



PROFESSIONAL APPROACH, INNOVATIVE SOLUTIONS

- Road Restraint Systems - Traffic Management -
- Civil Engineering - Passive Solutions -
- Noise and Environmental Barriers - Protective Coatings -

IMPORTANT NOTICE
The Road Restraint design is the responsibility of the Designer; the RRRAP tool is an integral part of the design process which assists the Designer in determining at each specific site the need for VRS and its performance requirements.
Users of this program take full responsibility for verifying the data entered into this program and only using

Record Information

Record Name: Ellen Road Farm, Rochdale
Project Name: Ellen Road Farm, Rochdale
Record Description:

Record Status: Live
Record Last Updated: 12-Jan-2025 09:51:26
RRRAP Version Number: 3.3
RRRAP Issue Date: 31-Mar-2022

Common Details

Basic Details

Project Id or Pin

Highway Authority

Designer Reference

Contract Type

Contract Sub Type

Region

Country

Reason for Design

New Section of Road	No
Widening existing carriageway	No
Upgrade/improvement to existing carriageway	No
Downgrade existing carriageway	No
Replacement of existing restraint	No
New restraint on existing road	No
Temporary Works	No
Road furniture/ equipment improvement	No
Assess existing parapet	No
Other	This RRRAP has been developed as a requirement to support a planning application for a proposed Battery Energy Storage

Section Details

Road Classification	Motorway
Road Number	M62
Road Name	M62
Road Sub Type	D3M
Road Location	Mix
To Current Geometric Standards	Yes

From Junction Name	To Junction Name
From Junction No	To Junction No
From Marker Post	To Marker Post
From Section Label	To Section Label
From Chainage of section(m)	To Chainage of section(m)
0.0	200.0
Section/Direction being assessed	Southwest bound
Nearside or Offside Verge being assessed?	N/S Verge
Does road have full-width (i.e. to standard) near side hardshoulder or hardstrip?	Hard strip/shoulder 0.6m to 3m
Are Environmental considerations likely to influence provision?	No

Traffic Info

Permanent Speed Limit (mph)	70
Temporary Mandatory Speed Limit (HSR)	N/A
AADT (2-way unless motorway link or slip)	110000
Large Vehicles (%)	11.5
Medium Vehicles (%)	14.6
Model accident frequency (Nearside)	0.267
Model accident frequency (Offside)	

Scheme Duration and Barrier Costs

Start Year	2025
Use Default VRS Lifetime (20 years)?	Yes
Use the default Discount (i.e. inflation) Rate of 7.0% over the VRS lifetime?	Yes
Use default safety barrier and parapet costs?	Yes

600 Earthworks

ID	Earthworks Profile		Start Chainage	Offset from PSb	Overall Width	
0600.0001	Rising at 92.9%		0.0	4.0	7.0	
Overall Height	Ave slope gradient	Local Alignment	Speed		Sleep	Other Features
6.5	92.9	Good alignment	Mean speed approximately equal to speed limit		A	X
Typical surface of		Typical location of Highway		Length		Aggressiveness
Long grass / scrub		Within width of slope		200.0		0.25
Topography Factor	MF for runoff rate	Is risk without VRS acceptable	Level of risk with optimum length VRS		Min Length Advance	Min Length Beyond
1.0	0.91	Yes				
Barrier Containment	VRS Class	VRS WW	Setback VRS	Cost Option	Relaxation / Departure	
				0.0	None	
Comment						

ID	Earthworks Profile		Start Chainage	Offset from PSb	Overall Width	
0600.0002	Rising at 92.9%		200.0	4.0	7.0	
Overall Height	Ave slope gradient	Local Alignment	Speed		Sleep	Other Features
6.5	92.9	Good alignment	Mean speed approximately equal to speed limit		A	X
Typical surface of		Typical location of Highway		Length	Aggressiveness	
Long grass / scrub		Within width of slope		End Earthwork for Section.	0.25	

1100 Kerbs and Edge of Pavement Details

ID	Nature	Start Chainage
1100.0001	Kerb 100mm high or less	0.0
Comment		

ID	Nature	Start Chainage
1100.0002	Kerb 100mm high or less	200.0
Comment		

Hardshoulder / hardstrip width & Verge width details

Chainage	Width of Verge	Width of adjacent Hardstrip A	Carriageway width from Psb	Total nearside runoff distance	Total offside runoff distance
0.0	4.0	3.0	0.0	3.0	
Comment					

Chainage	Width of Verge	Width of adjacent Hardstrip A	Carriageway width from Psb	Total nearside runoff distance	Total offside runoff distance
200.0	4.0	3.0	0.0	3.0	
Comment					

Chemical or fuel installation

ID	Nature		Start Chainage	Length	Width	Offset from PSb
8000.0001	Fuel		100.0	70.0	0.3	30.0
Description of vulnerable		Aggressiveness	Local Alignment	Speed	Sleep	
Fence		0.7	Good alignment	Mean speed approximately equal to speed limit	A	
Other Features	MF for runoff rate	Likelihood of reaching other hazard	Topography Factor	Average Number of People exposed to risk	Average time each person is exposed to risk (hours per	
X	0.91	Fairly unlikely	0.25	5	460	
Total Number of people at risk	Other Consequences Multiplicative factor		Is risk without VRS acceptable	Level of risk with optimum length VRS	Min Length Advance	
0.26	1		Yes			
Min Length Beyond	Barrier Containment	VRS Class	VRS WW	Setback VRS	Cost Option	Relaxation / Departure required?
					0.0	None
Comment						

End