



Structural Calculation Details

Signs:

Reference: 670 40mph (T)
Width: 600mm, Height: 600mm
Shape: Roundel
Orientation: Facing front
Mounted on posts: 1
Mounting height: 1500mm, at post

Reference: 670 30mph (T)
Width: 600mm, Height: 600mm
Shape: Roundel
Orientation: Facing back
Mounted on posts: 1
Mounting height: 1500mm, at post

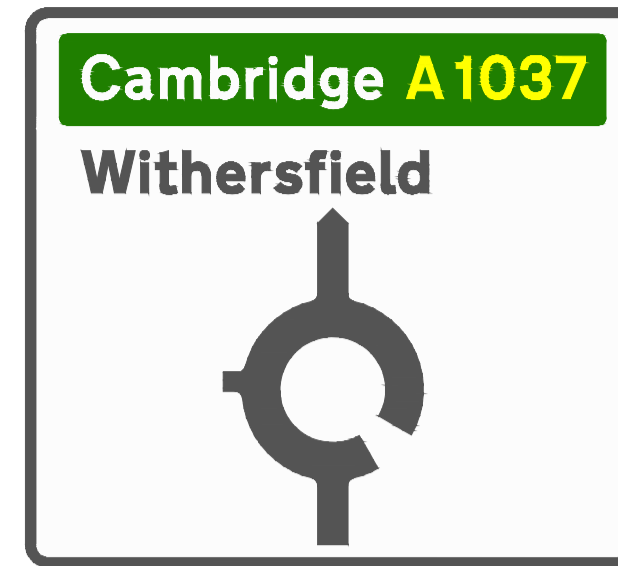
Posts:

Quantity: 1
Type: 76.1 x 3.2 CHS
Spacing: N/A
Post 1 Length: 3000mm

Base:

Type: Combined
Width: 800mm
Length: 800mm
Depth: 800mm
Volume: 0.51cu.m
Earth cover: 100mm
Blinding layer: 150mm

Sign Reference	Width (mm)	Height (mm)	Area (m ²)	Background	Border	White	Red
670 40mph (T)	600	600	0.28	White	Red	Black	Black



Structural Calculation Details

Signs:

Reference: ADS 01, 03
Width: 2540mm, Height: 2315mm
Shape: Rectangle
Orientation: Facing front
Mounted on posts: 1, 2
Mounting height: 1800mm, at post

Posts:

Quantity: 2
Type: Lattix 4420
Spacing: 2240mm
Post 1 Length: 4215mm
Post 2 Length: 4215mm

Base:

Type: Combined
Width: 3090mm
Length: 2450mm
Depth: 700mm
Volume: 5.30cu.m
Earth cover: 100mm
Blinding layer: 150mm

Sign Reference	Width (mm)	Height (mm)	Area (m ²)	Background	Border	White	Black
ADS 01 & 03	2540	2315	5.88	White	Black	Black	Black

RRS Specification Parameters		
Parapet (Bridge)		
On a new bridge or structure (including accommodation bridge), that is carrying a road that is not over or adjacent to a railway.	N1 Minimum (Containment Class)	Should the bridge engineer identify
Safety Barrier (All other required locations)		
Containment Class	N1 (Normal Containment Class)	
Impact Severity	Class A	
Working Width	W3, W2 or W1	
Set back	Nearside (1 metre minimum)	
Minimum Lengths	30m in advance of hazard, 7.5m beyond hazard	
Terminals	P1 (Minimum)	
Transitions	Must meet requirements of TD 19 Chapter 6 (in full).	
Visibility	Proposed visibility splays must be maintained.	

Structural Calculation Details

Signs:

Reference: 670 40mph (R)
Width: 300mm, Height: 300mm
Shape: Roundel
Orientation: Facing front
Mounted on posts: 1
Mounting height: 1500mm, at post

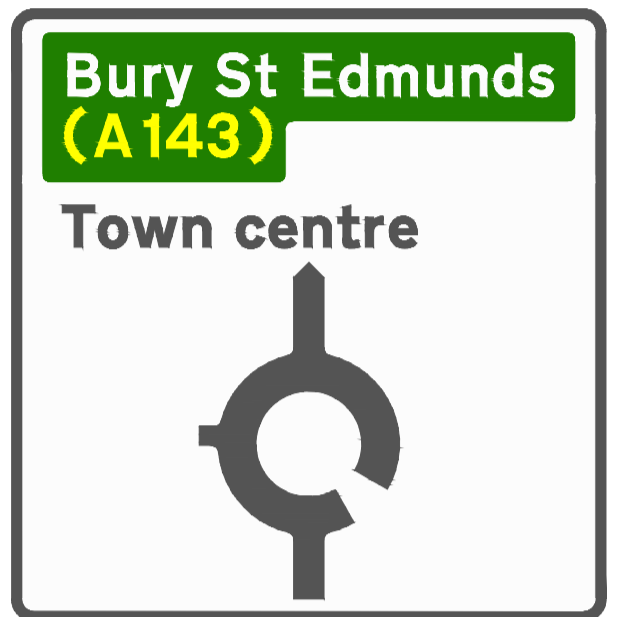
Posts:

