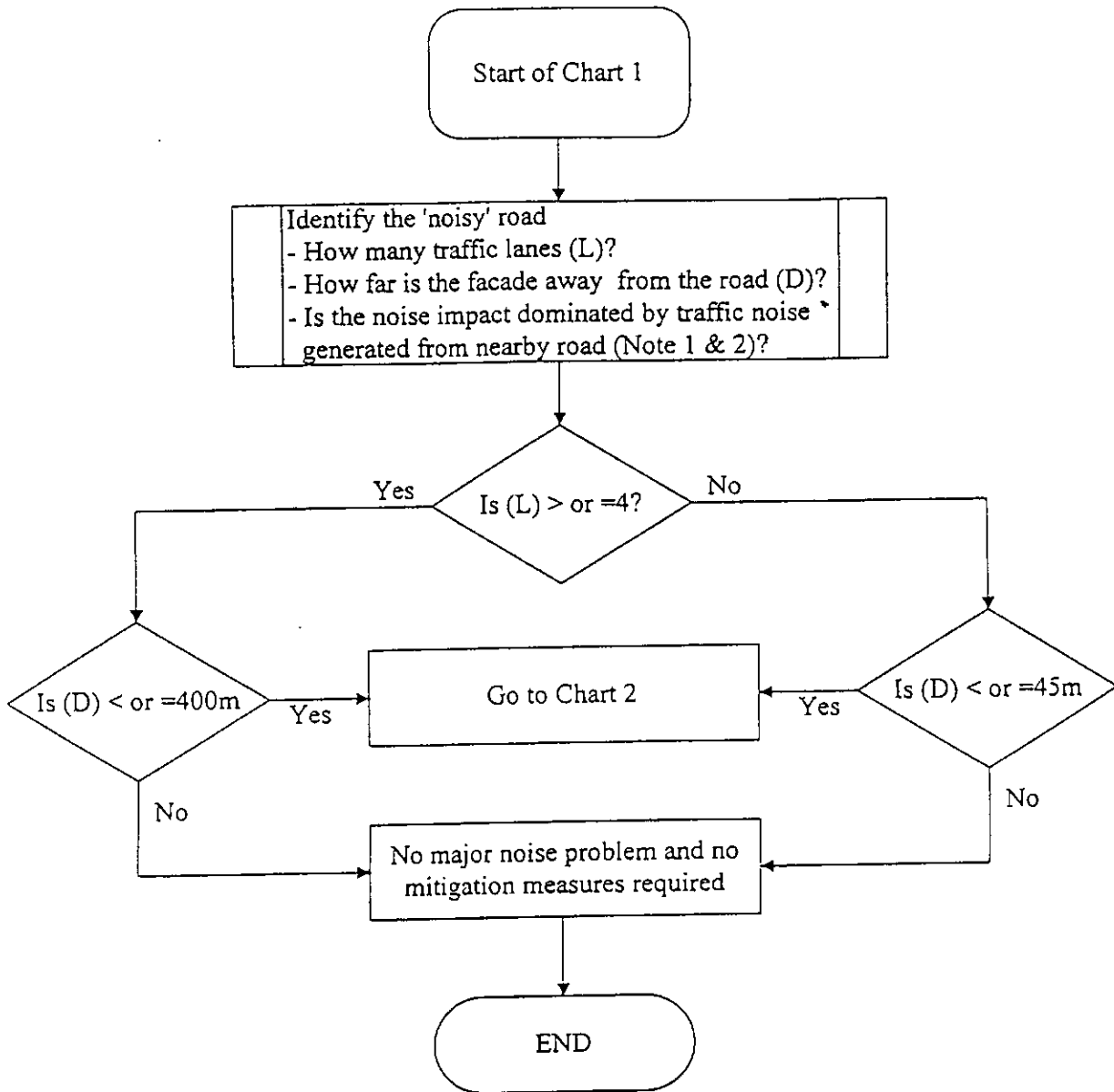


## **APPENDIX IV**

### **Working tools developed for reviewing of flyovers**

Chart 1 - Identification of Problems



Note 1: If the noise impact is dominated by traffic noise generated from other roads i.e. roads other than the one under investigation, no practical scheme should be provided for the road under investigation.

