

# ACCOMMODATION MANAGEMENT PLAN

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# DRAFT

# Approvals and Reviews

## Accommodation Management Plan

Project	CopperString 2.0
Client	CuString Pty Ltd
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### Revision History

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# Contents

<b>1.</b>	<b>Introduction .....</b>	<b>4</b>
1.1	Project Scope .....	4
1.1.1	Objectives .....	4
<b>2.</b>	<b>Accommodation Planning .....</b>	<b>5</b>
2.1	Planning Camp Locations .....	5
<b>3.</b>	<b>Accommodation .....</b>	<b>6</b>
3.1	Types of Accommodation .....	6
3.2	Site Set up and Camp Services .....	6
3.3	Hub Locations .....	7
3.4	Accommodation Strategy and Management .....	15
3.4.1	Accommodation Strategy .....	15
3.4.2	Responsible Person .....	15
3.4.3	Travel and Accommodation System .....	15
3.5	Accommodation Standards .....	16
3.6	Accommodation Facilities .....	16
<b>4.</b>	<b>Camp Layouts .....</b>	<b>17</b>
4.1	Camp No. 1 – Charters Towers .....	17
4.2	Camp No. 2 – Pentland .....	18
4.3	Camp No. 3 – Hughenden .....	18
4.4	Camp No. 4 – Richmond .....	19
4.5	Camp No. 5 – Julia Creek .....	19
4.6	Camp No. 6 – Cloncurry .....	20
4.7	Camp No. 7 – Selwyn .....	20
<b>5.</b>	<b>Travel Strategy .....</b>	<b>21</b>
5.1	Fly in Fly Out (FIFO) .....	21
5.2	Drive in Drive Out (DIDO) .....	22
5.2.1	IVMS .....	23

# Appendices

Appendix A	Camp Layout Plans
Appendix B	Table of Existing Accommodation
Appendix C	Project Hubs
Appendix D	Travel to Camp Analysis

# 1. Introduction

## 1.1 Project Scope

The CopperString 2.0 Project (the Project) is an extra high voltage transmission system intended to connect the North West Power System (NWPS) near Cloncurry and Mount Isa to the Powerlink network and National Electricity Market (NEM) at Woodstock.

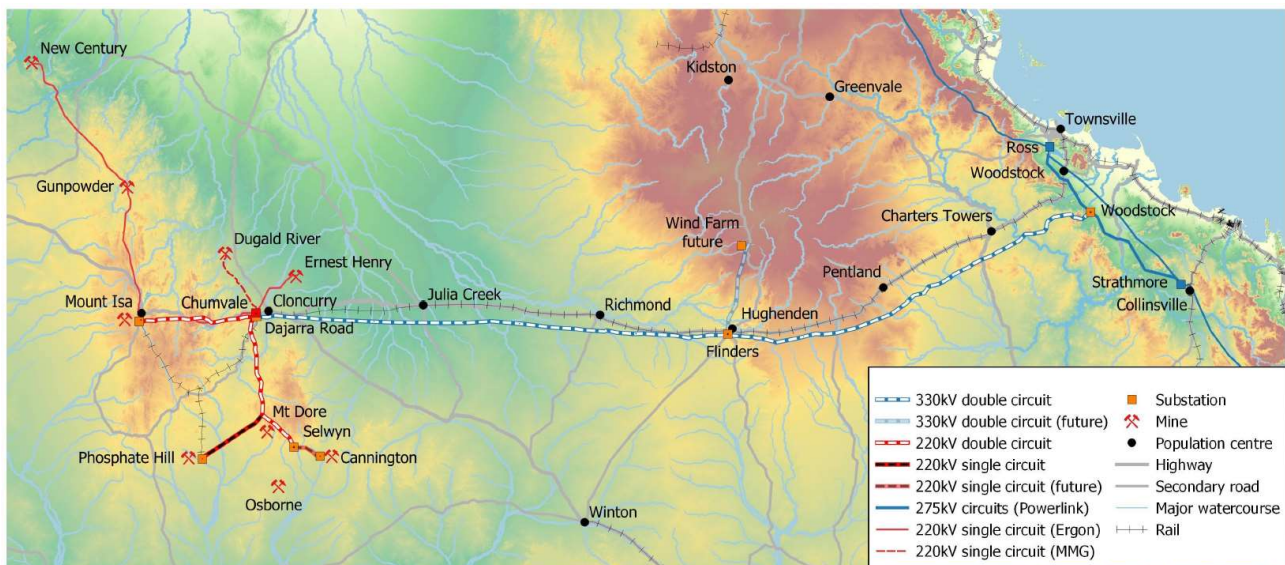


Figure 1: CopperString 2.0 Project – Proposed transmission lines

The purpose of the CopperString 2.0 Project is to connect the North West Minerals Province (NWMP) to the NEM in order to reduce the cost of power supply and facilitate the large-scale development of the Hughenden wind resource and solar resources within the North Queensland Clean Energy Hub (NQCEH).

The scope of work, traversing East to West, consists of the following sections:

- Powerlink Mulgrave Substation and 275kV line augmentation (Powerlink Connection)
- Woodstock Substation as CopperString connection point to the NEM
- Flinders Substation (Hughenden) as core for Renewable Energy Hub
- Dajarra Road Substation (Cloncurry) as core for distributions to larger load centres
- The primary CopperString transmission backbone
- Southern connections consisting of Phosphate Hill transmission line and Woodya substation for forecasted mining loads
- Northern Mount James transmission line and substation connection for additional renewable generation; and
- Termination via Mount Isa augmentation.

The scope consists of a transmission line between the locations above carrying Extra High Voltage power transmission at 330kV and 220kV respectively. Substations located at the interconnecting junctions above shall distribute power to the NWMP and NQCEH respectively.

### 1.1.1 Objectives

The objectives of this Accommodation Management Plan are to detail the accommodation requirements of the CopperString 2.0 Project. For required works, UGL and CPB JV will ensure that employees are provided with appropriate accommodation for the works that are being performed.

The details that will be considered are:

- Task / project duration



- Fatigue Management
- Journey Management and travel plans
- Location of project
- Number of personnel requiring accommodation
- Accommodation availability
- Accommodation suitability / facilities and hygiene.

## 2. Accommodation Planning

Camp sizing and head count consideration have been calculated on accommodation requirements obtained from the delivery schedule to allow for:

- Team members and timing of the various disciplines
- Site management, support and supervisory staff
- Project support staff such as wet hire mobile plant (cranes & EWP's), mobile batch plant operators, Cultural Heritage monitors
- Allowance for CuString staff, senior management and general project visitors.

Detailed calculation and best use of camp services (resource levelling) and the requirements for any additional bed allowance such as client or other required staff over each location will be identified during the ECI to ensure an appropriate capacity of each camp is established.

### 2.1 Planning Camp Locations

The UGL and CPB JV initially reviewed the draft version of the EIS to obtain the suggested camp areas. Areas were visually inspected and considered at the township to ascertain any possible constraints or considerations of these areas.

Key criteria that has been considered as part of the detailed planning and finalising of camp locations during the ECI included:

Camp location criteria considerations	
1. Permits, approvals and considerations	
Planning & other governmental approvals are obtained through the EIS and/or available to be obtained. Or through the MID process for land access.	Building and relevant permits are able to be obtained for the requirements identified. Option to submit an MID for land use requirements to obtain approval for camp land use.
Local infrastructure is sufficient IE Mains power, water, sewer Ability to install spray fields for WWTP	Opportunity for integration and utilisation of local facilities located in local townships to reduce overall expenditure on service connections and extensions.
Community impacts, neighbours, noise, dust, early and late-night movements.	Access for deliveries, roads or infrastructure upgrade requirements, turning lanes, siting distances for exit and entry, traffic volumes from access roads, dust management and environ impacts
Proximity to townships for emergency services considerations	Security of personnel, vehicles, materials, etc
Safety of location for personnel and community. Other infrastructure, rivers, dams etc	Environmental and Cultural Heritage assessments impacts and benefits.
2. Productivity	

Optimised positioning between line and substation works. Cost and benefits impact assessment of camp locations weighted toward substation proximity for travel benefit	Efficiency of travel to access easement, main routes etc Targeted travel times of <1.5hrs for fatigue and efficiency, with average target of 45mins.
Proximity to township, shops, pools, gyms, services	Cost and benefits impact assessment of travel times v's reduced camp locations
Available area for integrations with site offices, storage, yards, Batch Plant's etc	Positioning of main and satellite office facilities

### 3. Accommodation

#### 3.1 Types of Accommodation

The UGL and CPB JV will utilise a combination of the following accommodation types, either available or to be constructed, along the alignment, including:

- Existing motels, hotels, rental properties and other accommodation in Townsville, Charters Towers, Hughenden, Cloncurry and Mt Isa.
- New constructed temporary camp facilities.
- Existing camp facilities in the mining and resource sectors along the alignment – in Ravenswood, Osbourne, Six Mile Plain and Phosphate Hill.

#### 3.2 Site Set up and Camp Services

Due to the small capacity of some of the local towns along the alignment the provision of new camps at certain townships is required. All new camp infrastructure will be demountable unless alternative community and project benefits are identified prior to commencement.

Due to the nature of linear works the camps will remain in place for the duration of their requirements with varying levels of occupation as they are utilised for differing work disciplines. Setup and demobilisation will take place in line with the schedule delivery requirements.

The JV has significant experience in managing projects in remote locations requiring camp facilities. From this experience and general expectation of 'what a camp looks like' and includes, the following are factored into our construction staff accommodation.

- All camps will contain
  - Working office
  - Meeting room/s for site meetings, project reviews, safety inductions,
  - First aid room
  - Individual accommodation units 'donga's'
  - Facilities provided in the camp which will assist in maintaining a stable workforce
  - Internet and WIFI services (where feasible)
  - Mobile services and boosters (where feasible)
  - Foxtel or similar services
  - Wet mess for non-working time
  - Gym facilities for non-working time
  - Serviced camp for cleanliness and hygiene purposes
  - Self-serve laundry
  - New demountable units for comfort
  - Fully serviced kitchen facilities.
- Camp facilities such as the wet mess building will generally be cross utilised for pre starts and large meeting rooms, as required.

The requirements for first aid and associated requirements will vary across the project regions and locations. Some locations for example may require appropriately trained medical staff to be in full time and on call attendance. Refer to Workplace Health and Safety Management Plan for further details.

The level of medical services required, will be established through detailed investigations and site-specific risk assessments. Considerations for first aid facilities and medical services includes:

- Access to existing medical facilities, the services available and operational hours
- Availability and expected travel times for emergency services, including access in exception weather events
- Safety system guidelines for the requirements of remote work working
- Training and certification held by project staff & personnel i.e. Safety offices may hold Paramedic or Industrial Paramedic qualifications.

Where required a camp Nurse or similar service will be established as a either a static service based at a single camp or a mobile/roaming service to provide opportunities for project personnel who may wish to obtain medical assistance that is not time critical. Initial investigations have identified medical facilities (see map below) throughout the project area that generally align with camp locations. The ability of these services to provide the required level of medical services will be investigated during the ECI and adjustments made to the project support services as required.

All emergencies will be managed in line with locally established Emergency Management Plans.



Figure 2: Indicative medical and emergency facilities

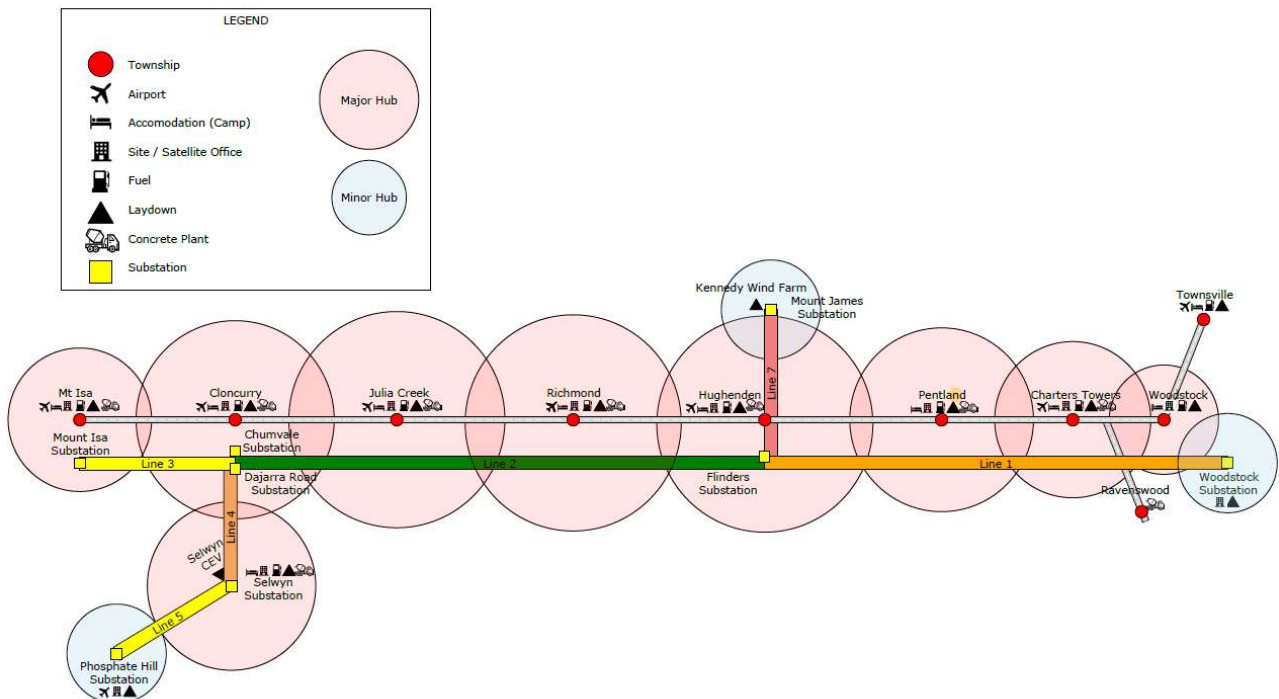
Security services and provisions will be identified via risk analysis. On site security services are not expected to be required at all camp and project work sites. Security services will vary between site static and roaming services and electronic surveillance sites at likes of Substations and laydown areas. Refer Security Management Plan for further details.

### 3.3 Hub Locations

The project alignment has been split into nine hubs for travel and accommodation planning. The figure below outlines the location of these hubs.

Figure 3: Project Hub Locations





Each of the 'hubs' identified above will provide accommodation to the adjacent transmission line and substations, as required. The 'hubs' have been split to service the above marked work areas in Figure 3. The below figures detail the work zones for each hub.

