<table>
<thead>
<tr>
<th>TITLE</th>
<th>SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARRIERGUARD 800 - INDEX</td>
<td>1</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - GENERAL NOTES</td>
<td>2</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - LENGTH OF NEED REQUIRED</td>
<td>3</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - STANDARD SYSTEM</td>
<td>4</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - LOW DEFLECTION SYSTEM (LDS)</td>
<td>5</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - MINIMUM DEFLECTION SYSTEM (MDS)</td>
<td>6</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - MINIMUM DEFLECTION SYSTEM (SINGLE SIDED ANCHORING)</td>
<td>7</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - COMPONENTS 1</td>
<td>8</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - COMPONENTS 2</td>
<td>9</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - 5 DEGREE SLOTTED BOLTED JOINT</td>
<td>10</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - EXPANSION SLOTTED BOLTED JOINT</td>
<td>11</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - ANCHORING COMPONENTS</td>
<td>12</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - ANCHORING DETAIL (DRIVEN STAKES)</td>
<td>13</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - ANCHORING DETAIL (RESIN/MECHANICAL ANCHORS)</td>
<td>14</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - DEFLECTION</td>
<td>15</td>
</tr>
<tr>
<td>BARRIERGUARD 800 TO CONCRETE BARRIER CONNECTION</td>
<td>16</td>
</tr>
<tr>
<td>INSTALLATION OF TAU II CRASH CUSHION</td>
<td>17</td>
</tr>
<tr>
<td>BARRIERGUARD 800 TO TYPE K PORTABLE CONCRETE BARRIER CONNECTION</td>
<td>18</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - STANDARD SYSTEM</td>
<td>19</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - LOW DEFLECTION SYSTEM</td>
<td>20</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - MDS WITH VARIABLE LENGTH BARRIER (VLB) FOR APPLICATIONS WITH EXISTING EXPANSION JOINT</td>
<td>21</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - STANDARD SYSTEM (ROADSIDE NEXT TO DROP OFF/HAZARD)</td>
<td>22</td>
</tr>
<tr>
<td>BARRIERGUARD 800 - LOW DEFLECTION SYSTEM (ROADSIDE NEXT TO DROP OFF/HAZARD)</td>
<td>23</td>
</tr>
</tbody>
</table>
GENERAL NOTES UNLESS OTHERWISE SPECIFIED:

1. THE SYSTEM SHOWN ON THE APL DRAWING IS A PROPRIETARY BARRIER TRADED AS BARRIERGUARD 800. BARRIERGUARD 800 LDS AND BARRIERGUARD 800 MDS HAS BEEN
   DESIGNED AND MANUFACTURED BY HIGHWAY CARE LTD.

2. THE BARRIERGUARD 800 SYSTEM HAS BEEN CRASH TESTED TO NCHRP 350 AND HAS FHWA APPROVAL AS A TL-3 AND TL-4 BARRIER. THE DEFLECTION TABLE ON SHEET 15
   OUTLINES THE BASIC SYSTEM PERFORMANCE.

3. THIS DRAWING PACKAGE PROVIDES THE RELEVANT INFORMATION AND GENERAL DRAWINGS REQUIRED TO IDENTIFY THE COMPONENT PARTS OF BARRIERGUARD 800 AND
   THEIR INCORPORATION AS A WHOLE SYSTEM FOR DEPARTMENTAL STANDARD APPLICATIONS.

4. THE STANDARD BARRIERGUARD 800 SYSTEM HAS BEEN TESTED WITH THE SYSTEM ANCHORED AT EITHER END OF THE BARRIER WALL, BOTH AT THE EXTREME ENDS AND
   ADDITIONALLY AT THE FIRST BOLTED JOINT ALONG THE LENGTH (USUALLY EITHER 20’ OR 10’ ALONG THE BARRIER FROM EITHER END). BARRIERGUARD 800 LDS HAS BEEN TESTED
   AS ABOVE BUT WITH ADDITIONAL ANCHORS AT 40’ INTERVALS ALONG ITS LENGTH. THE BARRIERGUARD 800 MDS HAS BEEN TESTED WITH ANCHORS EVERY 20’ AND REQUIRES T-
   TOP SECTIONS TO BE ATTACHED TO THE TOP OF THE BARRIER WALL. ALL THREE SYSTEMS CAN EITHER BE USED TOGETHER ALONG A SINGLE INSTALLATION OF A BARRIER WALL
   OR INDEPENDENTLY.