Note 2: Noise impacts from other roads are considered predominant if the following conditions apply:

- (a) Case 1: Other road has more or equal number of traffic lanes  
The road is 50% closer to the receiver than the road under investigation, while the angle of view of the road is no less than 50%.
- (b) Case 2: Other road has 50% lesser number of traffic lanes  
The road is more than 80% closer to the receiver while the angle of view of the road is similar.

M15698/chart1.vsd

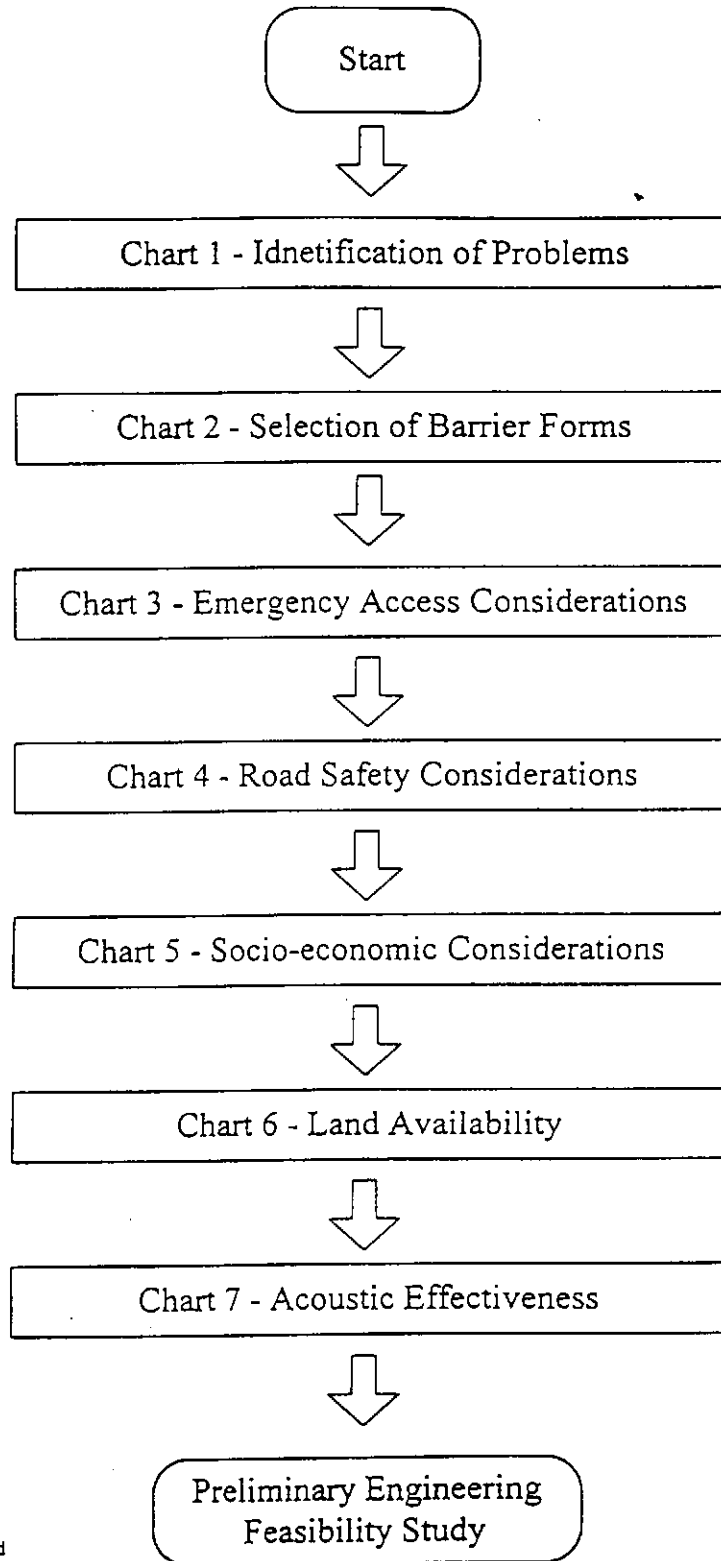
**Maunsell**

TITLE  
Chart 1 - Identification of Problems

MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

PROJECT NO	M15698	DATE	Dec. 1998
DESIGNED/ CHECKED	Wendy Tao	DRAWING NO	Figure 2.2

