"GORE HILL BUSINESS PARK"

PLANNING PROPOSAL TO PERMIT OFFICE USE ON LOT 5

Assessment of Traffic and Parking Implications

August 2016

Reference 14077

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1. INTRODUCTION

This report has been prepared to accompany a Planning Proposal to Willoughby City Council to amend the zoning for Lot 5 in the "Gore Hill Business Park" from IN2 Light Industrial to B7 Business Park to allow for 'office premises' use in the completed Fox Sports building on Lot 5.

The Gore Hill Business Park (Figure 1) has evolved from consolidation of the former ABC Television Studios site with adjacent lands and is zoned IN2 Light Industrial under Willoughby LEP 2012 ("Office Premises" not permitted).

Past planning for development has been based on a mixed use technology business park including industrial uses, community/sporting facilities and ancillary uses. Two buildings have been completed and occupied while Austgrid have purchased Lot 2 for a depot development.

The development outcome for Lot 5 subject to the Planning Proposal is as follows:

| Fox Studio/Offices | Total 14,466m ² GFA | 182 parking spaces |
|--------------------|--------------------------------|--------------------|
| Currently Vacant | 2,200m ² GFA | 21 parking spaces |

The proposed change will only have minor implications for the Lot 5 building other than to permit "office premises in addition to the present approved uses, which include high technology industries, telecommunications facilities and restaurants or cafes. The purpose of this report is to provide an assessment of the potential traffic and parking implications of the Planning Proposal.



2. PLANNING PROPOSAL

2.1 SITE, CONTEXT AND EXISTING CIRCUMSTANCES

The site (Figure 2) is Lot 5 (Building C) within the Gore Hill Business Park (DP270714), which has extensive frontages to Pacific Highway and Campbell Street at Artarmon. The Business Park is adjoined by a TAFE College to the south and industrial uses to the east and is divided into 6 lots as follows:

| Lot 1 | Community (i.e. road) | 8,458 m ² |
|-------|-----------------------|-----------------------|
| Lot 2 | | 10,630 m ² |
| Lot 3 | | 3,840 m ² |
| Lot 4 | | 6,692 m ² |
| Lot 5 | | 4,212 m ² |
| Lot 6 | | 12,510 m ² |

The access road system (Broadcast Way) has been constructed and the completed developments comprise:

| Lot 4 | Data Centre | 7,562 m ² GFA |
|-------|----------------------|---------------------------|
| Lot 5 | Fox Studios Building | 14,466 m ² GFA |



2.2 MASTER PLANNING

The Business Park has been subject to a number of consents and modifications and the current approved/envisaged development outcome is as follows:

| Lot | Description | Non GFA | GFA |
|-------|----------------------------------|---------|-----------------------|
| Lot 2 | Showroom/Warehouse (DA Approved) | | 18,180 m ² |
| Lot 3 | Data Centre (DA submitted) | | 5,656 m ² |
| Lot 4 | Data Centre (Completed) | | 7,562 m ² |
| Lot 5 | Fox Studios/Office (Completed) | | 14,466 m ² |
| Lot 6 | 8 Multi purpose courts | 10424m² | |
| | Office | | 29,090m² |
| | Workshop/ car storage | | 6,340m² |
| | Showrooms | | 4,480m ² |
| | Food Plaza | | 870m ² |
| | Warehouse | | 4,740m ² |
| | Parking | 929m² | |
| | Total Lot 6 GFA (excl Sports) | | 45,520m ² |

Traffic modelling with the Council assessed traffic generation revealed Level of Service outcomes for completed development as follows:

| | AM | PM | WEMD |
|--------------------|----|----|------|
| Pacific/Campbell | С | В | В |
| Campbell/Broadcast | А | А | А |

2.3 PLANNING PROPOSAL

The development outcome for Lot 5 (Building C) subject to a Planning Proposal is as follows:

| Fox Studio/Offices | 14,466m ² GFA |
|--------------------|--------------------------|
| Parking | 182 spaces |

There is a current vacancy of 2,200m² of office floorspace in the building for which there are 21 parking spaces attached while the other 12,266m² and 161 parking spaces are occupied.

Details of the envisaged development are provided in the context of the masterplanning overleaf.