Figure 4: Woodstock Hub

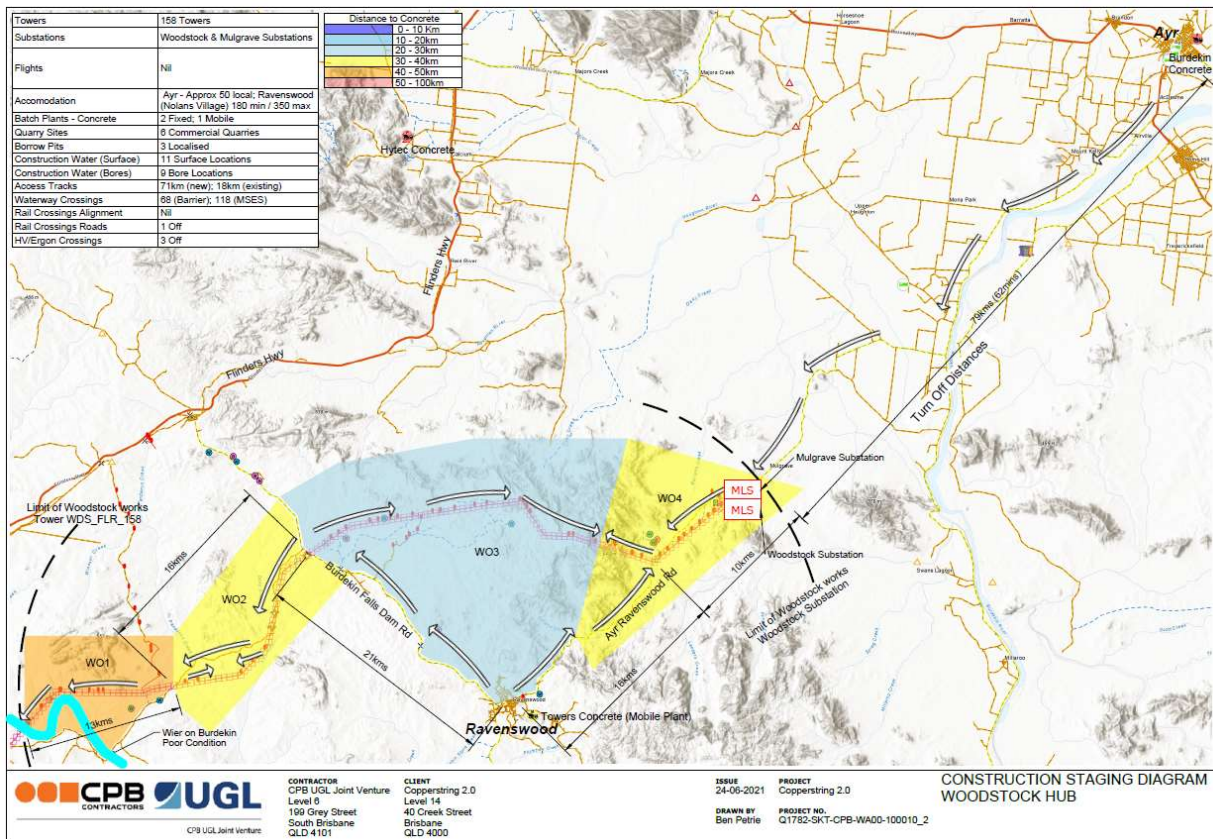




Figure 5: Charters Towers Hub

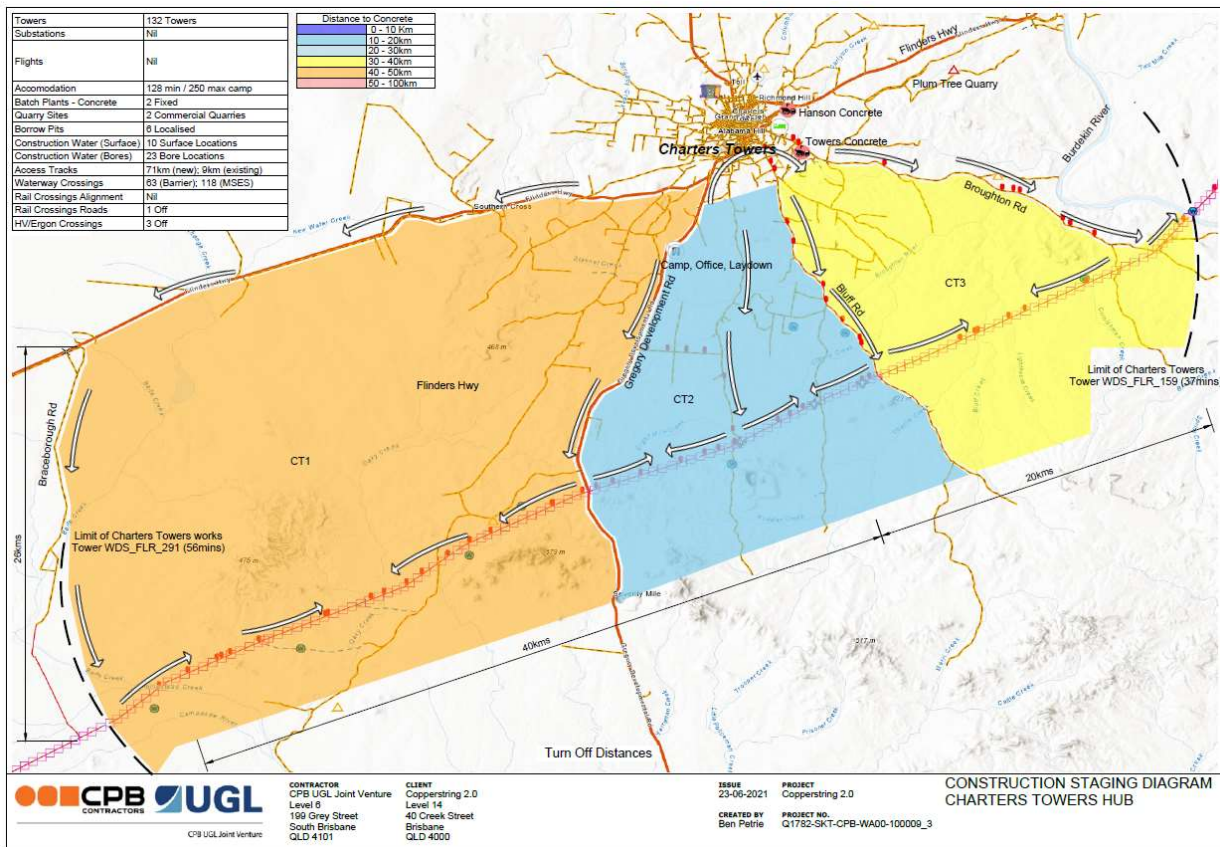


Figure 6: Pentland Hub

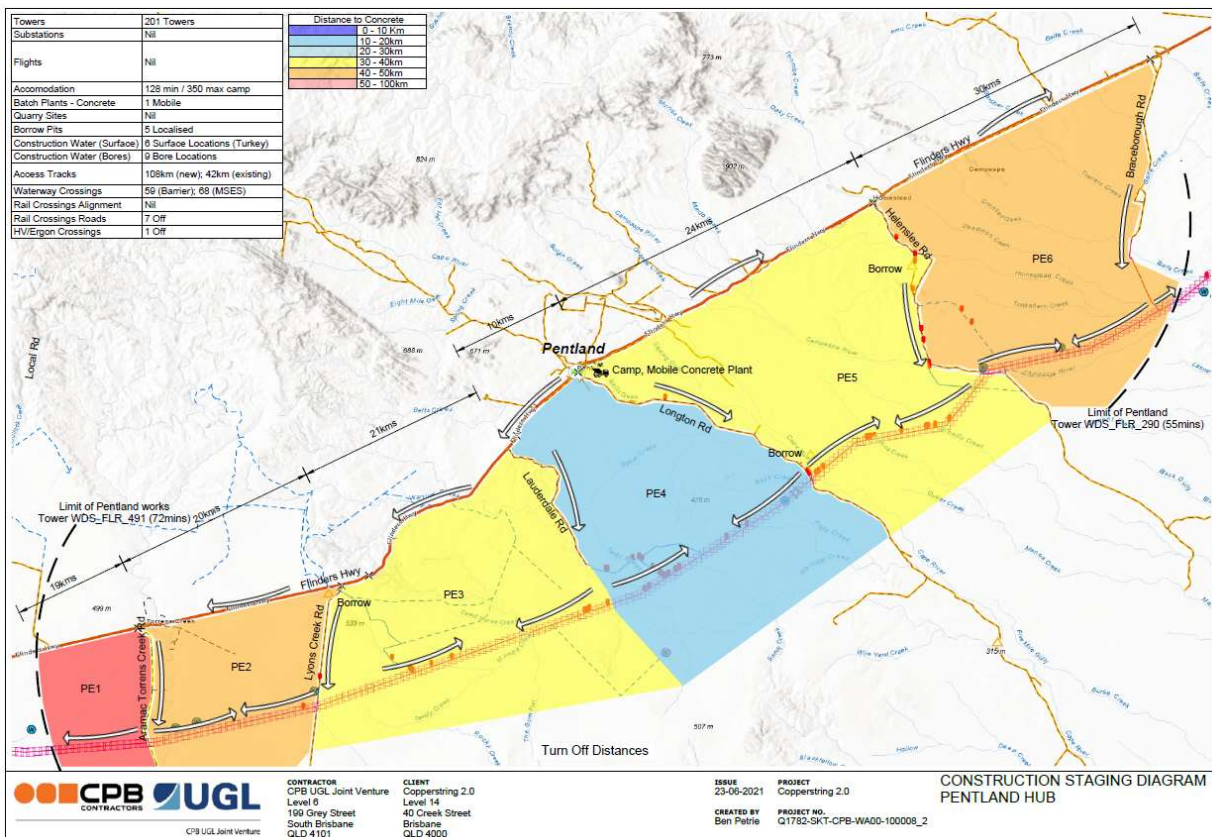




Figure 7: Hughenden Hub

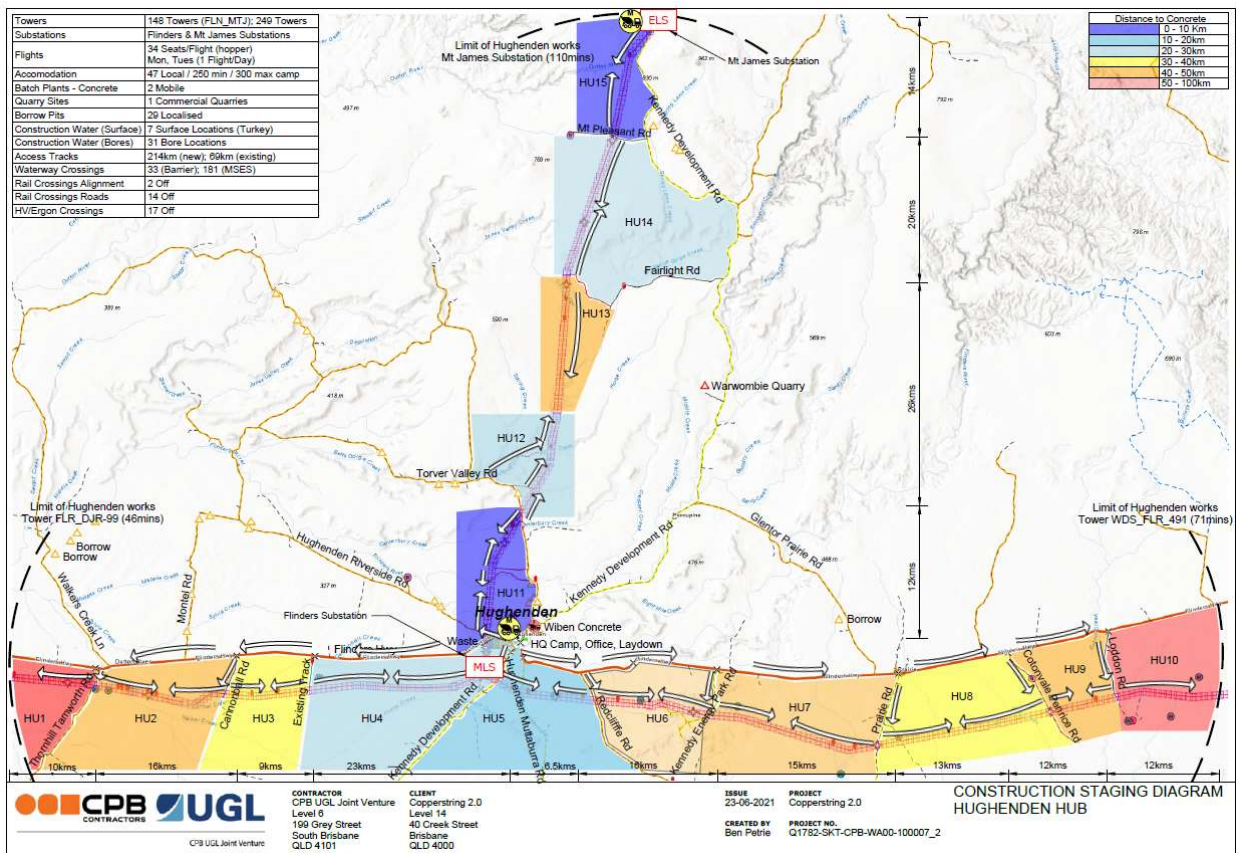


Figure 8: Richmond Hub

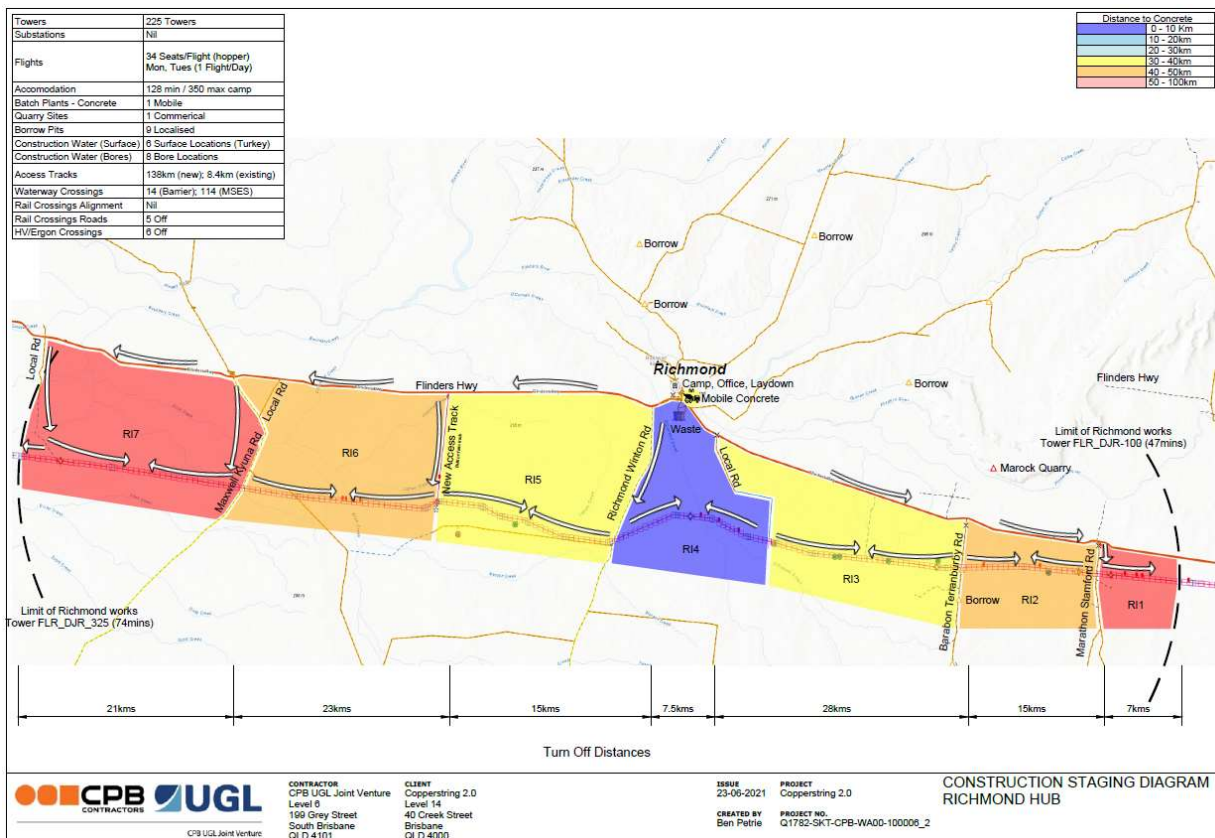


Figure 9: Julia Creek Hub

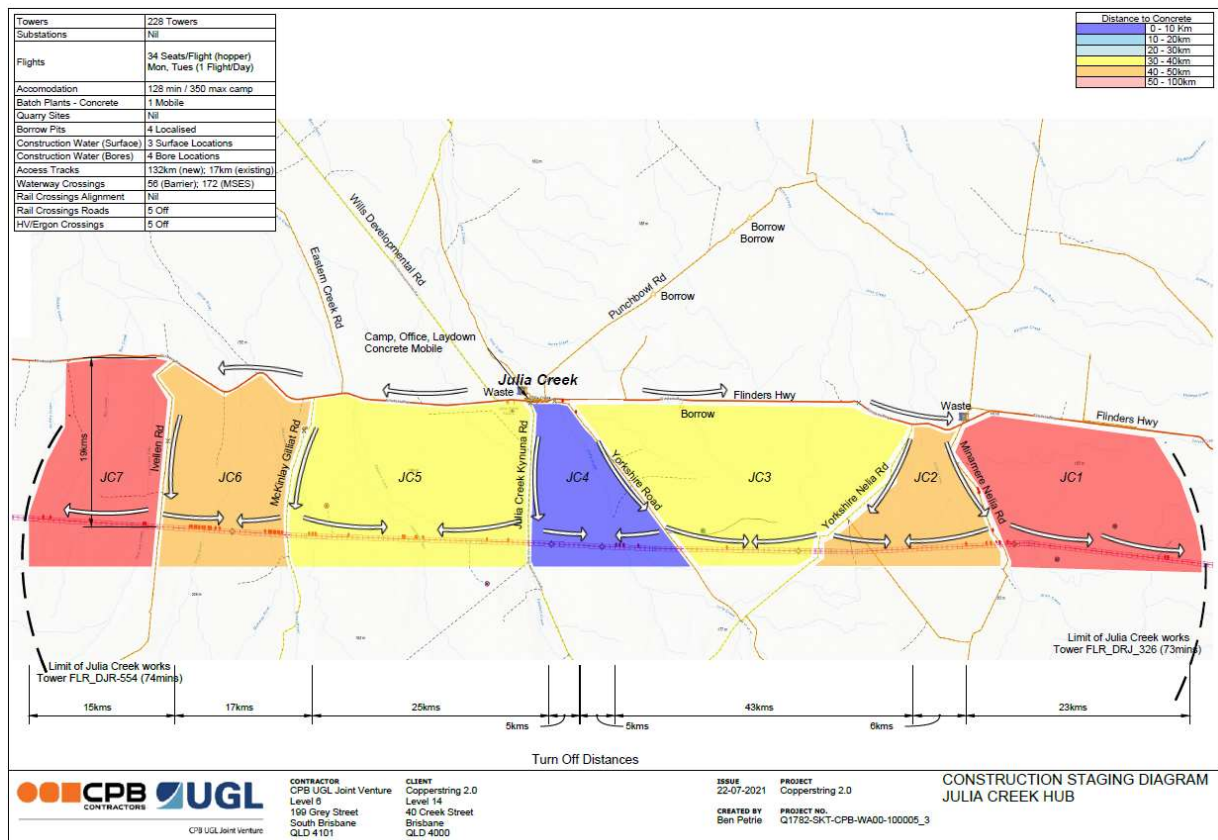


Figure 10: Cloncurry Hub

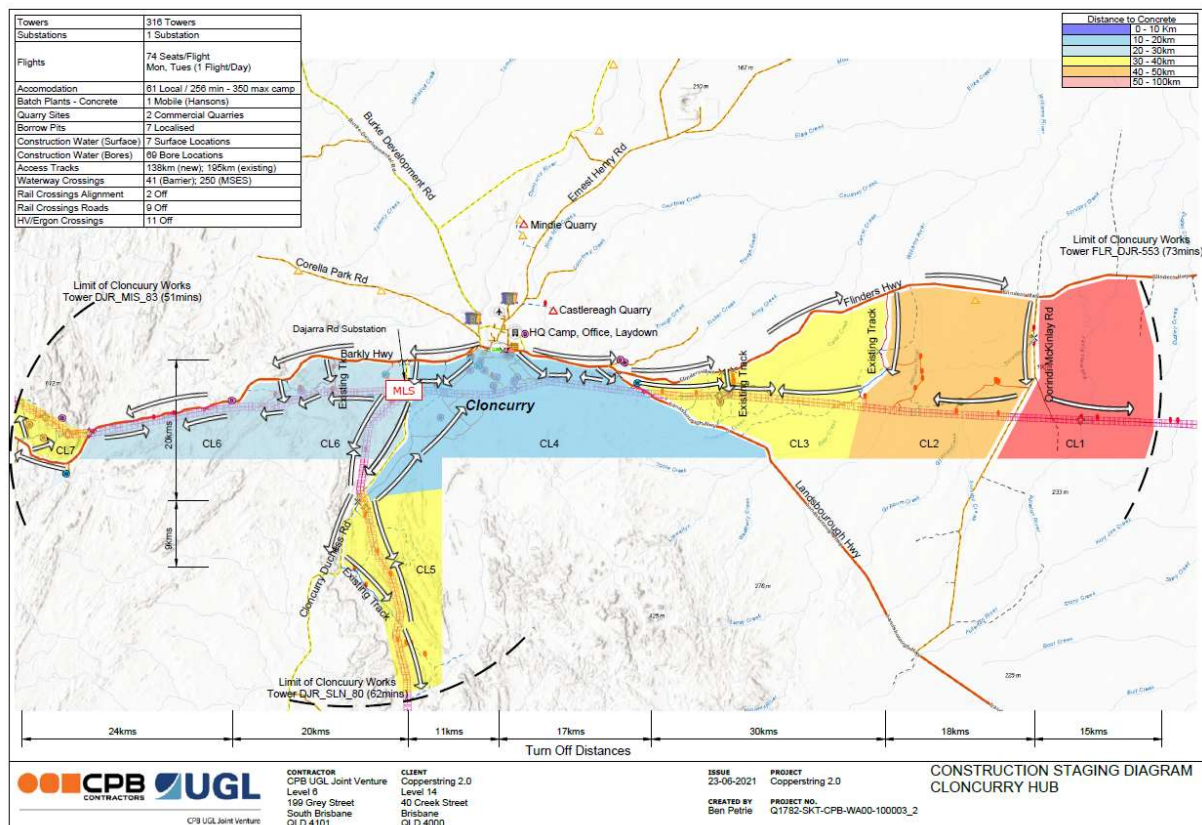




Figure 11: Mt Isa Hub

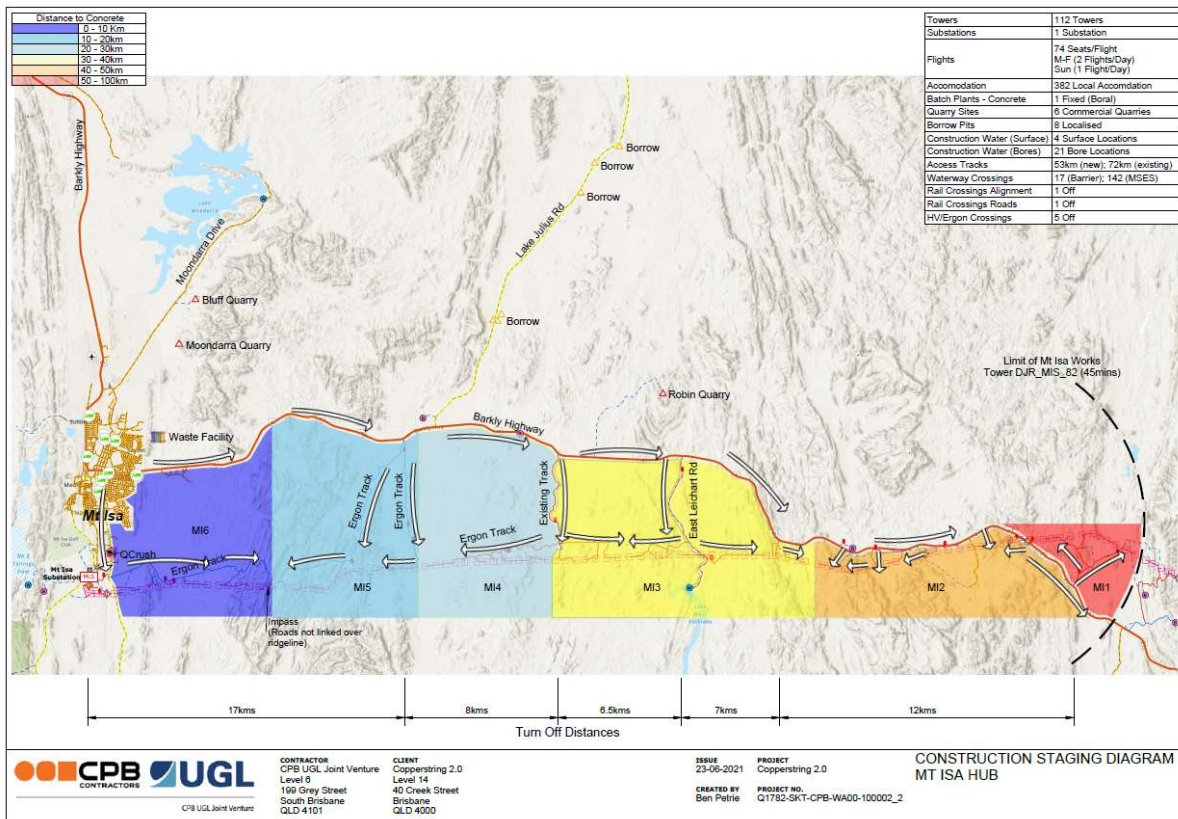
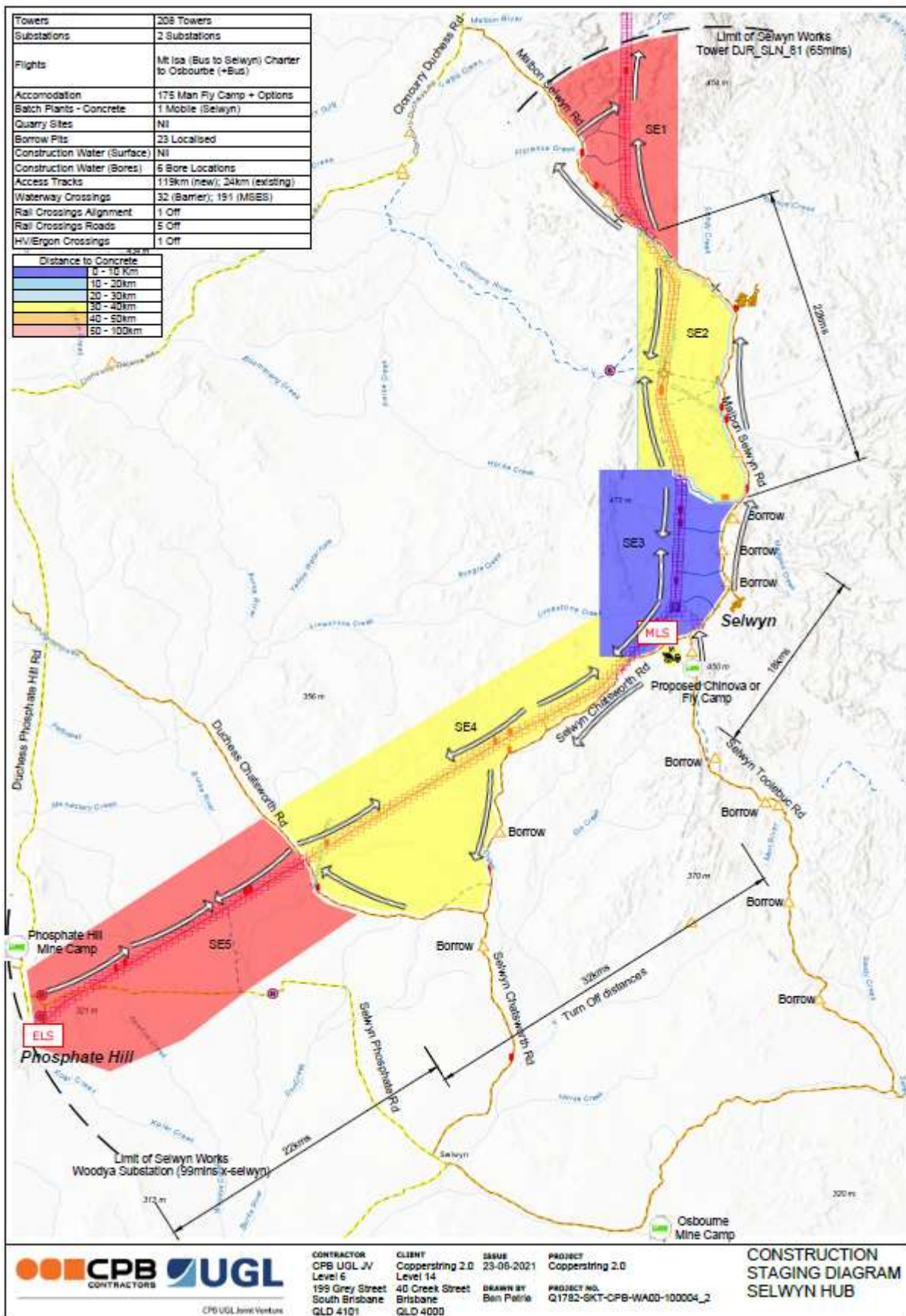




Figure 12: Selwyn Hub



The location of all temporary camp facilities is detailed in the figures above. All camps have been located near existing townships to utilise existing services and bitumen roads to provide easy access during an evacuation.