## Simplified Assessment Procedures



M15698\simply.vsd

**Maunsell**

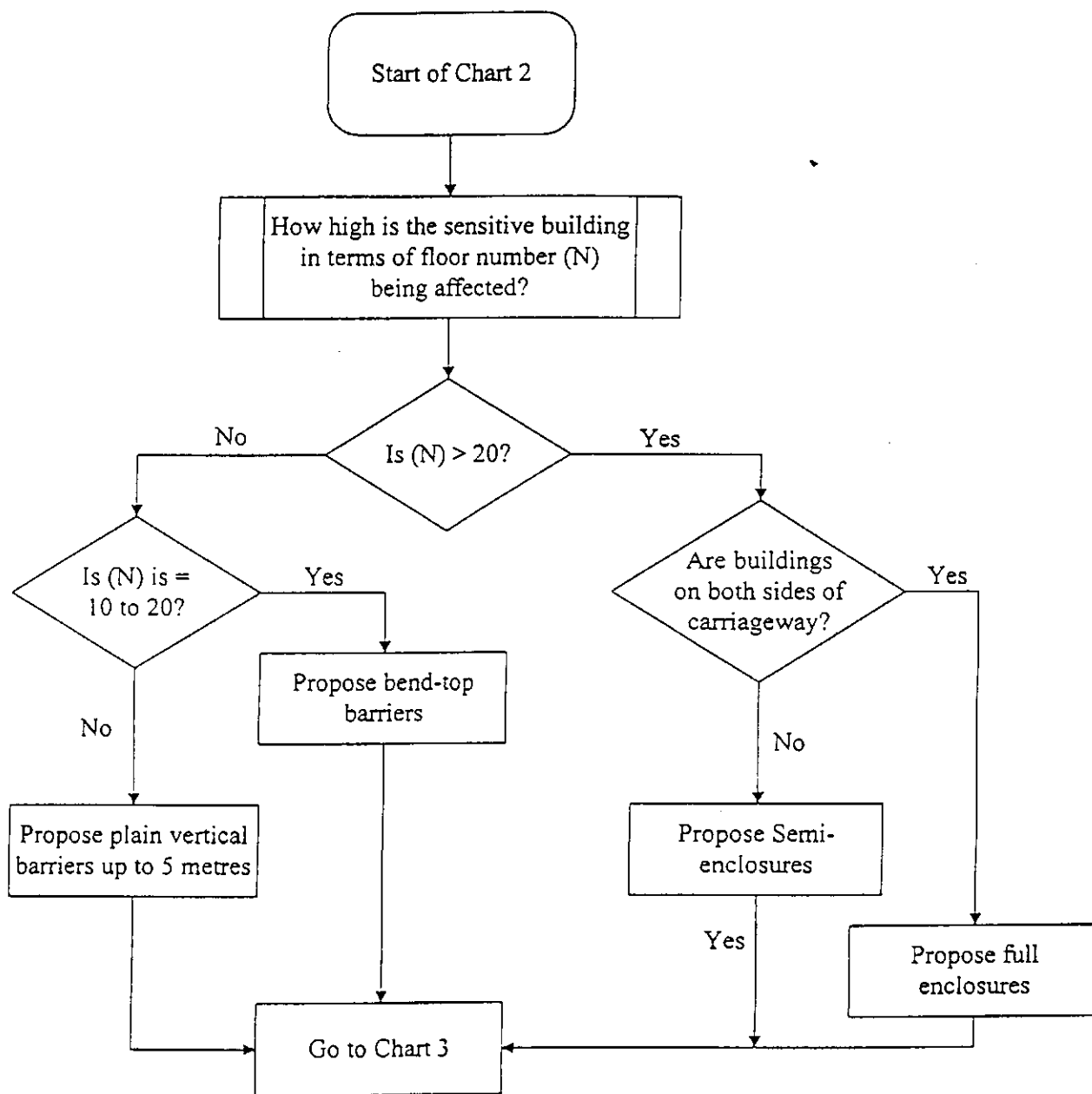
TITLE

Simplified Assessment Procedures

MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

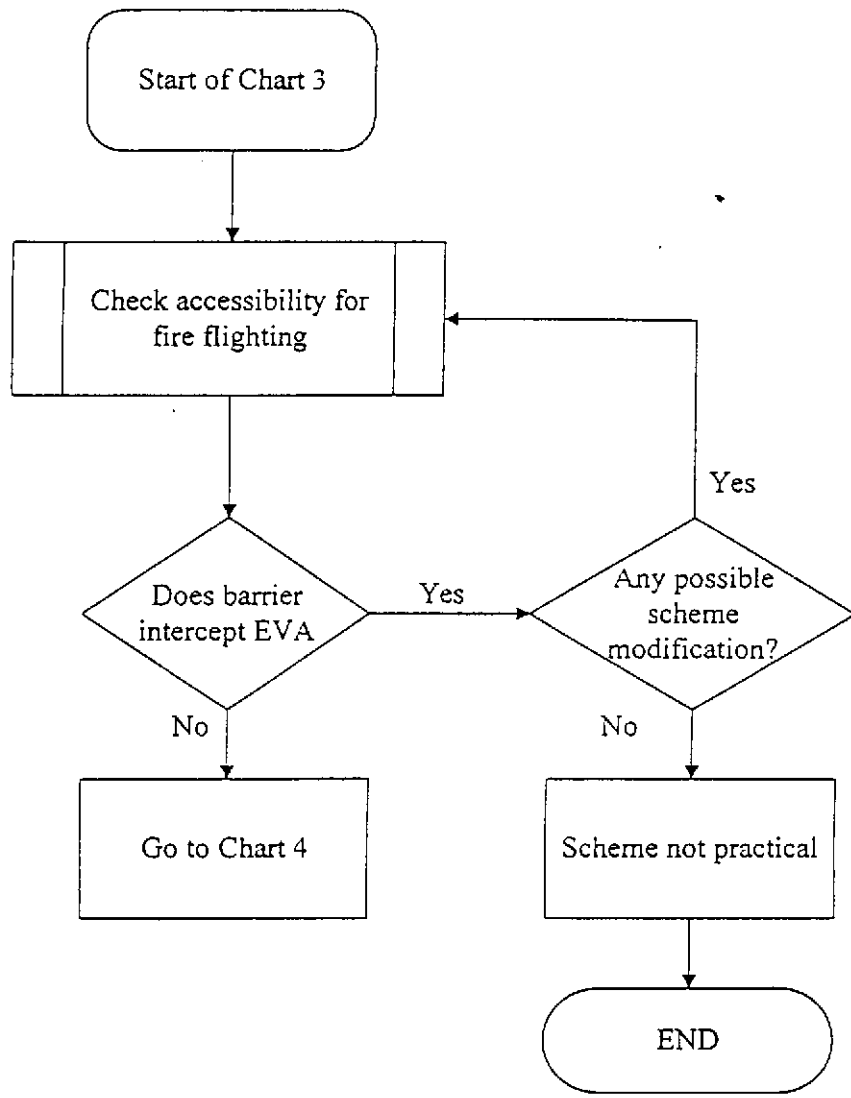
PROJECT NO	M15698	DATE	Dec. 1998
DESIGNED/ CHECKED	Wendy Tao	DRAWING NO	Figure 2.1