3. ROAD NETWORK AND TRAFFIC CIRCUMSTANCES

3.1 ROAD NETWORK

The road network serving the site (Figure 3) comprises:

- Pacific Highway a State Road and arterial route providing the major north/south connection between Sydney and Hornsby
- * Gore Hill Freeway a major arterial route connecting between the harbour crossing and the Pacific Highway, Lane Cove Tunnel and M2 Motorway routes
- *River Road* a 'collector' road which provides the major connection between
 Gladesville and Crows Nest
- Campbell Street, Reserve Road and Herbert Street collector road routes linking to the Highway.
- Broadcast Way is a short community title access road with Public Right of Way connecting through Gore Hill Business Park between Campbell Street and Pacific Highway.

3.2 TRAFFIC CONTROLS

The traffic controls on the road system serving the area (Figure 4) comprise:

- the traffic signals at the Pacific Highway and Campbell Street intersection (see details on plan overleaf)
- * the roundabout at the Campbell street/Clarendon Street intersection
- * the traffic signals at the Campbell Street/Reserve Road intersection





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| ø No Left Tu | rn 3pm-7pm M-F Vehicles up t | o 12.5m long excep | |
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| TCS No 585 | l | © COPYRIGHT ROADS AND | TRAFFIC AUTHORITY |
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- the 60 kmph speed restriction on the Highway and 50 kmph speed restriction on the local roads and 30kmph speed restriction on Broadcast Way
- the central median island along the Pacific Highway across the site frontage restricting access movements to left-turn IN/OUT
- the CLEARWAY restrictions along the Pacific Highway and the BUS ZONE provisions (both sides)

3.3 TRAFFIC CONDITIONS

Traffic surveys have recently been undertaken at the intersections/accesses for the site and the results of those surveys are provided in Figure 5.

The existing operational performance of this intersection has been assessed using SIDRA and the results are provided in Appendix D and summarised in the following:

| | AM | PM |
|-----------------------|--------------------------|---------|
| Level of Service | А | А |
| Average Vehicle Delay | 6 secs | 11 secs |
| | *Source Arup for Council | |

These results indicate that the intersection operates satisfactorily during the peak periods having regard for the criteria for interpreting SIDRA results which is reproduced overleaf.

3.4 PARKING CONDITIONS

There is a high level of demand for on-street parking on the road network in the vicinity of the site due to the large worker/visitor population of the major hospital precinct, the student/teacher population of the TAFE college and the inadequate on-site parking in many of the industrial premises. A recent survey was undertaken to establish the generalised extent of the on-street parking accumulation in the middle



Criteria for Interpreting Results of SIDRA Analysis

1. Level of Service (LOS)

| LOS | Traffic Signals and Roundabouts | Give Way and Stop Signs |
|-----|---|--|
| 'A' | Good | Good |
| 'B' | Good with acceptable delays and spare capacity | Acceptable delays and spare capacity |
| 'C' | Satisfactory | Satisfactory but accident study required |
| 'D' | Operating near capacity | Near capacity and Accident Study required |
| 'E' | At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode | At capacity and requires other control mode |
| 'F' | Unsatisfactory and requires additional capacity | Unsatisfactory and requires other control mode |

2. Average Vehicle Delay (AVD)

The AVD provides a measure of the operational performance of an intersection as indicated on the table below which relates AVD to LOS. The AVD's listed in the table should be taken as a guide only as longer delays could be tolerated in some locations (ie inner city conditions) and on some roads (ie minor side street intersecting with a major arterial route).

| Level of Service | Average Delay per Vehicle (secs/veh) | Traffic Signals, Roundabouts | Give Way and Stop Signs |
|---------------------|---|---|---|
| А | Less than 14 | Good operation | Good operation |
| В | 15 to 28 | Good with acceptable delays and spare capacity | Acceptable delays and spare capacity |
| С | 29 to 42 | Satisfactory | Satisfactory but accident study required |
| D | 43 to 56 | Operating near capacity | Near capacity and accident study required |
| E | 57 to 70 | At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode | At capacity and requires other control mode |

3. Degree of Saturation (DS)

The DS is another measure of the operational performance of individual intersections.

For intersections controlled by **traffic signals**2 both queue length and delay increase rapidly as DS approaches 1, and it is usual to attempt to keep DS to less than 0.9. Values of DS in the order of 0.7 generally represent satisfactory intersection operation. When DS exceeds 0.9 queues can be anticipated.

For intersections controlled by a **roundabout or GIVE WAY or STOP signs**, satisfactory intersection operation is indicated by a DS of 0.8 or less.

