Local Road Dilapidation Report Rockdale Council

Project Name: WestConnex New M5

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Document Approval

Rev.	Date	Prepared by	Reviewed by	Recommended by	Approved by	Remarks
00	09/05/16	Haris Chandrasiri	Tim Cunningham		T Orpen	
Signature:						

Details of Revision Amendments

Document Control

The Project Director is responsible for ensuring that this Report is reviewed and approved. The Construction Manager (Project Wide) is responsible for updating this Report to reflect changes to the Project, legal and other requirements, as required.

Amendments

Any revisions or amendments must be approved by the Project Director before being distributed or implemented.

Revision Details

Revision	Details
00	Prepared for internal review

Contents

1. Introduction

The CPB Contractors, Dragados and Samsung Joint Venture (CDS-JV) has been selected to deliver the New M5 from St Peters to Beverly Hills.

Condition B59 of the Minister's Condition of Approval (MCoA) requires CDS-JV to determine the access route(s) for heavy and oversized vehicles associated with the construction of the New M5 and site establishment works and prepare a Local Road Dilapidation Report for those local roads within the control of the relevant councils that would be utilised.

In addition, Clause 4.3 of Exhibit A of the SWTC requires CDS-JV to undertake ground and infrastructure condition surveys of all existing infrastructure (including local roads) within 50 meters of the Project Site and Temporary Areas and within a surface corridor which, when viewed in plan, has boundaries set a minimum of 50 meters beyond all excavations.

This is the dilapidation report of the local roads within the control of Rockdale Council.

2. Dilapidation survey of Local Roads within the control of Rockdale Council

Local Roads within the control of Rockdale Council that require dilapidation survey falls in to two groups;

1. Group 1- Local roads that will be utilised for heavy and oversized vehicles associated with the construction of the New M5 (**Condition B59 of MCoA)**

2. Group 2- Local roads within 50m of the construction works but are not utilised for construction traffic (**Clause 4.3 of Exhibit A of the SWTC)**

2.1 Group 1 – Local Roads that will be utilised for heavy and oversized vehicles

Table 1 below shows the increase in traffic volumes on the local roads that will be utilised for heavy and oversized vehicles associated with the construction of the WestConnex New M5.

Street	From	To	Length (m)	Direction	** Traffic volumes and performance 2016 with construction traffic			
					Heavy Vehicles			
					AM Peak Hour		PM Peak Hour	
					Total	% increase	Total	% increase
Kingsgrove Road	Moorefield Rd	Stoney Creek Rd	2,200	East bound	90	14%	53	23%
				West bound	89	14%	69	17%
West Botany Road	Wicham Rd	Princes Highway	650	North bound	117	27%	69	56%
				South bound	76	6%	53	8%
Gertrude St	Princes Highway	Levey St	280	TBC	TBC	TBC	TBC	TBC
				TBC	TBC	TBC	TBC	TBC
Levey St (including 150m long adjacent rd)	Gertrude St	Marsh St	550	TBC	TBC	TBC	TBC	TBC
				TBC	TBC	TBC	TBC	TBC

****** New M5 EIS Vol 202B App G Traffic and Transport Part 02

Table 1

As per the Condition B59 of Minister's Condition of Approval the Local Road Dilapidation Report must assess the current condition of the road and describe mechanism to restore any damage that may result due to its use by traffic and transport related to the construction of the WestConnex New M5.

Local Road Dilapidation Report – Rockdale Council

Local Road Dilapidation survey was undertaken by Australian Road Research Board (ARRB) and dilapidation survey results and the assessment of the current condition of the local roads is provided in the report Pre-construction Road Condition Report WestConnex New M5 Main Works Project by ARRB (Attachment 1).

Mechanisms to restore any damage that may result due to its use by traffic and transport related to the construction of the project

It has been estimated that heavy vehicle traffic volumes of Kingsgrove Road and West Botany Road, are likely to increase between 14% and 56% due to construction traffic (Table 1).