The table provided in Appendix B details all existing accommodation that has been considered within the ECI phase for potential use for accommodating personnel on the project.

Table 2: Camp (Temporary) Locations

Location	Address	Total Area (m2)	No. of People	Council
Camp No. 1 – Charters Towers	Modular / Fly Camp Lot Number 13 / SP218328	65,870 m2	150	Charters Towers Regional Council
Camp No. 2 – Pentland	Modular / Fly Camp Lot Number 14 / SP232792	65,370 m2	120	Charters Towers Regional Council
Camp No. 3 – Hughenden	Major Camp Lot Numbers 156 / H20323 118 / DG118 17 / H20320 24 / H20328 25 / H20328 26 / H20328 28 / H20328 29 / H20328	71,000 m2	300	Flinders Shire
Camp No. 4 – Richmond	Modular / Fly Camp Lot Numbers 21 / SP280618 223 / SP137115 224 / SP137115 225 / SP137115 226 / SP137115 227 / SP137115 228 / SP137115 229 / SP137116	65,370 m2	150	Richmond Shire
Camp No. 5 – Julia Creek	Modular / Fly Camp Lot Number 11 / EN105	65,370 m2	150	McKinlay Shire

Camp No. 6 – Cloncurry	Major Camp	71,000 m2	300	Cloncurry Shire
	Lot Number 1/SP276472			
Camp/Hub No. 7 – Selwyn	Modular / Fly Camp	65,870 m2	150	Cloncurry Shire
	Lot Number 5364 / SP278014			
	Chinova Resources Cloncurry Mines Pty Ltd			
	Lot Number 13/SP223510			
	MDH Pty Ltd			

## 3.4 Accommodation Strategy and Management

### 3.4.1 Accommodation Strategy

Personnel involved in early activities will be drawn from local sources, where possible. For those FIFO personnel or DIDO personnel required for early activities, local accommodation will be sourced in hotels, motels and caravan parks. There are many towns along the alignment that can cater for a small influx of people for a limited duration of time. These townships include those listed below:

- Townsville
- Charters Towers
- Pentland
- Hughenden
- Richmond
- Julia Creek
- Cloncurry
- Mt Isa.

Local and existing facilities will be utilised until such time as the temporary camps are constructed. A total of seven (7) camps will be constructed along the alignment at Charters Towers, Pentland, Hughenden, Richmond, Julia Creek, Cloncurry and Selwyn. The camp sizes have been rationalised to the resource schedule and is based on a discipline approach of transitioning workforce and staff through each camp in sequence of the program. This strategy reduces the overall size of the camp, reducing costs and minimising the footprint on local townships for water sources, sewerage and land requirements.

### 3.4.2 Responsible Person

Organisation and coordination of site personnel flights and accommodation is primarily responsibility of the Planner, Scheduler and Logistics Coordinator for all project works. The Coordinator will determine the travel and accommodation requirements in line with the quantum of work derived from the 120 plan and the Agreed 28-day schedules, to produce associated journey and travel management plans. The detailed information outlining personnel travel and accommodation requirements will be compiled into a Microsoft Excel Workbook and provided to the Administrator / Cost Controller for booking and information distribution to the personnel that are to be mobilised.

### 3.4.3 Travel and Accommodation System

The UGL and CPB JV will use a combination of Microsoft Excel based applications and an online intranet based 3rd party travel management system called Concur to book all accommodation and travel requirements.

### Microsoft Packages



- Travel and accommodation requirements will be determined by the Planner, Scheduler, Logistics Coordinator and downloaded from the 28-day schedule into a Microsoft Excel workbook
- Accommodation will be booked per:
  - UGL CPB JV and CuString staff arranged short term accommodation in camps, or
  - Where approved, hotel and existing accommodation facilities along the alignment.

### Concur



- Concur is UGL and CPB JV's chosen system to manage all business travel and accommodation requirements
- Concur will be used for booking travel and accommodation for all leadership roles including Superintendents, direct staff and the Contract Manager
- It will be the responsibility of the Administrator / Cost Controller to coordinate and arrange leadership travel requirements.

## 3.5 Accommodation Standards

Where accommodation is required, UGL and CPB JV will ensure that employees are provided with site-based accommodation that optimises rest and sleeping conditions, taking into consideration:

- Physical conditions (light and soundproofing)
- Room dimensions
- Facilities including messing where required
- Hygiene
- Air conditioning and heating
- Environmental management (e.g. noise and activity restrictions at sleeping times, etc.)
- Mobile phone coverage will be provided when commercial phone networks are unavailable.

## 3.6 Accommodation Facilities

For the duration of site mobilisation and construction of the temporary camp locations the accommodation facilities will be located within the nearest townships of the camp locations, including those listed below:

- Townsville
- Charters Towers
- Pentland
- Hughenden
- Richmond
- Julia Creek
- Cloncurry, and;
- Mt Isa

Local and existing facilities will be utilised until such time as the temporary camps are constructed.

Once the temporary camps are constructed, all staff and workers will relocate to the camp locations and will transition through each of the camp locations based on the schedule sequencing.

Local accommodation will be utilised for the following work zones / hubs:

1. Woodstock and Mulgrave Substations
2. Transmission Line West of Woodstock
3. Mt Isa Substation



#### 4. Transmission Line East of Mt Isa

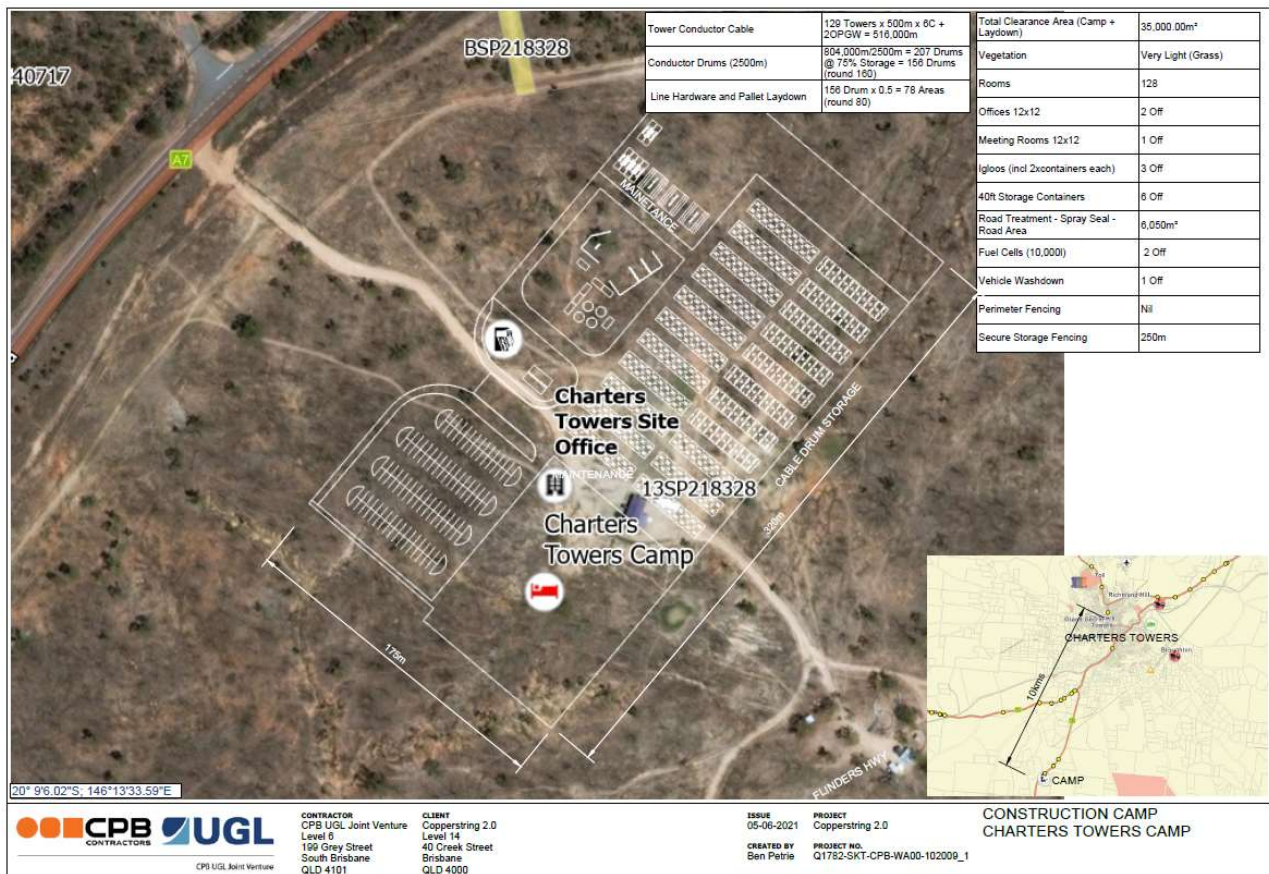
## 4. Camp Layouts

Camp layouts have been developed as compounds including the camp, car parking, site offices, maintenance workshop and laydown areas. Utilising this method only one parcel of land needs to be developed for each site.

UGL and CPB JV will be responsible for the temporary connection of all utilities to these facilities. Should connection to permanent utilities be unavailable then the UGL and CPB JV will arrange for temporary supplies as required to carry out the works.

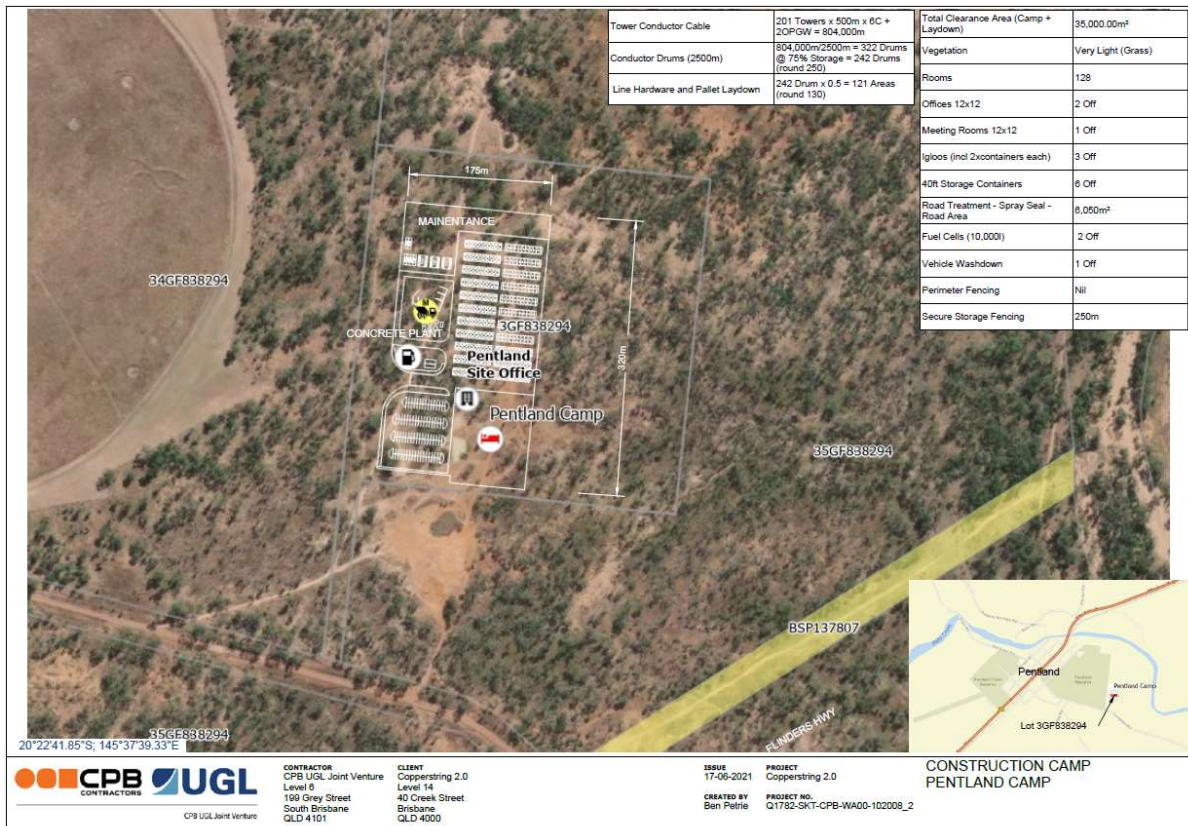
Below in Section 3.1 to 3.7 are diagrams depicting the anticipated camp arrangements at each site.

