Plan of general development, Melbourne: report of the Metropolitan Town Planning Commission
Plan of General Development

MELBOURNE

REPORT OF THE METROPOLITAN TOWN PLANNING COMMISSION

1929

BY AUTHORITY:
H. J. GREEN, GOVERNMENT PRINTER, MELBOURNE
Melbourne—Looking East from West Melbourne, across the Central Business District.

1. Flagstaff Gardens.
2. Site of First Cemetery.
3. Public Library and Museum.
5. The Treasury.
6. The Dandenong Ranges.
7. River Yarra, Batman and Alexandra Avenues.
9. Town Hall.
10. Old General Post Office.
11. Flinders-street Railway Station.
12. Law Courts.

(Photograph by “Aeropgy,” Show Aviation Company.)
INDEX TO CONTENTS

THE TOWN PLANNING MOVEMENT IN MELBOURNE ............................................. 1

PERSONNEL OF THE COMMISSION ................................................................. 5

APPOINTMENT AND DUTIES OF THE COMMISSION .......................................... 7

REFERENCE TO EARLIER REPORTS ................................................................. 8

FOREWORD ........................................................................................................... 13

LETTER TO THE HON. THE MINISTER ............................................................ 15

INTRODUCTION ..................................................................................................... 19

PART I

SURVEYS AND STUDIES

THE AREA OF PLANNING ..................................................................................... 23

GROWTH OF THE METROPOLIS—
  Population Studies .................................................................................................. 24

GENERAL SURVEY OF METROPOLIS—
  Topography and Climate .......................................................................................... 25

THE VEHICULAR TRAFFIC SURVEY—
  The Suburban Traffic Census ................................................................................. 27
  The City Traffic Census .............................................................................................. 34

GENERAL TRAFFIC SURVEY—
  Vehicular, Tramway, and Railway Statistics ......................................................... 43

STREET ACCIDENTS .............................................................................................. 45

PART II

COMMUNICATIONS

ROADS .................................................................................................................... 51


ARTERIAL ROADS—IMPROVEMENT RECOMMENDATIONS—
  Route No. 1—Port Melbourne-Melbourne Highway ............................................ 62
    The Water Gateway .................................................................................................. 64
    City section as traffic relief scheme ........................................................................... 64
  Route No. 2—South-Western Highway (Geelong-Melbourne) ............................... 64
  Route No. 3—Point Cook-Melbourne ................................................................. 65
  Route No. 4—Sunshine to Melbourne ................................................................. 67
    New Melbourne-Footscray Road ............................................................................. 68
  Route No. 5—Ballarat-road-Dyson-road .............................................................. 68
  Route No. 6—North-Western (Calder) Highway—Keilor to Melbourne .......... 70
  Route No. 7—Lancefield Highway—new 138-ft. road connecting Mount Alexander and Flemington roads .............................................................................................. 71
    Improvements at Moonee Ponds Junction ........................................................... 72
  Route No. 8—Hume (North-Eastern) Highway .................................................. 72
    Road through Royal Park and West Brunswick .................................................... 73
  Route No. 9—To Locality of Broadmeadows Military Camp ........................... 74
  Route No. 10—Sydney road .................................................................................... 75
  Route No. 11—St. George’s-road—Epping-road ............................................... 76
    Plantations in St. George’s-road ........................................................................... 76
  Route No. 12—Fairfield and East Preston Highway ............................................ 77
  Route No. 13—Ivanhoe-Bundoora—Whittlesea Highway : Waterdale-road and Extensions ................................................................. 77
  Route No. 14—Melbourne, Heidelberg, and Greensborough Highway .......... 78
  Route No. 15—East Kew to Templestowe Highway ......................................... 79
PART II—COMMUNICATIONS—(continued)