5. INSTALLATION OF THE BARRIERGUARD 800 NORMALLY STARTS WITH A MALE FULL HEIGHT END SECTION (BG-10-11) AND FINISHES WITH A FEMALE FULL HEIGHT END SECTION
   (BG-10-12). FURTHER SECTIONS ARE ADDED TO CREATE THE REQUIRED LENGTH.

6. THE FULL HEIGHT END SECTION MAY BE CAPPED WITH A COVER, HOWEVER IF EXPOSED TO ON-COMING TRAFFIC IT SHOULD BE TREATED WITH A SUITABLE CRASH CUSHION.
   BARRIERGUARD 800 IS COMPATIBLE WITH MOST COMMONLY USED CRASH CUSHION END TREATMENTS. FOR DETAILS OF CRASH CUSHION END TREATMENTS THAT ARE NOT
   DETAILED, PLEASE CONTACT HIGHWAY CARE LTD. THE FULL HEIGHT END COVER IS SUITABLE FOR THE “DOWN STREAM” END OF A SYSTEM THAT DOES NOT HAVE EXPOSURE TO
   ON-COMING TRAFFIC.

7. WHEN INSTALLING EITHER LDS OR MDS, THE SYSTEM SHOULD BE INSTALLED WITH ADDITIONAL INTERMEDIATE ANCHORS AT INTERVALS IN THE TABLE ON SHEET 15.

8. THE DESIRED RADIUS CAN BE ACHIEVED USING THE STANDARD 10FT, 20FT OR 40FT BARRIERGUARD 800 SECTIONS DUE TO THE ROTATION OF APPROX 1 DEGREE AT EACH
   QUICKLINK CONNECTION. SHOULD A TIGHTER RADIUS BE NEEDED, SHORTER SECTIONS OF 5 DEGREE AND 10 DEGREE SECTIONS MAY BE INSERTED ANYWHERE WITHIN THE
   BARRIER LINE TO ACHIEVE THE TIGHTER RADIUS.

9. WHEN INSTALLING BARRIERGUARD 800 ONTO STRUCTURES, CONSIDERATION MUST BE GIVEN TO THE THERMAL MOVEMENT OF THE STRUCTURE. IF THE SYSTEM IS ANCHORED
   EITHER SIDE OF AN EXPANSION JOINT, THEN THERMAL MOVEMENTS SHOULD BE CONSIDERED. THIS CAN BE DONE AT THE BOLTED JOINT OF ANY BARRIER SECTION (BY
   INSTALLING SLOTTED PLATES, SEE SHEET 10) OR BY INSTALLING A SPECIAL VARIABLE LENGTH BARRIER (VBL) SECTION, SEE SHEET 9. THE TWO OPTIONS OF SLOTTED PLATES ARE
   THE 5 DEGREE SLOTTED PLATES WHICH ALLOW UP TO 1 INCH OF MOVEMENT OR THE ‘EXPANSION PLATES’ WHICH ALLOW 6 INCHES OF MOVEMENT. ONE VBL SECTION CAN
   ALLOW UP TO 7 INCHES OF MOVEMENT. TO ALLOW FOR MORE THAN 7 INCHES OF MOVEMENT, A COMBINATION OF OPTIONS WILL NEED TO BE USED.

10. THE T-TOP CAN BE INSTALLED BEFORE OR AFTER THE BARRIERGUARD 800 HAS BEEN FULLY INSTALLED AND ANCHORED IN PLACE. A T-TOP IS REQUIRED WHEN THE
    BARRIERGUARD 800 IS USED FOR MDS, ANCHORED EVERY 20FT, GATE SECTIONS AND/OR VBL’s. THE T-TOP SHOULD EXTEND 20FT ON EITHER SIDE OF THESE CONDITIONS AND BE
    TERMINATED WITH TRANSITIONS.

