proposed 100mm Main Conduit
	Proposed 50mm Lateral Conduit
	Proposed 23mm Service Drop
	Proposed length of bored conduit
	Conduits by Civil Contractor
	Proposed shared trench
	Service Drop Access Pit
	Local Network Pit
	Premises Connection (Houses an MPT)
	Boundary Pit
	Cross-Road & Other Premises Connection (No MPT)
	Local Network Connection Pit
	Premises Connection & Fibre Splice Closure
	Distribution / Local Network Connection Pit at entry/exit to estate @ 250m ccs on distribution conduit
	Fibre Distribution Hub (FDH) Pit Within 5m of FDH Site
	Multi Dwelling Unit (MDU)
	Marker Post (Post to be numbered)
	Depth over alignment indicator (used with every Marker Post)
	Descriptor Box (Description of type of work & Quantity involved)
	Transformer Pad Mount / Pole Mount
	Existing Telstra conduit trench layout (Proposed conduit indicated for comms cable)
	Existing NBN 100mm conduit
	Existing Telstra P100 conduit
	Existing or proposed Energex pole (& pole ID)
	Existing Telstra Exchange
	Existing Telstra Pits (size 2,3,4,5,6,7,8 or 9)
	Existing Telstra Manholes (Access Chambers)
	Existing Traffic Signals Box
	Existing network item to be removed/replaced
	'C' communications marker plate



"AS CONSTRUCTED" DOCUMENTS

The electrical contractor shall email the "as constructed" drawing, test results & closure documents to:
 • as.constructed@robusr.com.au

'AS CONSTRUCTED' CERTIFICATION

I certify as follows:
 The installation of NBN conduits and pits has been completed in accordance with this drawing & NBN specification.
 NBN-TE-CTO-194, subject to any changes marked up in red.
 Mandrel testing of all conduits has been performed as detailed on the attached Mandrel Test Report.
 The minimum depths of conduits are as specified, except as marked up in red.

signature of certifier:
 name of authorised certifier:
 date of certification:
 name of company:
 certifier's position:

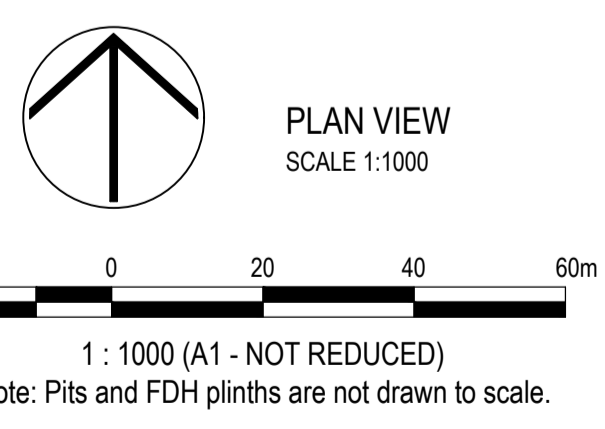
CONSTRUCTION CONTACTS

ELECTRICAL ENGINEER
 ROBIN RUSSELL & ASSOCIATES PTY LTD
 ELECTRICAL DESIGNER
 STEVE HOLLAND - 07 3872 5555
 COMMS CONDUIT DESIGNER
 SHANE MILLS - 07 3872 5555
 CONSTRUCTION COORDINATOR
 SHANE HYDE - 0419 021 772

CIVIL ENGINEER
 SMECO Australia Pty Ltd
 Sean McGill - 07 5431 9518

SURVEYOR
 Veris
 Greg Connors - 07 3366 4700

LANDSCAPE ARCHITECT
 The Landscape Group
 Dean O'Donnell - 0413 723 756



ORIGINAL ISSUE

- Telecommunications infrastructure will be provided by NBN™
- NBN™ will own the conduits and pits.
- This installation shall comply with NBN-TE-CTO-194 V8.0

SITE INFORMATION

TOTAL NUMBER OF LOTS
23

PROPERTY DESCRIPTION
 LOTS 9-18 & 25-37
 CANCELLING LOT 100 on SP316982

NBN PITS
 NBN PITS MUST BE INSTALLED IMMEDIATELY OUTSIDE THE EXCLUSION ZONE (ERGON 400mm & ENERGEX 600mm) OF THE ELECTRICITY PILLAR & EXACTLY 3m FROM CORNER TRUNCATIONS AS PER DETAIL B.

