



# CONSTRUCTION WORKER TRANSPORTATION STRATEGY

FOR

<b>Project No</b>	366
<b>Project Name</b>	Loreto Normanhurst – Carparks & PUDO Project

## Document History

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Loreto Normanhurst – Carpark & PUDO CWTS	Final	16.11.2021	AK



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# Table of Contents

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- 1.1 – INTRODUCTION..... 4
- 1.1.2 – PROJECT BACKGROUND..... 4
- 1.1.3 – STRATEGIES ..... 4
- 1.2 – TRAIN SERVICES ..... 5
- 1.3 – BUS SERVICES..... 6
- 1.4 – BIKING / WALKING ..... 7
- 1.5 – PARKING ARRANGEMENTS..... 8
- 1.6 – DELIVERY ARRANGEMENT ..... 9
- 1.7 – COMMUNICATIONS PROTOCOL..... 10
- 1.8 – SUMMARY..... 10
- APPENDIX A – LORETO CONSTRUCTION PROGRAM..... 11

## **1.1 – INTRODUCTION**

This Construction Worker Transportation Strategy (CWTS) has been prepared by COWYN Building Group to address requirements of Condition C33 of SSD 8996 dated 21 October 2021 for Substage No's 1, 2 & 3.

The CWTS sets out proposed travel arrangements for construction workers to minimise the demand for parking in nearby public and residential streets during construction.

### **1.1.2 – PROJECT BACKGROUND**

The site is Loreto Normanhurst, an independent Catholic day school for girls from year 5-12 mainly from the Sydney and Country NSW region. Located in Sydney's Upper North Shore in Normanhurst, the school occupies an area of over 25 hectares and has extensive frontages to Mount Pleasant Avenue and Osborn Road. A small portion of the site extends across Pennant Hills Road,. The surrounding areas of the school include mainly residential premises and several public schools including Normanhurst Public School and Normanhurst Boys Public School. Northconnex runs directly underneath the school adjacent to Pennant Hills Road, as visible in purple in figure 1.



*Figure 1 - General Site Overview*

### **1.1.3 – STRATEGIES**

To minimise the demand for parking in nearby public and residential streets by construction workers, four key strategies will be implemented for the duration of the project. Strategies will be listed and explained below.

The strategies will be included in each workers induction process through SignOnSite, to ensure all workers are aware of the transport requirements and restrictions prior to attending site. All workers will be encouraged to utilise public transport once they have delivered their plant, equipment and associated materials to site.

COWYN intend to complete all excavation works throughout the Christmas period. This will ensure that noise and dirt pollution from heavy machinery and trucks entering site do not impact on staff, students and parents accessing the school through Term 1 2022. Please refer to Appendix A for more information.

## 1.2 – TRAIN SERVICES

The construction site at Loreto Normanhurst will be serviced by Normanhurst Station, which is located 15 minutes away on foot. (~950m) Normanhurst station provides frequent, high-capacity rail services on the T9 Northern Line. Trains are available every 15 minutes to and from Normanhurst, with express trains from Strathfield or Central available during peak times. The train line and walking track from the station are available below in figures 2 and 3.