### 4.1 Camp No. 1 – Charters Towers

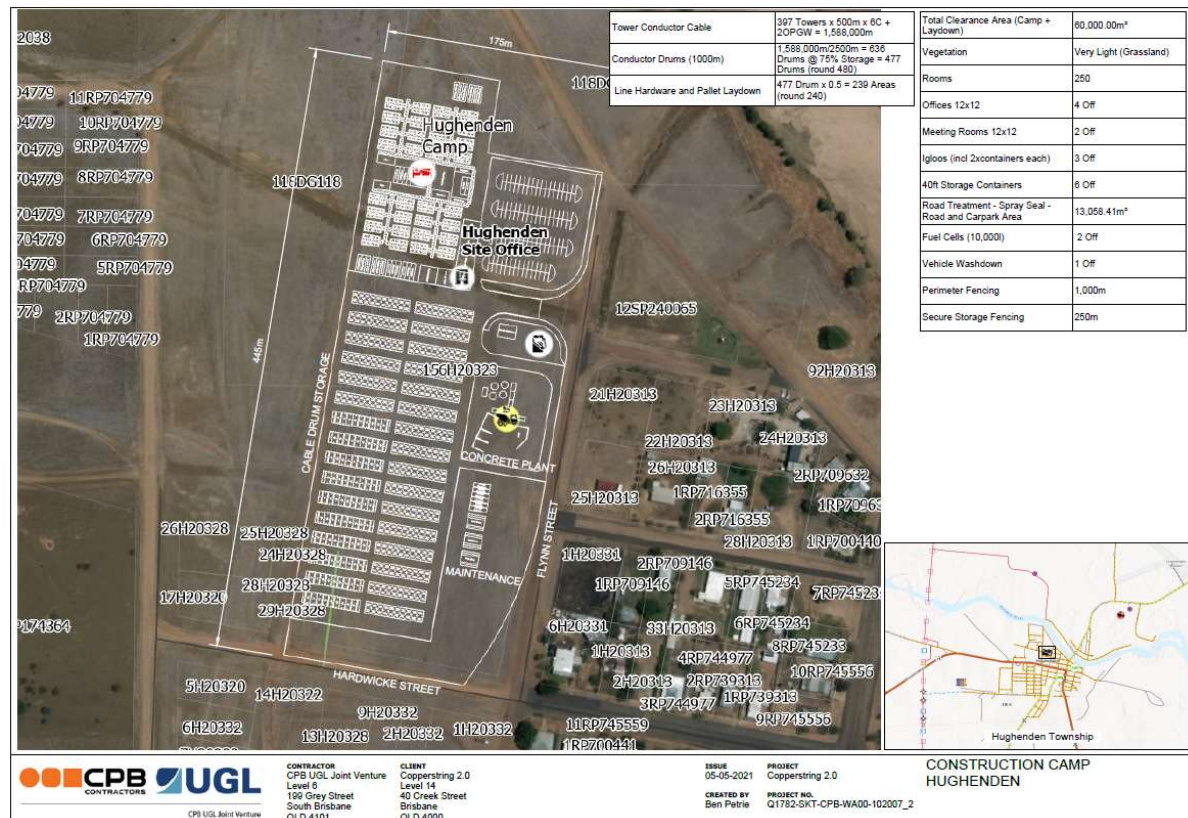




## 4.2 Camp No. 2 – Pentland

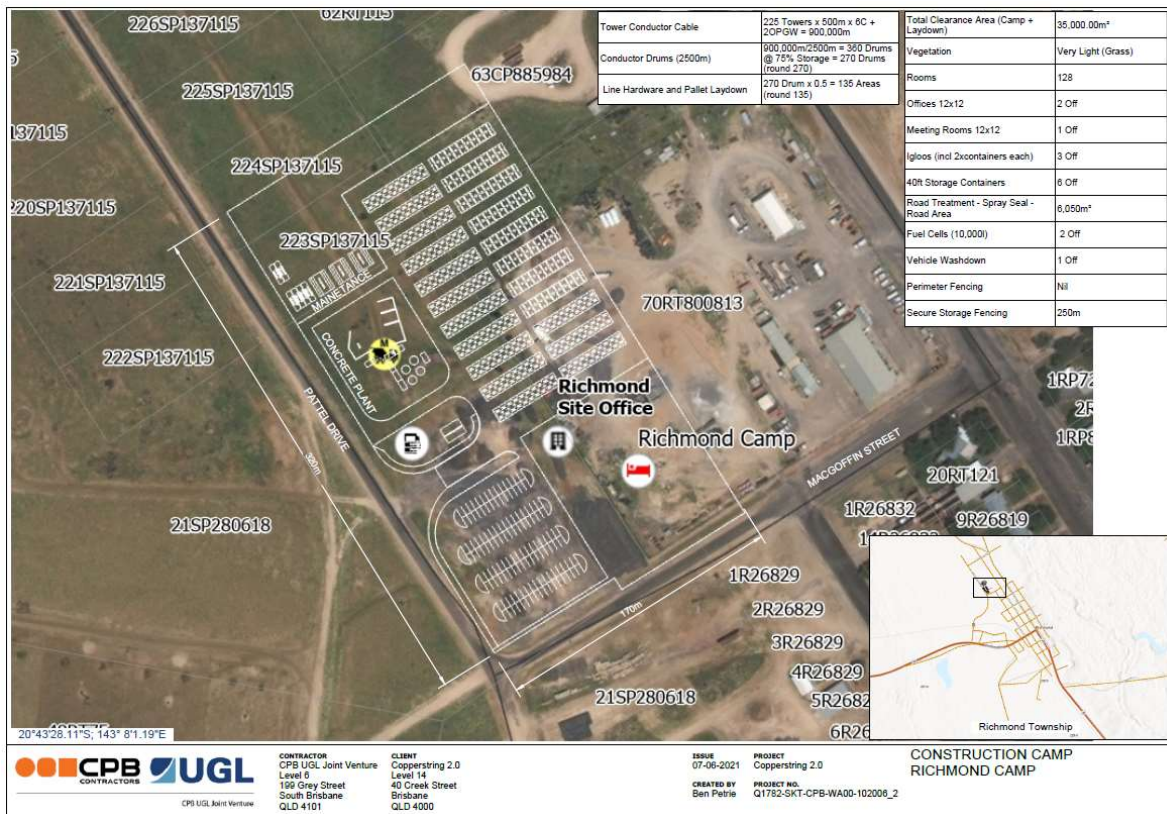


## 4.3 Camp No. 3 – Hughenden

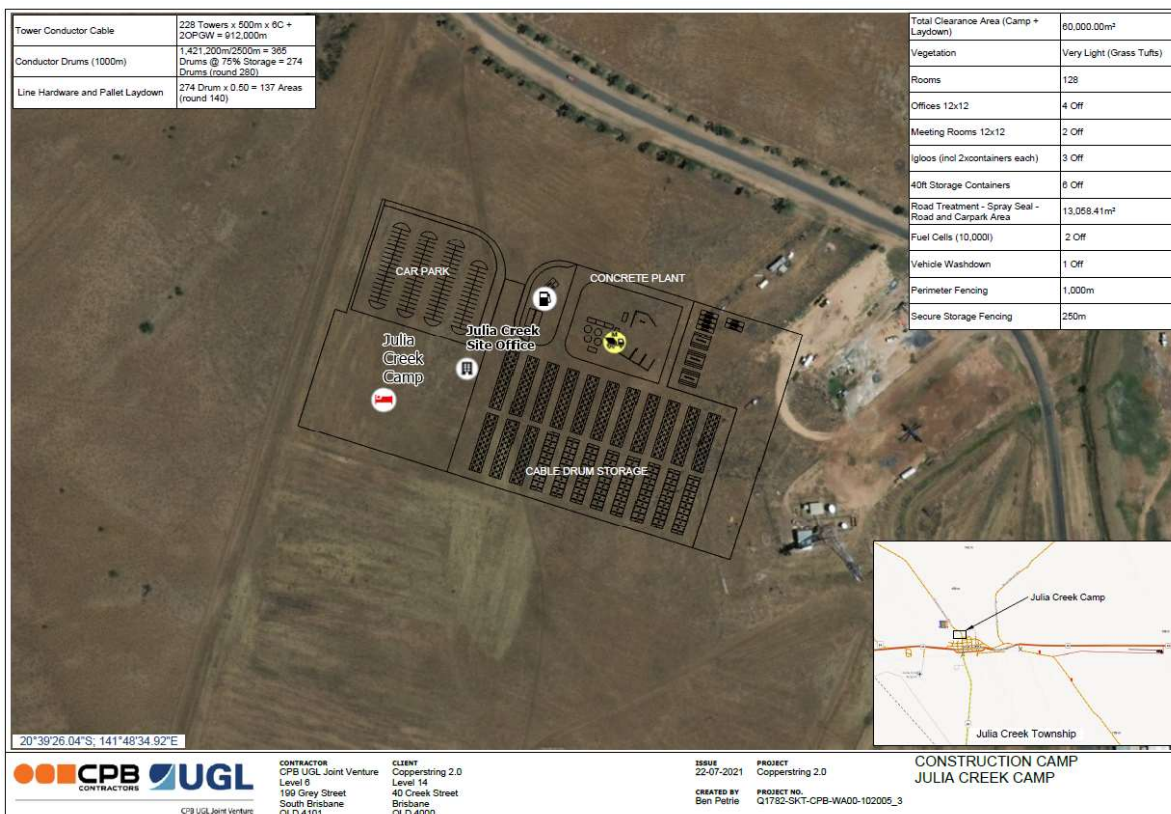




## 4.4 Camp No. 4 – Richmond

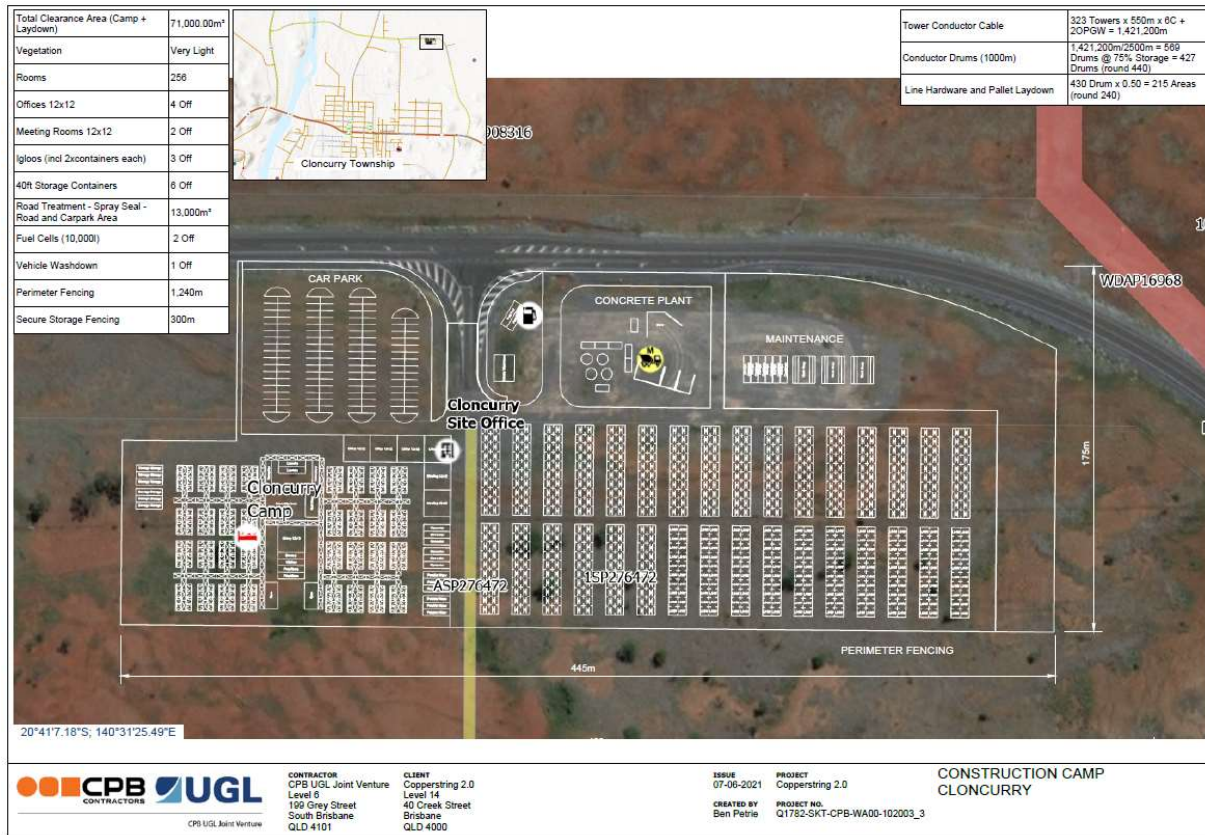


## 4.5 Camp No. 5 – Julia Creek

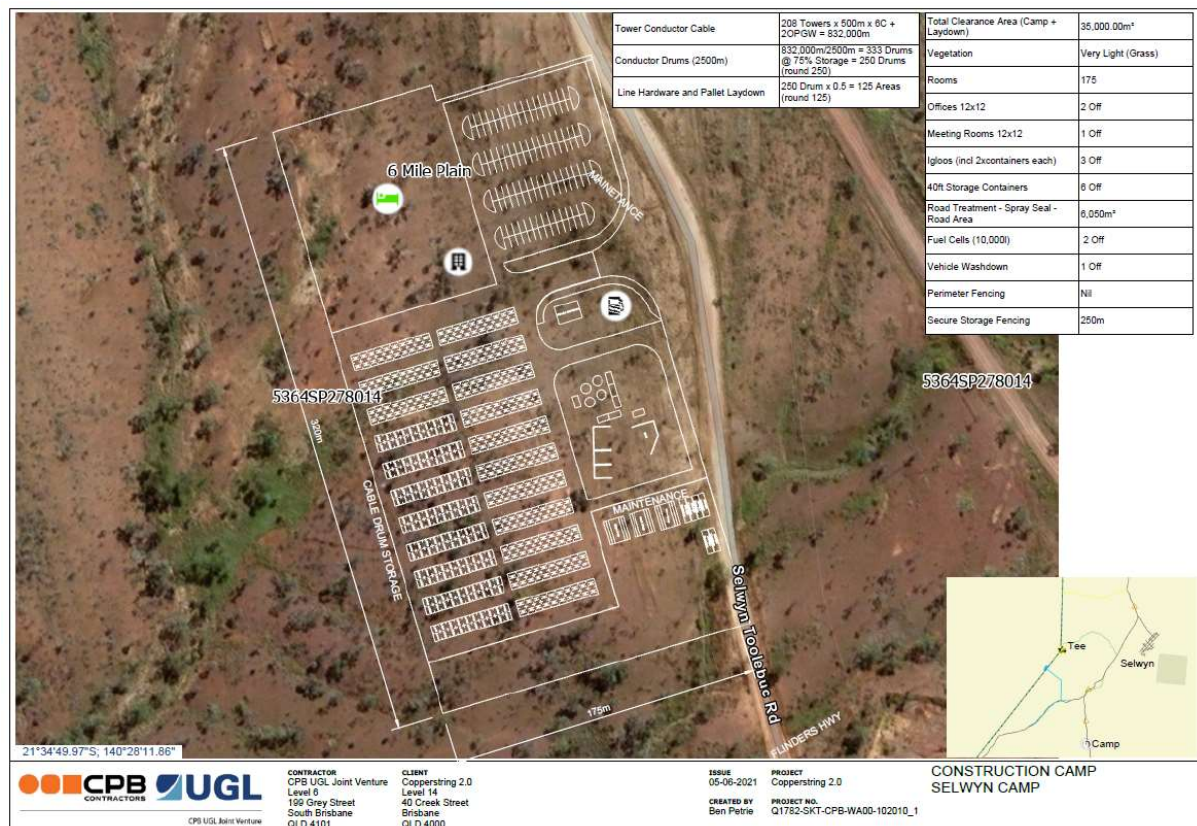




## 4.6 Camp No. 6 – Cloncurry



## 4.7 Camp No. 7 – Selwyn





## 5. Travel Strategy

UGL and CPB acknowledges that one of the main risks in the industry is work related travel, which is magnified by the remote nature of the work being performed and the extended hours of work that are required. On that basis:

- Each person that is driving a vehicle will be required to complete a journey management plan. The plan must be signed off by the supervisor prior to the personnel undertaking travel.
- It will be a mandatory requirement that a fatigue assessment checklist be completed for each person that will drive a vehicle at the start of shift.
- In the event of a person reporting that they are fatigued, the supervisor can use a fatigue management chart as a guide for the last shift of the swing.
- UGL and CPB will deploy the IVMS system that is currently utilised throughout our regional businesses and mining businesses in central Queensland.

UGL is an active participant and member in Safer Together Forum and has aligned the systems and processes defined by the Land Transport working group for our Mining Business in far northern Queensland.



UGL and CPB have successfully deployed the IVMS system and will implement that system, with its suite of reports and pro-active actions based on that data along with the existing UGL and CPB requirements for the management of fatigue for this project.

The overall travel strategy for the Project is to utilise travel to existing airfields positioned in Townsville, Charters Towers, Hughenden, Richmond, Julia Creek, Cloncurry and Mt Isa and bus personnel to nearest camp sites.

### 5.1 Fly in Fly Out (FIFO)

The Project will utilise a combination of existing commercial flights and private charter flights depending on the airfield location. The following table details the airfields that will be used for transporting personnel from their point of residence to the site and is represented in the figure below.

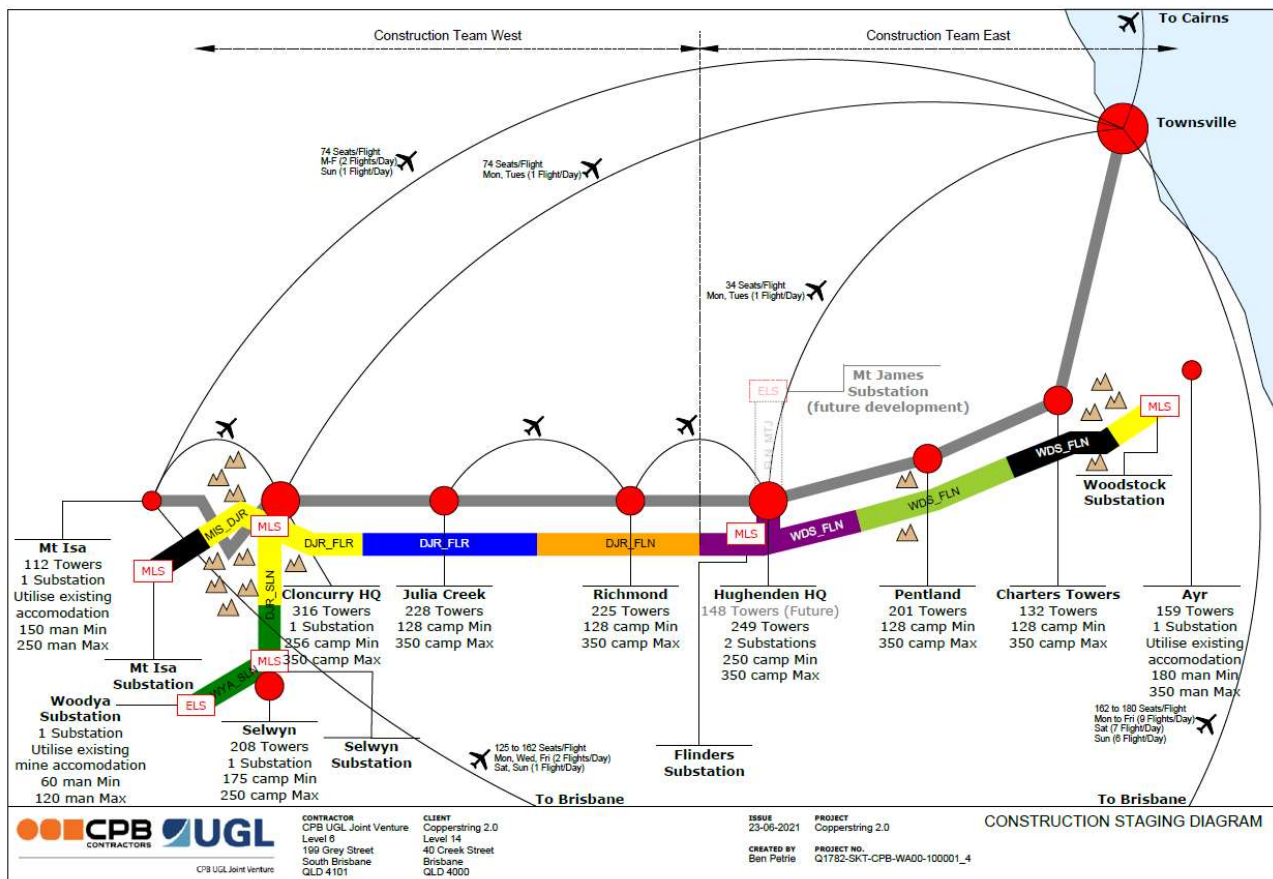


Table 3: Flight Travel Strategy

Hub Location	Airfield	Avg Driving Time from hub to Site
Hub No. 1 – Woodstock	Townsville	27 mins
Hub No. 2 – Charters Towers	Townsville	48 mins
Hub No. 3 – Pentland	Townsville	35 mins
Hub No. 4 – Hughenden	Townsville + Hughenden	42 mins
Hub No. 5 – Richmond	Cloncurry	41 mins
Hub No. 6 – Julia Creek	Cloncurry	42 mins
Hub No. 7 – Cloncurry	Cloncurry	34 mins
Hub No. 8 – Selwyn	Cloncurry	38 mins
Hub No. 9 – Mt Isa	Mt Isa	32 mins

## 5.2 Drive in Drive Out (DIDO)

The following table details the drive-in drive-out strategy that will be used for transporting personnel from their point of residence or incoming flight location to the camp / site office / work site.

Table 4: Driving Time to Camps

Hub Location	From Location	Bus	Travel Time – Driving
Hub No. 1 – Woodstock	Townsville	Townsville to Ayr	1 hr
Hub No. 2 – Charters Towers	Townsville	Townsville to Charters Towers	1.5 hrs
Hub No. 3 – Pentland	Townsville	Townsville to Pentland	2.5 hrs
Hub No. 4 – Hughenden	Hughenden	Hughenden to Camp	15 mins
Hub No. 5 – Richmond	Cloncurry	Cloncurry to Richmond	2hr 55 mins
Hub No. 6 – Julia Creek	Cloncurry	Cloncurry to Julia Creek	1hr 25 mins
Hub No. 7 – Cloncurry	Cloncurry	Cloncurry to Camp	15 mins
Hub No. 8 – Selwyn	Cloncurry	Cloncurry to Selwyn	2hrs 20 mins
Hub No. 9 – Mt Isa	Mt Isa	Mt Isa to Town Accommod	15 mins

### 5.2.1 IVMS

UGL and CPB currently deploys the In-Vehicle Monitoring System (IVMS) for all personnel that have the potential to be driving a vehicle to projects and sites in regional and remote locations. For this Project, those drivers will have completed a defensive driving course that meets UGL and CPB's compliance standards and will be trained in the use of In Vehicle Monitoring Systems (IVMS), this will apply to all staff, workforce and subcontractors who will be driving on site. All deployed personnel will be briefed on these standards with respect to safe vehicle operation and compliance with IVMS standards and thresholds.

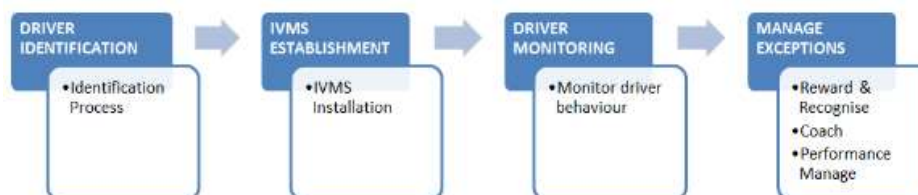


Figure 3 – UGL's IVMS High Level Process Flow

The IVMS system will monitor the following:

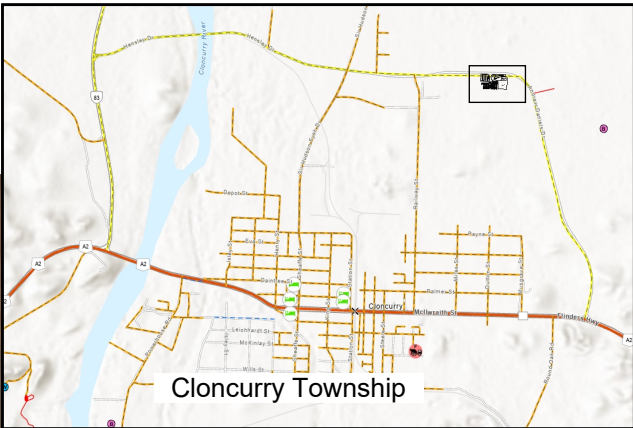
- Vehicle Management Monitoring
- Driver behavior exception monitoring and reporting
- Emergency Duress Button (Lone Workers)
- IVMS Geo-fencing (establishing project/site/operation boundary exceptions).

The data obtained from the IVMS system will be utilised to manage risk and analyse behaviors and improve safe driving practice through a monthly driver behavior scorecard.