11. THE BARRIERGUARD 800 SYSTEM HAS BEEN DESIGNED FOR USE ON CONCRETE, ASPHALT AND COMPACTED SUB-BASE/SOIL. SEE ANCHORING REQUIREMENT TABLES ON
    SHEETS 13 AND 14.

12. THE BARRIERGUARD 800 COMPONENTS ARE MANUFACTURED IN METRIC UNITS. THE ENGLISH UNITS SHOWN ARE APPROXIMATE.

13. ALL COMPONENTS ARE HOT DIPPED GALVANIZED TO EN ISO 1461.

14. FOR TECHNICAL SUPPORT ASSISTANCE AND APPLICATION SUPPORT PLEASE CONTACT HIGHWAY CARE, LTD ON (702) 204-0732 or (702) 341-7374, OR ALTERNATIVELY:
    sam.arnold@highwaycare.com OR engineering@highwaycare.com

15. BARRIERGUARD 800 SYSTEMS SHALL BE ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS DETAILED DRAWINGS, PROCEDURES AND
    SPECIFICATIONS. FOR ANY INSTALLATIONS OUTSIDE OF THE SCOPE OF THESE DRAWINGS, PLEASE CONTACT HIGHWAY CARE LTD FOR DETAILS.

16. WHEN TRANSITIONING FROM BARRIERGUARD 800 TO TYPE “K” BARRIER OR VICE VERA, SEE FDOT DESIGN STANDARDS INDEX 415, SHEET 5 AND/OR 6.
The approach departure line location is determined by the line intersect with the back of the hazard or area to be shielded. However, the intersect offset distance is not to be beyond the clear zone limit. The departure line is determined by the line intersect with the front of the downstream end of the hazard or area to be shielded.

The length of barrier wall needed is the distance from the approach departure line intersect with the upstream toe of the barrierguard 800 to the trailing departure line intersect with the downstream toe of the barrierguard 800.

For departure rates see design standards (INDEX 415).

Ensure drawing is the correct issue and release before using.

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.
BG800 40FT FULL HEIGHT END SECTION, MALE (BG-10-11) OR
BG800 20FT FULL HEIGHT END SECTION, MALE (BG-10-111)

BG800 40FT FULL HEIGHT END SECTION, FEMALE (BG-10-12) OR
BG800 20FT FULL HEIGHT END SECTION, FEMALE (BG-10-112)

BG800 FULL HEIGHT END SECTION COVER.
FOR APPROACH END A CRASH CUSHION OR OTHER MEANS OF PROTECTION MAY BE REQUIRED IF THERE IS ANY POTENTIAL OF IMPACT WITH END FACE OF BARRIER Run.

BG800 FULL HEIGHT END SECTION COVER.
FOR DEPARTURE END A CRASH CUSHION OR OTHER MEANS OF PROTECTION MAY BE REQUIRED IF THERE IS ANY POTENTIAL OF IMPACT WITH END FACE OF BARRIER Run.

BG800 EXTERNAL ANCHOR SHOE (BG-11-01)

ANCHOR LOCATION IN THE FULL HEIGHT END SECTION

BG800 40FT STANDARD SECTION (BG-10-05),
BG800 20FT STANDARD SECTION (BG-10-105),
BG800 10FT STANDARD SECTION (BG-19-216)
OR OTHER OPTIONAL SECTIONS AS REQUIRED.

1. ALTERNATIVE CRASH CUSHIONS ARE AVAILABLE. PLEASE CONTACT HIGHWAY CARE FOR FURTHER DETAILS.
1. BARRIERGUARD 800 LOW DEFLECTION SYSTEM (LDS) is as per the standard BARRIERGUARD 800 layout (see Sheet 4) but with additional anchors every 40ft along its length to reduce the deflection.

2. Intermediate anchors can be fitted at the bolted joint or at the Quicklink.

3. BARRIERGUARD 800 variable length barrier (VLP) section should be used when BARRIERGUARD 800 LDS is anchored across a bridge expansion joint. See Highway Care for details.