Gertrude Street and Levey Street

Current and predicted heavy vehicle traffic volumes on Gertrude Street and Levey Street are presently not available. An updated report with will be issued when this data is available.

A post-construction dilapidation report will be prepared within 4 weeks of the completion of construction to assess any damage to these roads that may have occurred as a result of the construction traffic. This report will be compared with the pre-construction dilapidation reports and any damage that may have resulted due to construction traffic and transport related to the construction of the project will be restored as per 'Clause 3.2 Pavement Repairs of SWTC Appendix C.6 Local Road Maintenance during Project Company's Work (Attachment 2).

2.2 Group 2 - Local roads within 50m of the construction works but are not utilised for construction traffic

Table 2 below shows the local roads within 50m of the construction works but that will not be utilised for project construction traffic. Assessment of the current condition of these local roads is provided in the enclosed report. A post-construction dilapidation report will be prepared within 4 weeks of the completion of construction. The post-construction dilapidation report will be compared with the pre-construction dilapidation report and any changes in the road condition will be recorded. Any damage that may have resulted due to construction of the Project Company's Work will be assessed and repairs undertaken based on the geotechnical instrumentation and monitoring data, primarily vertical and horizontal ground movement data, in conjunction with the dilapidations reports.

Street	From	To	Street length (m)	Suburb
Kingsgrove Av	Kingsgrove Rd	Bexley Rd	1,200	Kingsgrove
York St	Kingsgrove Lane	To End of the road	105	Kingsgrove
Kooreela St	Kingsgrove Lane	To End of the road	104	Kingsgrove
Girraween St	Kingsgrove Lane	To End of the road	70	Kingsgrove
Bonalbo St	Kingsgrove Lane	To End of the road	61	Kingsgrove
Nairn St	Kingsgrove Lane	To End of the road	41	Kingsgrove
(No name) between Nairn St and Beaumont St	Kingsgrove Lane	To End of the road	60	Kingsgrove
Beaumont St	Kingsgrove Lane	To End of the road	65	Kingsgrove
Shaw St	Bexley Rd	Caroline St	1,000	Kingsgrove
Berith St	Shaw St (towards north)	To End of the road	41	Kingsgrove
Wolli Av	Shaw St (towards north)	To End of the road	60	Kingsgrove
Kookaburra Lane	Shaw St (towards north)	To End of the road	60	Kingsgrove
Staples St	Shaw St (towards north)	To End of the road	60	Kingsgrove
East Dr	Shaw St (towards south)	20m length to south	20	Bexley North

Bexley Rd	Demain Av	Poole St	700	Kingsgrove
Caldwell Lane	Shaw St	Demaine Ave	130	Bexley North
Slade Rd	Bexley Rd	210m length	210	Bexley North
Sarsfield Cct	Slade Rd	123m length	123	Bexley North
Irwin Cr	Slade Rd	To End of the road	142	Bexley North
Kingsland Rd N	Slade Rd	200m length	200	Bexley North
Barnsbury Gr	Richard Crescent	Bernard Av	140	Bardwell Park
Bernard Av	Barnsbury Gr	Stotts Av	150	Bardwell Park
Richard Cr	Barnsbury Gr	To End of the road	190	Bardwell Park
Churchill St	Benjamin St	350m length	350	Bardwell Park
Hutchinson St	Churchill St	90 deg bend	95	Bardwell Park
Richard Lane	Richard Crescent	end of road	130	Bardwell Park
The Glen Rd	Pile St	Wilson Rd	285	Bardwell Valley
Pile St	Northern end	100m length	100	Bardwell Valley
Lapis Cr	Cul de sac	100m length	100	Bardwell Valley
Wilsons Rd	Lorraine Ave	Northern end	180	Bardwell Valley
Lorraine Av	Wilson Rd	East St	280	Arncliffe
East St	The Glen Rd	Lorraine Av	400	Arncliffe
Fairview St	Fripp St	100m length	100	Arncliffe
Fripp St	Lorraine Av	Wollonggong Rd	190	Arncliffe
Athelstane Av	Fripp St	Wollongong Rd	280	Arncliffe
Wollongong Rd	Stewart St	Dowling St	260	Arncliffe
Farrar St	Wollongong Rd	100m length	100	Arncliffe
Station St	Wollongong Rd	230m length	230	Arncliffe

