Our Ref: Broken Hill North\_council site

21 November 2014

Tracey Stephens
Heritage and Planning Officer
Broken Hill City Council
P O Box 448
BROKEN HILL NSW 2880



S K Planning Pty Ltd

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Dear Tracey

RE: Proposed telecommunications facility

North Family Play Centre, 334 McCulloch Street, Broken Hill (Lot 2 Plan 1175135)

DA 182/2014

As you are aware, **S K Planning** acts on behalf of **Telstra Corporation Ltd** ('Telstra') in respect of this application. The proposal by Telstra is to establish a telecommunications facility, in the form of a mobile telephone base station, at Council-owned land adjacent the North Family Play Centre (specifically, part of lot 2) in Broken Hill.

This proposal is an alternative proposal to a previously refused application at 576-578 Chapple Lane (DA 42/2014). Telstra retains a lease agreement with the owner at the Chapple Lane site and Telstra has yet to decide whether to exercise its rights of appeal pursuant to Section 97 of the *Environmental Planning and Assessment Act* 1979.

The main components of the proposed facility are a 35-metre tall monopole, six panel antennas, six remote radio units (RRUs) and an equipment shelter. The facility is located within the **R1 General Residential Zone** pursuant to the Broken Hill Local Environment Plan 2013. The proposal may only be developed with consent.

A brief cover letter was provided at the time of lodgement. This letter constitutes a detailed planning statement as to the merits of the proposal to assist Council in determining the application.

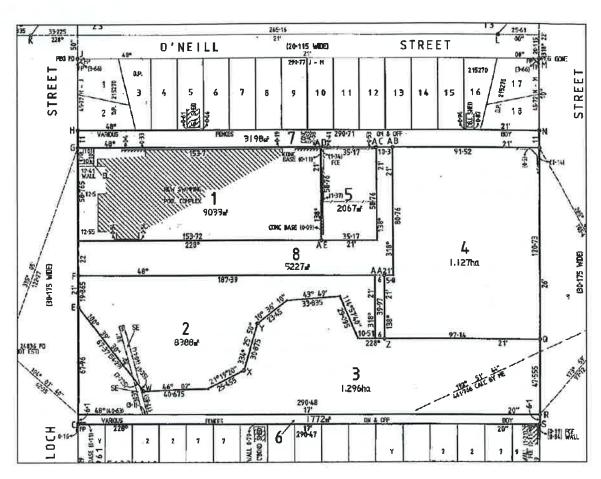
I understand the necessary fees have been paid.

The Subject Land

The subject land is located at 334 McCulloch Street, Broken Hill and is the site of the North Family Play Centre, which includes the town's public swimming pool. The location of the proposed facility is at the far end of the carpark, which places it roughly in the middle of the land bounded by McCulloch and Murton Streets, as well as about half way between the lanes running behind houses fronting Fisher and O'Neill Streets.

The land consists of eight allotments (including the lanes behind the Fisher and O'Neill Street dwellings), as shown on the survey extract below. Lot 1 is used for the swimming pool, lot 8 for the carpark and lot 2 for the playground and public toilets. The facility is proposed on lot 2.





The aerial photo below shows the actual use (or intended use) of the land as it currently stands. The facility is proposed in top right-hand corner of the green shaded area, roughly in the middle of the site.





The land is basically flat, save for the detention areas and most of the established trees are along the McCulloch Street frontage and south of the carpark.

The Locality

The subject land is situated in the northern part of the urban area of Broken Hill, which is largely residential in nature. Most houses are single-storey in nature in this area and there are houses to the north, north-east, west and south of the subject land. To the east (across Murton Street) is the Willyama High School.

Vegetation is scattered in the wider area although there are some examples of large individual trees. There are no existing telecommunications facilities in this part of Broken Hill which could provide a collocation opportunity.

