

NEW SHAFT CONNECTIONS TO EXISTING CONCRETE MHS

NEW BASE CONNECTIONS TO EXISTING CONCRETE MHS

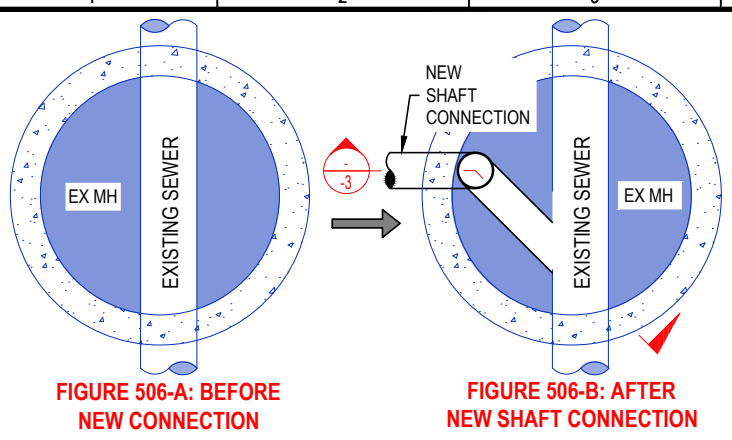


FIGURE 506-A: BEFORE NEW CONNECTION
FIGURE 506-B: AFTER NEW SHAFT CONNECTION

Connection to Shafts / Risers of Existing MHS:

1. New shaft connections shall comply with MRWA-S-311.
2. Drop pipes shall discharge with the following preference:
 - 2.1. Into a new channel formed in the existing base (refer Figure 506-D).
 - 2.2. Into a channel formed within an elevated table (refer Figure 506-E).
 - 2.3. Into an existing live sewer channel, preferably at the downstream end of the main channel.

- General Requirements:**
- A. Inspect the structure or any pipe stub being connected to so as to obtain geometric and condition information. Ref MRWA-S-500.
 - B. Assess whether it would be better to connect to an existing maintenance structure or construct a new structure over the existing sewer. Provide justification to the Water Agency for any decision.
 - C. Provide a detailed design as per MRWA-S-308 for all changes to existing MHS and new MHS on live sewers. All of the requirements detailed in MRWA-S-308 shall apply to alterations to existing concrete MHS.
 - D. Selection and application of all materials shall be as per MRWA-S-500.
 - E. Where penetrations are to be made to existing shafts or where new channels are to be formed in existing bases, implement measures to capture all debris and prevent this from entering the sewer. Existing channels shall be covered or temporary pipes placed in existing channels.
 - F. Where tables are elevated, ladders or step irons shall be modified to conform to MRWA-S-314.
 - G. Where unused stubs are being connected to, new pipe connecting to the stub shall be of the same material as the stub. Inspect existing stubs to confirm material.

LEGEND:

- New Asset (black)
- Existing asset (blue)

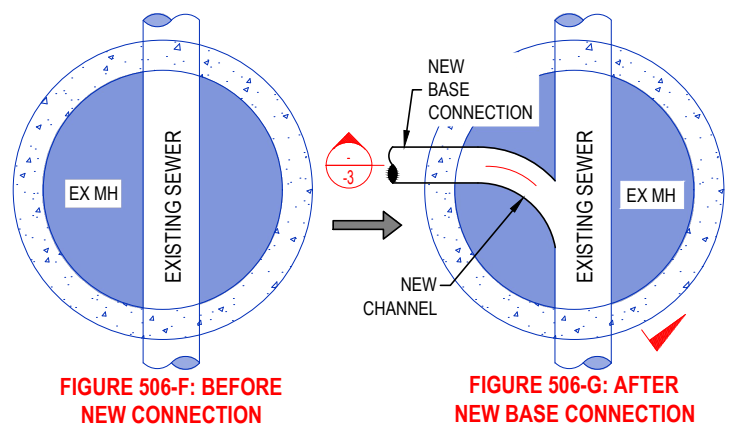


FIGURE 506-F: BEFORE NEW CONNECTION
FIGURE 506-G: AFTER NEW BASE CONNECTION

Connection to Base of Existing MHS:

- a. New base connections shall comply with MRWA-S-308 & 310.
- b. Designer shall specify whether connection level can be elevated to enable Fig 506-I option.
- c. Option described by Figure 506-I requires Water Agency approval. Submit photo evidence to the Water Agency that the existing concrete base extends > 750 beyond MH shaft.