Figure 2 - Available Train Lines

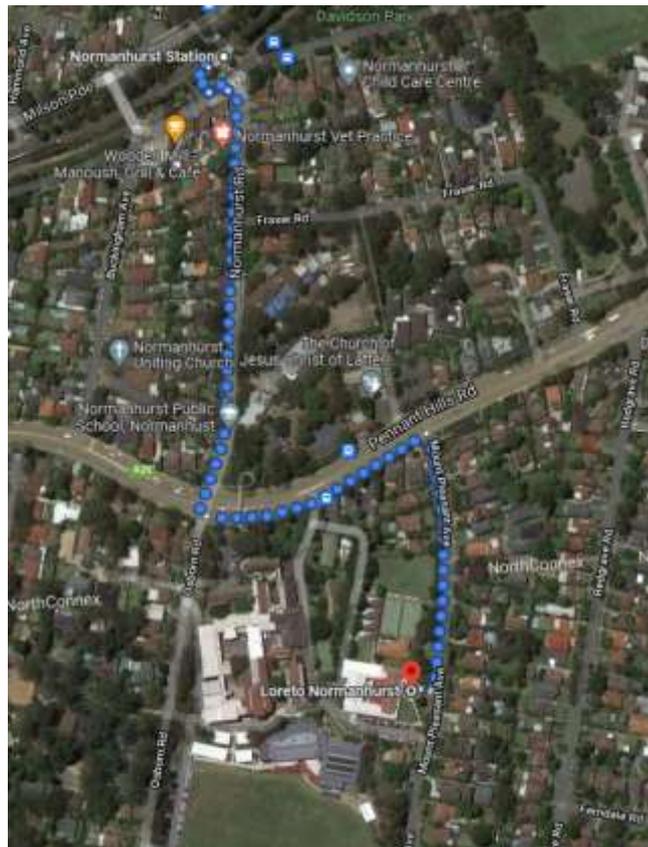


Figure 3 - Walking Route to Site

### 1.3 – BUS SERVICES

The closest bus stop to site is Pennant Hills Road opposite Normanhurst Public School (ID 207667 / 207619) which is located directly outside the job site. The bus routes connecting to this stop are the 589 and 600 routes. The 600 route would be ideal for site access due to its proximity to site, easy accessibility from Parramatta train station or other interconnecting bus routes pending location from subcontractor. Combined with the express trains listed above from either Strathfield or Central these options cover subcontractors coming from a multitude of areas of the Sydney region. The 600 route and timetable are listed below in figures 4 and 5.

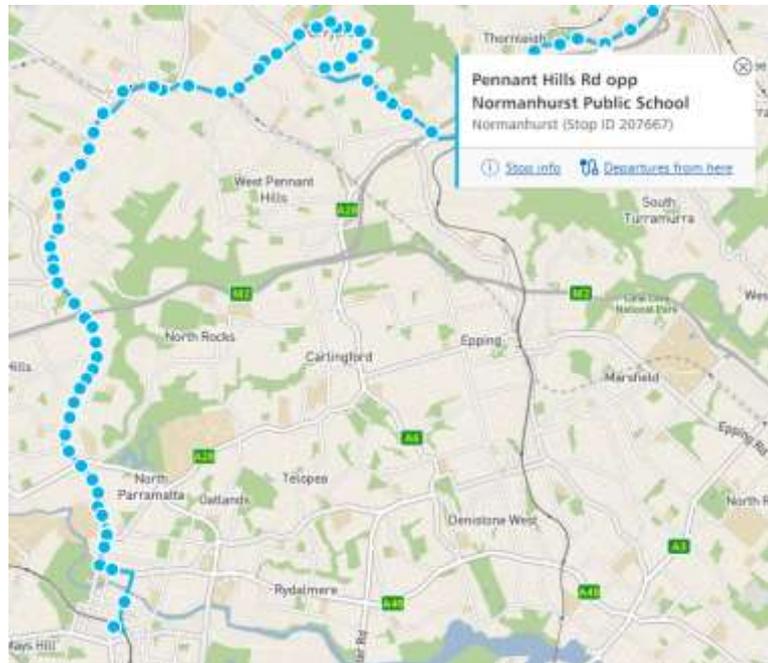
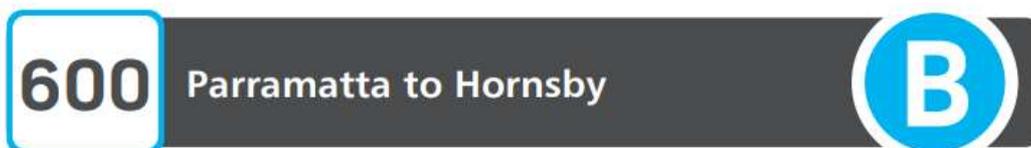


