

## Rockwork and Rip Rap Detail: Single Span Bridge Crossing

A min. clearance for hydraulic standards from underside of bridge to top of bank – to be advised by Melbourne Water

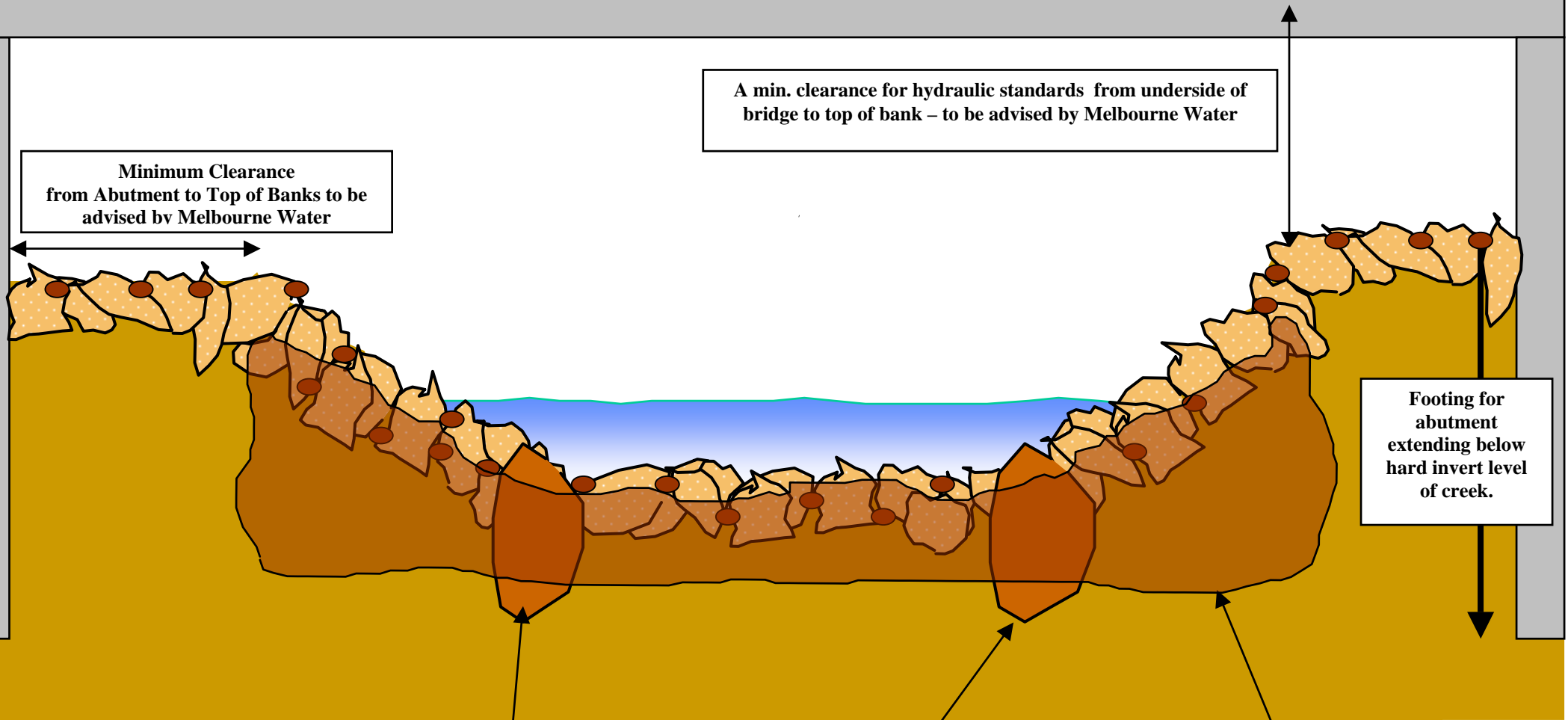
Minimum Clearance  
from Abutment to Top of Banks to be  
advised by Melbourne Water

Footing for  
abutment  
extending below  
hard invert level  
of creek.

