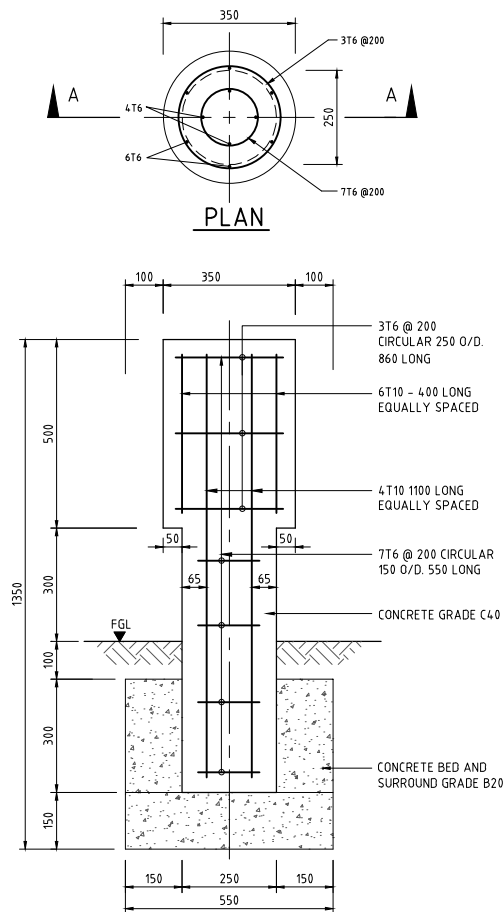
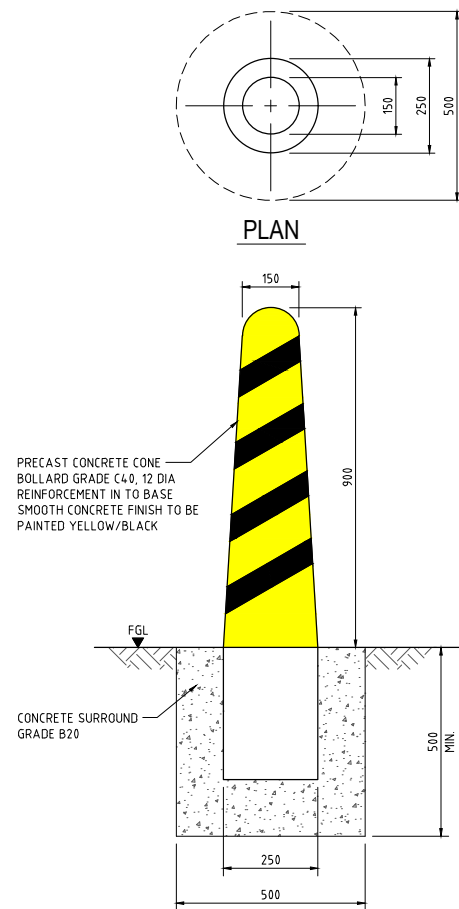
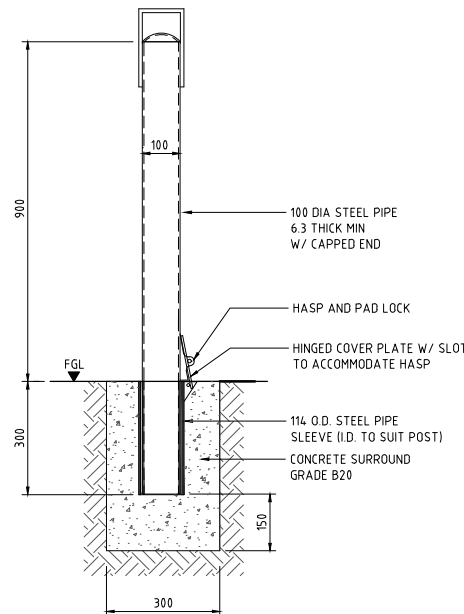