4. Alternative crash cushions are available, please contact Highway Care for further details.

Ensure drawing is the correct issue and release before using.
1. BARRIERGUARD 800 MINIMUM DEFLECTION SYSTEM (MDS) IS AS PER THE STANDARD BARRIERGUARD 800 LAYOUT (SEE SHEET 1) WITH ADDITIONAL ANCHORS EVERY 20FT ALONG ITS LENGTH AND THE ADDED OF T-TOP.

2. A BARRIERGUARD 800 VARIABLE LENGTH BARRIER (VLB) SECTION SHOULD BE USED WHEN BARRIERGUARD 800 MDS IS ANCHORED ACROSS A BRIDGE EXPANSION J IINT. SEE HIGHWAY CARE DETAILS.

3. ALTERNATIVE CRASH CUSHIONS ARE AVAILABLE, PLEASE CONTACT HIGHWAY CARE FOR FURTHER DETAILS.
BARRIERGUARD 800 - MINIMUM DEFLECTION SYSTEM (SINGLE SIDED ANCHORING)

1. BARRIERGUARD 800 MINIMUM DEFLECTION SYSTEM (MDS) IS AS PER THE STANDARD BARRIERGUARD 800 LAYOUT (SEE SHEET 4) WITH ADDITIONAL ANCHORS EVERY 20FT ALONG ITS LENGTH AND THE ADDITION OF T-TOP.

2. SINGLE SIDED ANCHORS ARE TO BE INSTALLED ON THE TRAFFIC FACE.

3. A BARRIERGUARD 800 VARIABLE LENGTH BARREL (VUB) SECTION SHOULD BE USED WHEN BARRIERGUARD 800 MDS IS ANCHORED ACROSS A BRIDGE EXPANSION JOINT. SEE HIGHWAY CARE FOR DETAILS.

4. ALTERNATIVE CRASH CUSHIONS ARE AVAILABLE. PLEASE CONTACT HIGHWAY CARE FOR FURTHER DETAILS.

THE FOLLOWING OPTIONAL COMPONENTS CAN BE USED AS REQUIRED WHEN THE SYSTEM FOLLOWS A CURVE IN A ROAD:

- BG-10-302 - BARRIERGUARD 800 5 FT LH
- BG-10-303 - BARRIERGUARD 800 5 FT RH
- BG-10-304 - BARRIERGUARD 800 10 FT LH
- BG-23-19 - BARRIERGUARD 800 5 FT T-TOP
- BG-23-20 - BARRIERGUARD 800 10 FT T-TOP

OPTIONAL BARRIERGUARD VARIABLE LENGTH BARREL (BG-10-307) CAN BE USED FOR BRIDGE EXPANSION JOINTS IF REQUIRED. SEE NOTE 3.

The following optional components can be used as required when the system follows a curve in a road:

- BG-10-302 - BARRIERGUARD 800 5 FT LH
- BG-10-303 - BARRIERGUARD 800 5 FT RH
- BG-10-304 - BARRIERGUARD 800 10 FT LH
- BG-23-19 - BARRIERGUARD 800 5 FT T-TOP
- BG-23-20 - BARRIERGUARD 800 10 FT T-TOP

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT QUICKLINK" DETAIL BELOW

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT BOLTED JOINT" DETAIL BELOW

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT QUICKLINK" DETAIL BELOW

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT BOLTED JOINT" DETAIL BELOW

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT QUICKLINK" DETAIL BELOW

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT BOLTED JOINT" DETAIL BELOW

INTERMEDIATE ANCHOR (BG-21-10) SEE "SINGLE SIDED INTERMEDIATE ANCHOR AT QUICKLINK" DETAIL BELOW
**ANCHORING DETAILS - STAKES (DRIVEN PINS)**

<table>
<thead>
<tr>
<th>Stake Diameter</th>
<th>Concrete Pad Elevation</th>
<th>Asphalt Over Sub-Base Elevation</th>
<th>Asphalt Only Elevation</th>
<th>Asphalt Over Concrete Elevation</th>
<th>Sub-Base/Soil Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/4&quot;</td>
<td>1 3/4&quot;</td>
<td>1 3/4&quot;</td>
<td>5 1/2&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1 3/4&quot;</td>
<td>1 3/4&quot;</td>
<td></td>
<td></td>
<td>31 1/2&quot;</td>
</tr>
</tbody>
</table>