¹ the values of DS for intersections under traffic signal control are only valid for cycle length of 120 secs

of the weekday. The results of that survey are provided overleaf confirming the high levels of occupancy.

3.5 PUBLIC TRANSPORT SERVICES

The development site is ideally located in relation to public transport services which include numerous high frequency bus services operated by State Transit and Hills Bus along the Pacific Highway including services which provide access to retail/commercial centres of Lane Cove, Chatswood, Macquarie Centre, North Sydney and Sydney CBD. Inward and outward bus stops for these services located on both sides of the Highway in close proximity to the site.

The site is also served by the Gore Hill Shuttle Bus Service and this bus runs from 6:50am to 6:50pm at 10minute intervals in peak periods and 30minute intervals during shoulder periods. The bus service is free and operates between St Leonards Station and the two bus stops on Broadcast Way.

The comprehensive nature of bus services are indicated in the route maps reproduced in Appendix A.

St Leonards Railway Station is located some 800 metres to the south-east and can be accessed by easy walking through the Royal North Shore Hospital precinct or by the shuttle bus or the bus services along the Highway.

| LOCATION | GORE HILL | DATE | Tuesday, August 23, 2016 |
|--------------------|-------------|---------|--------------------------|
| SURVEY TIME PERIOD | 1100 - 1300 | WEATHER | FINE |



| - 100% FULL |
|------------------|
| - 90% FULL |
| - 80% FULL |
| - 40% - 70 % |





4. TRAFFIC

The peak traffic generation of the two existing buildings in the Business Park (Lots 4 & 5) as recorded in the recent surveys (Appendix B) are as follows:

| | | AM | Р | Μ |
|-------------|----|-----|----|-----|
| | IN | OUT | IN | OUT |
| Fox Studios | 49 | 8 | 10 | 49 |
| Data Centre | 4 | 2 | 10 | 7 |

The recorded generation for the Fox Studios Building with 12,266m² and 161 parking spaces occupied equates to 0.49 vtph per 100m² or 0.37 vtph per parking space.

The traffic generation criteria for "office" use contained in the RMS Technical Direction TDT 2014-4b is as follows:

| AM Peak | 1.6 vtph per 100m ² GFA |
|---------|------------------------------------|
| PM Peak | 1.2 vtph per 100m ² GFA |

However scrutiny of the Analysis Report which underlies this criteria reveals that this is in fact the "<u>site peak traffic generation</u>" and not the "<u>road network peak traffic generation</u>" which are as follows:

 AM
 PM

 1.19 vtph/100m²
 0.82 vtph/100m²

The RMS data is for "unconstrained" parking provision where as comprehensive surveys undertaken by TTPA of the traffic generation of "constrained parking provision" office buildings in Chatswood, North Sydney and Parramatta indicated a generation rate of 0.32 vtph per space.

The site does not benefit from the high level of transport accessibility of the regional centres surveyed and the generation of the 2,200m² of office space may be

somewhat more than that of Fox Studios. The recent Arup assessment adopted an arrival/departure rate of staff in 1 hour of 50% and if that is applied to the 21 parking spaces currently unused (i.e. instead of 0.37) then the outcome would be some 11 vtph.

It is quite apparent that the additional movements of 11 vtph spread over inwards/outwards movements on the 2 access points will not have any perceptible traffic impact. This is particularly the case when TTPA and ARUP assessments for the proposed rezoning of Lots 5 and 6 together have shown a satisfactory traffic outcome.

5. PARKING

The total parking provision for Lot 5 is 182 spaces for the 14,466m² which equates to 1 space per 79.5m² which complies with Councils objective for constrained parking provision. Whilst this circumstance could result in an exacerbation and spread of on-street parking, the fact is that the available on-street parking located within seasonable walking distance of the site is already saturated (see section 3.4).

It is apparent that the available parking provision will be appropriate to the Planning Proposal.

6. ACCESS, INTERNAL CIRCULATION AND SERVICING

Access

The existing vehicle accesses are on Broadcast Way with design details which accord with AS2890.1 and 2 requirements.

INTERNAL CIRCULATION

The design of the car park area accords with the requirements of AS2890.1 & 6.

SERVICING

The design of the arrangements for service vehicles accord with AS2890.2 requirements.