## The Proposal

The proposal consists of the following elements:

- a 35-metre tall monopole;
- six (6) panel antennas (each 2.53m in length) mounted on a compact headframe around the top of the proposed monopole;
- > six (6) remote radio units (RRUs each with dimensions of 518mm x 470mm x 156mm) mounted on the proposed monopole just below the proposed antennas;
- > a pre-fabricated equipment shelter (dimensions 2.28m x 3.28m x 3.0m) to house the necessary base-station equipment;
- > An overhead cable tray (600mm wide) connecting the equipment shelter to the monopole;
- A 2.4-metre tall security fence with an access gate.

Whilst not a relevant planning issue, it is worthy of note that the maximum levels of electromagnetic energy from the proposed facility will be approximately 0.7% of the exposure limits set down by ARPANSA. A standard form EME report is attached for Council's information.

**Need for the Facility** 

The need for the proposed facility has arisen due to the continuing growth of subscriber demand, particularly for data services such as mobile internet and the dramatic increase in devices which use significantly more data, such as smartphones, tablets and internet dongles. The result of this increase in data demand is the requirement to add additional capacity into the network (partly through the augmentation of existing sites and partly through construction of new facilities) and decrease the size of the area being serviced by each facility (and therefore the distance between the facility and the user). As such, it follows that more facilities at an increased density will be required over time as demand continues to grow.

Currently Broken Hill is served by only two existing facilities - one at the Broken Hill Exchange on Chloride Street and the second known as the 'Slag Heap' near Gypsum Street's junction with the Silver City Highway.



Both existing sites have undergone substantial and recent augmentation (through increasing the number of channels and frequencies available) to increase the capacity of those sites. However, despite these upgrades each site can only serve a finite number of users, which also decreases when users are more distant from the base station as more signal strength is required to provide that service. This is the case in the northern part of Broken Hill where the existing sites cannot provide sufficient levels of signal strength and capacity to service the growing demand.

Accordingly, the only way to efficiently and effectively service the northern residential area of Broken Hill is to erect a new facility. The 'ideal' location from a purely technical perspective is roughly centred around the intersection between McGowen and Brazil Streets. Following the withdrawal of a development application at 652 Williams Street and the rejection by Council of a development application at 576-578 Chapple Lane, it has been determined that the only remaining location available to Telstra and able to satisfactorily meet the network and service objectives is at Lot 2 McCulloch Street.

The proposed site will improve coverage (particularly in-building) and a significant improvement to network capacity, meaning data services in particular will benefit. The outcome will be a faster, more robust service able to handle more subscribers simultaneously. Users will also notice improved battery life and the existing sites will also see benefits from reduced demands on their resources, meaning they are better able to serve customers closer to those existing locations.

#### **Assessment**

The proposed facility is located on land within the *R1 General Residential Zone* pursuant to the Broken Hill Local Environment Plan 2013. The proposal may only be developed with consent.

The R1 Zone is primarily concerned with the development of housing needs, types and densities, but also allows for other land uses that provide facilities and services to meet the day to day needs of residents. This would include non-residential land uses such shops and community facilities but would also extend to the type of infrastructure proposed here, which has become an essential part of daily life. The facility is proposed specifically to provide improved levels of service to the northern residential part of Broken Hill and as such fulfils this broad desire of the zoning provisions.

However, in the absence of any specific policy guidance in the LEP with respect to telecommunications facilities, the following characteristics of the subject proposal are noteworthy:

- The facility has been placed within the existing network to improve the capacity of the existing Next G® network, which has been identified as requiring improvement in this area, thereby meeting the communications needs of the community;
- The facility is proposed in conjunction with an existing non-residential use of a reasonable scale:
- The location is not located on a main thoroughfare and is not directly opposite residential uses;
- The facility has been designed and sited to minimise the visual impact on the locality;
- The antennas are mounted as close to the monopole as possible on the most compact headframe arrangement available;
- There are no existing structures in the wider area on which the facility could be collocated and the network objectives for the site met; and
- There are no heritage items or areas affected by the proposal.