*Ensure drawing is the correct issue and release before using.*

**Copyright Notice:**

The information hereon is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.
BarrierGuard 800 - Anchoring Detail (Resin Studding and Mechanical Anchors)

**Anchoring Details - Resin Anchor**

<table>
<thead>
<tr>
<th>Anchor Diameter</th>
<th>Concrete Pad</th>
<th>Asphalt Over Sub-Base</th>
<th>Asphalt Only</th>
<th>Asphalt Over Concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Embedment Depth</td>
<td>6&quot;</td>
<td>16&quot;</td>
<td>16&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Drill Diameter</td>
<td>1 1/8&quot;</td>
<td>1 1/8&quot;</td>
<td>1 1/8&quot;</td>
<td>1 1/8&quot;</td>
</tr>
</tbody>
</table>

**Anchoring Details - Mechanical Anchors (M16 and M24)**

<table>
<thead>
<tr>
<th>Anchor Diameter</th>
<th>Concrete Pad (M16)</th>
<th>Asphalt Over Concrete (M16)</th>
<th>Concrete Pad (M24 - See Note)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>Embedment Depth (Into Concrete)</td>
<td>4 1/8&quot;</td>
<td>4 1/8&quot;</td>
<td>4 1/8&quot;</td>
</tr>
<tr>
<td>Drill Diameter</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>Pull Out Capacity</td>
<td>20,000lb</td>
<td>20,000lb</td>
<td>-</td>
</tr>
<tr>
<td>Shear Capacity</td>
<td>14,500lb</td>
<td>16,500lb</td>
<td>-</td>
</tr>
</tbody>
</table>

**Note:** Two M16 mechanical anchors should be used to equal the performance of one M24 anchor.

**Concrete Pad Anchoring**

Anchor Diameter: 1"
Embedment Depth: 6" into concrete
Drill Diameter: 1 1/8"
Pull Out Capacity: 20,000lb
Shear Capacity: 14,500lb

**Asphalt Over PC Concrete Anchoring**

Anchor Diameter: 1"
Embedment Depth: 4 1/8"
Drill Diameter: 1"
Pull Out Capacity: 20,000lb
Shear Capacity: 16,500lb

**Asphalt Over Sub-Base Anchoring**

Anchor Diameter: 1"
Embedment Depth: 4"
Drill Diameter: 1 1/8"
Pull Out Capacity: 20,000lb
Shear Capacity: 16,500lb

**Note:** Ensure embedment depth into concrete is 6" once through the asphalt overlay.

**Note:** Two M16 mechanical anchors should be used to equal the performance of one M24 anchor.

---

**FDO**

Title: BarrierGuard 800 - Anchoring Detail (Resin Studding and Mechanical Anchors)

---

**Highway Care Ltd**

The Highlands
Detling Hill
Detling
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Ensure drawing is the correct issue and release before using.
OFFSET AND DEFLECTION REQUIREMENTS

