



In advance of the scheme at approximately Ch. -90m there are existing bend warning signs with yellow backing board and "REDUCE SPEED NOW" on both sides of carriageway for eastbound traffic. These signs will be retained.

Tie in point for road markings and studs at chainage -37m

The high friction surfacing starts at Ch. -28m at tie in point for new surfacing.



Scheme Ref.	A83 STRONE POINT	x-height	125.0
Sign Ref.	SR01 (2501)	Letter colour	WHITE
		Background	BLUE
		Border	WHITE
		Material	Class R3B (12899-1:2007)
		Width	1205mm
		Height	1125mm
		Area	1.35m <sup>2</sup>

Sign Reference SR01, TSRGD Diag no. 2501 Proposed post position moved from existing position to avoid clash with utility. Exact position to be agreed with Engineer on site. Refer to Table 1 for further information.

White road studs bi-directional 9m spacing

Red road studs uni-directional 18m spacing

Red road studs uni-directional 9m spacing

Verge hazard marker post with diagram 561 to commence in the westbound verge at Ch. 55m and end at Ch.278. Posts to be spaced at 9m centres. Refer to drawing 13/NW/0901/052/1200/002 for Hazard Marker Post Detail.

Extents of motorcycle protection system installed below RRS.

Retaining wall

Loch Fyne

Sign Reference SR03 and SR04

Word marking "SLOW" to be provided at same location TSRGD Diag no. 1024 size 2800mm

Vehicle activated sign to be removed from store and re-erected. The exact position to be agreed with the Engineer. The vehicle activated sign must be turned on to ensure signal is received and it works before construction period ends. Refer to 13/NW/0901/052/1200/003 and 13/NW/0901/052/1200/004 for vehicle activated sign details.

Road Restraint Systems (RRS)

Edge for 0.25m hard strip TSRGD Diag No. 1012.1 100mm wide

Word marking "SLOW" to be provided TSRGD Diag no. 1024 size 2800mm

Change of red road stud frequency at Ch. 55m

Extents of motorcyclist protection system installed below RRS.

Warning line TSRGD Diag No. 1004.1, 100mm wide.

In advance of the scheme at approximately Ch. 410m the two existing "BEND AHEAD" signs and "REDUCE SPEED NOW" signs located on both verges of the carriageway are to be retained. The "SLOW" road marking on the westbound carriageway adjacent to the warning signs are also to be retained.

Tie in point at Ch. 350m for road markings and road studs.

In advance of the scheme the Vehicle Activated Sign with bend warning sign and slow down to be retained.

The high friction surfacing ends at Ch. 341m at tie in point for new surfacing.

Verge hazard marker post with diagram 561 to commence in the westbound verge at Ch. 55m and end at Ch.278. Posts to be spaced at 9m centres. Refer to drawing 13/NW/0901/052/1200/002 for Hazard Marker Post Detail.

	Mounting Height	Post Type	Post Length (mm)	Max Post Height above ground (mm)	Foundation Type	Foundation (mm) W x L x H
Diag No. 515	1500	2 No. 76.3 x 3.2 S275	2950	2250	Individual	300 x 300 x 800
Diag No. 2501	1800	1 No. 88.9 x 3.2 S275	3627	2877	Individual	300 x 300 x 700
Vehicle Activated Sign	see note 6	see note 6	see note 6	see note 6	Individual	1000 x 1600 x 750

Key:

- Orange circle: Otter Holt
- Blue circle: Otter Couch
- Blue dashed line: Protection Zone
- Green circle: Tree with potential bat roosts that cannot be climbed
- Red circle: Tree bat roosts
- Green dashed line: Temporary over-ground Openreach duct
- Red dashed line: Proposed Openreach duct
- Black square: Chamber to be installed by Openreach
- Blue dashed line: Road Restraint System (RRS)
- Grey rectangle: High friction surfacing

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

1. Risk of striking over-ground Openreach temporary duct located westbound verge and embankment.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Drawing Number  
**13/NW/0901/052/1200/001**

- Notes:
- Refer to drawing 13/NW/0901/052/200/001 and Specification Appendix 2/1, 2/2, 2/3 and 2/6 for site clearance details.
  - Refer to drawing 13/NW/0901/052/400/001 and Specification Appendix 4/1 and 4/2 for details of road restraint systems.
  - Refer to drawings 13/NW/0901/052/500/001 to 003 and Specification Appendix 5/1 and 5/7 for drainage details. Drawing 13/NW/0901/052/500/003 provides typical interface details between road restraint system (RRS) and filter drain, between RRS and catchpit and between terminal and chamber.
  - Drainage gaps, 150mm long, shall be provided in the edge line at internals no greater than 30m.
  - Refer to drawing 13/NW/0901/052/GDR/109 and Specification Appendix 25/2 for details of the retaining wall.
  - Refer to drawings 13/NW/0901/052/1200/003 and 004 for vehicle activated sign details.
  - Existing warning signs and road markings in advance of bend to be retained.
  - Exact position of all signs to be agreed on site with the Engineer prior to the commencement of construction for the signs.
  - Traffic signs, studs and road markings shall comply with the requirements of the specification Appendix 12/1, 12/2, 12/3 and 12/5 respectively.
  - Mounting height should be measured from the highest point of the carriageway alongside the sign.
  - All single post signs shall be fitted with anti-rotational sign clips.
  - Signs should be located so that the leading edge of the post is located outside of the working width of the barrier.
  - High Friction Surfacing shall provide a PSV level of 68+ or greater. (Refer to Specification Appendix 7/1 for permitted pavement options).
  - Refer to drawing 13/NW/0901/052/2700/001 and 002 and Specification Appendix 1/16 for details of utilities.
  - Refer to drawing 13/NW/0901/052/3000/001 and Specification Appendix 30/1, 30/2 and 30/5 for landscape details.
  - Refer to drawing 13/NW/0901/052/3000/002 and Specification Appendix 30/12 for environmental mitigation details.

Do not scale this drawing

0	Jan 17	Issue for Construction	GI
Rev	Date	Checked	Checked



Status	<b>FOR CONSTRUCTION</b>		
Project	A83 STRONE POINT IMPROVEMENT SCHEME		
Title	TRAFFIC SIGNS AND ROAD MARKINGS LAYOUT		
Drawing No.	13/NW/0901/052/1200/001	SA	SA
Scale	1:500 @ A1, 1:1000 @ A3	Date	02/09/2016
Designed	AR	Drawn	SA
Checked	GI	Approved	JW
Prepared for BEAR Scotland by JACOBS Jacobs 95 Bothwell Street, Glasgow, G2 7HX			

Scheme Ref.	A83 STRONE POINT	x-height	N/A
Sign Ref.	SR03 (515)	Letter colour	BLACK
		Background	WHITE
		Border	BLACK
		Material	Class R3B (12899-1:2007)
		Width	2400mm
		Height	800mm
		Area	1.92m <sup>2</sup>

Scheme Ref.	A83 STRONE POINT	x-height	N/A
Sign Ref.	SR04 (515)	Letter colour	BLACK
		Background	WHITE
		Border	BLACK
		Material	Class R3B (12899-1:2007)
		Width	2400mm
		Height	800mm
		Area	1.92m <sup>2</sup>

Sign References SR03 and SR04 TSRGD Diag no. 515. Exact positions to be agreed with Engineer on site. Refer to Table 1 for further information.