Although the proposed monopole will be visible to varying extents throughout the locality, it is generally acknowledged that such infrastructure is an essential part of modern telecommunications and must be provided to meet the growing needs of the community. Further, it is also generally acknowledged that some detrimental impact is inevitable and siting and design must minimise that impact to the extent possible. It is also noteworthy that any other location selected would also require a new structure of



similar if not identical appearance and proportions to the subject proposal and would therefore have broadly similar impacts.

Telstra has performed a diligent search of the surrounding area and has determined there are no other viable locations for the proposed facility. Further, the current location has been pursued with the encouragement of Council and Council has now formally resolved to lease a portion of Lot 2 to Telstra for this purpose.

### Conclusion

The proposal is to establish a monopole facility at 334 (Lot 2) McCulloch Street, Broken Hill to accommodate Telstra's requirements for its Next G® mobile network. The facility is typical of the design utilised and height required in urban areas throughout Australia. A requirement for a facility in this area has been identified by Telstra and will assist in providing greater depth of coverage and capacity to the surrounding area. The new facility will be able to accommodate both '3G' and '4G' technology (when suitable spectrum becomes available).

The facility is designed and sited to minimise visual impact as much as reasonably possible whilst still satisfactorily meeting its network objectives, although of course it is acknowledged that some localised impact will occur.

Importantly, its location and design will not have any material impact on the continuing use (or future redevelopment) of the subject land or any surrounding land more generally.

Council is advised that Telstra has set up a dedicated webpage with respect to this facility to ensure easy access to information by the public. The webpage address is www.rfnsa.com.au/2880055. This webpage address may be given out to any interested parties.

Accordingly, the subject proposal warrants approval. Should Council require any additional information prior to making its determination, please do not hesitate to contact the undersigned.

Yours sincerely

MARK BAADE B.Planning (Hons) M: 0417 088 000

markb@skplanning.com.au

Attached: EME report



## **BROKEN HILL CITY COUNCIL**

240 Blende Street, BROKEN HILL NSW 2880 Phone: (08) 8080 3300

W: www.brokenhill.nsw.gov.au

## DEVELOPMENT, CONSTRUCTION CERTIFICATE, COMPLYING DEVELOPMENT CERTIFICATE, SECTION 68 AND/OR OTHER APPROVALS APPLICATION

Development Application/Construction Certificate/Complying Development Certificate Number: //2014