<table>
<thead>
<tr>
<th>INSTALLATION</th>
<th>SHELVING</th>
<th>WORK ZONE SPEED</th>
<th>BIG 800 STANDARD SYSTEM (ANCHORED AT ENDS ONLY)</th>
<th>BIG 800 STANDARD SYSTEM (ANCHORED AT ENDS ONLY) (MASH)</th>
<th>BIG 800 LOW DEFLECTION SYSTEM (ANCHORED EVERY 40FT)</th>
<th>BIG 800 LOW DEFLECTION SYSTEM (ANCHORED EVERY 40FT) (MASH)</th>
<th>BIG 800 STANDARD SYSTEM (ANCHORED EVERY 20FT)</th>
<th>BIG 800 STANDARD SYSTEM (ANCHORED EVERY 20FT) (MASH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>45 MPH OR LESS</td>
<td>DEFLECTION SPACE (1)</td>
<td>DEFLECTION SPACE (1)</td>
<td>DEFLECTION SPACE (2)</td>
<td>DEFLECTION SPACE (2)</td>
<td>DEFLECTION SPACE (3)</td>
<td>DEFLECTION SPACE (4)</td>
</tr>
<tr>
<td>SHOULDER</td>
<td>ABOVE GROUND HAZARDS (x)</td>
<td>4' 6&quot;</td>
<td>2' 8&quot;</td>
<td>TBC</td>
<td>1' 6&quot;</td>
<td>1'</td>
<td>1'</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 MPH OR GREATER</td>
<td>5' 3&quot;</td>
<td>5' 6&quot;</td>
<td>1' 5&quot;</td>
<td>2' 11&quot;</td>
<td>3'</td>
<td>3'</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 MPH OR LESS</td>
<td>4' 6&quot;</td>
<td>2' 8&quot;</td>
<td>TBC</td>
<td>4&quot;</td>
<td>6&quot;</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td>DROP OFF HAZARDS (y)</td>
<td>4' 6&quot;</td>
<td>2' 8&quot;</td>
<td>TBC</td>
<td>4&quot;</td>
<td>6&quot;</td>
<td>1&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 MPH OR GREATER</td>
<td>5' 3&quot;</td>
<td>5' 6&quot;</td>
<td>1' 5&quot;</td>
<td>1' 8&quot;</td>
<td>6&quot;</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 MPH OR LESS</td>
<td>4' 6&quot;</td>
<td>2' 8&quot;</td>
<td>TBC</td>
<td>4&quot;</td>
<td>6&quot;</td>
<td>1&quot;</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
- All dimensions in meters
- SCALE 1:20
- The information hereon is proprietary to Highway Care Ltd and shall not be disclosed, reproduced, or otherwise disclosed to any unauthorized persons without the express written approval of Highway Care Ltd.
OFFSET BARRIERGUARD 800 AS REQUIRED FROM MEDIAN CONCRETE BARRIER TO AVOID WHEEL SNAGGING AT BASE OF BARRIER.

FOR ROADSIDE APPLICATIONS, OFFSET BG800 AWAY FROM ADJACENT TRAFFIC.

BOLT THROUGH USING GRADE 8.8 (MEDIUM CARBON STEEL) HIGH STRENGTH FASTENERS. GUARDRAIL COMPONENTS AND HARDWARE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

TEMPORARY MEDIAN CONCRETE BARRIER TO BE ANCHORED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, SEE NOTE 16 ON SHEET 2.

BARRIERGUARD 800 TO CONCRETE BARRIER CONNECTION

4 ANCHOR POINTS

4 ANCHOR POINTS

TRAFFIC FLOW

TRAFFIC FLOW

OFFSET BARRIERGUARD 800 AS REQUIRED FROM MEDIAN CONCRETE BARRIER TO AVOID WHEEL SNAGGING AT BASE OF BARRIER.

FOR ROADSIDE APPLICATIONS, OFFSET BG800 AWAY FROM ADJACENT TRAFFIC.
INSTALL TAU-II CRASH CUSHION AS PER MANUFACTURER'S SPECIFICATIONS

FULL HEIGHT END TERMINAL
ANCHORED AS PER STANDARD INSTALLATION

CONNECTION PANELS ONLY REQUIRED ON SIDE WHERE REVERSE IMPACT IS POSSIBLE.

Ensure drawing is the correct issue and release before using.

The information herein is proprietary to Highway Care Ltd and shall not be
disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Installation of the TAU-II Crash Cushion
BARRIERGUARD 800 TO TYPE K PORTABLE CONCRETE BARRIER TRANSITION

DOUBLE INTERMEDIATE ANCHOR ANCHORED AS REQUIRED

EXTERNAL ANCHOR SHOE ANCHORED AS REQUIRED

BARRIERGUARD 800 - TYPE K BARRIER TRANSITION

NOTES:
* TRANSITIONS TO ALTERNATIVE BARRIERS ARE AVAILABLE CONTACT HIGHWAY CARE LTD FOR DETAILS.