Quantity: 1
Type: 76.1 x 3.2 CHS
Spacing: N/A
Post 1 Length: 2600mm

Base:

Type: Combined
Width: 700mm
Length: 700mm
Depth: 700mm
Volume: 0.34cu.m
Earth cover: 100mm
Blinding layer: 150mm

Sign Reference	Width (mm)	Height (mm)	Area (m ²)	Background	Border	White	Red
670 40mph (R)	300	300	0.07	White	Red	Red	Red



Structural Calculation Details

Signs:

Reference: ADS 02
Width: 2460mm, Height: 2530mm
Shape: Rectangle
Orientation: Facing front
Mounted on posts: 1, 2
Mounting height: 1800mm, at post

Posts:

Quantity: 2
Type: Lattix 4420
Spacing: 1900mm
Post 1 Length: 4430mm
Post 2 Length: 4430mm

Base:

Type: Combined
Width: 2700mm
Length: 2500mm
Depth: 900mm
Volume: 6.08cu.m
Earth cover: 100mm
Blinding layer: 150mm

Sign Reference	Width (mm)	Height (mm)	Area (m ²)	Background	Border	White	Black
ADS 02	2460	2530	6.22	White	Black	Black	Black



Structural Calculation Details

Signs:

Reference: 606
Width: 750mm, Height: 750mm
Shape: Roundel
Orientation: Facing front
Mounted on posts: 1
Mounting height: 1600mm, at post

Posts:

Quantity: 1
Type: 76.1 x 3.2 CHS
Spacing: N/A
Post 1 Length: 3350mm

Base:

Type: Combined
Width: 900mm
Length: 900mm
Depth: 900mm
Volume: 0.73cu.m
Earth cover: 100mm
Blinding layer: 150mm

Sign Reference	Width (mm)	Height (mm)	Area (m ²)	Background	Border	Blue	White
606	750	750	0.44	Blue	White	White	White



Structural Calculation Details

Signs:

Reference: 515
Width: 1800mm, Height: 400mm
Shape: Rectangle
Orientation: Facing front
Mounted on posts: 1, 2
Mounting height: 1000mm, at post

Posts:

Quantity: 2
Type: 76.1 x 3.2 CHS
Spacing: 1500mm
Post 1 Length: 2200mm
Post 2 Length: 2200mm

Base:

Type: Combined
Width: 2500mm
Length: 1000mm
Depth: 700mm
Volume: 1.75cu.m
Earth cover: 100mm
Blinding layer: 150mm

Sign Reference	Width (mm)	Height (mm)	Area (m ²)	Background	Border	White	Black
515	1800	400	0.72	White	Black	Black	Black

Sign Reference	Quantity	x Height	Plate Material	Width (mm)	Height (mm)	Background Colour	Border Colour	Legend Colour	Mounting height	Post quantity	Post type	Post spacing	Post 1 length	Post 2 length	Base width	Base length	Base depth	Base volume	Earth cover	Blinding layer
ADS 01 & 03	1	125	Class RA2	2540	2315	White	Black	Varies	1800	2	Lattix 4420	2240	4215	4215	3090	2450	700	5.3	100	150
ADS 02	1	125	Class RA2	2460	2530	White	Black	Varies	1800	2	Lattix 4420	1900	4430	4430	2700	2500	900	6.08	100	150
606	3	100	Class RA2	750	750	Blue	White	White	1600	1	76.1 x 3.2 CHS	N/A	3350	N/A			900	0.73	100	150
515	3	100	Class RA2	1800	400	White	N/A	Black	1000	2	76.1 x 3.2 CHS	1500	2200	2200	2500	1000	700	1.4	100	150
670 40mph (R)	4	100	Class RA2	300	300	White	Red	Black	1500	1	76.1 x 3.2 CHS	N/A	2600	N/A	800	800	700	0.34	100	150
670 40mph / 30mph (T)*	6	100	Class RA2	600	600	White	Red	Black	1500	1	76.1 x 3.2 CHS	N/A	3000	N/A	800	800	800	0.51	100	150

- *NOTE SIGN PLATES TO BE MOUNTED BACK TO BACK (12 REQUIRED IN TOTAL)
- NOTES:
- 1) ALL SIGN FOUNDATIONS TO BE CONFIRMED BY SIGN MANUFACTURER PRIOR TO COMMENCING ON SITE.
 - 2) LATTIX POSTS TO BE INSTALLED WITH ANCHOR CRADLE IN ACCORDANCE WITH POST SUPPLIERS DETAILS.