Figure 4 - Bus Route '600'



Valid from: 18 Oct 2021	Creation date: 16 Nov 2021 NOTE: Information is correct on date of download.									
<b>Monday to Friday</b>	♿	♿	♿	♿	♿	♿	♿	♿	♿	♿
Parramatta Station	05:30	-	06:00	-	06:20	06:30	06:40	06:50	-	
Parramatta Leagues Club, O'Connell St, Parramatta	05:36	-	06:07	-	06:27	06:37	06:47	06:58	-	
Windsor Rd after Churchill Dr, Winston Hills	05:41	-	06:14	-	06:35	06:45	06:55	07:07	-	
Old Northern Rd after Windsor Rd, Baulkham Hills	05:47	-	06:20	-	06:41	06:51	07:01	07:14	-	
Old Northern Rd after Excelsior Ave, Castle Hill	05:50	-	06:24	-	06:45	06:55	07:06	07:19	-	
Castle Hill Station	05:55	06:15	06:30	06:41	06:51	07:01	07:13	07:26	07:32	
Cherrybrook Shops, Shepherds Dr, Cherrybrook	06:04	06:24	06:40	06:51	07:01	07:12	07:24	07:38	07:44	
Pennant Hills Station	06:16	06:37	06:53	07:05	07:19	07:32	07:45	08:00	08:05	
Pennant Hills Rd at Railway Pde, Thornleigh	06:19	06:40	06:56	07:08	07:22	07:36	07:49	08:04	-	
Hornsby Station	06:32	06:54	07:11	07:24	07:39	07:54	08:07	08:22	-	

Figure 5 - 600 Bus Timetable

For more information concerning all bus and train service frequencies, visit the Transport NSW website at <https://transportnsw.info/>. Some changes and restrictions to the timetable are still being made in response to the Covid-19 pandemic.

## 1.4 – BIKING / WALKING

All workers who reside in surrounding suburbs will be encouraged to access site by either walking to/from site or to bike – if they own a bike and are comfortable enough to do so. As per the Hornsby Shire cycling map, there is a moderate difficulty bike track available running alongside Pennant Hills Road as seen in figure 6.

Subcontractors using a bicycle should ensure their bikes have an effective brake and a bell, horn or similar warning device. All bicycle riders have the same rights and responsibilities as drivers and motorcycle riders. These include:

- Wearing an approved helmet correctly
- Obeying all road rules
- Not using the footpath as a riding lane
- Using hand signals when turning or stopping



Figure 6 - Excerpt from 'Hornsby Shire Cycling Map 2008'

## **1.5 – PARKING ARRANGEMENTS**

All workers will be prohibited from parking their vehicles within the below highlighted roads to minimise the impacts on school drop off / pick up and street parking and surrounding residential area as per figure 7 highlighted in yellow.

Subcontractors will be encouraged to carpool in compliance with ongoing Covid-19 restrictions to reduce the number of vehicles heading towards the job vicinity each day. All-day street parking is available opposite the other side of Pennant Hills Road for workers who can only access the site through a personal vehicle.



*Figure 7 - Out of bounds parking for subcontractors*

## **1.6 – DELIVERY ARRANGEMENT**

All material handling and deliveries are to be coordinated outside the following times with respect to school zones;

- 8:00am - 9:30am
- 2:30pm – 4:00pm

Initial deliveries and drop-offs by workers will be via the Osborn Road and 3A carparks. The Throughlink works have been prioritised in the construction program as it will serve as the main roadway for material handling once it is complete and fit for purpose.