The information herein is proprietary to Highway Care Ltd and shall not be duplicated, disclosed or used otherwise without the express written approval of Highway Care Ltd.

The Highlands
Darling Hill
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Ensure drawing is the correct issue and release before using.

Ensure drawing is the correct issue and release before using.

The Highlands
Darling Hill
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Ensure drawing is the correct issue and release before using.

The Highlands
Darling Hill
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Ensure drawing is the correct issue and release before using.

The Highlands
Darling Hill
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Ensure drawing is the correct issue and release before using.

The Highlands
Darling Hill
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Ensure drawing is the correct issue and release before using.
BARRIERGUARD 800 SYSTEM, STANDARD
(ANCHORED AT FULL HEIGHT TERMINALS ONLY)

SEE SHEETS 13 AND 14 FOR END SECTION ANCHORING DETAIL

SYSTEM LENGTH INCLUDING CRASH CUSHIONS

BARRIERGUARD 800 40FT/20FT
STANDARD SECTIONS TO MAKE REQUIRED WALL LENGTH

FULL HEIGHT TERMINAL (MALE/FEMALE)

USE APPROPRIATE TRANSITION OR CRASH CUSHION IF REQUIRED
SEE SHEETS 16 & 18 FOR TRANSITION DETAIL
SEE SHEETS 17 FOR CRASH CUSHION DETAIL

PLAN VIEW

ELEVATION

BARRIERGUARD 800 - STANDARD SYSTEM

TRAFFIC FLOW

EDGE OF TRAVEL WAY

FULL HEIGHT TERMINAL (MALE/FEMALE)

EDGE OF TRAVEL WAY

TRAFFIC FLOW

USE APPROPRIATE TRANSITION OR CRASH CUSHION IF REQUIRED
SEE SHEETS 16 & 18 FOR TRANSITION DETAIL
SEE SHEETS 17 FOR CRASH CUSHION DETAIL

Ensure drawing is the correct issue and release before using.

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise without the express written approval of Highway Care Ltd.

www.highwaycare.co.uk
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
Kent ME14 3HT
Maidstone
Detling Hill
Detling
Kent
ME14 3HT
BARRIERGUARD 800 SYSTEM, 20FT/40FT SECTIONS
(ANCHORED EVERY 40FT)

SEE SHEETS 13 & 14 FOR END SECTION ANCHORING DETAILS

SYSTEM LENGTH INCLUDING CRASH CUSHIONS

SEE SHEETS 13 AND 14 FOR END SECTION ANCHORING DETAILS

INTERMEDIATE ANCHORS FOR LOW DEFLECTION SYSTEMS

BARRIERGUARD 800 40/20FT STANDARD SECTIONS TO MAKE REQUIRED WALL LENGTH

USE APPROPRIATE TRANSITION OR CRASH CUSHION IF REQUIRED
SEE SHEETS 16 & 18 FOR TRANSITION DETAIL
SEE SHEETS 17 FOR CRASH CUSHION DETAIL

EDGE OF TRAVEL WAY

USE APPROPRIATE TRANSITION OR CRASH CUSHION IF REQUIRED
SEE SHEETS 16 & 18 FOR TRANSITION DETAIL
SEE SHEETS 17 FOR CRASH CUSHION DETAIL

EDGE OF TRAVEL WAY

TRAFFIC FLOW

TRAFFIC FLOW

PLAN VIEW

ELEVATION

BARRIERGUARD 800 - LOW DEFLECTION SYSTEM

Ensure drawing is the correct issue and release before using.

The Highlands
Detling Hill
Detling
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Ensure drawing is the correct issue and release before using.

The Highlands
Detling Hill
Detling
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Ensure drawing is the correct issue and release before using.

The Highlands
Detling Hill
Detling
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Ensure drawing is the correct issue and release before using.

The Highlands
Detling Hill
Detling
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Ensure drawing is the correct issue and release before using.

