

# 11 CHECKLISTS

## 11.1 Master Checklists – All Stages

### CHECKLIST 1 – FEASIBILITY STAGE AUDIT

#### 1.1 General topics

1. Scope of project; function; traffic mix
2. Type and degree of access to property and developments
3. Major generators of traffic
4. Staging requirements
5. Future works
6. Wider network effects

#### 1.2 Design issues (general)

1. Route choice
2. Impact of continuity with the existing network
3. Broad design standards
4. Design speed
5. Design volume and traffic characteristics

#### 1.3 Intersections

1. Number and type of intersections

#### 1.4 Environmental constraints

1. Safety aspects

#### 1.5 Any other matter

**CHECKLIST 2 – PRELIMINARY DESIGN STAGE AUDIT****2.1 General topics**

1. Changes since previous audit
2. Drainage
3. Climatic conditions
4. Landscaping
5. Services
6. Access to property and developments
7. Adjacent developments
8. Emergency vehicles and access
9. Future widening and/or realignments
10. Staging of the scheme
11. Staging of works
12. Maintenance

**2.2 Design issues (general)**

1. Design standards
2. Typical cross-sections
3. The effect of cross-sectional variation
4. Roadway layout
5. Shoulders and edge treatment
6. Effect of departures from standards or guidelines

**2.3 Alignment details**

1. Geometry of horizontal and vertical alignment
2. Visibility; sight distance
3. New/existing road interface
4. 'Readability' of the alignment by drivers

**2.4 Intersections**

1. Visibility to and at intersections
2. Layout, including the appropriateness of type
3. Readability by drivers

**2.5 Special road users**

1. Adjacent land
2. Pedestrians
3. Cyclists
4. Motorcyclists
5. Equestrians and stock
6. Freight
7. Public transport
8. Road maintenance vehicles

**2.6 Signs and lighting**

1. Lighting
2. Signs
3. Marking and delineation

**2.7 Traffic management**

1. Traffic flow and access restrictions
2. Overtaking and merges
3. Rest areas and stopping zones
4. Construction and operation

**2.8 Additional questions to be considered for development proposals**

1. Horizontal alignment
2. Vertical alignment
3. Parking provision
4. Servicing facilities
5. Signs and markings
6. Landscaping
7. Traffic management
8. Other

**2.9 Any other matters**

**CHECKLIST 3 – DETAILED DESIGN STAGE AUDIT****3.1 General topics**

1. Changes since previous audit
2. Drainage
3. Climatic conditions
4. Landscaping
5. Services
6. Access to property and developments
7. Emergencies, breakdowns, emergency and service vehicle access
8. Future widening and/or realignments
9. Staging of the scheme
10. Staging of the work
11. Adjacent developments
12. Stability of cut and fill
13. Skid resistance

**3.2 Design issues (general)**

1. Geometry of horizontal and vertical alignment
2. Typical cross-sections
3. Effect of cross-sectional variation
4. Roadway layout
5. Shoulders and edge treatment
6. Effect of departures from standards or guidelines
7. Visibility and sight distance
8. Environmental treatments

**3.3 Alignment details**

1. Visibility; sight distance
2. New/existing road interface
3. 'Readability' of the alignment by drivers
4. Detail of geometric design
5. Treatment at bridges and culverts

**3.4 Intersections**

1. Visibility to and visibility at Intersections
2. Layout
3. Readability by drivers

## 4. Detailed geometric design

5. Traffic signals
6. Roundabouts
7. Other intersections

**3.5 Special road users**

1. Adjacent land
2. Pedestrians
3. Cyclists
4. Motorcyclists
5. Equestrians and stock
6. Freight
7. Public transport
8. Road maintenance vehicles

**3.6 Lighting, signs and delineation**

1. Lighting
2. Signs
3. Marking and delineation

**3.7 Physical objects**

1. Median barriers
2. Poles and other obstructions
3. Crash barriers
4. Bridges, culverts and causeways/floodways

**3.8 Development proposals: additional questions**

1. Horizontal alignment
2. Vertical alignment
3. Parking provision
4. Servicing facilities
5. Signs and markings
6. Landscaping
7. Traffic management
8. Other