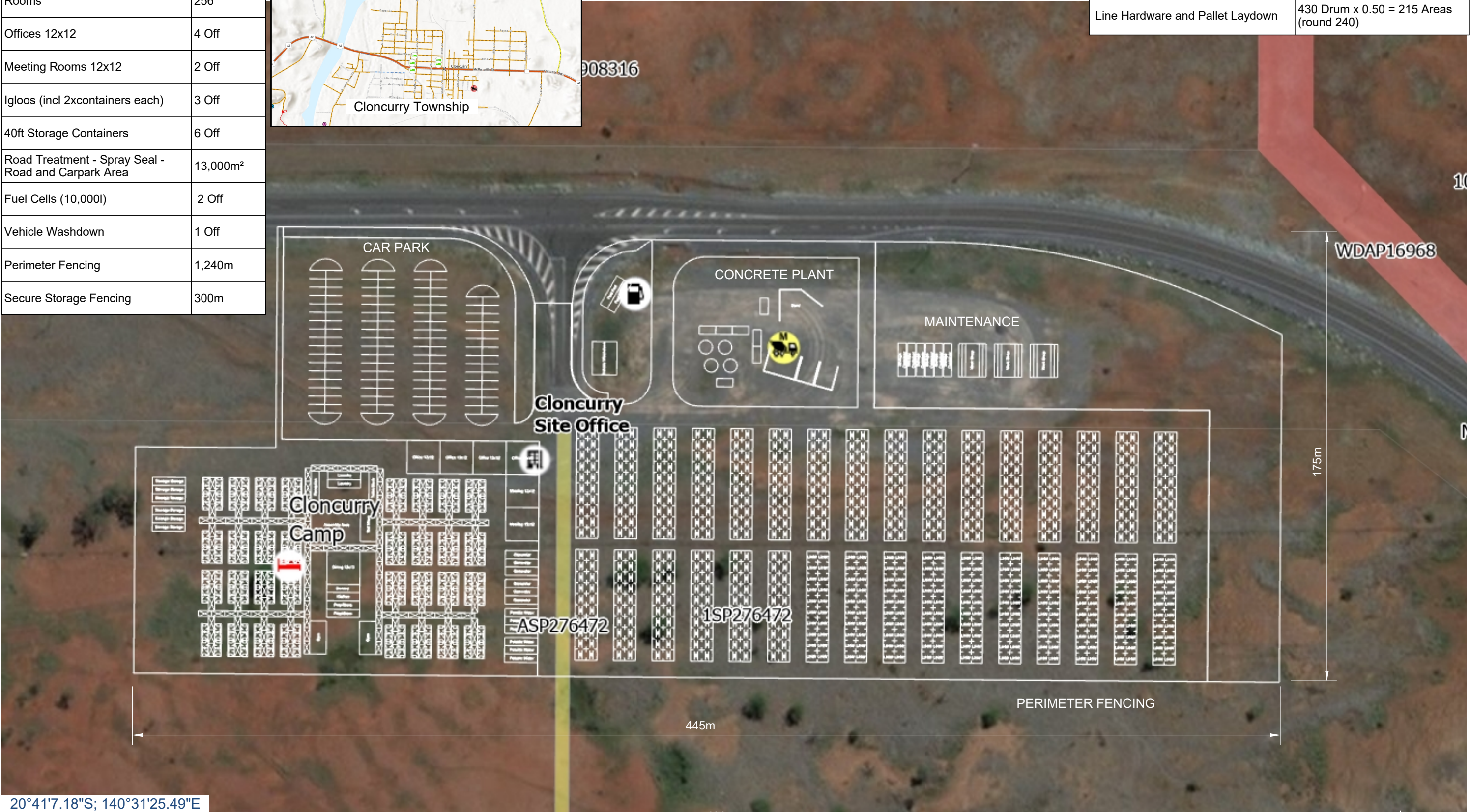


# Appendix A      Camp Layout Plans

Total Clearance Area (Camp + Laydown)	71,000.00m²
Vegetation	Very Light
Rooms	256
Offices 12x12	4 Off
Meeting Rooms 12x12	2 Off
Igloos (incl 2xcontainers each)	3 Off
40ft Storage Containers	6 Off
Road Treatment - Spray Seal - Road and Carpark Area	13,000m²
Fuel Cells (10,000l)	2 Off
Vehicle Washdown	1 Off
Perimeter Fencing	1,240m
Secure Storage Fencing	300m



Tower Conductor Cable	323 Towers x 550m x 6C + 2OPGW = 1,421,200m
Conductor Drums (1000m)	1,421,200m/2500m = 569 Drums @ 75% Storage = 427 Drums (round 440)
Line Hardware and Pallet Laydown	430 Drum x 0.50 = 215 Areas (round 240)



20°41'7.18"S; 140°31'25.49"E





Tower Conductor Cable	208 Towers x 500m x 6C + 2OPGW = 832,000m
Conductor Drums (2500m)	832,000m/2500m = 333 Drums @ 75% Storage = 250 Drums (round 250)
Line Hardware and Pallet Laydown	250 Drum x 0.5 = 125 Areas (round 125)

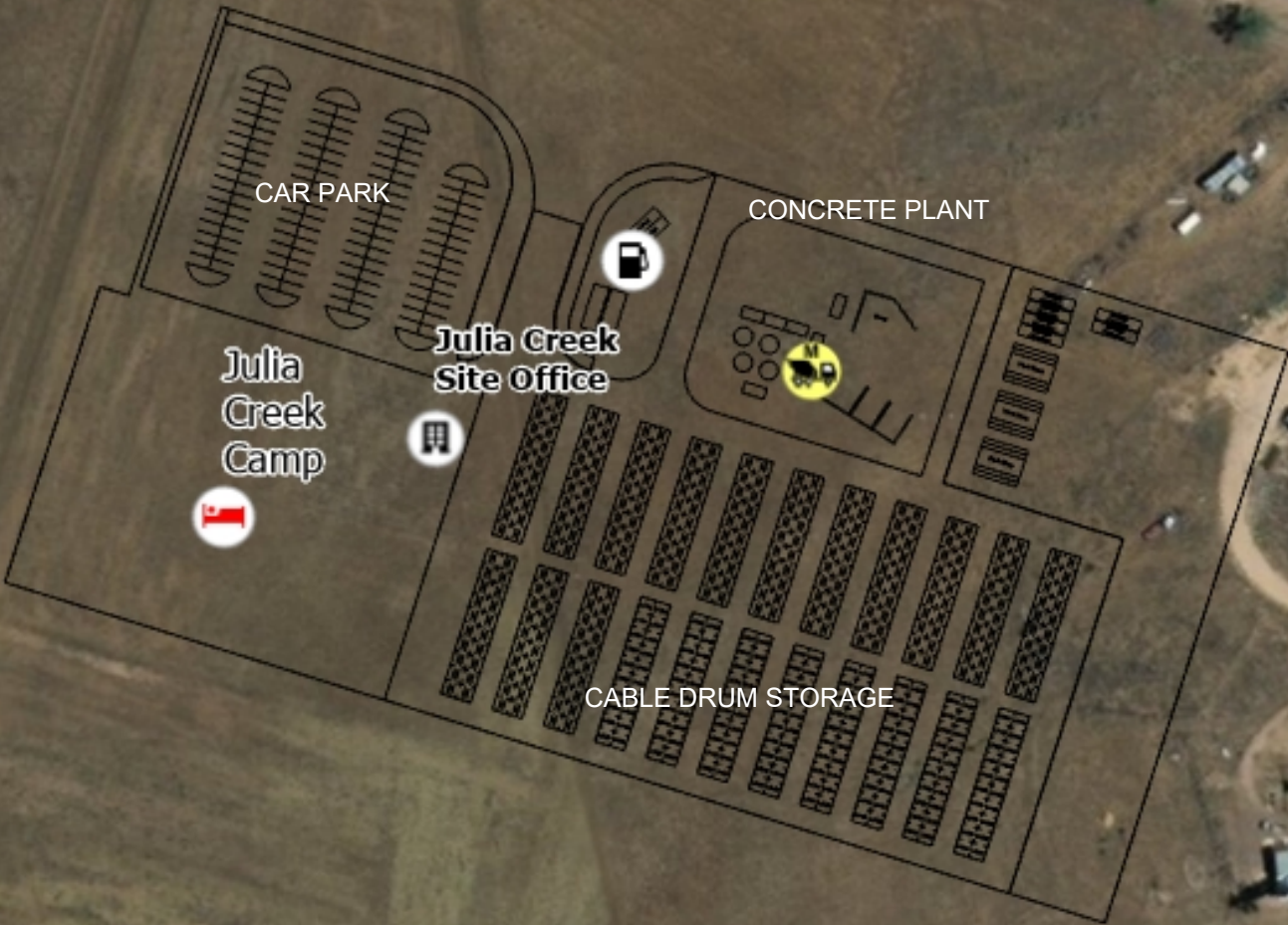
Total Clearance Area (Camp + Laydown)	35,000.00m²
Vegetation	Very Light (Grass)
Rooms	175
Offices 12x12	2 Off
Meeting Rooms 12x12	1 Off
Igloos (incl 2xcontainers each)	3 Off
40ft Storage Containers	6 Off
Road Treatment - Spray Seal - Road Area	6,050m²
Fuel Cells (10,000l)	2 Off
Vehicle Washdown	1 Off
Perimeter Fencing	Nil
Secure Storage Fencing	250m



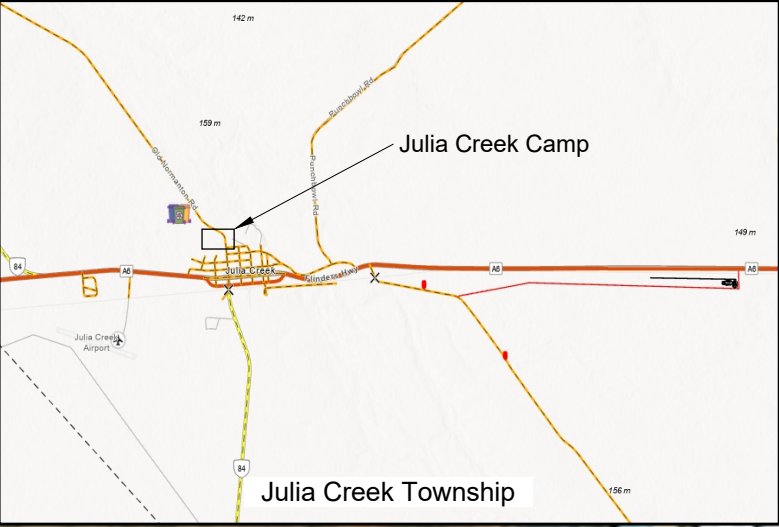


Tower Conductor Cable	228 Towers x 500m x 6C + 2OPGW = 912,000m
Conductor Drums (1000m)	1,421,200m/2500m = 365 Drums @ 75% Storage = 274 Drums (round 280)
Line Hardware and Pallet Laydown	274 Drum x 0.50 = 137 Areas (round 140)

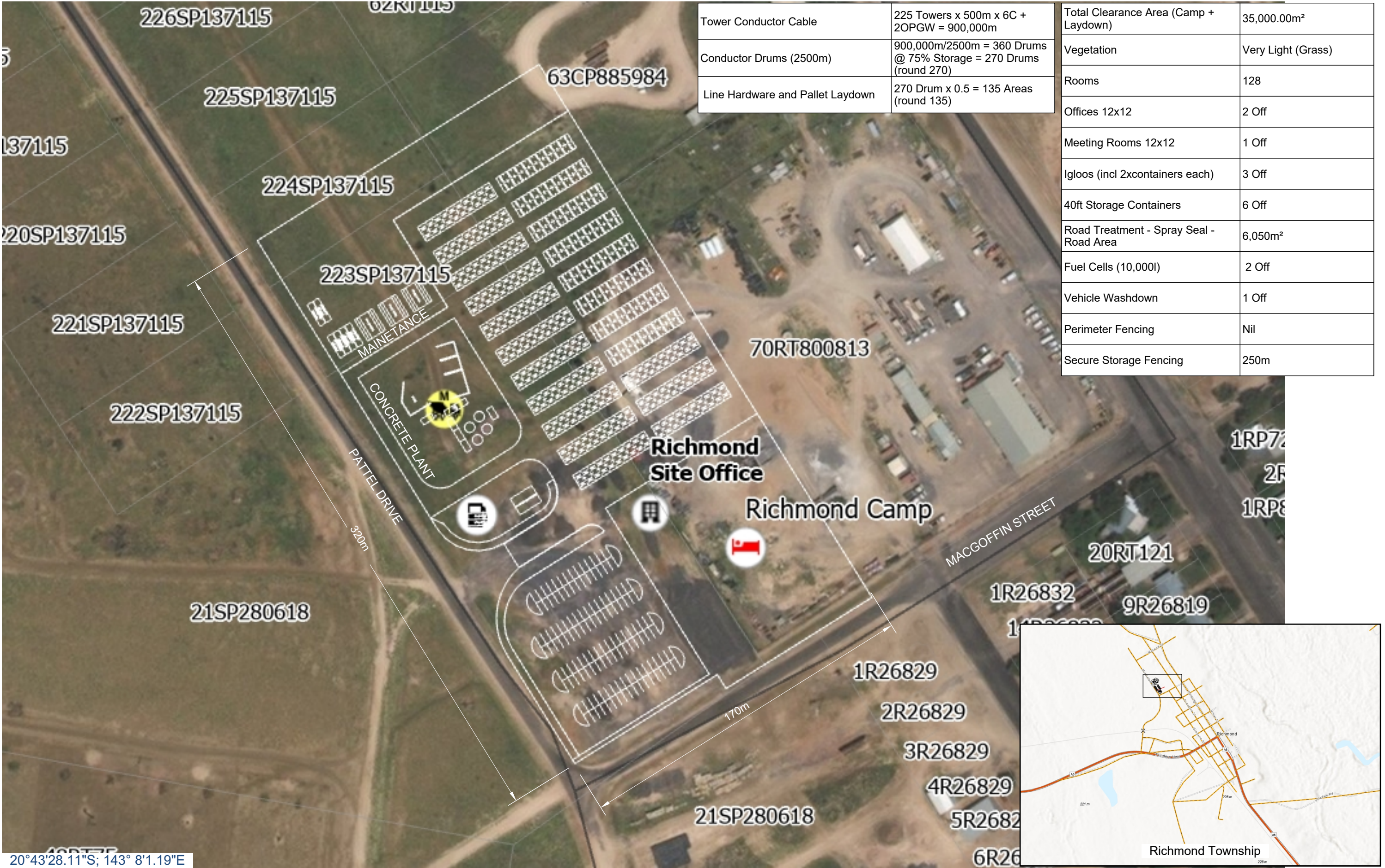
Total Clearance Area (Camp + Laydown)	60,000.00m²
Vegetation	Very Light (Grass Tufts)
Rooms	128
Offices 12x12	4 Off
Meeting Rooms 12x12	2 Off
Igloos (incl 2xcontainers each)	3 Off
40ft Storage Containers	6 Off
Road Treatment - Spray Seal - Road and Carpark Area	13,058.41m²
Fuel Cells (10,000l)	2 Off
Vehicle Washdown	1 Off
Perimeter Fencing	1,000m
Secure Storage Fencing	250m



20°39'26.04"S; 141°48'34.92"E

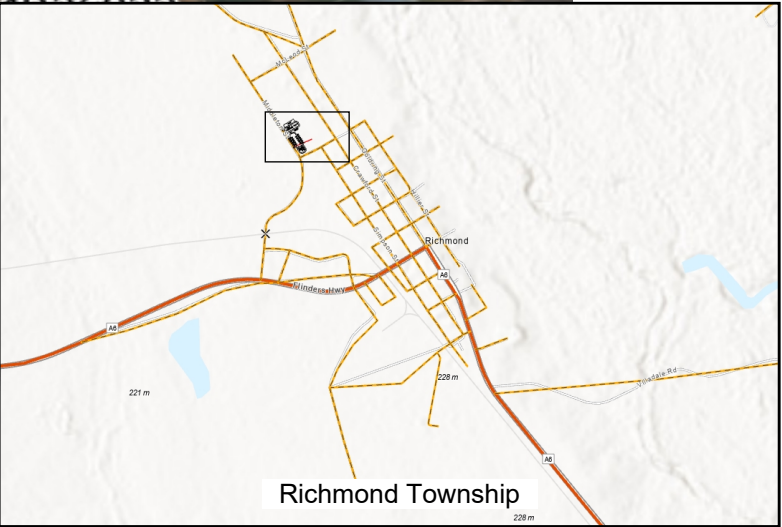






Tower Conductor Cable	225 Towers x 500m x 6C + 2OPGW = 900,000m
Conductor Drums (2500m)	900,000m/2500m = 360 Drums @ 75% Storage = 270 Drums (round 270)
Line Hardware and Pallet Laydown	270 Drum x 0.5 = 135 Areas (round 135)

Total Clearance Area (Camp + Laydown)	35,000.00m²
Vegetation	Very Light (Grass)
Rooms	128
Offices 12x12	2 Off
Meeting Rooms 12x12	1 Off
Igloos (incl 2xcontainers each)	3 Off
40ft Storage Containers	6 Off
Road Treatment - Spray Seal - Road Area	6,050m²
Fuel Cells (10,000l)	2 Off
Vehicle Washdown	1 Off
Perimeter Fencing	Nil
Secure Storage Fencing	250m











Tower Conductor Cable	201 Towers x 500m x 6C + 2OPGW = 804,000m
Conductor Drums (2500m)	804,000m/2500m = 322 Drums @ 75% Storage = 242 Drums (round 250)
Line Hardware and Pallet Laydown	242 Drum x 0.5 = 121 Areas (round 130)

Total Clearance Area (Camp + Laydown)	35,000.00m²
Vegetation	Very Light (Grass)
Rooms	128
Offices 12x12	2 Off
Meeting Rooms 12x12	1 Off
Igloos (incl 2xcontainers each)	3 Off
40ft Storage Containers	6 Off
Road Treatment - Spray Seal - Road Area	6,050m²
Fuel Cells (10,000l)	2 Off
Vehicle Washdown	1 Off
Perimeter Fencing	Nil
Secure Storage Fencing	250m

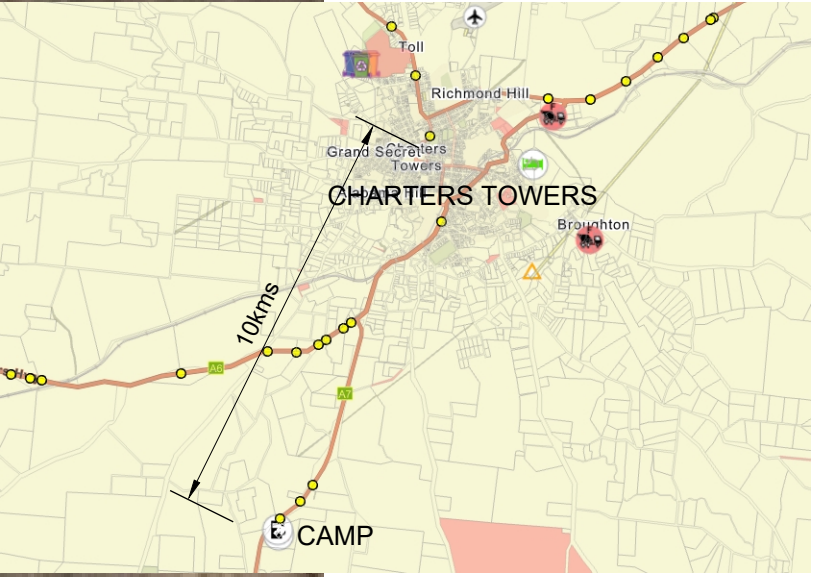
20°22'41.85"S; 145°37'39.33"E





Tower Conductor Cable	129 Towers x 500m x 6C + 2OPGW = 516,000m
Conductor Drums (2500m)	804,000m/2500m = 207 Drums @ 75% Storage = 156 Drums (round 160)
Line Hardware and Pallet Laydown	156 Drum x 0.5 = 78 Areas (round 80)

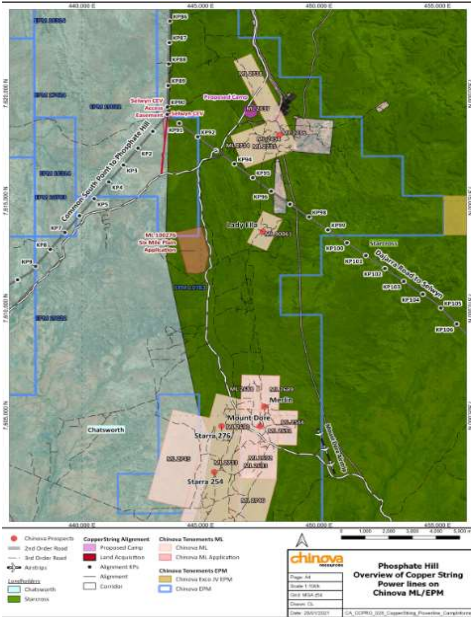
Total Clearance Area (Camp + Laydown)	35,000.00m²
Vegetation	Very Light (Grass)
Rooms	128
Offices 12x12	2 Off
Meeting Rooms 12x12	1 Off
Igloos (incl 2xcontainers each)	3 Off
40ft Storage Containers	6 Off
Road Treatment - Spray Seal - Road Area	6,050m²
Fuel Cells (10,000l)	2 Off
Vehicle Washdown	1 Off
Perimeter Fencing	Nil
Secure Storage Fencing	250m