ARTERIAL ROAD—IMPROVEMENT RECOMMENDATIONS—continued.
Route No. 16—Fairfield to Doncaster Highway; Outer Circle Railway Bridge ...... 79
Route No. 17—Melbourne—Canterbury—Montrose Highway ...... 80
   Development of Eastern Suburbs ...... 80
   Barkers Road to Rathmines-road ...... 81
   Victoria street scheme ...... 82
Route No. 18—Melbourne—Ashburton and Ferntree Gully Highway ...... 82
   Yarra Boulevard and Gardeners Creek schemes ...... 83
Route No. 19—Prince’s Highway (Dandenong-road and Road through Prahran Valley)
   Chapel-street, Prahran ...... 84
   Alexandra-avenue—Increased use of ...... 84
Route No. 20—Mornington Peninsula Highway ...... 86
   Widening of High-street, St. Kilda and Point Nepean roads ...... 86
Route No. 21—Gardenvale to Heatherton and Keysborough Highway ...... 88
Route No. 22—Eastern Foreshore Highway ...... 88
   Relief of St. Kilda-street ...... 89
   Continuous Foreshore Drive ...... 89

GENERAL MAIN ROADS SCHEME: RECOMMENDATIONS—
Relative functions of various roads ...... 91
Economic factors in road scheme ...... 91
Tramline streets ...... 91
Outer suburban connections ...... 91
Relationship to railway level crossings ...... 92

MAIN ROADS IN MUNICIPALITIES OF—
Williamstown, Werribee (part), Footscray, and Braybrook (part) ...... 93
Keilor (part), Broadmeadows (part), Essendon, and Melbourne (part) ...... 94
Broadmeadows (part), Coburg, Brunswick, Melbourne (part), Fitzroy, Collingwood, and Richmond ...... 96
Preston, Coburg (part), Northcote, Heidelberg (part) ...... 100
Heidelberg, (part), Doncaster and Templestowe (part) ...... 101
Kew, Hawthorn, Camberwell (part), Box Hill, Blackburn and Mitcham, Mullgrave (part) ...... 103
Melbourne (part), Prahran, Malvern, Camberwell (part), St. Kilda (part), Brighton, Caulfield, Oakleigh (part), and Mullgrave (part) ...... 104
Brighton (part), Moorabbin, Dandenong (part), Sandringham, and Mundiallo ...... 110
Port Melbourne, South Melbourne, and St. Kilda (part) ...... 113

PARKWAYS—
Their relationship to the Main Roads Scheme ...... 115

IMPORTANT FACTORS OF ROADS IMPROVEMENT SCHEME—
Its possibilities; future savings; present accomplishments; estimates of costs not supplied for other than urgent works ...... 118

TRAFFIC CONTROL AND REGULATION—
Uniformity; the right of way at intersections, p. 119. Prohibition of turning traffic; dangerous curves, subways, &c.; slow and heavy traffic; one-way roads, p. 120. Safety zones, p. 121. Automatic traffic signals, p. 122. Speed; passing stationary tramcars; loading and unloading of vehicles, p. 123. Advertising vehicles and directions; bells, horns, &c.; drivers’ licences, p. 124. Pedestrian congestion in precincts of Flinders-street station; road crossing by pedestrians; wear of road surfaces, p. 125.

ROAD AND INTERSECTION IMPROVEMENTS—
Obstruction on footways, p. 126. Grades; rounding of corners; gyratory movement at junctions, p. 127.

RAILWAYS—
Flinders-street—Princes Bridge Station ...... 129
Northern City Railway ...... 130
Darling to Glen Waverley Railway ...... 131
Proposed Kew to Doncaster Railway ...... 132
Port Melbourne and St. Kilda Lines ...... 134
Fisherman’s Bend Railway Connections ...... 135
Conneions with Live Stock Sale Yards, &c. ...... 136

RAILWAY LEVEL CROSSINGS—

TRAMWAYS—
Community services rendered; the tramcar as an economical unit, p. 139. Tramways general scheme, p. 140.

PORT AND HARBOUR FACILITIES—

ONE TRANSPORT AUTHORITY—

Page No. 143
PART III
THE EXECUTION OF IMPROVEMENT SCHEMES—A PROGRAMME OF URGENT WORKS

NECESSITY FOR ADOPTION OF A PLAN OF DEVELOPMENT
Classifications of Urgent Works
Estimated Costs—Urgent Works—Class "C"
Financing Metropolitan Works
Metropolitan contributions to State activities, p. 150. Metropolitan contributions; contributions by public authorities; betterment rating, p. 151
A Central Metropolitan Constructing Authority

PART IV
ZONING

DEFINITIONS AND GENERAL
An Analysis of Existing Conditions

Building Regulations—
Structural regulations; regulations governing size and location of buildings; public buildings...
Height of Buildings
Comparisons with other cities