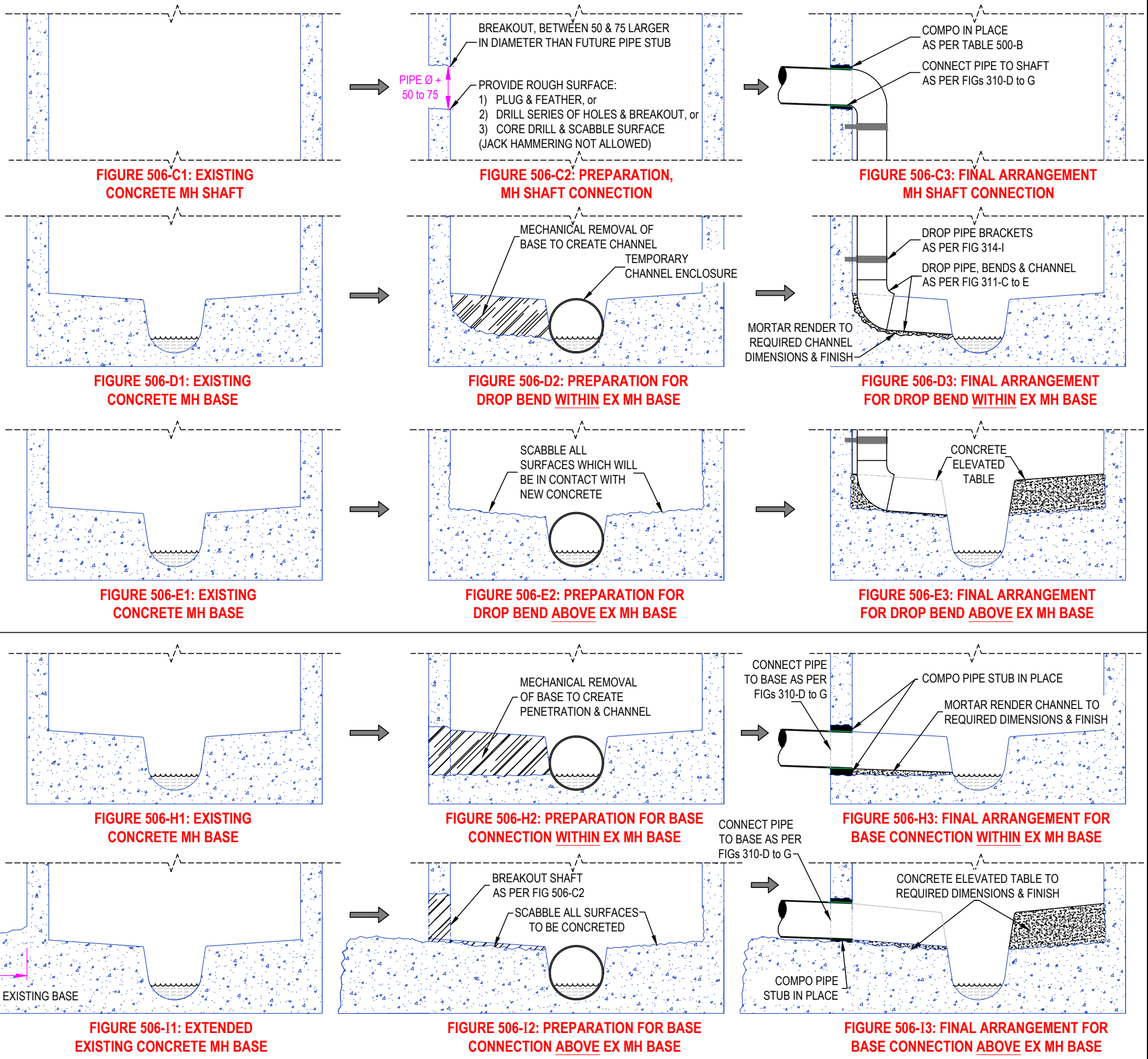


FIGURE 506-I1: EXISTING CONCRETE MH BASE
FIGURE 506-I2: PREPARATION FOR BASE CONNECTION ABOVE EX MH BASE
FIGURE 506-I3: FINAL ARRANGEMENT FOR BASE CONNECTION ABOVE EX MH BASE

ALL DIMENSIONS IN mm UNLESS STATED OTHERWISE				DESIGNED: R. JAGGER		DATE: JUNE 2020	
				DRAWN: R. JAGGER		DATE: JUNE 2020	
CHECKED: NAME		DATE		APPROVED: NAME		DATE	
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MELBOURNE RETAIL WATER AGENCIES

MRWA SEWERAGE STANDARDS

NEW CONNECTIONS TO EXISTING CONCRETE MHS

NOT TO SCALE

MRWA-S-506

Planning	Design	Construction
	✓	✓✓✓