*Figure 8 - Osborn Road Entrance*



*Figure 9 - Carpark 3A Entrance*

## **1.7 – COMMUNICATIONS PROTOCOL**

All workers engaged by COWYN Building Group will be required to undergo a site induction in accordance with WHS Act 2011. As part of this site induction, staff will be provided on information contained within this report as to how to travel to/from site, including;

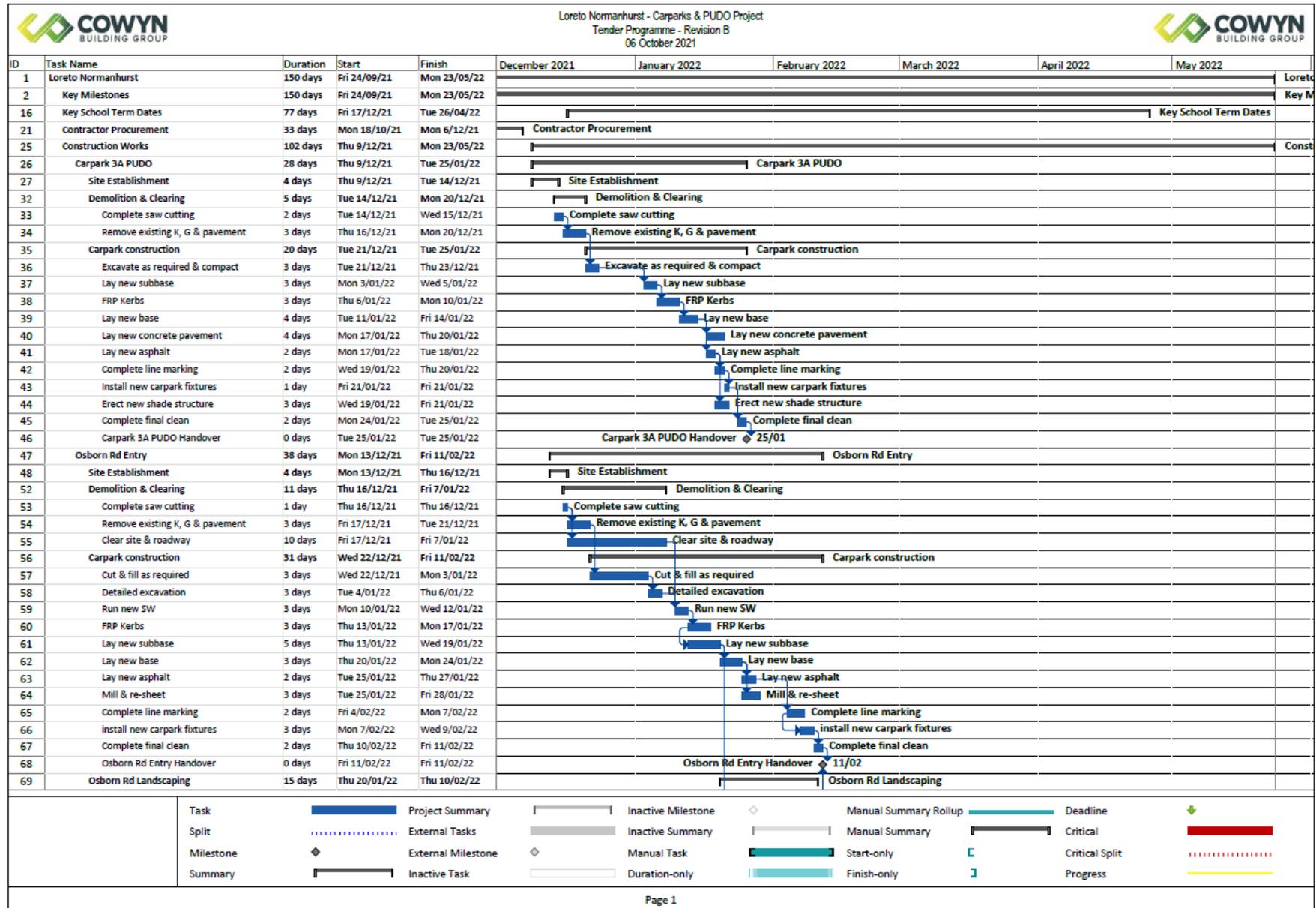
- i) Promoting the use of public transport options including the relevant train and bus line details, and potential benefits of public transport over car usage;
- ii) Where to park for those that elect to drive to site, including strict guidance that no staff should be parking in nearby residential streets allocated for kiss and ride / pick up areas
- iii) Notifying workers in relation to protocol for equipment / tool storage and drop-off requirements
- iv) Relevant walking and cycling routes, including locations of bicycle parking in the precinct if applicable
- v) Encourage the use of carpooling where applicable
- vi) Encourage all site staff and management to work remotely where practicable

