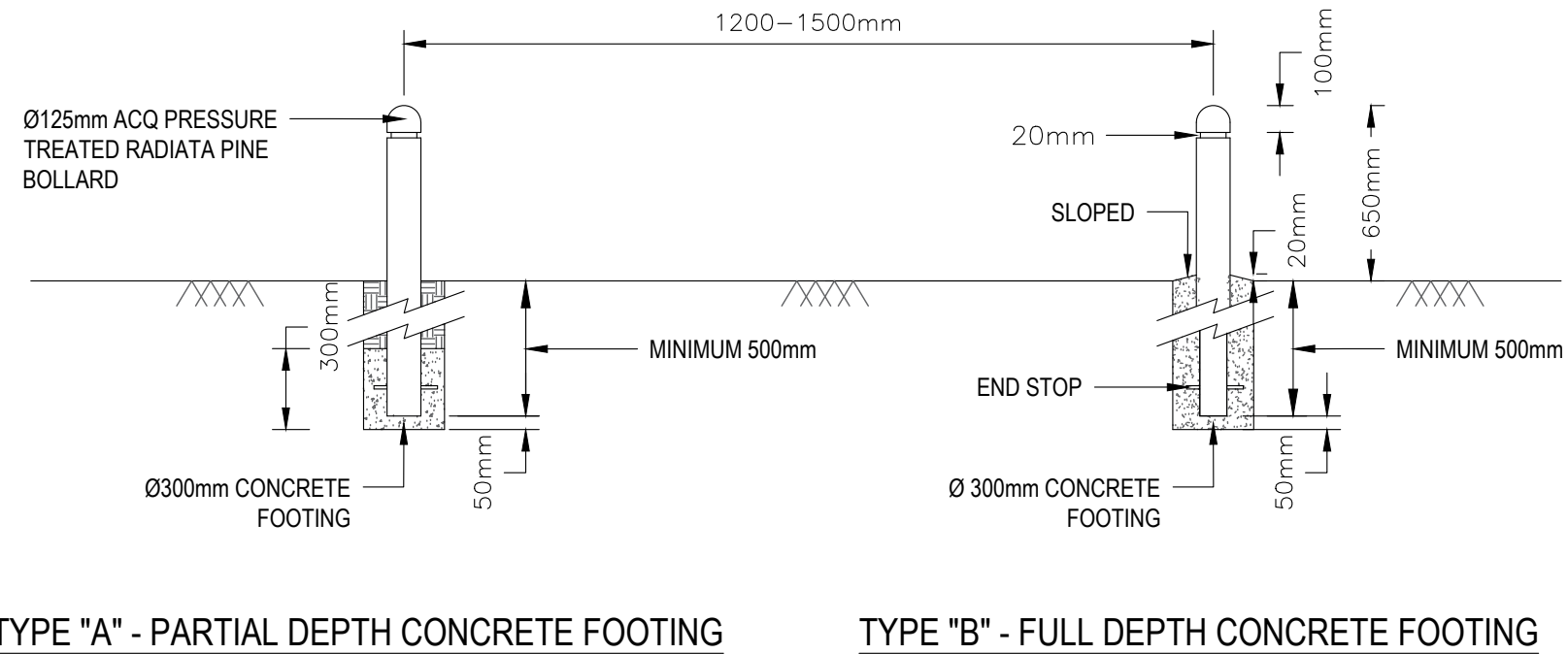


TYPICAL PINE BOLLARDS & CHAIN ARRANGEMENT STANDARD TYPICAL DRAWINGS

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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REV	ISSUE DATE	DRAWN	CHK.	ISSUED FOR OR AMENDMENT				MAP PROJECTION	-	COPYRIGHT 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.							

TYPICAL PINE BOLLARD DETAILS & ARRANGEMENT



TYPE "A" - PARTIAL DEPTH CONCRETE FOOTING

TYPE "B" - FULL DEPTH CONCRETE FOOTING

NOTES:

1. PINE BOLLARD SHALL BE 125mm DIA PRESSURE TREATED RADIATA TO AS1604 SUITABLE FOR IN GROUND USE. BOLLARD TO BE SHAPED AS SHOWN. ALL ABOVE GROUND TIMBER TO BE PAINTED BLACK.
2. BELOW GROUND END STOPS SHALL BE PROVIDED.
3. CONCRETE FOOTING SHALL BE 300mm ROUND AND HAVE A MINIMUM STRENGTH OF 20 MPA TO AS 3600.
4. 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.
5. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOR CONCRETE FOOTING.
6. 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.

REV	ISSUE DATE	DRAWN	CHK.	ISSUED FOR OR AMENDMENT
B	01/07/2024	IS	DPS	FIRST AMENDMENT
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