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
13/04/2021	A	ORIGINAL	RR					

Robin Russell & Associates Pty. Ltd.
 CONSULTING ENGINEERS - ELECTRICAL

SUBDIVISION ELECTRICAL SERVICES
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 Tel: (07) 3872 5556
 Fax: (07) 3872 5566
 Email: rr@robusr.com.au
 www.robusr.com.au
 A.B.N. 78 010 589 661

SPECIFICATION NO.	NBN-TE-CTO-194	DESIGNED	SHANE MILLS	DESCRIPTION	
COUNCIL	SOMERSET REG	CHECKED	K.R.		
COUNCIL REF	DA18513	APPROVED BY	ROBIN RUSSELL RPEQ 1546		
UBD REF	Map Grd	SIGNED	<i>Robin Russell</i>	CLIENT	
DWT REV	V47 - 20181213	DATE	13/04/2021		TONLEN Pty Ltd

LOCATION
CABALLO PARK ESTATE (STAGE 2)
MOUNT KILCOY ROAD
KILCOY, 4515

NBN CONDUITS & PITS

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DRAWING No.
D572-N-01A

NBN ID REQUEST No.
STG-M000070180

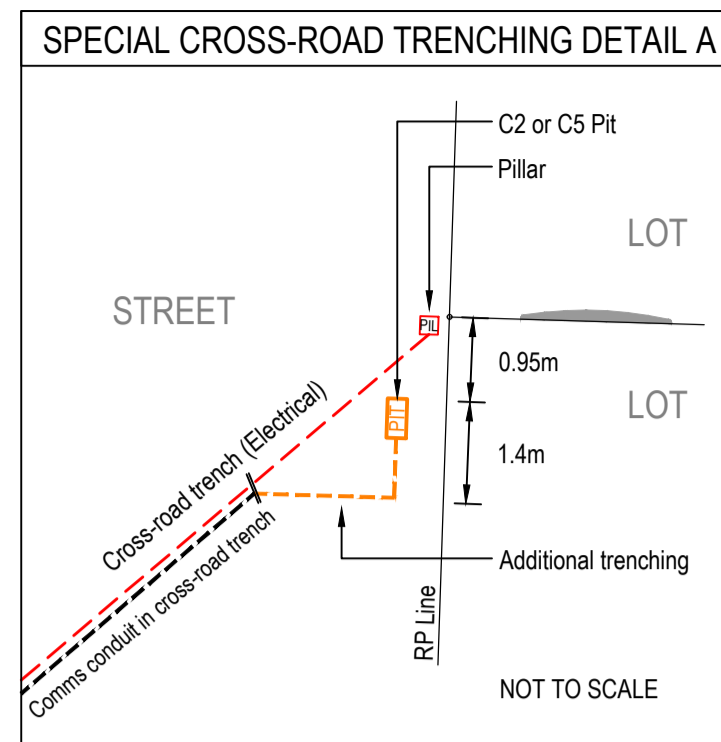
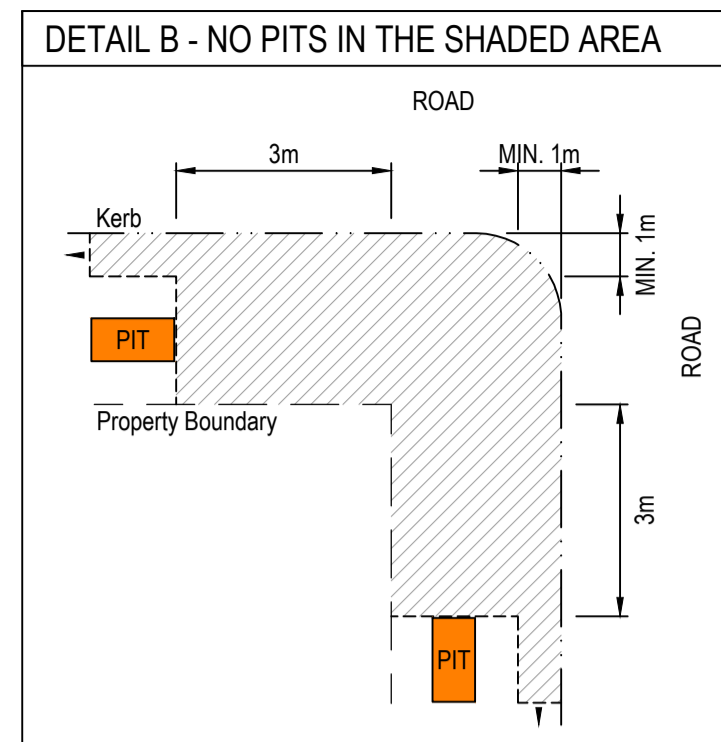