7. CONCLUSION

This assessment has considered the potential traffic and parking implications of a Planning Proposal to permit "office premises" use within the B7 Business Park zone for development on Lot 5 in the Gore Hill Business Park.

The assessment has demonstrated that the development use/s will not result in any unsatisfactory traffic implications, the proposed parking provision will be adequate for the use and the design of the vehicle access, parking, servicing and circulation areas complies with the relevant standards.

APPENDIX A

TRANSPORT SERVICES



gore hill

FREE SHUTTLE BUS SERVICE



gore hill

The Gore Hill Technology Precinct FREE shuttle bus service travels to and from St Leonards Station.

The NEW service will commence on Monday December 3, 2012.

The bus will depart every 10 minutes during peak periods -6.50 – 10.00am 12.00 – 2.30pm 4.30 – <u>6.50pm</u>

Shoulder period every 30 minutes

Shuttle bus service operates on business days only.



Gore Hill bus service is operated by Veolia

APPENDIX B

TRAFFIC SURVEY RESULTS



ENTRANCE AND EXITS TO FOX SPORT(WEST)

| All Vehicles | | NORTH | | | EAST | | | SOUTH | | | WEST | | | | |
|------------------|-----|--------|----------|------|----------|---------------|---|-------|---------------|----|----------|------------|-------|--|--|
| Time Per 15 Mins | Bro | adcast | Way | None | | Broadcast Way | | | Broadcast Way | | | Fox Studio | | | |
| | Ŀ | Ţ | <u>R</u> | L | <u>T</u> | <u>R</u> | L | Ţ | <u>R</u> | L | <u>T</u> | <u>R</u> | TOTAL | | |
| 7:00 - 7:15 | | | 5 | | | | 0 | | | 1 | | 0 | 6 | | |
| 7:15 - 7:30 | | | 7 | | | | 0 | | | 0 | | 1 | 8 | | |
| 7:30 - 7:45 | | | 9 | | | | 0 | | | 2 | | 1 | 12 | | |
| 7:45 - 8:00 | | | 12 | | | | 1 | | | 0 | | 0 | 13 | | |
| 8:00 - 8:15 | | | 11 | | | | 1 | | | 0 | | 1 | 13 | | |
| 8:15 - 8:30 | | | 12 | | | | 3 | | | 4 | | 0 | 19 | | |
| 8:30 - 8:45 | | | 11 | | | | 0 | | | 0 | | 0 | 11 | | |
| 8:45 - 9:00 | | | 12 | | | | 0 | | | 0 | | 0 | 12 | | |
| Period End | 0 | 0 | 79 | 0 | 0 | 0 | 5 | 0 | 0 | 7 | 0 | 3 | 94 | | |
| 16:00 - 16:15 | | | 2 | | | | 0 | | | 4 | | 0 | 6 | | |
| 16:15 - 16:30 | | | 2 | | | | 0 | | | 2 | | 1 | 5 | | |
| 16:30 - 16:45 | | | 1 | | | | 0 | | | 3 | | 2 | 6 | | |
| 16:45 - 17:00 | | | 3 | | | | 0 | | | 3 | | 2 | 8 | | |
| 17:00 - 17:15 | | | 3 | | | | 1 | | | 11 | | 5 | 20 | | |
| 17:15 - 17:30 | | | 1 | | | | 1 | | | 8 | | 5 | 15 | | |
| 17:30 - 17:45 | | | 2 | | | | 1 | | | 6 | | 5 | 14 | | |
| 17:45 - 18:00 | | | 1 | | | | 0 | | | 5 | | 4 | 10 | | |
| Period End | 0 | 0 | 15 | 0 | 0 | 0 | 3 | 0 | 0 | 42 | 0 | 24 | 84 | | |