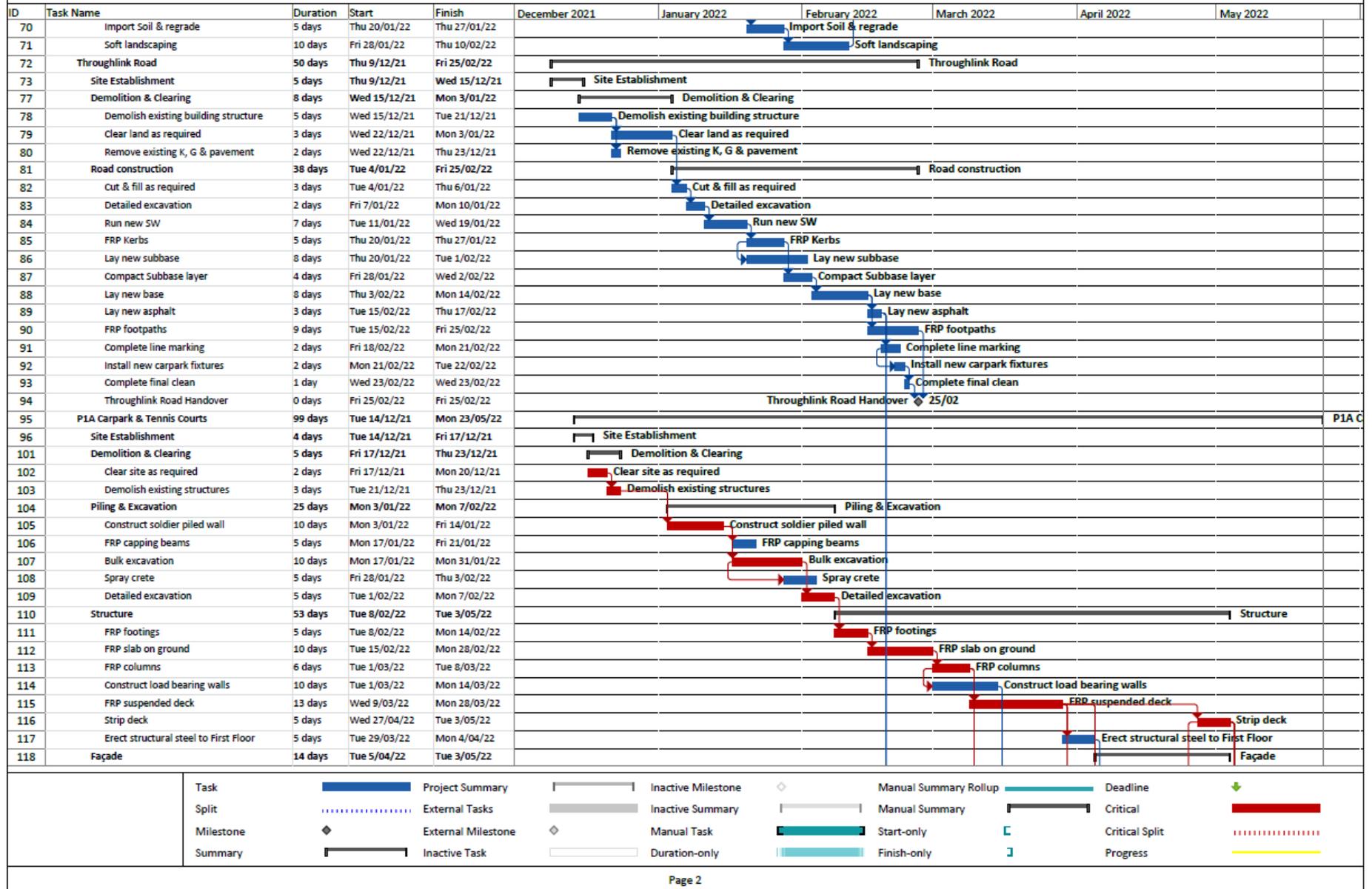
COWYN Building Group will monitor surrounding roads periodically and issue warnings to workers who are identified and breaching these requirements.