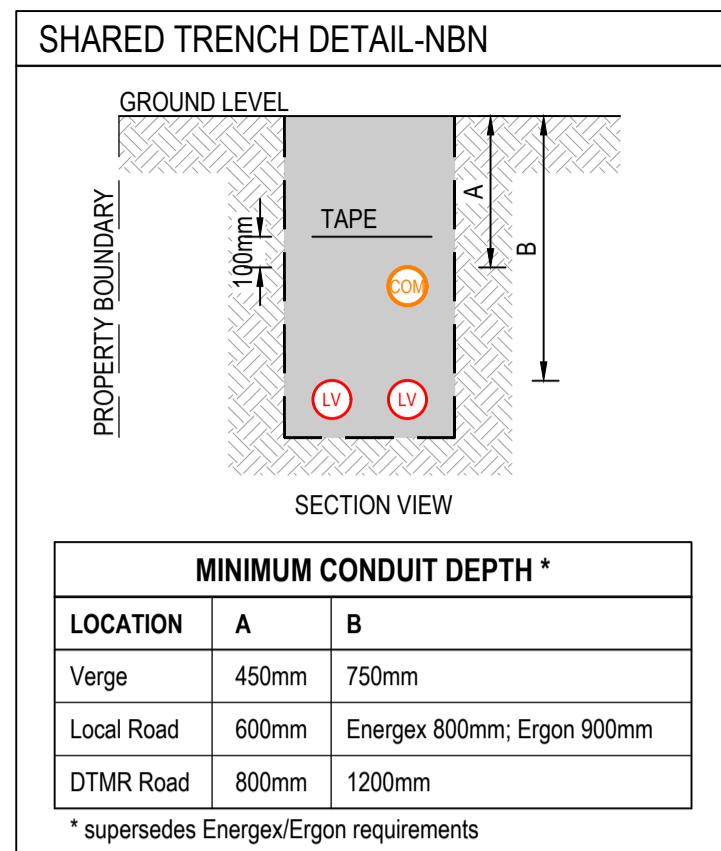
SHEET No.
1 OF 2

NBN CONDUIT SCHEDULE - CIVIL CONTRACTOR					
CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A)			QUANTITY (metres)
		WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	
P20	SDU service drop	PN12	27mm	24mm	-
P50	MDU service drop	PN12	60mm	54mm	-
P50	road crossing	PN12	60mm	54mm	138
P100	road crossing	PN9	114mm	104mm	99
P100	footpath conduits adj. retaining walls	PN9	114mm	104mm	-
Additional trenching					23

NBN CONDUIT SCHEDULE - ELECTRICAL CONTRACTOR					
CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A)			QUANTITY (metres)
		WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	
P20	SDU service drop	PN12	27mm	24mm	73
P50	MDU service drop	PN12	60mm	54mm	-
P50	footpath	PN12	60mm	54mm	48
P100	footpath	PN9	114mm	104mm	920
P100	distribution network	PN9	114mm	104mm	-
Additional trenching					6