Chart 2 - Selection of Barrier Forms



M15698/chart2.vsd

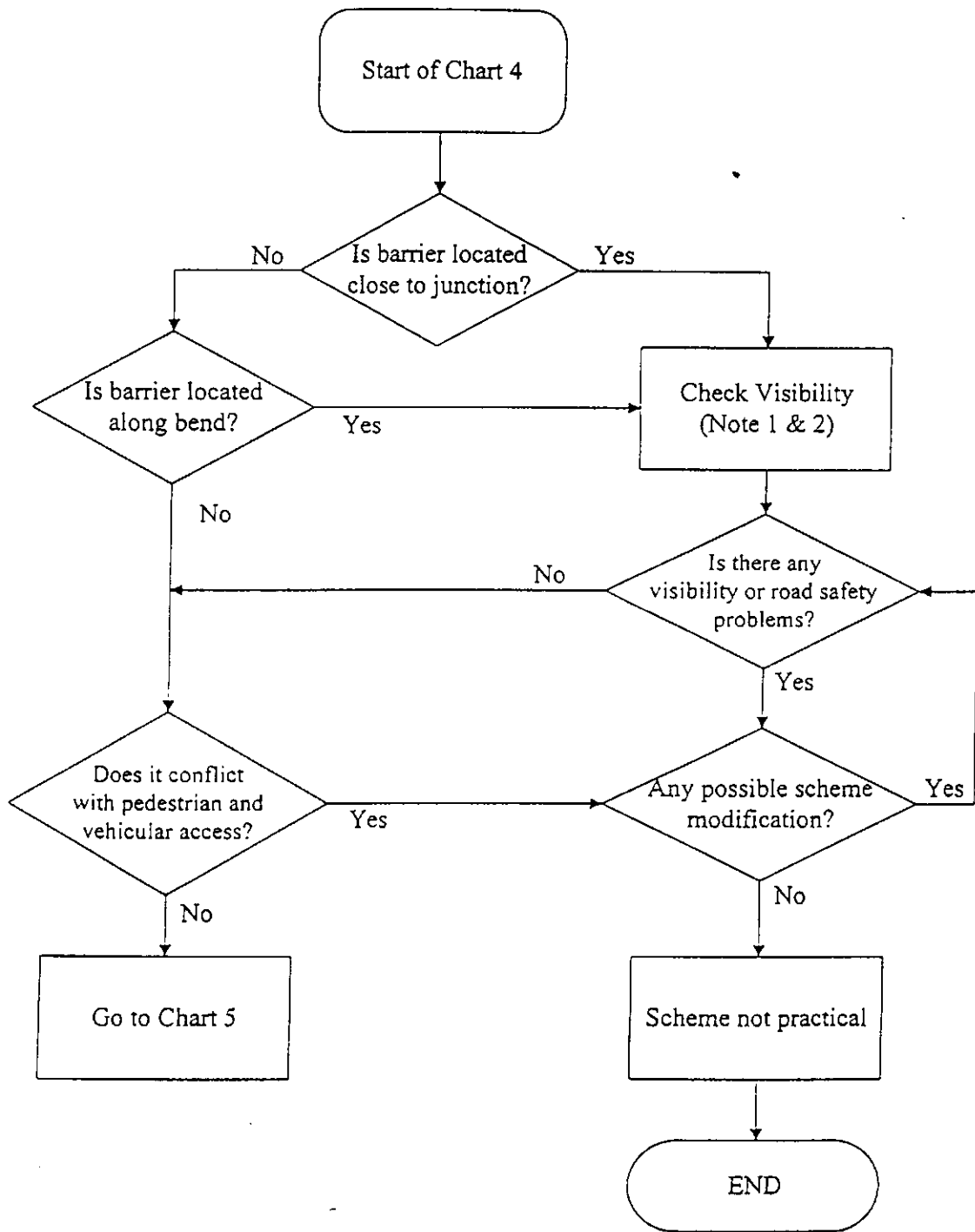
### Chart 3 - Emergency Access Considerations



M15698/chart3.vsd

<b>Maunsell</b>	TITLE	MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD			
	Chart 3 - Emergency Access Considerations	PROJECT NO	M15698	DATE	Dec. 1998
		DESIGNED CHECKED	Wendy Tao	DRAWING NO	Figure 2.4

Chart 4 - Road Safety Considerations



Note 1: See Figures 9 to 13 for sightline requirements.

Note 2: It is considered impracticable to install barriers within 15m of the "Give Way" line of a roundabout.