| All Vehicles | | NORTH | | | EAST | | | SOUTH | | | WEST | | |
|-----------------|---|-------|----------|---|------|----------|----|-------|----------|-----|------|----------|-------|
| Time Per 1 Hour | | | | | | | | | | | | | |
| | Ŀ | I | <u>R</u> | L | Ī | <u>R</u> | Ŀ | I | <u>R</u> | Ŀ | Ī | <u>R</u> | TOTAL |
| 7:00 - 8:00 | 0 | 0 | 33 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 2 | 39 |
| 7:15 - 8:15 | 0 | 0 | 39 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 46 |
| 7:30 - 8:30 | 0 | 0 | 44 | 0 | 0 | 0 | 5 | 0 | 0 | 6 | 0 | 2 | 57 |
| 7:45 - 8:45 | 0 | 0 | 46 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 1 | 56 |
| 8:00 - 9:00 | 0 | 0 | 46 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 55 |
| Period End | 0 | 0 | 208 | 0 | 0 | 0 | 17 | 0 | 0 | 19 | 0 | 9 | 253 |
| 16:00 - 17:00 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 5 | 25 |
| 16:15 - 17:15 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 0 | 0 | 19 | 0 | 10 | 39 |
| 16:30 - 17:30 | 0 | 0 | 8 | 0 | 0 | 0 | 2 | 0 | 0 | 25 | 0 | 14 | 49 |
| 16:45 - 17:45 | 0 | 0 | 9 | 0 | 0 | 0 | 3 | 0 | 0 | 28 | 0 | 17 | 57 |
| 17:00 - 18:00 | 0 | 0 | 7 | 0 | 0 | 0 | 3 | 0 | 0 | 30 | 0 | 19 | 59 |
| Period End | 0 | 0 | 41 | 0 | 0 | 0 | 9 | 0 | 0 | 114 | 0 | 65 | 229 |

| Location | Campbell Street, Artamon | | | | | | |
|-------------------|--------------------------|--------|--|--|--|--|--|
| Client | ТТРА | | | | | | |
| Job No/Name | 150 |)25 | | | | | |
| Day/Date | 27/04/2015 | Monday | | | | | |
| Weather Condition | Fine | Sunny | | | | | |
| Classification | Unclas | sified | | | | | |



ENTRANCE AND EXITS TO DATA CENTRE (EAST)

| | 123 | WEST | BRILLES. | | SOUTH | | Sold State | EAST | | S. States | NORTH | No. 1 | cles | Vehi | All |
|-------|-----------------|---------------|-------------------|--------|-------------|--------|------------|-------------|---|------------|----------|-------|--------|-------|--------|
| | Way | Broadcast Way | | | None | | | Data Centre | | | adcast \ | Broa | 5 Mins | Per 1 | Time F |
| TOTAL | R | Ī | L | R | I | L | R | I | Ŀ | R | Ī | Ŀ | | | |
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| 3 | 1-10-1-1-1 | 1 | The second second | 1.00 | | | 1 | 1 | | | | 0 | 16:15 | - | 16:00 |
| 0 | | 0 | | | | | 0 | 0 | | | | 0 | 16:30 | - | 16:15 |
| 1 | | 0 | | | | | 0 | 1 | | | | 0 | 16:45 | - | 16:30 |
| 0 | | 0 | | | | | 0 | 0 | | | | 0 | 17:00 | - | 16:45 |
| 1 | | 0 | | | | | 1 | 0 | | | | 0 | 17:15 | - | 17:00 |
| 3 | | 0 | | | | | 1 | 2 | | | | 0 | 17:30 | - | 17:15 |
| 1 | | 0 | | | | | 0 | 1 | | | | 0 | 17:45 | - | 17:30 |
| 1 | | 0 | | | | | 1 | 0 | | | | 0 | 18:00 | - | 17:45 |
| 10 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 5 | 0 | 0 | 0 | 0 | nd | iod E | Per |

| | | WEST | | | SOUTH | | | EAST | | | NORTH | | <u>cles</u> Hour | Vehi Per 1 | - |
|-------|------|---------|---|---|-------|---|----|------|---|-------|-------|-------|---------------------|---------------|-------|
| TOTAL | R | I | L | R | Í | L | R | I | L | R | I | L | | | |
| 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8:00 | - | 7:00 |
| 4 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 8:15 | - | 7:15 |
| 4 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 8:30 | - | 7:30 |
| 6 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 8:45 | - | 7:45 |
| 6 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 9:00 | - | 8:00 |
| 24 | 0 | 10 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 0 | 7 | End | iod I | Per |
| 17 | 0 17 | 0 0 0 6 | 0 | 4 | 3 | 0 | 0 | 0 | 4 | 17:00 | - | 16:00 | | | |
| 15 | 0 | 6 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | 17:15 | - | 16:15 |
| 14 | 0 | 5 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | 17:30 | - | 16:30 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 17:45 | - | 16:45 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 18:00 | - | 17:00 |
| 52 | 0 | 18 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 10 | End | iod I | Per |