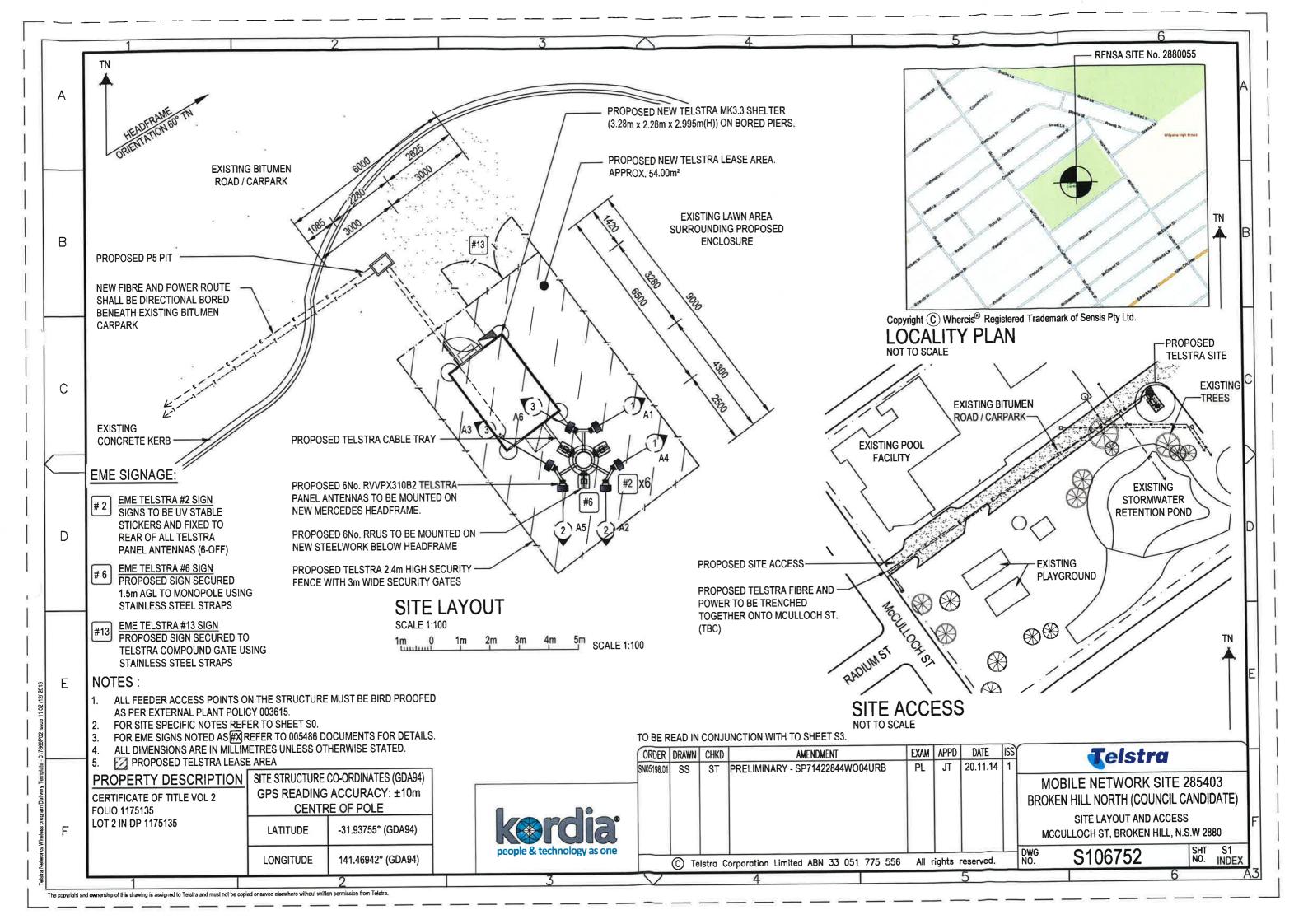
TYPE OF APPLICATION/S BEING APPLIED FOR	DEVELOPMENT APPLICATION (Made under the Environmental Planning and Assessment Act 1979, Section 78A)
	DEVELOPMENT CONSENT - SUBDIVISION (Made under the Environmental Planning and Assessment Act 1979, Section 78A)
Tick the relevant box or boxes	□ CONSTRUCTION CERTIFICATE APPLICATION (Made under the Environmental Planning and Assessment Act 1979, Sections 109C(1)(b), 81A(2) & 81A(4))
	COMBINED DEVELOPMENT APPLICATION/CONSTRUCTION CERTIFICATE (Made under the <i>Environmental Planning and Assessment Act 1979</i> , Section 78A and Sections 109C(1)(b), 81A(2) & 81A(4))
	□ COMPLYING DEVELOPMENT CERTIFICATE APPLICATION (issued under Environmental Planning and Assessment Act 1997, Section 85, 85A)
	State Environmental Planning Policy (Exempt and Complying Development Codes) 2008; or  See Important Information and back page for Type of Work covered as Complying Development
	□ INTEGRATED DEVELOPMENT APPROVAL (Made under the Environmental Planning and Assessment Act 1979, Section 91)
	□ DEVELOPMENT APPLICATION MODIFICATION (issued under Environmental Planning and Assessment Act 1997, Section 96)
	CONSTRUCTION CERTIFICATE APPLICATION MODIFICATION (Made under the Environmental Planning and Assessment Act 1979)
	SECTION 68 APPLICATION (Transportable/Relocatable Dwellings only)
	OTHER APPROVAL UNDER SECTION 68 - Part(please specify) (issued under Local Government Act 1993)
	□ SUBDIVISION CONSTRUCTION CERTIFICATE