The Highlands
Detling Hill
Detling
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

The information herein is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.
BARRIERGUARD 800 MDS SYSTEM, 20/40FT SECTIONS
ANCHORED EVERY 20FT (WITH T TOP)

BARRIERGUARD 800 variable
LENGTH BARRIER

SEE SHEETS 13 & 14 FOR
FULL HEIGHT TERMINAL
ANCHORING DETAIL

SEE SHEETS 13 & 14 FOR
FULL HEIGHT TERMINAL
ANCHORING DETAIL

USE APPROPRIATE TRANSITION OR
CRASH CUSHION IF REQUIRED

SEE SHEETS 16 & 18 FOR TRANSITION DETAIL
SEE SHEETS 17 & FOR CRASH CUSHION DETAIL

EACH VLB PROVIDES APPROXIMATELY ±7in OF LONGITUDINAL
TRAVEL. LINK MULTIPLE VLBs TOGETHER TO PROVIDE THE REQUIRED
EXPANSION/CONTRACTION OR MOVEMENT.

THE VLB SHOULD BE PLACED IN THE VICINITY OF THE EXPANSION
JOINT.

NECESSARY ON ALL EXPANSION JOINTS WHERE THE BARRIER IS
STAKED ON EACH SIDE.

BARRIERGUARD 800 MDS WITH VARIABLE LENGTH BARRIER (VLB) FOR
APPLICATIONS WITH EXISTING EXPANSION JOINT

PLAN VIEW

TRAFFIC FLOW

TRAFFIC FLOW

EDGE OF TRAVEL WAY

EXPANSION JOINT

ANCHOR POINT

ANCHOR POINT

ELEVATION

ALL DIMENSIONS IN meters

The information hereon is proprietary to
Highway Care Ltd and shall not be
disclosed, duplicated or used otherwise,
without the express written approval of
Highway Care Ltd.

Ensure drawing is the correct issue and release before using.

The Highlands
Detling Hill
Detling
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

Rev. Details. Date Date Clk’d Approv. Title

D RELEASED 09/05/15 AB AB

F UPDATE - ECN 99 07/05/15 AB AB

G UPDATE - ECN 99 28/05/15 AB AB

H UPDATE - ECN 99 28/05/15 AB AB

Sheet 21 of 23
BARRIERGUARD 800 SYSTEM, STANDARD
ONLY ANCHORED AT THE FULL HEIGHT TERMINALS

SEE SHEETS 13 & 14 FOR FULL HEIGHT TERMINAL SECTION ANCHORING DETAIL

TRAFFIC FLOW

PLAN VIEW

SEE SHEETS 13 AND 14 FOR FULL HEIGHT TERMINAL SECTION ANCHORING DETAIL

BARRIERGUARD 800 20/40FT SECTIONS TO MAKE REQUIRED WALL LENGTH

A CRASH CUSHION OR APPROPRIATE CONNECTION OF OTHER MEANS OF PROTECTION SHOULD BE INSTALLED AT END OF BARRIERGUARD 800 SYSTEM, DIRECTLY IN FRONT OF ONCOMING TRAFFIC. CRASH CUSHION SHOULD BE INSTALLED ON BOTH ENDS OF SYSTEM LOCATED BETWEEN BIDIRECTIONAL TRAFFIC OR APPROPRIATE TRANSITION APPLIED. CRASH CUSHION TO BE AN APPROVED NCHRP 350 TL-3 SYSTEM.

WHERE BARRIER IS LOCATED WITHIN CLEAR ZONE OF OPPOSING TRAFFIC, APPROACH TRANSITION IS REQUIRED.

DROP-OFF OR HAZARD

ELEVATION

Ensure drawing is the correct issue and release before using.

Highway Care Ltd
The Highlands
Detling Hill
Maidstone
Kent ME14 3HT
Tel. +44 (0) 1622 734215
Fax. +44 (0) 1622 735106
www.highwaycare.co.uk

The information herein is proprietary to Highway Care Ltd and must not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Ensure drawing is the correct issue and release before using.
A crash cushion or appropriate connection of other means of protection should be installed at end of BARRIERGUARD 800 system. Crash cushion should be installed on both ends of system located between bidirectional traffic, or appropriate transition applied. Crash cushion to be an approved NCHRP 350 TL-3 system.

Ensure drawing is the correct issue and release before using.