M15698/chart4.vsd

**Maunsell**

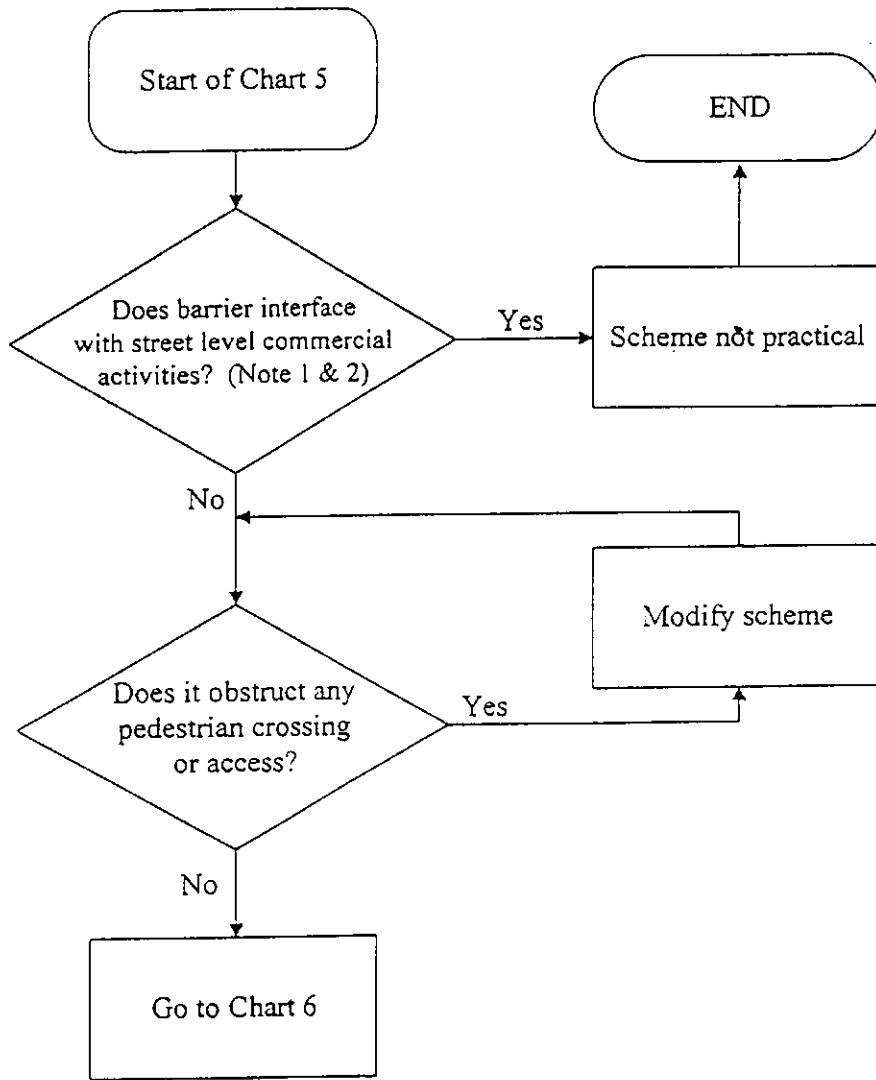
TITLE

Chart 4 - Road Safety Considerations

MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

PROJECT NO	M15698	DATE	Dec. 1998
DESIGNED CHECKED	Wendy Tao	DRAWING NO	Figure 2.5

## Chart 5 - Socio-economic Considerations



Note 1: Street level commercial activities include all shops, restaurant, cinemas, etc.

Note 2: Street level commercial activities are considered to be seriously interfered when the clearance between the affected shops, restaurant, cinemas, etc and the identified barrier is less than 10 metres.