Towers Pl	Forrest Rd	To End of road	124	Arncliffe
Towers St	Union St	To End of road	110	Arncliffe
Esdaile Pl	Forrest Rd	To End of road	131	Arncliffe
Forest Rd	Pitt-Owen Av	Princes Highway	450	Arncliffe
Wickham St	Princes Highway	Charles St	170	Arncliffe
Stanley St	full length		210	Arncliffe
Stanley Lane	full length including lane from Forest Rd to Stanley St		250	Arncliffe
Barden St	Forest Rd	Stanley St	80	Arncliffe
Barden Lane	Barden St	To End	80	Arncliffe
Somerville St	Forest Rd	100m length	100	Arncliffe
Firth St	Forest Rd	100m length	100	Arncliffe
Wardell St	Forest Rd	100m length	100	Arncliffe
Eden St	Forest Rd	100m length	100	Arncliffe
McKearns Pl	Wicham St	30m length	30	Arncliffe
Charles St	Wickham St	Kyles St	190	Arncliffe
Kyle St	West Botany Rd	Charles St	140	Arncliffe
Valda Av	Cul de sac	65m length	65	Arncliffe
Marsh St (off Valda Ave)	Valda Av	To End	130	Arncliffe
Flora St	Marsh St	100m length	100	Arncliffe
Innesdale Rd	Marsh St	Levey St	80	Arncliffe

Table 2

Attachment 1 – Pre-construction Road Condition Report for WestConnex New M5 Main Works Project

Attachment 2 - Clause 3.2 Pavement Repairs of SWTC Appendix C.6 Local Road Maintenance during Project Company's Work

3.2 Pavement Repairs

Element	Requirement
1.Safe conditions	Repair to ensure road remains open to traffic providing safe conditions under the prevailing weather conditions, traffic volume, and speed zone.
2.Integrity of materials	All repairs, unless otherwise specified, shall comprise materials that are compatible with, or of better quality than the existing pavement. Asphalt may be used to alleviate stepping at joint.
3.Unsound material	For permanent repairs, the Project Company must remove enough of the underlying unsound material to ensure sound repair is achieved.
4.Compaction	Compaction shall achieve a uniformly dense, free from segregation and well bonded repair sufficient to ensure that it is not displaced, shoved, deformed, or picked up by traffic.
5.Ride quality	The deviation both within the repair and between the existing pavement and the repair when measured with a 1.5 m straight edge shall not be greater than 10 mm with a maximum surface level difference of 5 mm at the perimeter of the repair
6.Surface Finish	The surface shall provide a uniform water resistance layer to protect the pavement layers from surface infiltration of moisture. The skid resistance of the surface shall not be lower than that apparent immediately in front of and beyond the work area. Where surfacing aggregate is used it shall remain proud of the binder so that: ▪ binder is not picked up by the tyres of traffic, and ▪ the surface repair shall have no exposed bituminous material.
7.Lateral drainage	Ensure completed repair does not adversely affect lateral drainage across shoulder.

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Code of Maintenance Standards for Service Centre Access Roads

Element	Requirement
8.Excess material	Excavated material and debris shall not be left on the roadside or placed so as to impede surface drainage. Excess material shall be swept from the traffic lanes and bicycle lanes and disposed of legally and responsibly at the Project Company's expense.
9.Avoid damage to existing surface	Repair material and binding agents used shall not cause damage to the integrity of the existing bituminous surfacing.