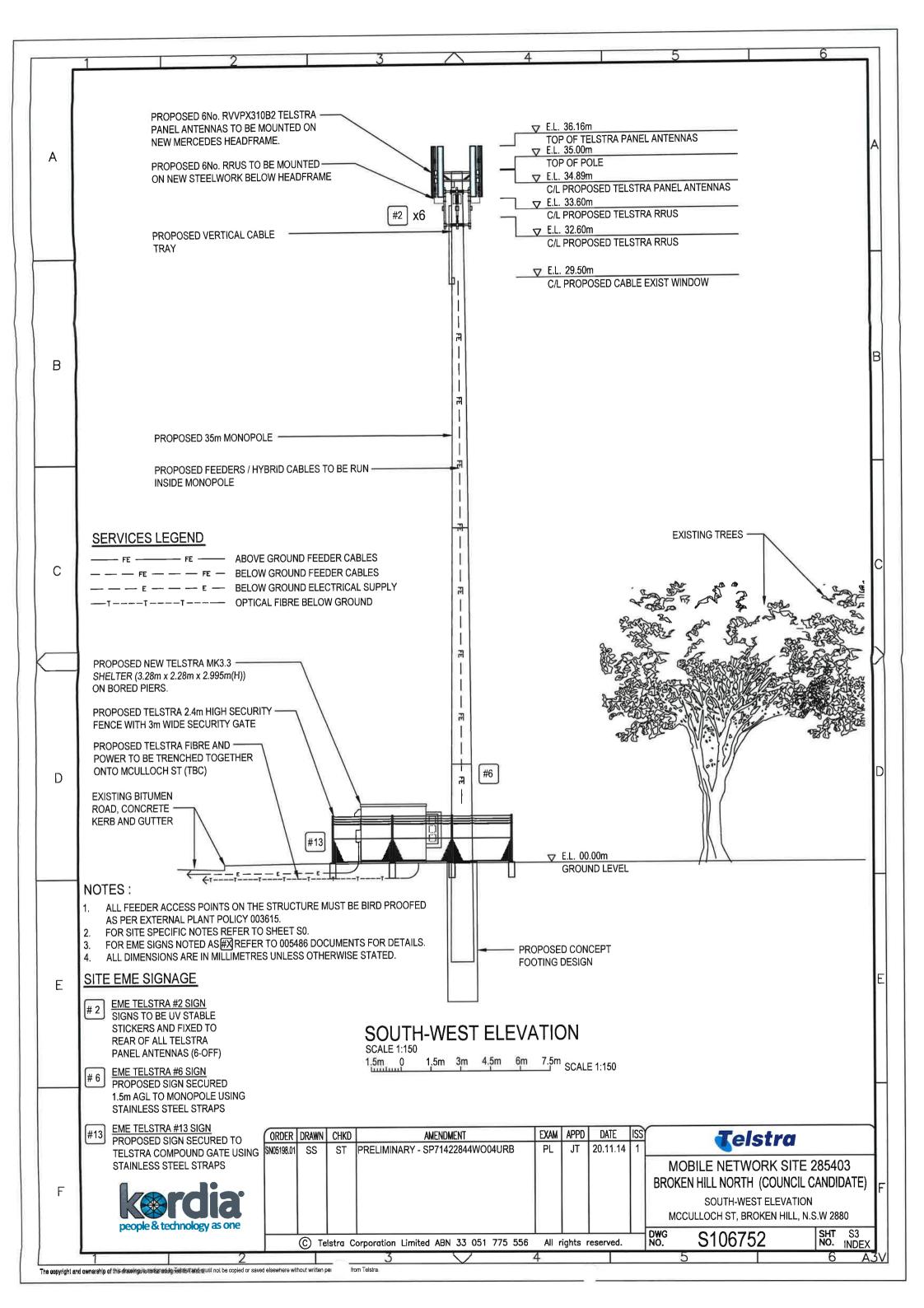
Section 2  APPLICANT DETAILS  Builders or Contractors CANNOT be	APPLICANT NAME: Telstra Corporation Ltd.  APPLICANT COMPANY NAME (if applicable): SK Planning  POSTAL ADDRESS: POBOX 138  CITY/TOWN: Crafer S SA POSTCODE: 5152		
the Applicant for a Construction Certificate, unless they are the owner of the land	E-MAIL ADDRESS: markb@ skplanning . com . av  PHONE - Business: 0417088000.  Private: Fax: DATE: 19/11/14.  CAPACITY (owner, builder, architect, etc) Town planner.		
Section 3			
	OWNER:		
SUBJECT LAND	PROPERTY ADDRESS:		
Details of land where	CITY/TOWN: POSTCODE:		
development is proposed	LOT/DP: 2 in DP1175135.		
	SEC NO: PROPERTY NUMBER:		
Section 4	Designated Designated		
DESCRIPTION OF	TYPE OF DEVELOPMENT:   Local Integrated Designated  Designated		
DEVELOPMENT	DESCRIPTION OF WORK/DEVELOPMENT BEING CARRIED OUT:		
	Teleronmunications facility		
	(Eg – New Dwelling; Additions to Dwelling; Garage; Swimming Pool & Fencing; Units; Dual Occupancy; Subdivision; Boundary Adjustment; Change of Use; Approval in Principle; Industrial/Commercial Workshop/Factory, etc)		
	USE OF DEVELOPMENT:		
	Telecommunications (mobile  phone network)		
VALUE	TOTAL VALUE OF WORK \$ 180,000 (fees calculated on value)  Value of the Development (work to be done) subdivision excluded: - VALUE		
If building work is to be carried out	MUST BE A REAL VALUE, INCLUDING LABOUR COMPONENT FOR WORK.		
	A THE PART OF TAXABLE PART OF		
10	FOR SUBDIVISION - NUMBER OF EXISTING LOTS		