M15698/chart5.vsd

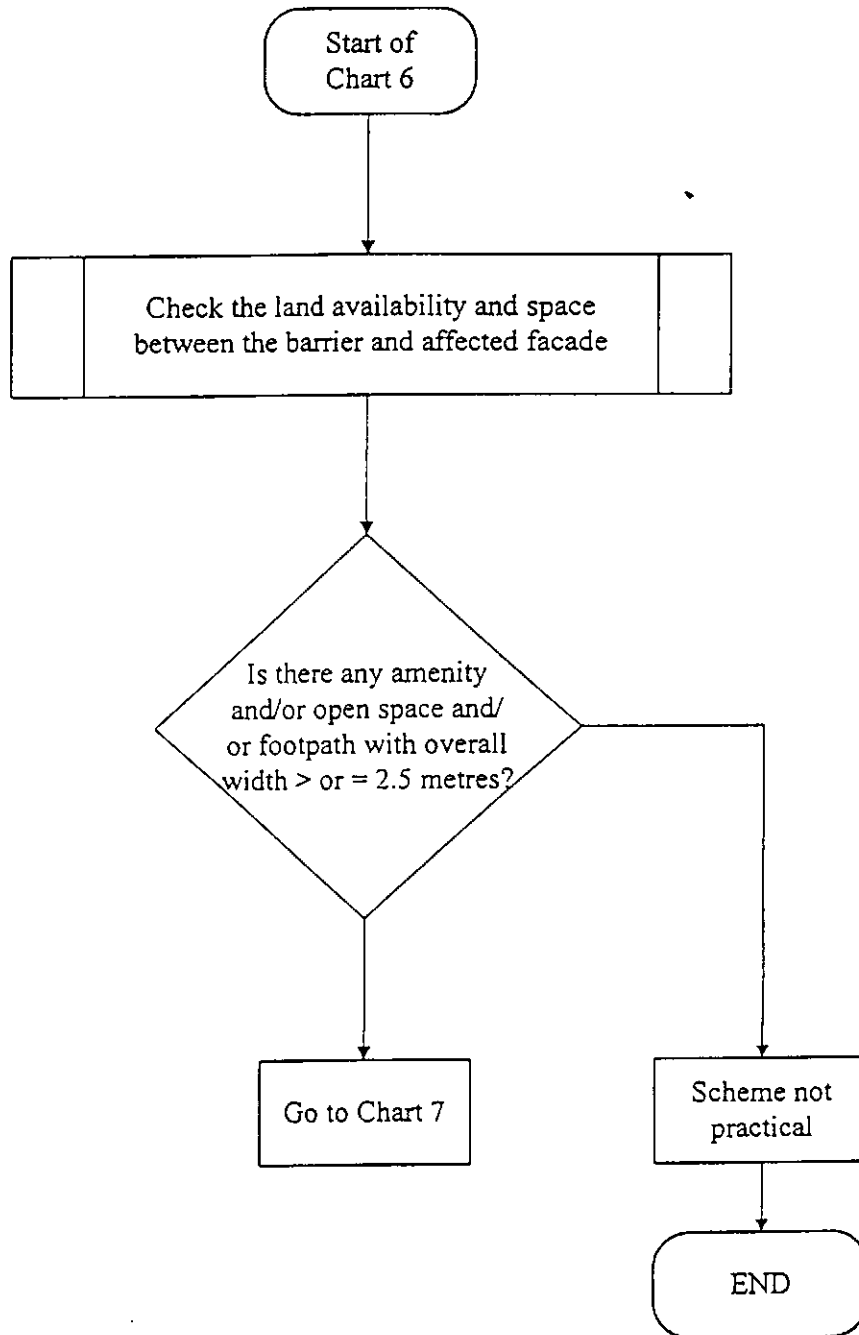
**Maunsell**

TITLE  
Chart 5 - Socio-economic Considerations

MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

PROJECT NO	M15698	DATE	Dec. 1998
DESIGNED/ CHECKED	Wendy Tao	DRAWING NO	Figure 2.6