The Zoning Scheme
Residential Districts "A", "B", and "C"
Business Districts "A" and "B"
Industrial Districts "A", "B", and "C"
Non-conforming Uses
Alterations or Changes of Use

CONCLUSION

PART V
PUBLIC RECREATION

INTRODUCTORY REMARKS

The Proposals of the Commission
Zoning and the park system
Conditions in each municipality examined
Statistical Statement

The Park System
River Yarra Parks and Boulevard Improvement Scheme, p. 214. Yarra Lake Scheme, p. 215. Plenty River parkway, p. 217. Maribyrnong Valley parkway, p. 217. Rose Creek or Spring Gully parks, p. 218. Gardiner's Valley parkway, p. 219. Scotchman's Creek parks; Back Creek parkway to Wattle Park, p. 220. The Koonung Koonung Creek parks; Bush Creek parks; Darebin Creek parks and parkways, p. 221. The Merri Creek parks and parkways, p. 222. Boggs Creek parks; Moonee Ponds Creek parks; Kororoit Creek park; Stony Creek park, p. 224. Eastern Foreshore roads and parks; Western Foreshore drive and parks, p. 225.

General Outline of the Park System
Local parks and children's playgrounds; park roads and drives, p. 226. Access through reserves, p. 228.

Alienation of Reserves
The Acquisition of Public Open Spaces
Financing the Acquisition of Metropolitan Parks
Estimated cost of Metropolitan Park Scheme
Estimate of future requirements
Alternative loan methods and terms, p. 231. Leasing of purchased lands; betterment rating; contributions by sporting bodies; properties secured by "adverse possession"; Municipal Rates Recovery Act lands, p. 232. The acquisition of local parks, p. 233.

The Economic Aspect

CONCLUSION
PART II—COMMUNICATIONS—(continued)

<table>
<thead>
<tr>
<th>ROUTE NO.</th>
<th>DESCRIPTION</th>
<th>PAGE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Fairfield to Doncaster Highway; Outer Circle Railway Bridge</td>
<td>79</td>
</tr>
<tr>
<td>17</td>
<td>Melbourne Canterbury—Montross Highway</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>Development of Eastern Suburbs</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>Barker’s-road to Ruthmuses-road</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>Victoria-street scheme</td>
<td>82</td>
</tr>
<tr>
<td>18</td>
<td>Melbourne—Ashburton and Ferntree Gully Highway</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Yarra Boulevard and Gardiner’s Creek schemes</td>
<td>83</td>
</tr>
<tr>
<td>19</td>
<td>Prince’s Highway (Dandenong-road and Road through Prahran Valley)</td>
<td>84</td>
</tr>
<tr>
<td></td>
<td>Chapel-street, Prahran</td>
<td>84</td>
</tr>
<tr>
<td></td>
<td>Alexandra-avenue—Increased use of</td>
<td>84</td>
</tr>
<tr>
<td>20</td>
<td>Mornington Peninsula Highway</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>Widening of High-street, St. Kilda and Point Nepean roads</td>
<td>86</td>
</tr>
<tr>
<td>21</td>
<td>Gardenvale to Heatherton and Keysborough Highway</td>
<td>88</td>
</tr>
<tr>
<td>22</td>
<td>Eastern Foreshore Highway</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>Relief of St. Kilda-street</td>
<td>89</td>
</tr>
<tr>
<td></td>
<td>Continuous Foreshore Drive</td>
<td>89</td>
</tr>
</tbody>
</table>

GENERAL MAIN ROADS SCHEME: RECOMMENDATIONS—

- Relative functions of various roads | 91
- Economic factors in road scheme | 91
- Tramline streets | 91
- Outer suburban connections | 91
- Relationship to railway level crossings | 92