# SECTION 5 TO BE COMPLETED FOR <u>CONSTRUCTION CERTIFICATE AND COMPLYING</u> <u>DEVELOPMENT CERTIFICATE APPLICATIONS ONLY</u>

Section 5	Please complete this schedule.		
ABS SCHEDULE	All New Buildings		
	Number of storeys (including underground floors)		
	Gross floor area of existing building (m²)    m²		
	Gross floor area of new building (m²) m²		
	• Gross site area (m²) (180 SC CIVEQ)		
	Residential Buildings Only		
This schedule is required to be completed for the	Number of dwellings to be constructed		
	Number of pre-existing dwellings on site		
	Number of dwellings to be demolished		
	Will the new dwelling(s) be attached to other new buildings?		
provision of information to the	Yes 🗆 No 🗅		
Australian Bureau of Statistics.	Will the new building(s) be attached to existing buildings?		
Statistics.	Yes 🗆 No 🗅		
	Does the site contain a dual occupancy?		
	Yes No 🗆		
	Note: Dual occupancy = two dwellings on the same site.		
	ALL BUILDING WORK		
	Number of WC's to be installed:		
	SWIMMING POOLS		
	Capacity: Litres (over 40,000 litres - BASIX Certificate required)		
	Capacity: Litres (over 40,000 littes - BASIX Certificate required)		
	DACIV CERTIFICATE		
	BASIX CERTIFICATE		
	Is a Basix Certificate required? Residential development >\$50k		
	Yes No 🗆		
	Certificate Number:		
	METHOD OF TERMITE CONTROL:		
	WIETHOU OF TERMITE CONTINUE.		
	APPROXIMATE DATE WORK IS TO COMMENCE (month/year) 2015		
T .			