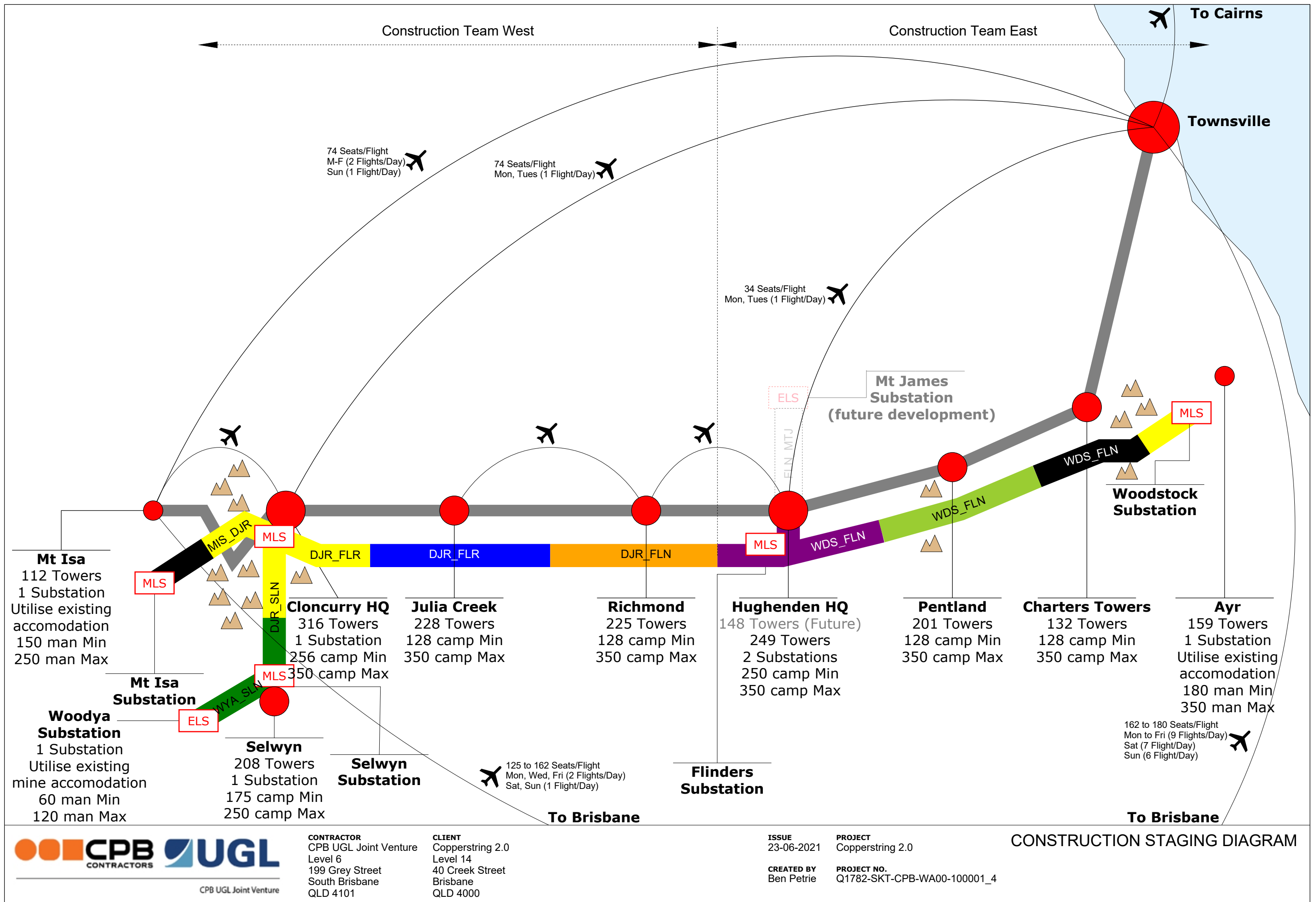
# Appendix B Table of Existing Accommodation



Location/ Area	Name of accommodation	Address	Telephone No.	Email	No. rooms available	Cost (per night from Inc GST)	Comments							
Mt Isa	Barkley Hotel	55 Barkly Highway, Mount Isa Qld, 4825	(07) 4744 7777		45	\$ 105.00	Private bathroom							
	Central Point Motel	6 Marian Street, Mount Isa Qld, 4825	(07) 4743 0666	<a href="mailto:centralpoint@bigpond.com">centralpoint@bigpond.com</a>	19	\$ 113.00	Studio standard, private bathroom							
	Sunset Top Torist Park	14 Sunset Drive, Mount Isa Qld, 4825	(07) 4743 7668	<a href="mailto:ask@sunsettop.com.au">ask@sunsettop.com.au</a>	36	\$ 118.00	Room with double bed, private bathroom							
	Inland Oasis Motel	195 Barkly Hwy,Soldiers Hill, Mount Isa, 4825	(07) 4743 3433	<a href="mailto:inlandoasismtisa@gmail.com">inlandoasismtisa@gmail.com</a>	55	\$ 99.00								
	Mount Isa Caravan Park	112 Marian Street, Mount Isa, 4825	(07) 4743 3252	<a href="mailto:booking@mtisacaravanpark.com.au">booking@mtisacaravanpark.com.au</a>	29	\$ 80.00	10-Studios, 12 Villas, 3 Units, 4 Cabins							
	Leichhardt Accommodation	3 Camooeweal Street, Mount Isa, 4825	(07) 4743 3323	<a href="mailto:admin@leichhardtdaccommodation.com">admin@leichhardtdaccommodation.com</a>	138	\$ 120.00								
	Isa Hotel	13 Miles Street, Mount Isa, 4825	(07) 4749 8888		40	\$ 136.00								
	Discovery Parks	Barkly Hwy, Mount Isa, 4825	(07) 4743 4733	<a href="mailto:argylla.managers@discoveryparks.com.au">argylla.managers@discoveryparks.com.au</a>	20	\$ 126.00	5 Cabins, 1 Delux Cabin, 8 Studios, 6 Economy Rooms							
Selwyn	Duchess Motel	1 Duke Street, Duchess Qld, 4825	(07) 4748 4833		24	\$ 160.00								
	Cloncurry Motel (Sister Motel is the Wagon)	41 Sheaffe Street, Cloncurry Qld, 4824	(07) 4742 1268	<a href="mailto:wagonwheelmotel1@gmail.com">wagonwheelmotel1@gmail.com</a>	15	\$ 140.00	Single rooms , Breakfast & Evening Meal							
	Wagon Motel	54 Ramsey Street, Cloncurry, Qld, 4824	(07) 4742 1866	<a href="mailto:wagonwheelmotel1@gmail.com">wagonwheelmotel1@gmail.com</a>	24	\$ 160.00	Single rooms , Breakfast & Evening Meal							
	Oasis Hotel Motel	Cnr.Ramsey Street & Scarr St, Cloncurry, Qld, 4824	(07) 4742 1366	<a href="mailto:bozie@westnet.com.au">bozie@westnet.com.au</a>	12	\$ 140.00	Standard room, bed, private bathroom							
	Red Rock Motel	56-58 Scarr Street, Cloncurry, Qld, 4824	(07) 4742 2728	<a href="mailto:redrockmotel@gmail.com">redrockmotel@gmail.com</a>	10	\$ 115.00	Standard room, bed, private bathroom							
		Phosphate Hill Mine Camp - Selwyn Mine Camp (Chinova Resources) (May be a potential option for accommodation)				520		Pre-constructed accommodation - Little info on Internet Unable to find contact details (Sent email/tried contacting Chinova about all three mine camps - waiting response.						
Cloncurry	Building a camp at this location													
Julia Creek	Building a camp at this location													
Richmond	Building a camp at this location													
Hughenden	Building a camp at this location													
Pentland	Pentland Hotel Motel	32 Main Street, Pentland Qld, 4816	(07) 4788 1106	<a href="mailto:reservations@pentlandhotel.com.au">reservations@pentlandhotel.com.au</a>	8	\$ 99.00	Standard single room, single bed, private bathroom							
	The Royal Hotel Hughenden	21 Moran Street, Hughended Qld, 4821	(07) 4741 1183	<a href="mailto:royal183@bigpond.net.au">royal183@bigpond.net.au</a>	45	\$ 115.00	Single room, private bathroom							
	Great Western Hotel Hughenden	14 Brodie Street, Hughenden Qld, 4821	(07) 4741 1454	<a href="mailto:great_western@live.com.au">great_western@live.com.au</a>	2	\$ 95.00	Rooms each with double bed							
Charters Towers	Building a camp at this location Kernow Charters Towers	23-33 Gladstone Road, charters Towers, Qld, 4820	0447 557 200	<a href="mailto:stay@kernowcharterstowers.com.au">stay@kernowcharterstowers.com.au</a>	27	\$ 145.00	Spoke to Les Bone (Director) he's currently looking at developing a 120+ Camp with potential to expand .							
Woodstock														
Ayr	Ayr Travellers Motel	233 Queen Street, Ayr Qld, 4807	(07) 4783 6666	<a href="mailto:info@ayrtravellersmotel.com.au">info@ayrtravellersmotel.com.au</a>		\$ 137.00	Room with double bed, bathroom, mini kitchen							
	Ayr Line Motel	129 Edwards Street, Ayr Qld, 4807	(07) 4783 1100	<a href="mailto:ayrlinemotel@bigpond.com">ayrlinemotel@bigpond.com</a>		\$ 110.00	Standard room, double bed, bathroom, mini kitchen							
	Tropical City Motor Inn	121/125 MacMillan Street, Ayr Qld, 4807	(07) 4783 1344	<a href="mailto:tropicalcity@bigpond.com">tropicalcity@bigpond.com</a>		\$ 91.00	Standard room, double bed, bathroom, mini kitchen							
	Plantation Park Motor Inn	274 Queen Street, Ayr Qld, 4807	(07) 4783 1498	<a href="mailto:bookings@ppmi.com.au">bookings@ppmi.com.au</a>	10	\$ 95.00	Standard room, double bed with bathroom							
	Country Ayr Motel	197/199 Queen Street, Ayr, Qld, 4807	(07) 4783 1700	<a href="mailto:countryayrmotel@bigpond.com">countryayrmotel@bigpond.com</a>	14	\$ 135.00	Standard room, double bed with bathroom							
	Yongala Dive Alva Beach	36 Braby Street, Ayr, Qld, 4807	(07) 4783 1519	<a href="mailto:info@yongaladive.com.au">info@yongaladive.com.au</a>	6	\$ 94.00	Budget Cabin (Shared Facilities)							
Claredale	Claredale Pastures (at Mio College QLD)	1450 Barratta Road, Clare Qld, 4809	(07) 4782 7111	<a href="mailto:office@mioag.com.au">office@mioag.com.au</a>	6	\$ 120.00	6 Queen villas, bathroom, no catering facilities, Communal kitchen							
Ravenswood	Ravenswood Mine Camp Nolans Village Carpenter Gold/ Catercare/ Morris Corp?	1 Townsville Street, Ravenswood Qld, 4816	(07) 4770 2094				Spoke to Morris Corp, Camp closed 2 years ago?							
South Townsville	The Robert Towns Motel	261 Stanley St, Townsville QLD 4810	(07) 4771 6900	<a href="mailto:info@roberttowns.com.au">info@roberttowns.com.au</a>		\$ 90.00	Queen Room							
	Madison Plaza Townsville	Cnr Flinders and Stanley Streets	(07) 4772 1888	<a href="mailto:info.plaza@madisonhotels.com.au">info.plaza@madisonhotels.com.au</a>		\$ 92.00	Business Queen Room							
	Summit Motel Townsville	6 Victoria St, Townsville QLD 4810	(07) 4721 2122	<a href="mailto:accom@summitmotel.com.au">accom@summitmotel.com.au</a>		\$ 100.00	Standard Room, 1 double bed & 1 queen bed							
	Accommodation on Denham	134 Denham Street, Townsville QLD 4810	(07) 4724 4200			\$ 101.00	Studio Room							
	Raintree Motel Townsville	12 Bowen Rd, Rosslea QLD 4812	(07) 4775 3066	<a href="mailto:enquiries@raintreemotel.com.au">enquiries@raintreemotel.com.au</a>		\$ 110.00	Single room, Queen Bed							
	Yongala Lodge by the Strand	11 Fryer St, North Ward QLD 4810	(07) 4772 4633	<a href="mailto:info@historicyongala.com.au">info@historicyongala.com.au</a>		\$ 110.00	Queen Room							
	Park Regis Anchorage	51 Palmer St, South Townsville QLD 4810	(07) 4722 6200	<a href="mailto:anchorage@parkregishotels.com">anchorage@parkregishotels.com</a>		\$ 116.00	Standard double or Twin room							
	Spanish Lace Motor Inn	106 Bowen Rd, Rosslea QLD 4810	(07) 4725 1510	<a href="mailto:bookings@spanishlacemotorinn.com.au">bookings@spanishlacemotorinn.com.au</a>		\$ 110.00	Queen Room							
	Colonial Rose Motel Townsville	23 Bowen Rd, Rosslea QLD 4812	(07) 4725 1422	<a href="mailto:admin@colonialrosemotel.com.au">admin@colonialrosemotel.com.au</a>		\$ 120.00	King Room							
	Billabong Lodge Motel	96 Bowen Rd, Rosslea, QLD 4812	(07) 4767 5238	<a href="mailto:admin@billabonglodge.com.au">admin@billabonglodge.com.au</a>		\$ 129.00	Queen Room							
	Rambutan Resort Townsville	113-119 Flinders St, Townsville QLD 4810	(07) 4771 6915	<a href="mailto:enquiries@rambutantownsville.com">enquiries@rambutantownsville.com</a>		\$ 129.00	Queen Room							
	Allure Hotel Apartments	68 McIlwraith St, South Townsville QLD 4810	(07) 4767 7997	<a href="mailto:reservations@allurehotel.com.au">reservations@allurehotel.com.au</a>		\$ 130.00	Studio Room							
	Direct Hotels - Kensington at Central	1-3 Kingsway Place, 4810 Townsville	(07) 4426 1701	<a href="mailto:kensington@directhotels.com.au">kensington@directhotels.com.au</a>		\$ 135.00	Standard Room							
	RENTAL OPTIONS													
Only 2 options - One with adress but not price & One with price but no address														
Ayr														
Ravenswood	No rental options													
Existing Camps	Ravenswood Mine Camp Phosphate Hill Mine Camp Selwyn Mine Camp Osborne Camp New Six Mile Plain Camp	Morris Corp Incitec Pivot Chinova Chinova Chinova	Camp Availability - Closed Camp Availability - Currently confirming availability and cost - 4yrly TA in early to mid 2022, would push back on any additionai camp population or works near the site until then. Camp Availability - Currently unused and in disrepair - medium term intention to demolish and construct new mien at Mt Dore - Mt Dore delayed until 2024 Camp Availability - 50km to Selwyn, road being sealed in 2021. Camp Availability - Footprint location below - application lodged.											



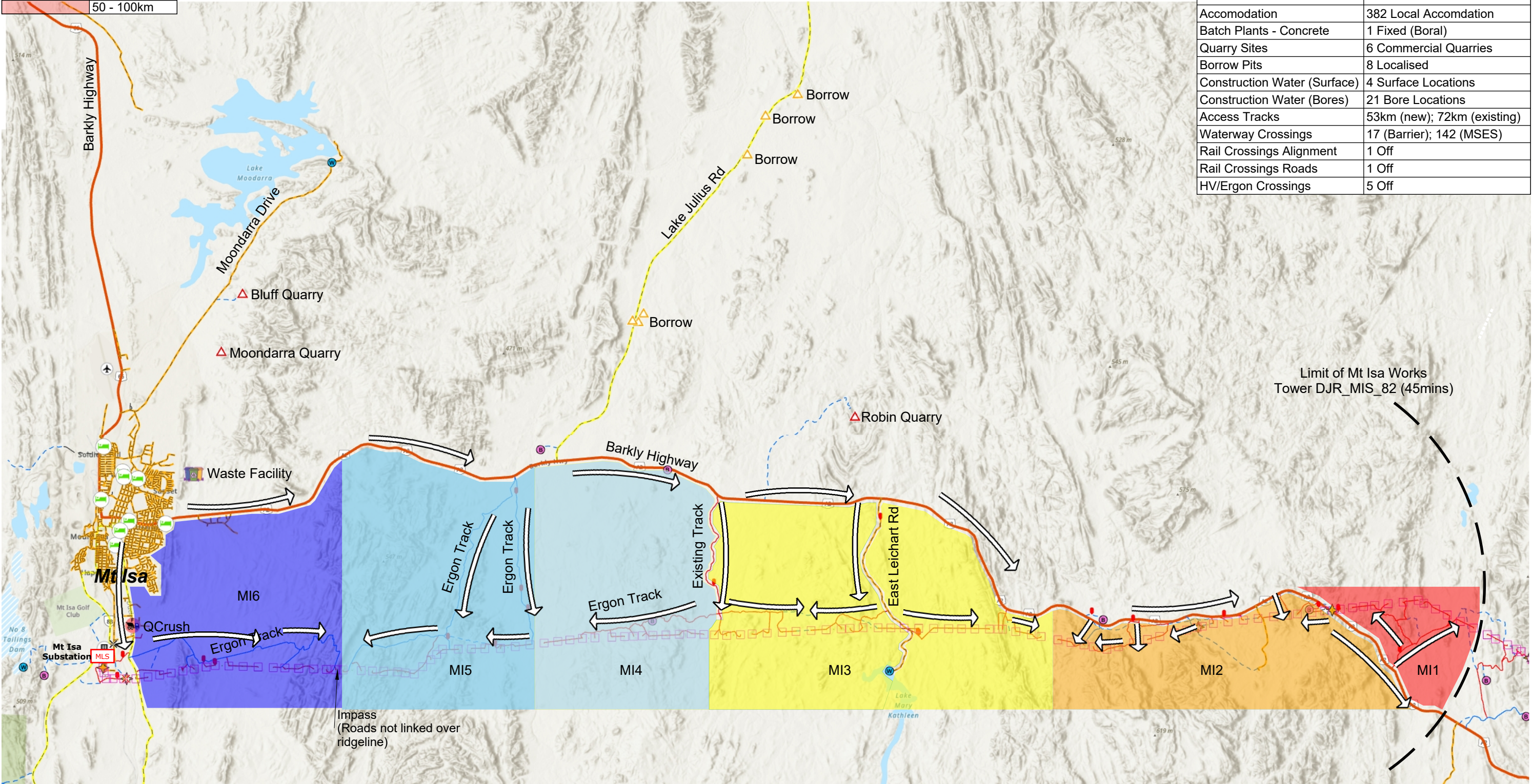
# Appendix C      Project Hubs





Distance to Concrete	
	0 - 10 Km
	10 - 20km
	20 - 30km
	30 - 40km
	40 - 50km
	50 - 100km

Towers	112 Towers
Substations	1 Substation
Flights	74 Seats/Flight M-F (2 Flights/Day) Sun (1 Flight/Day)
Accomodation	382 Local Accomdation
Batch Plants - Concrete	1 Fixed (Boral)
Quarry Sites	6 Commercial Quarries
Borrow Pits	8 Localised
Construction Water (Surface)	4 Surface Locations
Construction Water (Bores)	21 Bore Locations
Access Tracks	53km (new); 72km (existing)
Waterway Crossings	17 (Barrier); 142 (MSES)
Rail Crossings Alignment	1 Off
Rail Crossings Roads	1 Off
HV/Ergon Crossings	5 Off