## Chart 6 - Land Availability



M15698\land.vsd

**Maunsell**

TITLE

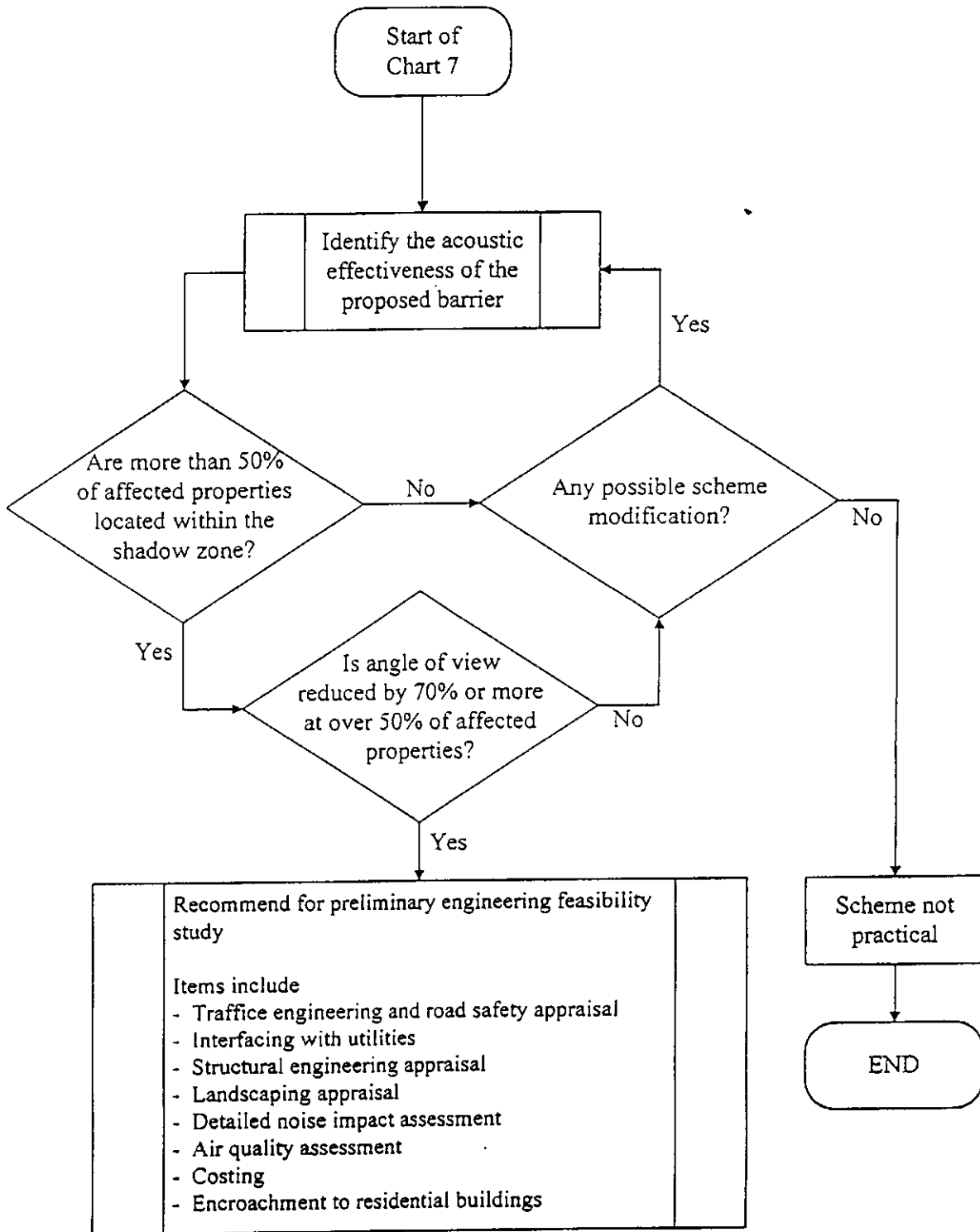
Chart 6 - Land Availability

MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

PROJECT NO	M15698	DATE	Dec. 1998
DESIGNED/CHECKED	Wendy Tao	DRAWING NO	Figure 2.7



Chart 7 - Acoustic Effectiveness



M15698\acoustic.vsd

**Maunsell**

TITLE

Chart 7 - Acoustic Effectiveness

MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

PROJECT NO	M15698	DATE	Dec. 1998
DESIGNED CHECKED	Wendy Tao	DRAWING NO	Figure 2.8