MAIN ROADS IN MUNICIPALITIES OF—

- Williamstown, Werribee (part), Footscray, and Braybrook (part) | 93
- Keilor (part), Broadmeadows (part), Essendon, and Melbourne (part) | 94
- Broadmeadows (part), Coburg, Brunswick, Melbourne (part), Fitzroy, Collingwood, and Richmond | 96
- Preston, Coburg (part), Northcote, Heidelberg (part) | 100
- Heidelberg (part), Doncaster and Templestowe (part) | 101
- Kew, Hawthorn, Camberwell (part), Box Hill, Blackburn, and Mitcham, Malgrave (part) | 103
- Melbourne (part), Prahran, Malvern, Camberwell (part), St. Kilda (part), Brighton, Caulfield, Oakleigh (part), and Malgrave (part) | 106
- Brighton (part), Moorabbin, Dandenong (part), Sandringham, and Montsallo | 110
- Port Melbourne, South Melbourne, and St. Kilda (part) | 113

PARKWAYS—

- Their relationship to the Main Roads Scheme | 115

IMPORTANT FACTORS OF ROADS IMPROVEMENT SCHEME—

- Its possibilities; future savings; present accomplishments; estimates of costs not supplied for other than urgent works | 118

TRAFFIC CONTROL AND REGULATION—

- Uniformity; the right of way at intersections, p. 119
- Prohibition of turning traffic; dangerous curves, subways, &c.; slow and heavy traffic; one-way roads, p. 120
- Safety zones, p. 121
- Automatic traffic signals, p. 122
- Speed; passing stationary tramcars; loading and unloading of vehicles, p. 123
- Advertising vehicles and distractions; bells, horns, &c.; drivers’ licences, p. 124
- Pedestrian congestion in precincts of Flinders-street station; road crossing by pedestrians; wear of road surfaces, p. 125

ROAD AND INTERSECTION IMPROVEMENTS—

- Obstruction on footways, p. 126
- Grades; rounding of corners; gyratory movement at junctions, p. 127

RAILWAYS—

- Flinders-street—Prince’s Bridge Station | 129
- Northern City Railway | 130
- Darling to Glen Waverley Railway | 131
- Proposed Kew to Doncaster Railway | 132
- Port Melbourne and St. Kilda Lines | 134
- Fisherman’s Bend Railway Connections | 135
- Connexions with Live Stock Sale Yards, &c. | 136

RAILWAY LEVEL CROSSINGS—

- Financing abolition, p. 136
- Allocation of costs, p. 136
- Present policy; order of abolition, p. 137
- Amended legislation required, p. 137
- Heidelberg-road Level Crossing | 138

TRAMWAYS—

- Community services rendered; the tramcar as an economical unit, p. 139
- Tramways general scheme, p. 140

PORT AND HARBOUR FACILITIES—

- | 141

ONE TRANSPORT AUTHORITY—

- | 143
PART III

THE EXECUTION OF IMPROVEMENT SCHEMES—A PROGRAMME OF URGENT WORKS

NECESSITY FOR ADOPTION OF A PLAN OF DEVELOPMENT
Page No.
Classifications of Urgent Works
Estimated Costs—Urgent Works—Class “C”
Financing Metropolitan Works
Metropolitan contributions to State activities, p. 150. Metropolitan contributions by public authorities; betterment rating, p. 151
A Central Metropolitan Constructing Authority

PART IV

ZONING

DEFINITIONS AND GENERAL
An Analysis of Existing Conditions

Building Regulations—
Structural regulations; regulations governing size and location of buildings; public buildings
Height of Buildings
Comparisons with other cities

THE ZONING SCHEME
Residential Districts “A”, “B”, and “C”
Business Districts “A” and “B”
Industrial Districts “A”, “B”, and “C”
Non-conforming Uses
Alterations or Changes of Use

CONCLUSION

PART V

PUBLIC RECREATION

INTRODUCTORY REMARKS

THE PROPOSALS OF THE COMMISSION
Zoning and the park system
Conditions in each municipality examined
Statistical Statement

THE PARK SYSTEM
River Yarra Parks and Boulevard Improvement Scheme, p. 214. Yarra Lake Scheme, p. 215. Plenty River parkway, p. 217. Maribyrnong Valley parkway, p. 217. Rose Creek or Spring Gully park, p. 218. Gardiner’s Valley parkway, p. 219. Scotchman’s Creek parks; Back Creek parkway to Wattle Park, p. 220. The Kooenang Koonung Creek parks; Bushy Creek parks; Darebin Creek and parkways, p. 221. The Merri Creek parks and parkways, p. 222. Edgar’s Creek parks; Moonee Ponds Creek parks; Kororoit Creek park; Stony Creek park, p. 224. Eastern Foreshore roads and parks; Western Foreshore drive and parks, p. 225.