Leading Edge/Toe Rocks. To be keyed  
in 2/3 of their diameter into bed

0-150mm Fine crushed  
rock (FCR) – 500 mm  
minimum thickness

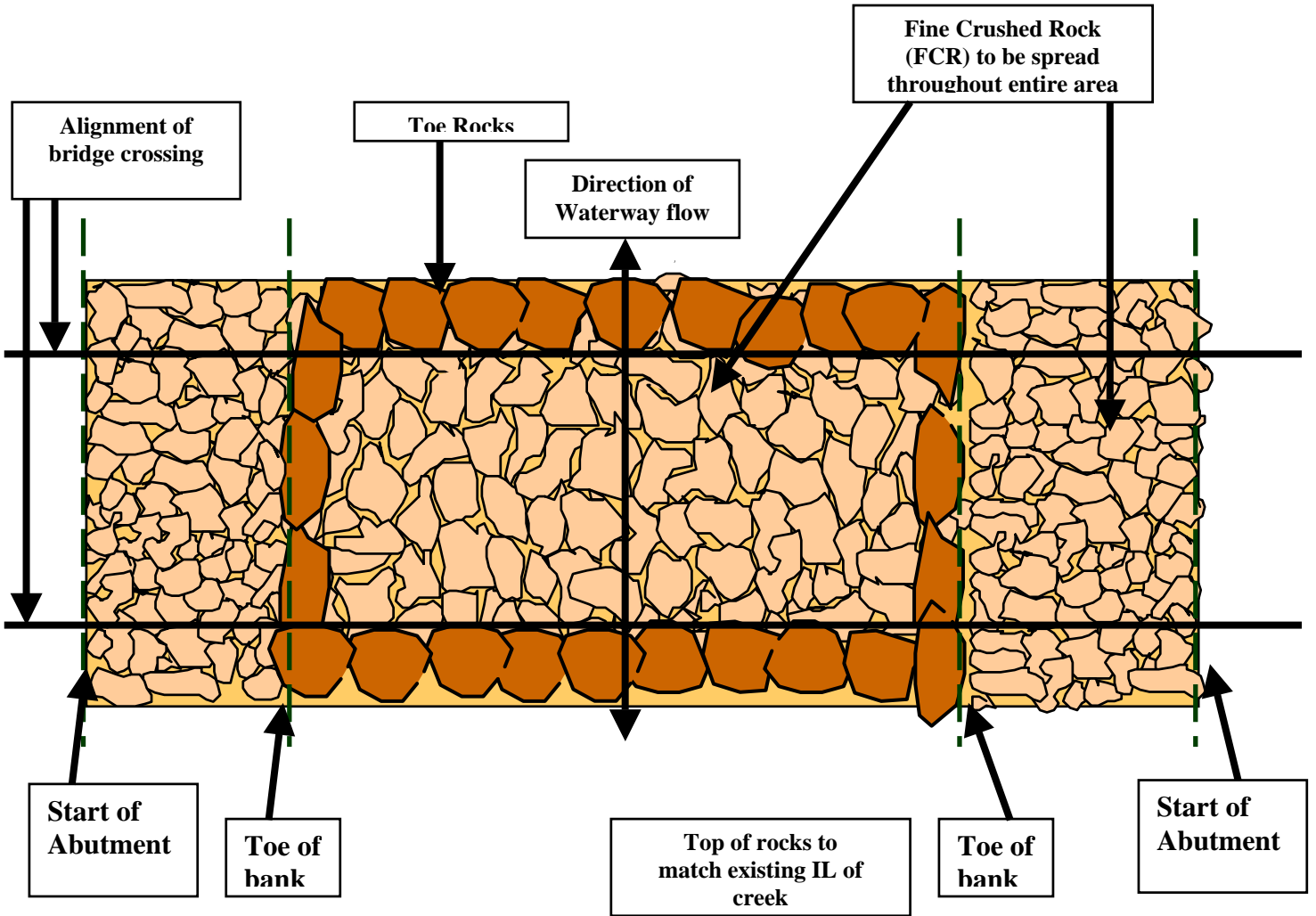
Not to scale – To be used as a guide only





Melbourne  
Water

Elevation: Creek and Rock Work  
Detail



**GENERAL PROCEDURE**

- Toe and side rocks are to adequately keyed into the bed of the creek.
- All voids shall be filled with smaller rocks.
- Appropriate silt/debris control measures must be installed
- Excavate/box out to enable toe and perimeter rocks to be placed first.
- Toe rocks are to be keyed to two-thirds diameter into undisturbed material.
- Infill the chute with rock spalls.
- The contractor shall use methods for handling and placement of rock that will avoid segregation of rock size fractions. Rock shall be carefully placed into position. Rock shall not be dumped directly.
- It is imperative that rock spalls used to form the rock chute are well graded with minimal voids to produce a blanket of interlocking rock.
- Rock chutes shall be shaped in the vertical & horizontal planes such that flows are directed to the centreline of the creek ie the existing upstream & downstream invert level of creek are aligned.

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