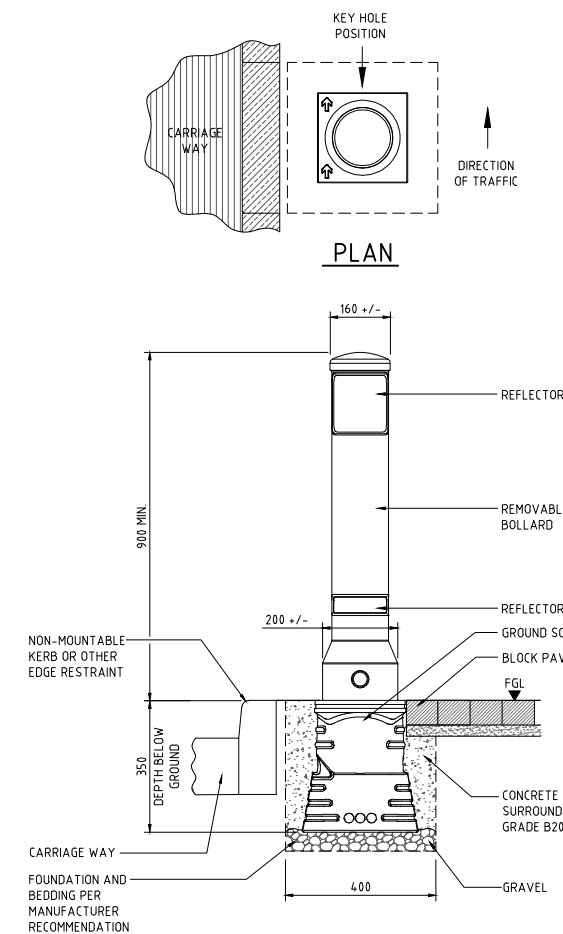
SECTION A - A
CONCRETE BOLLARD



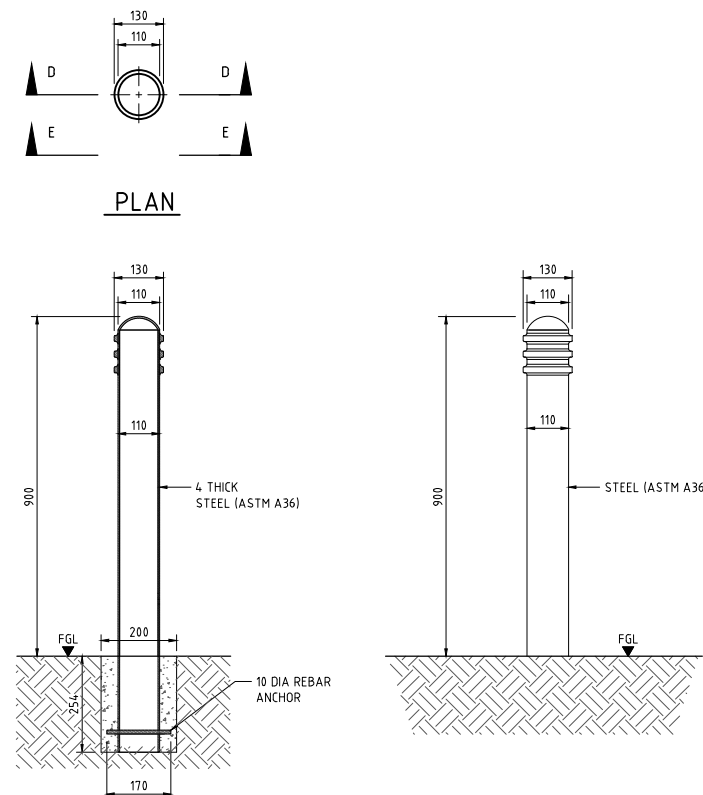
CONCRETE CONE BOLLARD



REMOVABLE STEEL BOLLARD



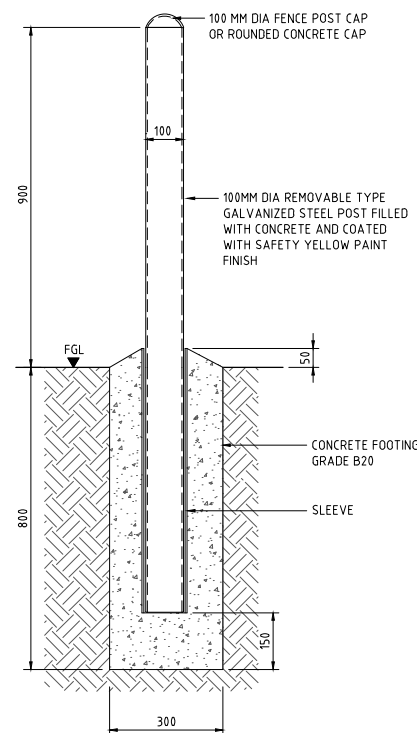
COLLAPSIBLE BOLLARD



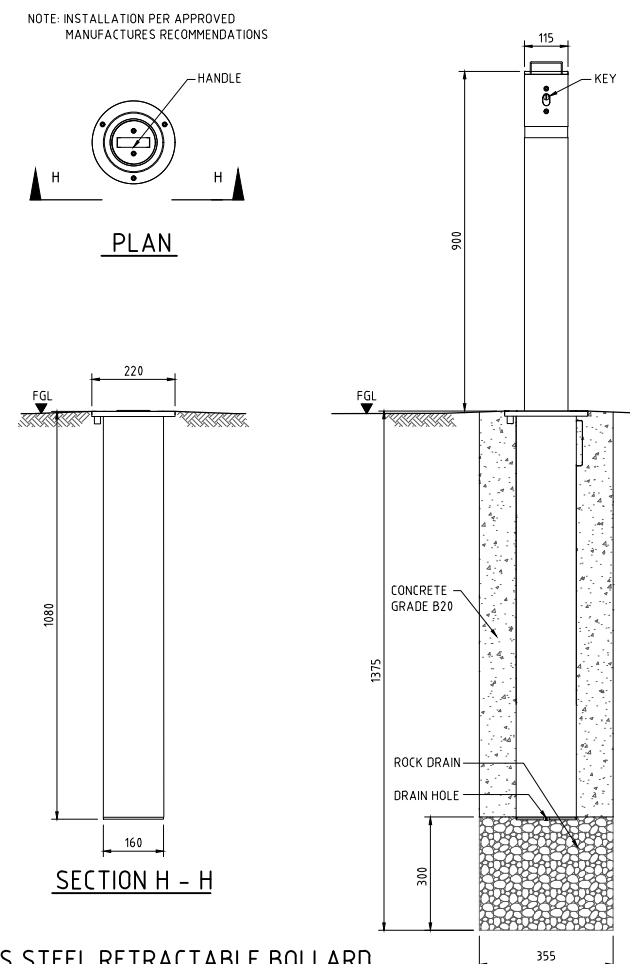
SECTION D - D

EMBEDDED STEEL BOLLARD

SECTION E - E



PROTECTION BOLLARD



SECTION H - H

STAINLESS STEEL RETRACTABLE BOLLARD

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH THE ENGINEER.
3. COLLAPSIBLE BOLLARDS TO BE REMOVABLE WITH LOCKING MECHANISM AND SOCKETED BASE. BOLLARD TO BE CONSTRUCTED OF PASSIVELY SAFE MATERIAL IN ACCORDANCE WITH BS EN 12767 AND TO BE APPROVED BY ASHGHAL.

LEGEND:

FGL FINISHED GROUND LEVEL

Rev.	Date	Revision Details	Appd.
1	20MAR16	ISSUED FOR USE	
0	15SEP13	ISSUED FOR USE	
هيئة الأشغال العامة Public Works Authority P.O.Box 22188 Tel.: (0974) 44950000 Fax: (0974) 44950999 www.ashghal.gov.qa			
PA PROJECTS AFFAIRS QCS Section:			
Section 6 - Road Works Part 19 - Miscellaneous			
Drawing Title:			
BOLLARD DETAILS			
Approved:		Sheet No: 1 OF 1	
Date: MARCH 2016		Scale: 1:10 on A1	
Drawing Number: SD 6-19-301			Revision: 1