**3.9 Any other matters**

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**CHECKLIST 4 – PRE-OPENING STAGE AUDIT****4.1 General topics**

1. Changes since previous audit; translation of design into practice
2. Drainage
3. Climatic conditions
4. Landscaping
5. Services
6. Access to property and developments
7. Emergency vehicles and access
8. Batter treatment
9. Shoulders and edge delineation
10. Signs and markings
11. Surface treatment; skid resistance
12. Contrast with markings
13. Roadside hazards
14. Natural features
15. All road users
16. Speed zoning

**4.2 Alignment details**

1. Visibility; sight distances
2. New/existing road interface
3. Readability by drivers
4. Bridges and culverts

**4.3 Intersections**

1. Visibility of intersection
2. Visibility at intersection
3. Readability by drivers
4. Traffic signals
5. Roundabouts and approach islands

**4.4 Special road users**

1. Adjacent land
2. Pedestrians
3. Cyclists
4. Motorcyclists
5. Equestrians

**4.5 Lighting, signs and delineation**

1. Lighting
2. Signs
3. Marking and delineation

**4.6 Physical objects**

1. Median barriers
2. Poles and other obstructions
3. Crash barriers

**4.7 Operation**

1. Operation
2. Traffic management
3. Temporary traffic control/management
4. Safety matters not already covered

**CHECKLIST 5 – ROADWORK TRAFFIC SCHEME AUDIT****5.1 General items**

1. Alignment
2. Turning radii and tapers
3. Traffic lane safety and visibility
4. Night-time safety
5. Maintenance
6. Access to property
7. Safety barriers
8. Inspections

**5.2 Traffic management**

1. Traffic controls
2. Speed management
3. Work site access

**5.3 Signs and pavement markings**

1. Signs
2. Day/night sign requirements
3. Traffic control
4. Delineation and reflective markers
5. Pavement marking
6. Detours

**5.4 Traffic Signals**

1. Temporary traffic signals
2. Location
3. Visibility
4. Signal display
5. Traffic movements

**5.5 Pedestrians and cyclists**

1. General
2. Elderly and disabled access
3. Cyclists

**5.6 Road pavement**

1. Pavement defects
2. Skid resistance
3. Ponding

**CHECKLIST 6 – EXISTING ROADS: ROAD SAFETY AUDIT****6.1 Road alignment and cross-section**

1. Visibility; sight distance
2. Design speed
3. Speed limit/speed zoning
4. Overtaking
5. Readability by drivers
6. Widths
7. Shoulders
8. Crossfalls
9. Batter slopes
10. Drains

**6.2 Auxiliary lanes**

1. Tapers
2. Shoulders
3. Signs and markings
4. Turning traffic

**6.3 Intersections**

1. Location
2. Visibility; sight distance
3. Controls and delineation
4. Layout
5. Miscellaneous

**6.4 Signs and lighting**

1. Lighting
2. General sign issues
3. Sign legibility
4. Sign supports

**6.5 Markings and delineation**

1. General issues
2. Centrelines, edgelines, lane lines
3. Guideposts and reflectors
4. Curve warning and delineation

**6.6 Crash barriers and clear zones**

1. Clear zones
2. Crash barriers
3. End treatments
4. Fences
5. Visibility of barriers and fences

**6.7 Traffic signals**

1. Operations
2. Visibility

**6.8 Pedestrians and cyclists**

1. General issues
2. Pedestrians
3. Cyclists
4. Public transport

**6.9 Bridges and culverts**

1. Design features
2. Crash barriers
3. Miscellaneous

**6.10 Pavement**

1. Pavement defects
2. Skid resistance
3. Ponding
4. Loose stones/material

**6.11 Parking**

1. General issues

**6.12 Provision for heavy vehicles**

1. Design issues
2. Pavements/shoulder quality

**6.13 Floodways and causeways**

1. Ponding, flooding
2. Safety of devices

**6.14 Miscellaneous**

1. Landscaping
2. Temporary works
3. Headlight glare
4. Roadside activities
5. Errant vehicles
6. Other safety issues
7. Rest areas
8. Animals