GENERAL OUTLINE OF THE PARK SYSTEM
Local parks and children’s playgrounds; park roads and drives, p. 225. Access through reserves, p. 225.

ALIENATION OF RESERVES

THE ACQUISITION OF PUBLIC OPEN SPACES

FINANCING THE ACQUISITION OF METROPOLITAN PARKS
Estimated cost of Metropolitan Park Scheme
Estimate of future requirements


THE ECONOMIC ASPECT

CONCLUSION
PART VI
PUBLIC UTILITIES

Water Supply
Reforestation of catchment areas
Main Drainage
Sewerage
Bacterial treatment; unsewered areas
Other Public Services
Gas, Electricity, Lighting, Telephones
Relationship to Zoning
The Costs of Public Services
Population densities—comparison with other cities

Page No.
237
238
238
239
239
240
240
241
241
242

PART VII
HOUSING AND LAND SUBDIVISION

Housing
Relationship of housing and town planning; cause of inferior housing conditions, p. 247. Existing legislation; encouragement of home ownership, p. 248. Prevailing housing conditions, p. 250.

Undesirable Housing Sites
The Maidstone Replanning Scheme

Housing Area and General Development of Fisherman's Bend
Williamstown Rifle Range Lands

LAND SUBDIVISIONS
Present practice; additional supervision &c.
Darling to Glen Waverley area; subdivisions in other areas, p. 256. The Brighton town planning scheme, p. 262. Uniformity in regulations, p. 263.

PART VIII
CIVIC ART AND AMENITIES

The Location of Prominent Buildings—
Existing conditions in this metropolis; relationship to town planning schemes
Improvements in Eastern Hill Area—Suggested "Parliament Square"
Haymarket Junction
Square at Princes Bridge
The National War Memorial
Treatment of River Yarra Banks between Queen's and Spencer-street (Batman) Bridges
Architectural Control
The Preservation of Amenities
Street beautification, p. 275. Prevention of unsightly street fixtures; cantilever or suspended verandahs, p. 276. Towers on high buildings; Spencer-street Railway Station; hoardings, signs, &c., p. 277.

PART IX
MISCELLANEON

Tree Planting and Cross-section of Geelong-road
Airport and Aerodromes
Street naming, numbering, etc.
Schemes submitted by Private Individuals
Roofing Jolliment Yards
Crown Lands Leases, etc.
Uniform Valuations
# PART X
## LEGISLATION

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Remarks—Need of Central Control</td>
<td>291</td>
</tr>
<tr>
<td>Outlines of a Town Planning Act of Victoria</td>
<td>292</td>
</tr>
<tr>
<td>Action Taken by Governments</td>
<td>297</td>
</tr>
<tr>
<td>Statement of Town Planning Legislation</td>
<td>298</td>
</tr>
<tr>
<td>Description of Legislation Recommended</td>
<td>300</td>
</tr>
<tr>
<td>Schemes Affecting More Than One Municipality</td>
<td>301</td>
</tr>
<tr>
<td>Regional and Joint Schemes</td>
<td>301</td>
</tr>
<tr>
<td>Local Government Act</td>
<td>304</td>
</tr>
<tr>
<td>Other Legislation</td>
<td>302</td>
</tr>
</tbody>
</table>

# PART XI
## CONCLUSION

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection of data</td>
<td>304</td>
</tr>
<tr>
<td>Municipal records; Uniform Scale of Plans</td>
<td>304</td>
</tr>
<tr>
<td>Minutes, Conferences, &amp;c.</td>
<td>304</td>
</tr>
<tr>
<td>Statement of Members' Attendances</td>
<td>305</td>
</tr>
<tr>
<td>Acknowledgements</td>
<td>305</td>
</tr>
<tr>
<td>Requests from Beyond Metropolis</td>
<td>306</td>
</tr>
<tr>
<td>Cost of Commission</td>
<td>306</td>
</tr>
<tr>
<td>Conclusion</td>
<td>307</td>
</tr>
<tr>
<td>Staff</td>
<td>308</td>
</tr>
</tbody>
</table>