Materials to be Used	and the second	work will be constructed of		
Place a tick in the box which be	est describes the materials the new v	WOLK MIII DE COLISTIACIEC OL		
Floor		<b>◯</b> other (80)		
☐ concrete (20)	☐ timber (40)	other (80)		
□ not specified (90)				
<u>Walls</u>		□ single briek		
□ brick veneer (12)	☐ full brick (11)	□ single brick		
☐ timber/weatherboard (40		□ concrete	(20)	
☐ hardiplank	□ concrete/masonry	in fibrous cement		
☐ curtain glass (50)	olorbond steel	☐ cladding – alum	inum (70)	
□ steel (60)	not specified (90)	existing		
□ other (80)			"	
Roof				
☐ aluminium (70)	□ concrete (20)	☐ fiberglass	J	
concrete tile (10)	☐ fibrous cement (30)	_	4	
□ slate	masonry/terracotta til		(60)	
□ other (80)	□ not specified (90)	existing		
<u>Frame</u>		./		
☐ timber (40)	☐ steel (60)	other (80)		
☐ Aluminum (70)	□ not specified (90)			
		FOR ALL TYPES OF ADD	LICATIONS	
Section 6 THIS S	ECTION MUST BE COMPLETED	FOR ALL TIPES OF AFF	LIGATIONS	
If property is in the name of a company, position held in that company must be stated & company seal (if one) fixed be necessary and As approvements of the state	ereby consent to the making of this a dessary for Council staff to enter and ation to ensure compliance with the passessment Act 1979, as amended and plans and specifications.  The approval process; during constructions as been completed to Council's sational process.	property, the sproperty, the sprovisions of the Environment the Regulations thereun staff to enter and inspect the fuction and until such time a	ental Planning der and with the	
NAME (Print to	III Hallies)			
ADDRESS:				
CITY/TOWN:	F	POSTCODE:		
PHONE - Private:		siness:		





Α TELSTRA ANTENNA CONFIGURATION TABLE ANTENNA PHYSICAL ANTENNA SECTOR NO. ANTENNA TYPE & ANTENNA ANTENNA **ACTION** HEIGHT & TECHNOLOGY SIZE H x W x D No REQUIRED C/L A.G.L BEARING (x°T) S1: WCDMA850 S1: WCDMA850 S1: FUTURE ARGUS RVVPX310B2 PANEL 60° INSTALL 34.89m Α1 2533x353x209mm S1: FUTURE S1: FUTURE S1: FUTURE S2: WCDMA850 S2: WCDMA850 S2: FUTURE ARGUS RVVPX310B2 PANEL INSTALL 34.89m 180° Α2 2533x353x209mm S2: FUTURE В S2: FUTURE S2: FUTURE S3: WCDMA850 S3: WCDMA850 ARGUS RVVPX310B2 PANEL S3: FUTURE INSTALL 300° 34.89m Α3 2533x353x209mm S3: FUTURE S3: FUTURE S3: FUTURE S1: WCDMA850 S1: FUTURE ARGUS RVVPX310B2 PANEL S1: FUTURE **INSTALL** 60° 34.89m Α4 2533x353x209mm S1: FUTURE S1: FUTURE С S1: FUTURE S2: WCDMA850 S2: FUTURE S2: FUTURE ARGUS RVVPX310B2 PANEL 180° INSTALL 34.89m Α5 2533x353x209mm S2: FUTURE S2: FUTURE S2: FUTURE S3: WCDMA850 S3: FUTURE S3: FUTURE ARGUS RVVPX310B2 PANEL **INSTALL** 300° 34.89m Α6 2533x353x209mm S3: FUTURE S3: FUTURE S3: FUTURE D Ε EXAM APPD DATE **T**elstra ORDER DRAWN CHKD **AMENDMENT** 20.11.14 1 PRELIMINARY - SP71422844WO04URB JT SN05198.01 SS PL MOBILE NETWORK SITE 285403 BROKEN HILL NORTH (COUNCIL CANDIDATE) F ANTENNA CONFIGURATION TABLE MCCULLOCH ST, BROKEN HILL, N.S.W 2880 SHT S3-1 NO. INDEX DWG NO. S106752 © Telstra Corporation Limited ABN 33 051 775 556 All rights reserved. from Telstra. The copyright and ownership of this drawing is assigned to Telstra and must not be copied or saved elsewhere without written per