
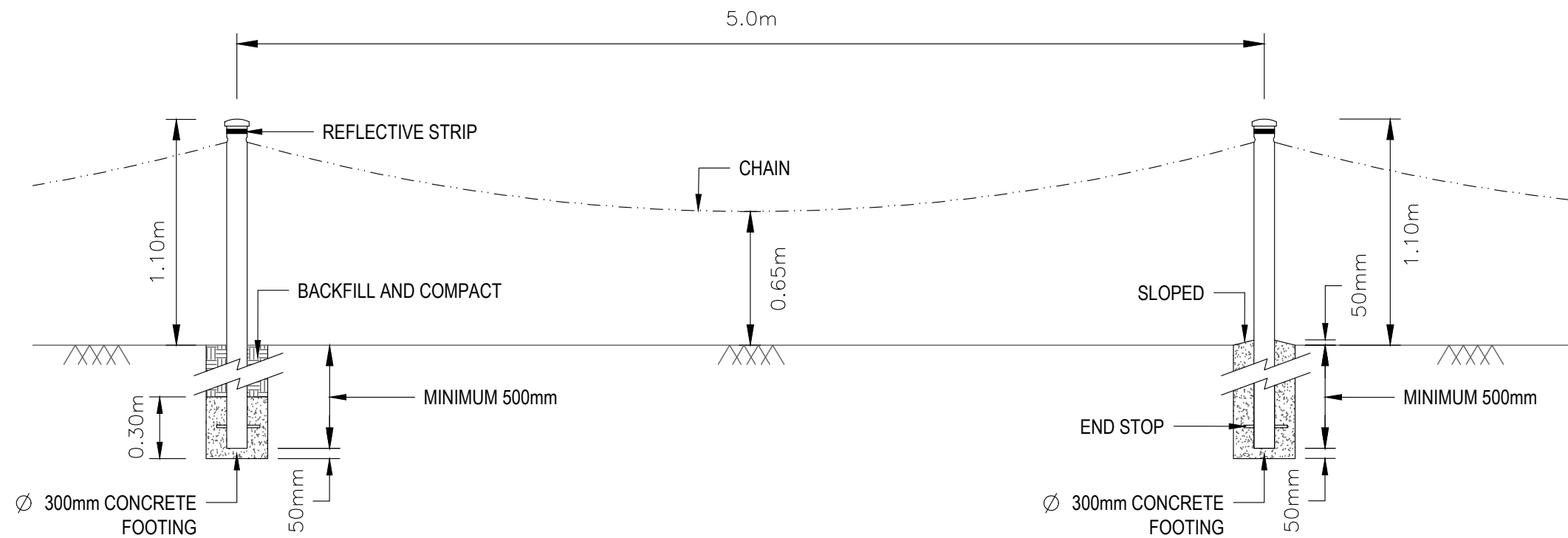


TYPICAL STEEL BOLLARDS & CHAIN
ARRANGEMENT
STANDARD TYPICAL DRAWINGS

TECHNICAL SERVICES - DESIGN DRAWINGS

						PROJECT TITLE:	STANDARD DRAWING	SURVEY DATUM	City of Karratha Lot 1083 Welcome Road PO Box 219 - Karratha Western Australia 6714 Em:enquiries@karratha.wa.gov.au Ph: 08 9186 8555	DRAWN BY:	IS	SCALE:	N.T.S	SHT:	A3
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								VERTICAL DATUM		CHECKED BY:	DPS	DRG. NO:		REV:	
B	01/07/2024	IS	DPS	FIRST AMENDMENT				MAP PROJECTION		APPROVED BY:	DPS			B	
A	10/02/2021	-	PH	ORIGINAL ISSUE					The concepts and information contained in this document are the Copyright of City of Karratha. Use or copying of the document in whole or part without written permission of City of Karratha constitutes and infringement of copyright.	DATE:	01/07/2024				
REV	ISSUE DATE	DRAWN	CHK.	ISSUED FOR OR AMENDMENT											



TYPE "A" - PARTIAL DEPTH CONCRETE FOOTING

TYPE "B" - FULL DEPTH CONCRETE FOOTING

NOTES:

- BOLLARDS SHALL BE 100MM DIAMETER, GALVANISED STEEL TUBE WITH 4.55MM WT TO AS1163 & AS4792, CAPPED (PUSHED ON) AND POWDER COATED IN A PEARL WHITE FINISH TO AS4506.
- 2 X 25MM OD CHAIN HOLES SHALL BE LOCATED 100MM BELOW PUSHED ON CAP AND DIAMETRICALLY OPPOSED.
- BELOW GROUND END STOPS SHALL BE PROVIDED.
- A CLASS 1 (MRWA) SINGLE RED REFLECTIVE STRIP 25MM WIDE SHALL BE FITTED TO THE BOLLARD AROUND THE CIRCUMFERENCE AND LOCATED 50MM BELOW PUSHED ON CAP.
- STEEL CHAIN SHALL BE 6MM LINK DIAMETER AND HOT DIPPED GALVANISED REGULAR LINK PROOF COIL CHAIN.
- TERMINATE CHAIN BY WRAPPING AROUND HALF OF BOLLARD AND SECURE WITH 6MM SPLIT LINK.
- CONCRETE FOOTING SHALL BE 300MM ROUND AND HAVE A MINIMUM STRENGTH OF 20 MPA TO AS 3600.
- TYPE "A" FOOTINGS TO BE USED TYPICALLY WHEREAS TYPE "B" TO BE USED WHERE GROUND CONDITIONS ARE MOIST (I.E. IRRIGATED AREAS) OR AS DIRECTED BY A CITY OF KARRATHA'S REPRESENTATIVE.
- VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOR CONCRETE FOOTING.
- WHERE THERE ARE EXISTING BOLLARDS, THE HEIGHT AND DIMENSION OF NEW BOLLARDS SHALL MATCH THE EXISTING UNLESS OTHERWISE DIRECTED BY A CITY OF KARRATHA'S REPRESENTATIVE.

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