## **1.8 – SUMMARY**

This Construction Worker Transportation Strategy describes in detail the transport options available to staff, including a number of main bus and train routes which can be used to access site, as well as available street parking not within the immediate vicinity of the job site. Workers through their site induction will be encouraged to utilise the methods discussed within this report, including bus, train or cycling to travel to site.

# APPENDIX A – LORETO CONSTRUCTION PROGRAM





ID	Task Name	Duration	Start	Finish	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022
119	External screening & gates	10 days	Tue 5/04/22	Wed 27/04/22						External screening & gates
120	Lay masonry	5 days	Wed 27/04/22	Tue 3/05/22						Lay masonry
121	Fitout	38 days	Wed 9/03/22	Wed 11/05/22						Fitout
122	Ground floor	38 days	Wed 9/03/22	Wed 11/05/22						Ground floor
123	High level services rough in	10 days	Wed 9/03/22	Wed 23/03/22				High level services rough in		
124	Services fitoff	5 days	Wed 4/05/22	Tue 10/05/22						Services fitoff
125	Install fixtures & fittings	4 days	Wed 4/05/22	Mon 9/05/22						Install fixtures & fittings
126	Complete line marking	3 days	Wed 4/05/22	Fri 6/05/22						Complete line marking
127	Paint & sealer	5 days	Wed 4/05/22	Tue 10/05/22						Paint & sealer
128	Cleaning	2 days	Tue 10/05/22	Wed 11/05/22						Cleaning
129	First Floor	23 days	Tue 29/03/22	Mon 9/05/22						First Floor
130	High level services rough in	5 days	Tue 29/03/22	Mon 4/04/22				High level services rough in		
131	Install membrane	10 days	Tue 5/04/22	Wed 27/04/22					Install membrane	
132	Install floor finishes & sports surfaces	15 days	Tue 5/04/22	Wed 4/05/22					Install floor finishes & sports surfaces	
133	Install sports equipment	3 days	Thu 5/05/22	Mon 9/05/22					Install sports equipment	
134	install FF&E	3 days	Thu 5/05/22	Mon 9/05/22					install FF&E	
135	Services fitoff	2 days	Thu 5/05/22	Fri 6/05/22					Services fitoff	
136	External Works	18 days	Tue 15/03/22	Fri 8/04/22				External Works		
137	Trim site to required levels	3 days	Tue 15/03/22	Thu 17/03/22				Trim site to required levels		
138	FRP external driveway pavemeny	5 days	Fri 18/03/22	Fri 25/03/22				FRP external driveway pavemeny		
139	Soft landscaping	12 days	Fri 18/03/22	Tue 5/04/22				Soft landscaping		
140	Turfing	12 days	Thu 24/03/22	Fri 8/04/22				Turfing		
141	Install fixtures & fittings	2 days	Thu 7/04/22	Fri 8/04/22				Install fixtures & fittings		
142	Elevated Walkway Ramp	29 days	Fri 18/02/22	Thu 31/03/22				Elevated Walkway Ramp		
143	Setout new Walkway	1 day	Fri 18/02/22	Fri 18/02/22			Setout new Walkway			
144	Install TPZ as necessary	1 day	Mon 21/02/22	Mon 21/02/22			Install TPZ as necessary			
145	Clear area as required	4 days	Mon 21/02/22	Thu 24/02/22			Clear area as required			
146	FRP piers & footings	5 days	Mon 21/02/22	Fri 25/02/22			FRP piers & footings			
147	Erect structural steel	7 days	Mon 28/02/22	Tue 8/03/22			Erect structural steel			
148	Install Ground Bridge deck	8 days	Wed 9/03/22	Fri 18/03/22			Install Ground Bridge deck			
149	Brace as required	2 days	Tue 22/03/22	Wed 23/03/22			Brace as required			
150	FRP concrete landings	5 days	Tue 22/03/22	Mon 28/03/22			FRP concrete landings			
151	Install HR & fixutres	6 days	Thu 24/03/22	Thu 31/03/22			Install HR & fixutres			
152	Install bench seating	5 days	Fri 25/03/22	Thu 31/03/22			Install bench seating			
153	Bus Stop & Ramp 2 Pedestrian footpaths	28 days	Fri 18/02/22	Wed 30/03/22				Bus Stop & Ramp 2 Pedestrian footpaths		
154	Setout new footpaths & bus stop	1 day	Fri 18/02/22	Fri 18/02/22			Setout new footpaths & bus stop			
155	Install TPZ as necessary	1 day	Mon 21/02/22	Mon 21/02/22			Install TPZ as necessary			
156	Clear area as required	4 days	Mon 21/02/22	Thu 24/02/22			Clear area as required			
157	Demolish existing retaining walls	2 days	Fri 25/02/22	Mon 28/02/22			Demolish existing retaining walls			
158	Detailed excavation	6 days	Tue 1/03/22	Tue 8/03/22			Detailed excavation			
159	FRP piers & footings	4 days	Tue 1/03/22	Fri 4/03/22			FRP piers & footings			
160	Lay new retaining walls	3 days	Mon 7/03/22	Wed 9/03/22			Lay new retaining walls			