NBN SERVICE CONDUITS IN ACCESS STRIP SCHEDULE - ELECTRICAL CONTRACTOR					
CODE	ITEM	Refer: AS/NZS 1477:2006 - Table 4.2(A)			QUANTITY (metres)
		WALL THICKNESS	MEAN OUTSIDE DIA.	MEAN INSIDE DIA.	
P20	SDU service drop	PN12	27mm	24mm	-
P50	driveway / consumers conduit	PN12	60mm	54mm	90
Additional trenching					-

NBN PIT SCHEDULE - ELECTRICAL CONTRACTOR			
PIT CODE	ITEM	NOMINAL EXTERNAL DIMENSIONS	QUANTITY
2	service drop access pit	650 x 280 x 565mm	9
5	service/boundary pit (single lid)	700 x 450 x 650mm	10
6	local network connection pit (dual lid)	1360 x 555 x 650mm	1
8	distribution/local network connection pit (dual lid)	1360 x 555 x 860mm	-



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	Existing Telstra Manholes (Access Chambers)
	Existing Traffic Signals Box
	Existing network item to be removed/replaced
	'C' communications marker plate

NOTES - NBN

NBN conduits and pits shall be installed in compliance with NBN Co specification: NBN-TE-CTO-194 V 8.0 *New Developments: Deployment of the NBN Co Conduit and Pit Network - Guidelines for Developers*. This can be downloaded at: <http://www.nbnco.com.au/develop-or-plan-with-the-nbn/new-developments/design-build-install-pit-and-pipe-build-process.html>

Additional requirements and explanatory information are contained in Robin Russell & Associates' *General Specification for Installation of Electricity Reticulation and Street Lighting - Issue 'AA'*.

For details of trenching and electrical conduits, refer associated RRA works plan.

In residential subdivisions, NBN conduits shall be laid in shared trenches, above electricity conduits. The Civil Contractor shall install road-crossing conduits and other conduits as shown (see legend).

In commercial subdivisions, or where no electricity conduit is present, NBN conduits shall be laid on the standard telecommunications alignment, as specified.

On State roads, the required cover of 1200mm precludes the use of shared trenches.

The installation of white warning tape is NOT required. If conduit is not installed in a shared trench with electricity, brass "C" markers shall be installed in the kerbs directly above road-crossing conduits.

Contractors shall not access existing Telstra pits or conduits.

Pits shall be installed relative to the property boundary as shown, immediately outside the exclusion zone of the electricity pillar.

The Electrical Contractor shall ascertain final verge levels from the Civil Contractor before installing conduits & pits.

The Electrical Contractor shall give the Superintendent written notice (a) 10 business days before it anticipates achieving Practical Completion of the conduit and pit installation, and (b) on achieving Practical Completion, to allow the required notices to be given to NBN Co.

Conduit lengths are nominal horizontal distances only. Fibre lengths shall be verified in advance by actual measurement.

The electrical contractor shall perform mandrel testing of all telecommunications conduits, including cross-road and lead-in conduits installed by the civil contractor.

SOURCE DOCUMENTS				
CREATOR	DRAWING	DWG. NO.	REV. NO.	DATE
SMEC AUSTRALIA PTY LTD	CIVIL BASE	X_30032380-02-BASE.dwg		23/03/2021
ROBIN RUSSELL & ASSOCIATES	ELECTRICAL	D572	A	08/04/2021

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
13/04/2021	A	ORIGINAL	RR					

Robin Russell & Associates Pty. Ltd.
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www.robrus.com.au
A.B.N. 78 010 589 661

SPECIFICATION NO.	NBN-TE-CTO-194	DESIGNED	SHANE MILLS	DESCRIPTION
COUNCIL	SOMERSET REG	CHECKED	K.R.	NBN CONDUITS & PITS
COUNCIL REF	DA18513	APPROVED BY	ROBIN RUSSELL RPEQ 1546	
UBD REF	Map Grd	SIGNED	<i>Robin Russell</i>	CLIENT
DWT REV	V47 - 20181213	DATE	13/04/2021	TONLEN Pty Ltd

LOCATION
**CABALLO PARK ESTATE (STAGE 2)
MOUNT KILCOY ROAD
KILCOY, 4515**

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D572-N-02A	
NBN ID REQUEST No.	SHEET No.
STG-M000070180	2 OF 2