17kms

8kms

6.5kms

7kms

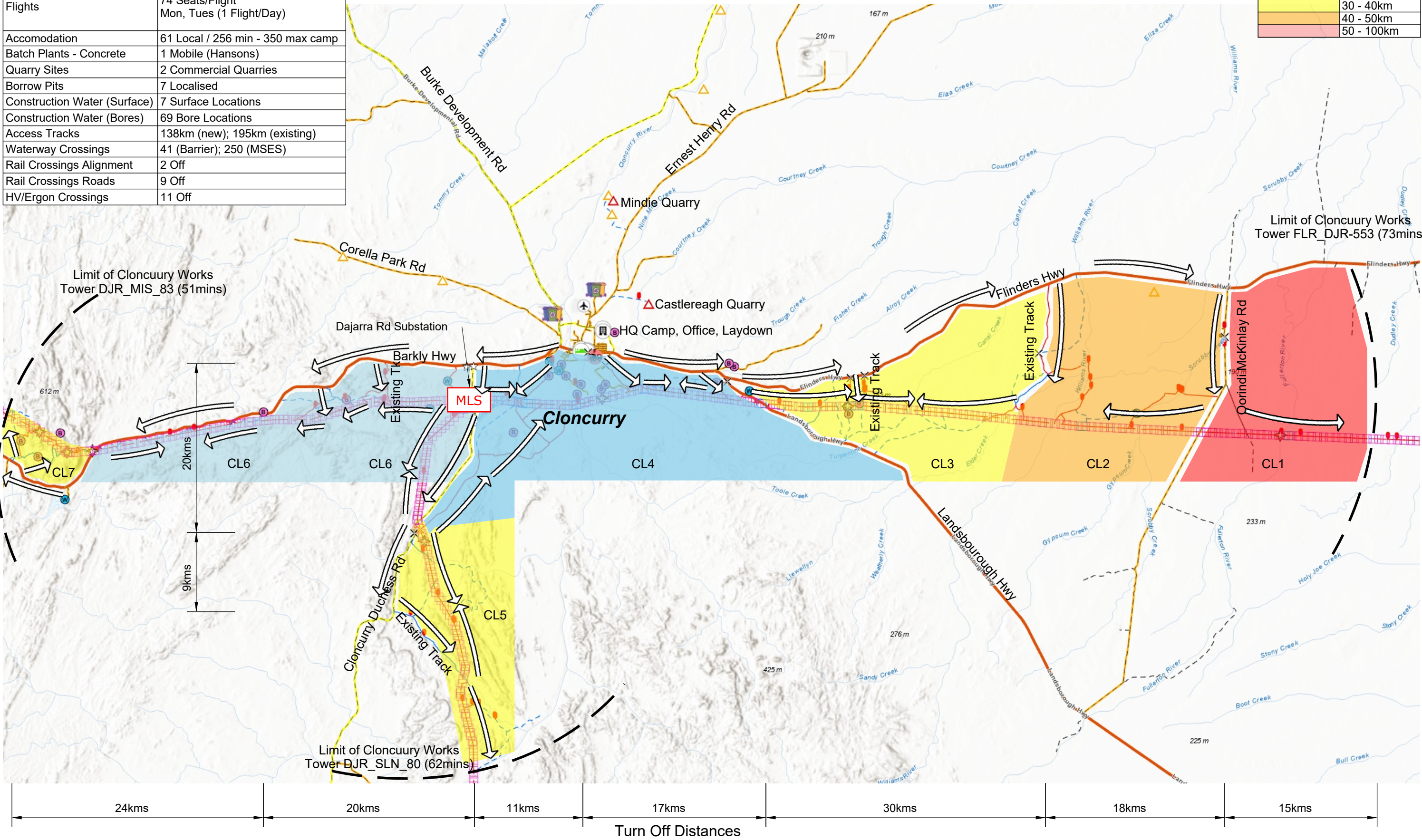
12kms

Turn Off Distances



Towers	316 Towers
Substations	1 Substation
Flights	74 Seats/Flight Mon, Tues (1 Flight/Day)
Accommodation	61 Local / 256 min - 350 max camp
Batch Plants - Concrete	1 Mobile (Hansons)
Quarry Sites	2 Commercial Quarries
Borrow Pits	7 Localised
Construction Water (Surface)	7 Surface Locations
Construction Water (Bores)	69 Bore Locations
Access Tracks	138km (new); 195km (existing)
Waterway Crossings	41 (Barrier); 250 (MSES)
Rail Crossings Alignment	2 Off
Rail Crossings Roads	9 Off
HV/Ergon Crossings	11 Off

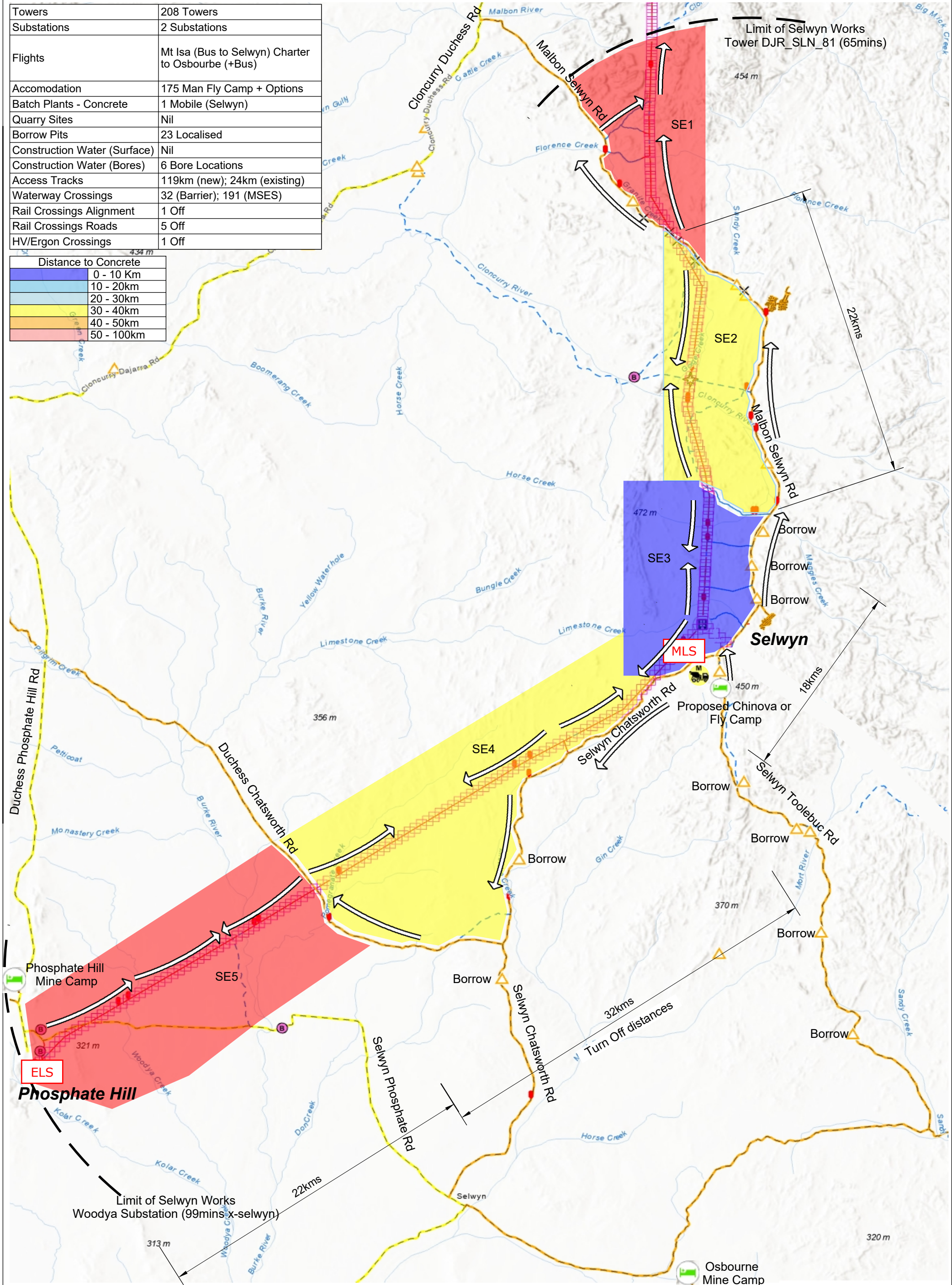
Distance to Concrete	
0 - 10 Km	
10 - 20km	
20 - 30km	
30 - 40km	
40 - 50km	
50 - 100km	





Towers	208 Towers
Substations	2 Substations
Flights	Mt Isa (Bus to Selwyn) Charter to Osbourne (+Bus)
Accommodation	175 Man Fly Camp + Options
Batch Plants - Concrete	1 Mobile (Selwyn)
Quarry Sites	Nil
Borrow Pits	23 Localised
Construction Water (Surface)	Nil
Construction Water (Bores)	6 Bore Locations
Access Tracks	119km (new); 24km (existing)
Waterway Crossings	32 (Barrier); 191 (MSES)
Rail Crossings Alignment	1 Off
Rail Crossings Roads	5 Off
HV/Ergon Crossings	1 Off

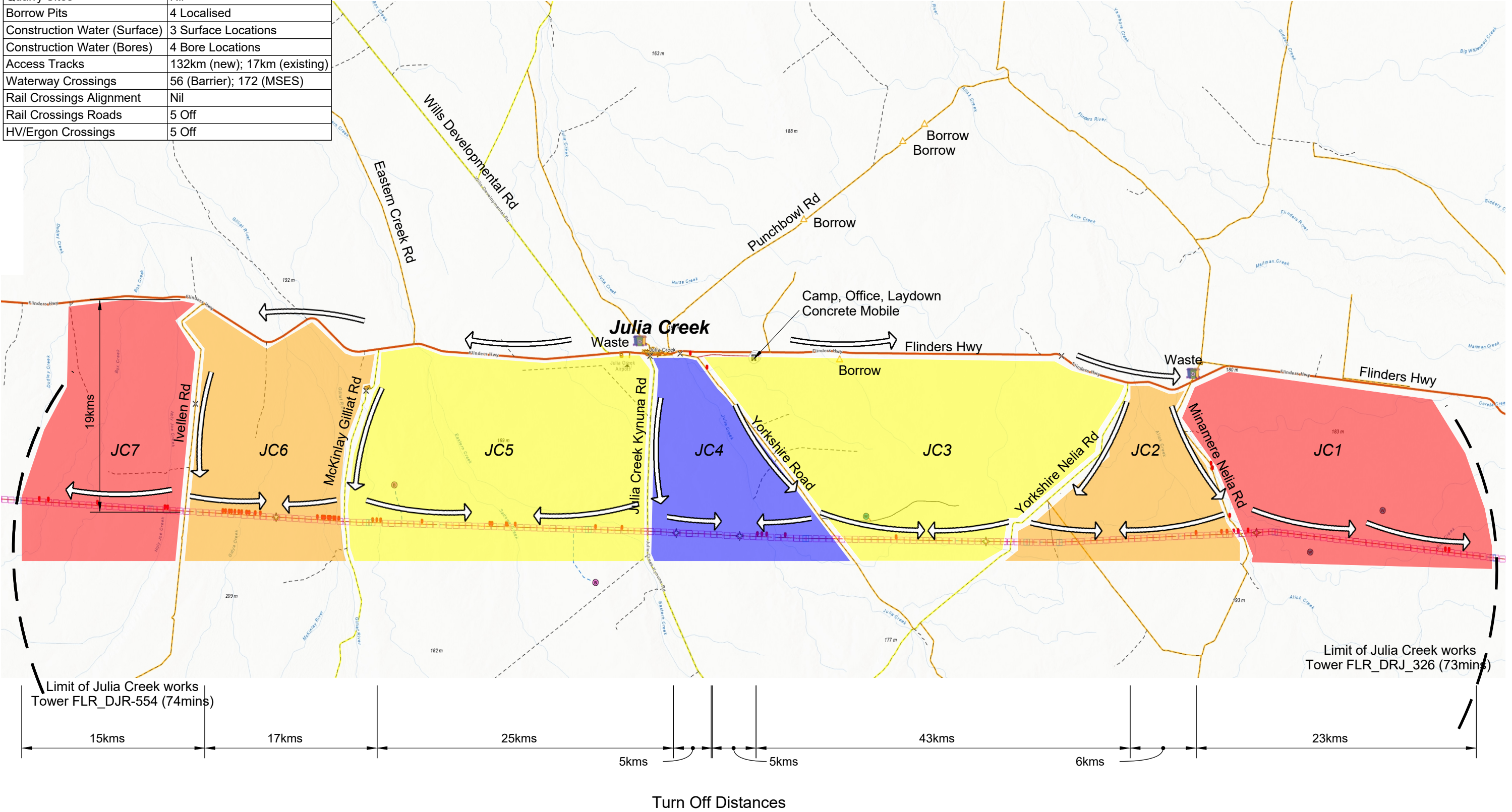
Distance to Concrete	
	0 - 10 Km
	10 - 20km
	20 - 30km
	30 - 40km
	40 - 50km
	50 - 100km





Towers	228 Towers
Substations	Nil
Flights	34 Seats/Flight (hopper) Mon, Tues (1 Flight/Day)
Accommodation	128 min / 350 max camp
Batch Plants - Concrete	1 Mobile
Quarry Sites	Nil
Borrow Pits	4 Localised
Construction Water (Surface)	3 Surface Locations
Construction Water (Bores)	4 Bore Locations
Access Tracks	132km (new); 17km (existing)
Waterway Crossings	56 (Barrier); 172 (MSES)
Rail Crossings Alignment	Nil
Rail Crossings Roads	5 Off
HV/Ergon Crossings	5 Off

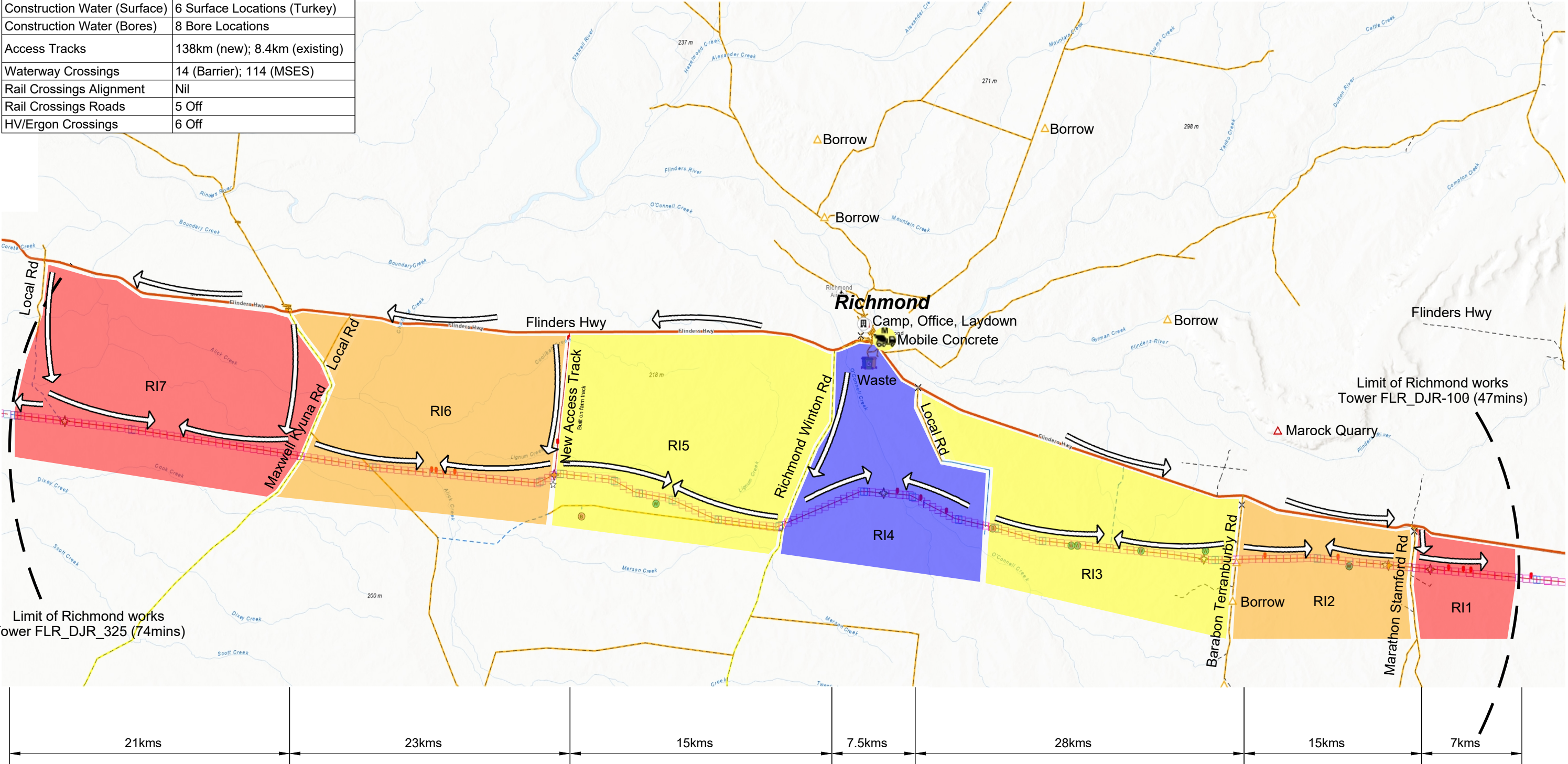
Distance to Concrete	
	0 - 10 Km
	10 - 20km
	20 - 30km
	30 - 40km
	40 - 50km
	50 - 100km





Towers	225 Towers
Substations	Nil
Flights	34 Seats/Flight (hopper) Mon, Tues (1 Flight/Day)
Accomodation	128 min / 350 max camp
Batch Plants - Concrete	1 Mobile
Quarry Sites	1 Commerical
Borrow Pits	9 Localised
Construction Water (Surface)	6 Surface Locations (Turkey)
Construction Water (Bores)	8 Bore Locations
Access Tracks	138km (new); 8.4km (existing)
Waterway Crossings	14 (Barrier); 114 (MSES)
Rail Crossings Alignment	Nil
Rail Crossings Roads	5 Off
HV/Ergon Crossings	6 Off

Distance to Concrete	
	0 - 10 Km
	10 - 20km
	20 - 30km
	30 - 40km
	40 - 50km
	50 - 100km



Turn Off Distances



CPB UGL Joint Venture

CONTRACTOR

CPB UGL Joint Venture  
Level 6  
199 Grey Street  
South Brisbane  
QLD 4101

CLIENT

Copperstring 2.0  
Level 14  
40 Creek Street  
Brisbane  
QLD 4000

ISSUE

23-06-2021

PROJECT

Copperstring 2.0

CREATED BY

Ben Petrie

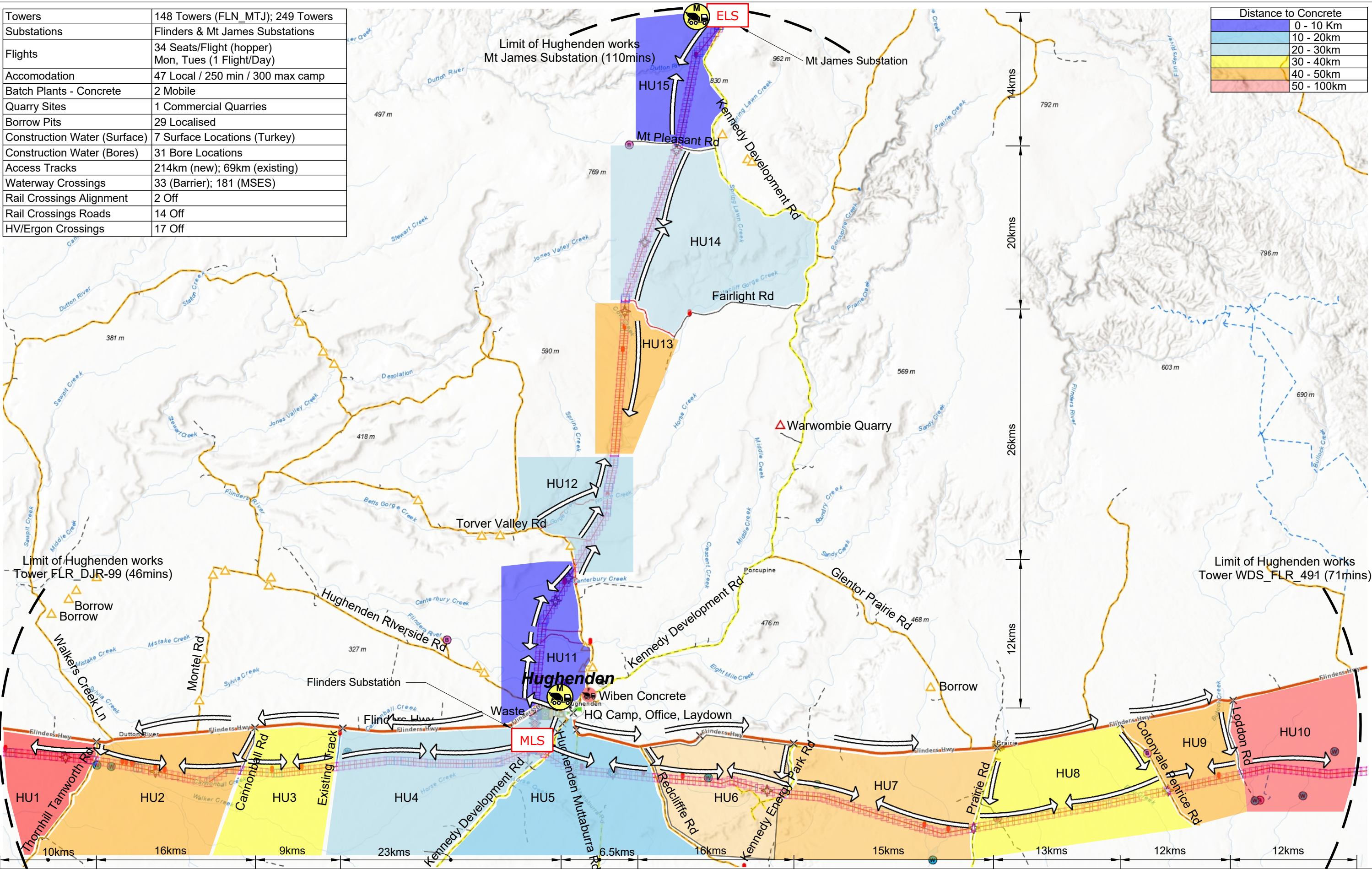
PROJECT NO.