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
Split		External Tasks		Inactive Summary		Manual Summary		Critical	
Milestone		External Milestone		Manual Task		Start-only		Critical Split	
Summary		Inactive Task		Duration-only		Finish-only		Progress	

ID	Task Name	Duration	Start	Finish	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022
161	FRP Foot paths	7 days	Mon 7/03/22	Tue 15/03/22				FRP Foot paths		
162	Install sandstone seats & protect	2 days	Wed 16/03/22	Thu 17/03/22				Install sandstone seats & protect		
163	FRP pavement to bus stop	5 days	Wed 16/03/22	Wed 23/03/22				FRP pavement to bus stop		
164	Erect structural steel	2 days	Thu 24/03/22	Fri 25/03/22				Erect structural steel		
165	Install timber battens	3 days	Thu 24/03/22	Mon 28/03/22				Install timber battens		
166	Install Polycarbonate roof	2 days	Mon 28/03/22	Tue 29/03/22				Install Polycarbonate roof		
167	Clean down upon completion	1 day	Wed 30/03/22	Wed 30/03/22				Clean down upon completion		
168	Project Completion	7 days	Thu 12/05/22	Mon 23/05/22						Project Completion
169	Demobilise site	2 days	Thu 12/05/22	Fri 13/05/22						Demobilise site
170	Final Paint & Clean	5 days	Tue 17/05/22	Mon 23/05/22						Final Paint & Clean
171	Practical Completion	0 days	Mon 23/05/22	Mon 23/05/22						Practical Completion 23/05

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
Split		External Tasks		Inactive Summary		Manual Summary		Critical	
Milestone		External Milestone		Manual Task		Start-only		Critical Split	
Summary		Inactive Task		Duration-only		Finish-only		Progress	