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S, ARCHITECT'S AND SPECIALIST'S DRAWINGS AND THE SPECIFICATION.
2. DO NOT SCALE FROM THIS DRAWING MANUALLY OR ELECTRONICALLY. WRITTEN PERMISSION MUST BE OBTAINED FROM MLM PRIOR TO SCALING ELECTRONICALLY OR USING THIS ELECTRONIC FILE.
3. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS, EUROPEAN NORMS, CODES OF PRACTICE AND BUILDING PRACTICE.
4. ALL DIMENSIONS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO STARTING THE WORKS ON SITE. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
5. FOR CIVIL & STRUCTURAL HEALTH & SAFETY HAZARDS PLEASE REFER TO DESIGNERS RISK ASSESSMENTS.
6. IF YOU DO NOT UNDERSTAND FULLY ANY OF THE DETAILS SHOWN ON THIS DRAWING CONTACT THE ENGINEER FOR CLARIFICATION.
7. ALL TRAFFIC SIGNS AND ROAD MARKINGS REFERENCES REFER TO THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS.
8. UNLESS NOTED OTHERWISE ALL ROADMARKINGS SHALL BE IN WHITE REFLECTORISED THERMOPLASTIC SCREED WITH APPLIED GLASS BEADS.
9. ALL TRAFFIC SIGNS AND OTHER STREET FURNITURE SHALL HAVE A MINIMUM CLEARANCE OF 450mm FROM FACE OF KERB.
10. STREET FURNITURE MUST NOT OBSTRUCT FOOTWAYS, A CLEAR WIDTH OF AT LEAST 1500mm MUST BE MAINTAINED.
11. SIGN LOCATIONS ARE APPROXIMATE ONLY, EXACT LOCATIONS TO BE AGREED ON SITE WITH THE HIGHWAY AUTHORITY.
12. EXISTING VEGETATION IN THE VICINITY OF PROPOSED/EXISTING SIGNS IS TO BE CUT BACK TO ENSURE SIGNS ARE CLEARLY VISIBLE.
13. CONTRACTOR IS TO ENSURE THAT NEW ROAD MARKINGS TIE INTO EXISTING MARKINGS IN A MANNER ACCEPTABLE TO HIGHWAYS. ALL REDUNDANT MARKINGS ARE TO BE REMOVED TO THE SATISFACTION OF HIGHWAYS.
14. ALL SIGNS HAVE BEEN DESIGNED BASED ON AN 'AVERAGE' SOIL BEARING CAPACITY OF 180kPa. ALL GROUND CONDITIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO CONTACT THE ENGINEER SHOULD THE BEARING CAPACITY AT THE FOUNDATION FORMATION LEVEL BE LESS THAN 180kPa.
15. THE STREET LIGHTING DESIGN AND APPROVALS ARE THE RESPONSIBILITY OF SUFFOLK COUNTY COUNCIL.

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015

DESIGNERS HAZARD INFORMATION FOR CONSTRUCTION

1. IF YOU DO NOT FULLY UNDERSTAND THE RISKS INVOLVED DURING THE CONSTRUCTION OF THE ITEMS INDICATED ON THIS DRAWING ASK YOUR MANAGER, HEALTH & SAFETY ADVISOR OR A MEMBER OF THE DESIGN TEAM BEFORE PROCEEDING.
2. WORKS ADJACENT TO LIVE PUBLIC HIGHWAY.
3. DEEP EXCAVATIONS.
4. WORKING NEAR OPEN WATER.
5. EXISTING SERVICES.

THE ABOVE NOTES REFER SPECIFICALLY TO THE INFORMATION SHOWN ON THIS DRAWING.
REFER TO THE HEALTH AND SAFETY PLAN FOR FURTHER INFORMATION.

T01	06.09.2019	STATUS AMENDED	DS	DK	DK
P01	09.03.18	FIRST ISSUE	LB	DK	DK
REV	DATE	REVISION	MADE	CHK	APP

TENDER

SUITABILITY DESCRIPTION
SUITABLE FOR INFORMATION

Connect 38,
1 Dover Place, Ashford,
Kent, TN23 1FB
Tel: 01233 610530
Website: www.mlmgroupp.com

Part of Sweco

CLIENT

PROJECT
NORTHWEST HAVERHILL RELIEF ROAD

DRAWING TITLE
SIGN DETAILS, SCHEDULE AND ROAD RESTRAINT DETAILS

DRAWN/DESIGN	LB	MLM REF	STATUS	REVISION		
SCALE	1:500 @A1	619132	S2	T01		
PROJECT	ORIGINATOR	VOLUME/ SYSTEM	LEVELS & LOCATIONS	TYPE	ROLE	NUMBER
619132- MLM - ZZ - XX - DR - C - 0055						