Q1782-SKT-CPB-WA00-100006\_2

CONSTRUCTION STAGING DIAGRAM  
RICHMOND HUB



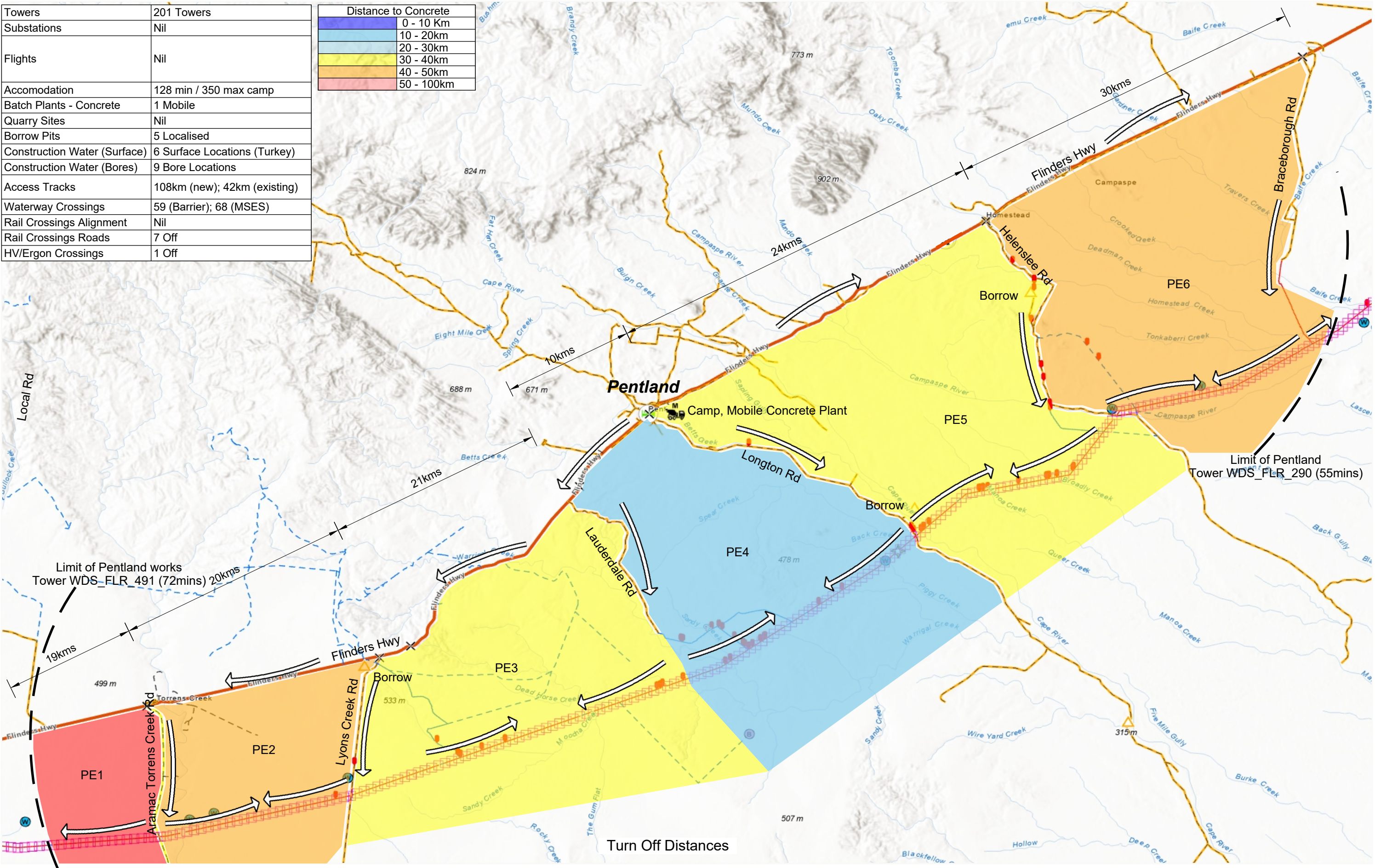
Towers	148 Towers (FLN_M TJ); 249 Towers
Substations	Flinders & Mt James Substations
Flights	34 Seats/Flight (hopper) Mon, Tues (1 Flight/Day)
Accommodation	47 Local / 250 min / 300 max camp
Batch Plants - Concrete	2 Mobile
Quarry Sites	1 Commercial Quarries
Borrow Pits	29 Localised
Construction Water (Surface)	7 Surface Locations (Turkey)
Construction Water (Bores)	31 Bore Locations
Access Tracks	214km (new); 69km (existing)
Waterway Crossings	33 (Barrier); 181 (MSES)
Rail Crossings Alignment	2 Off
Rail Crossings Roads	14 Off
HV/Ergon Crossings	17 Off





Towers	201 Towers
Substations	Nil
Flights	Nil
Accomodation	128 min / 350 max camp
Batch Plants - Concrete	1 Mobile
Quarry Sites	Nil
Borrow Pits	5 Localised
Construction Water (Surface)	6 Surface Locations (Turkey)
Construction Water (Bores)	9 Bore Locations
Access Tracks	108km (new); 42km (existing)
Waterway Crossings	59 (Barrier); 68 (MSES)
Rail Crossings Alignment	Nil
Rail Crossings Roads	7 Off
HV/Ergon Crossings	1 Off

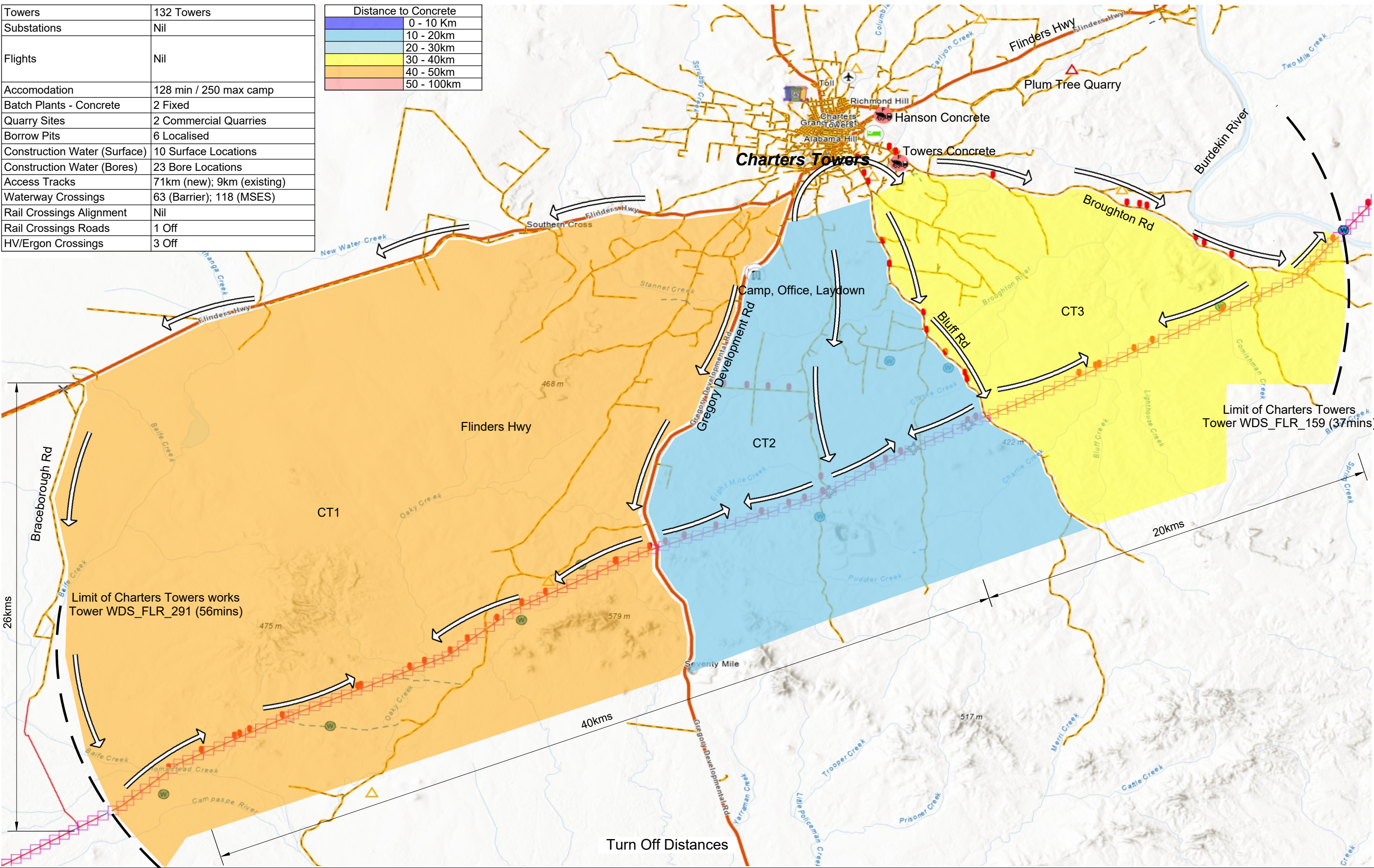
Distance to Concrete	
0 - 10 Km	
10 - 20km	
20 - 30km	
30 - 40km	
40 - 50km	
50 - 100km	





Towers	132 Towers
Substations	Nil
Flights	Nil
Accomodation	128 min / 250 max camp
Batch Plants - Concrete	2 Fixed
Quarry Sites	2 Commercial Quarries
Borrow Pits	6 Localised
Construction Water (Surface)	10 Surface Locations
Construction Water (Bores)	23 Bore Locations
Access Tracks	71km (new); 9km (existing)
Waterway Crossings	63 (Barrier); 118 (MSES)
Rail Crossings Alignment	Nil
Rail Crossings Roads	1 Off
HV/Ergon Crossings	3 Off

Distance to Concrete	
	0 - 10 Km
	10 - 20km
	20 - 30km
	30 - 40km
	40 - 50km
	50 - 100km







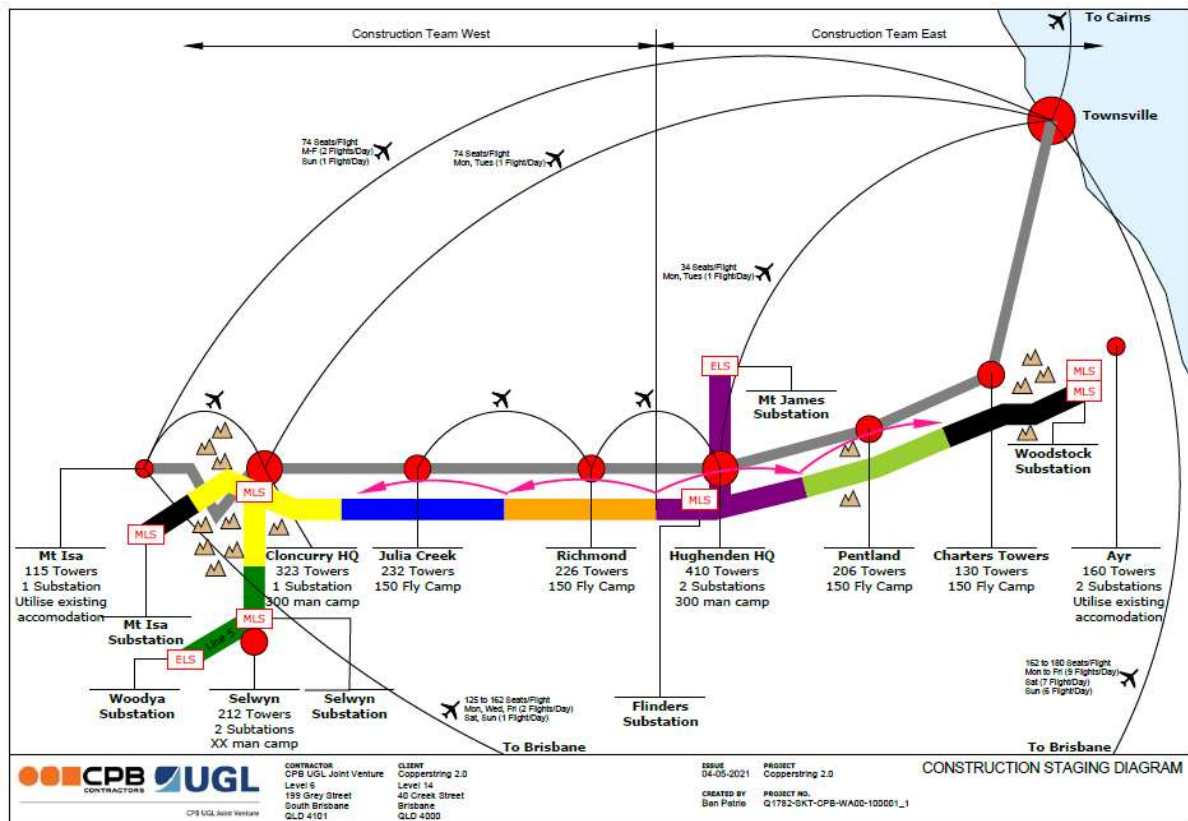


# Appendix D      Travel to Camp Analysis



## Transport to Camps – Flights and Bussing

The following summary details the current assumptions on travel to site for each crew and each camp location for both CPB and UGL white- and blue-collar personnel.



### 1. Hub One – Woodstock Substation and Transmission Line

- Accommodation** – All crews based within existing accommodation located in Ayr, Ravenswood and Southern Townsville within an average driving distance of 27 mins.
- Transport** –
  - Civil Crews** – ex Brisbane
    - Flights Brisbane to Townsville
    - Bus Townsville to Accommodation
  - Tower Erection Crew** –
    - 30% ex Brisbane – flights Brisbane to Townsville
    - 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
    - 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
    - Bus Townsville to accommodation for all crews
  - Tower Stringing Crew** –
    - 30% ex Brisbane – flights Brisbane to Townsville
    - 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
    - 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
    - Bus Townsville to accommodation for all crews
  - Substations** –
    - 30% ex Brisbane – flights Brisbane to Townsville



2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
4. Bus Townsville to accommodation for all crews

## **2. Hub Two – Charters Towers – Transmission Line Works**

- a. **Accommodation** – All crews based within fly camp located in Charters Towers within an average driving distance of 48 mins.

### **b. Transport –**

- i. Civil Crews – ex Brisbane
  1. Flights Brisbane to Townsville
  2. Bus Townsville to Charters Towers Camp
- ii. Tower Erection Crew –
  1. 30% ex Brisbane – flights Brisbane to Townsville
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
  4. Bus Townsville to Charters Towers Camp
- iii. Tower Stringing Crew -
  1. 30% ex Brisbane – flights Brisbane to Townsville
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
  4. Bus Townsville to Charters Towers Camp
- iv. Substations –
  1. 30% ex Brisbane – flights Brisbane to Townsville
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
  4. Bus Townsville to Charters Towers Camp

## **3. Hub Three – Pentland – Transmission Line Works**

- a. **Accommodation** – All crews based within fly camp located in Pentland within an average driving distance of 35 mins.

### **b. Transport –**

- i. Civil Crews – ex Brisbane
  1. Flights Brisbane to Townsville
  2. Bus Townsville to Pentland Camp (2.5hrs avg)
- ii. Tower Erection Crew –
  1. 30% ex Brisbane – flights Brisbane to Townsville
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
  4. Bus Townsville to Pentland Camp (2.5hrs avg)
- iii. Tower Stringing Crew -
  1. 30% ex Brisbane – flights Brisbane to Townsville
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville



3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
4. Bus Townsville to Pentland Camp (2.5hrs avg)
- iv. Substations –
  1. 30% ex Brisbane – flights Brisbane to Townsville
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville
  4. Bus Townsville to Pentland Camp (2.5hrs avg)

#### **4. Hub Four – Hughenden – Substation and Transmission Line Works**

- a. **Accommodation** – All crews based within main camp located in Hughenden within an average driving distance of 42 mins. Maximum driving distance of 1 hr 18 mins to Mount James Substation)

##### **b. Transport –**

- i. Civil Crews – ex Brisbane
  1. Flight Brisbane to Townsville
  2. Flight Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  3. Bus Hughenden Airport to Hughenden Camp (15 mins)
- ii. Tower Erection Crew –
  1. 30% ex Brisbane – flights Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  4. Bus Townsville to Pentland Camp (2.5hrs avg)
- iii. Tower Stringing Crew -
  1. 30% ex Brisbane – flights Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  4. Bus Townsville to Pentland Camp (2.5hrs avg)
- iv. Substations –
  1. 30% ex Brisbane – flights Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Townsville, Townsville to Hughenden or Bus Townsville to Hughenden (3hrs 40mins)



4. Bus Townsville to Pentland Camp (2.5hrs avg)

#### 5. **Hub Five – Richmond – Transmission Line Works**

- a. **Accommodation** – All crews based within fly camp located in Richmond within an average driving distance of 41 mins.
- b. **Transport** –
  - i. Civil Crews – ex Brisbane
    1. Flight Brisbane to Cloncurry
    2. Bus Cloncurry to Richmond Camp (2hr 55 mins)
  - ii. Tower Erection Crew –
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Richmond Camp (2hrs 55 mins)
  - iii. Tower Stringing Crew -
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Richmond Camp (2hrs 55 mins)
  - iv. Substations –
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Richmond Camp (2hrs 55 mins)

#### 6. **Hub Six – Julia Creek – Transmission Line Works**

- a. **Accommodation** – All crews based within fly camp located in Julia Creek within an average driving distance of 42 mins.
- b. **Transport** –
  - i. Civil Crews – ex Brisbane
    1. Flight Brisbane to Cloncurry
    2. Bus Cloncurry to Julia Creek Camp (1hr 25 mins)
  - ii. Tower Erection Crew –
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Julia Creek Camp (1hrs 25 mins)
  - iii. Tower Stringing Crew -
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Julia Creek Camp (1hrs 25 mins)

iv. Substations –

1. 30% ex Brisbane – flights Brisbane to Cloncurry
2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
4. Bus Cloncurry to Julia Creek Camp (1hrs 25 mins)

**7. Hub Seven – Cloncurry – Substation and Transmission Line Works**

- a. **Accommodation** – All crews based within main camp located in Cloncurry within an average driving distance of 34 mins, max driving distance South of 56 mins.

**b. Transport –**

i. Civil Crews – ex Brisbane

1. Flight Brisbane to Cloncurry
2. Bus Cloncurry to Camp (15 mins)

ii. Tower Erection Crew –

1. 30% ex Brisbane – flights Brisbane to Cloncurry
2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
4. Bus Cloncurry to Camp (15 mins)

iii. Tower Stringing Crew -

1. 30% ex Brisbane – flights Brisbane to Cloncurry
2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
4. Bus Cloncurry to Camp (15 mins)

iv. Substations –

1. 30% ex Brisbane – flights Brisbane to Cloncurry
2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
4. Bus Cloncurry to Camp (15 mins)

**8. Hub Eight – Mt Isa – Substation and Transmission Line Works**

- a. **Accommodation** – All crews based within local accommodation in Mt Isa with an average driving distance of 32 mins.

**b. Transport –**

i. Civil Crews – ex Brisbane

1. Flight Brisbane to Mt Isa
2. Bus Mt Isa to Camp (15 mins)

ii. Tower Erection Crew –

1. 30% ex Brisbane – flights Brisbane to Mt Isa
2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Mt Isa
3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Mt Isa
4. Bus Mt Isa to Camp (15 mins)

iii. Tower Stringing Crew -

1. 30% ex Brisbane – flights Brisbane to Mt Isa
2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Mt Isa



3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Mt Isa
  4. Bus Mt Isa to Camp (15 mins)
- iv. Substations –
1. 30% ex Brisbane – flights Brisbane to Mt Isa
  2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Mt Isa
  3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Mt Isa
  4. Bus Mt Isa to Camp (15 mins)

**9. Hub Nine – Selwyn – Substation and Transmission Line Works**

- a. **Accommodation** – All crews based within main camp at Selwyn with an average driving distance of 38 mins.
- b. **Transport** –
- i. Civil Crews – ex Brisbane
    1. Flight Brisbane to Cloncurry
    2. Bus Cloncurry to Selwyn (2hrs 20 mins)
  - ii. Tower Erection Crew –
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Selwyn (2hrs 20 mins)
  - iii. Tower Stringing Crew -
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Selwyn (2hrs 20 mins)
  - iv. Substations –
    1. 30% ex Brisbane – flights Brisbane to Cloncurry
    2. 30% ex Adelaide – flights Adelaide to Brisbane, Brisbane to Cloncurry
    3. 40% ex Sydney – flights Sydney to Brisbane, Brisbane to Cloncurry
    4. Bus Cloncurry to Selwyn (2hrs 20 mins)