

SHOALHAVEN WATER & PRIVATE CONTRACTOR MINOR SEWER CONSTRUCTION MATRIX

Work	Type	Sewer Main Size (mm)	Junction Depth (m)	Sewer Main Type	Upstream Loading (ETs)	AND/OR	Main Receives Pumped Flows	Contractor has Confined Spaces Certification	Works May be carried out by:
Sewer Junction Cut-in	SJ - RJ - VJ - MHJ - LHJ	≤300 &	<2.0 &	uPVC	& <50	AND	No	Yes	Contractor
				VC	& <50		No	Yes	Contractor
				Concrete	& <50		No	Yes	Contractor
		AC		-	-		-	S/Water	
		Relined		-	-		-	S/Water	
		Any		-	-		-	S/Water	
Sewer Junction Cut-in	VJ & MHJ	>300 &	>2.0 to <3.5 &	uPVC	& <50	AND	No	Yes	Contractor
				VC	& <50		No	Yes	Contractor
				Concrete	& <50		No	Yes	Contractor
				AC	-		-	-	S/Water
				Relined	-		-	-	S/Water
Sewer Junction Cut-in	VJ & MHJ	Any	>3.5	Any	-	OR	-	-	S/Water
Sewer Junction Cut-in	Any	150 &	<2.0 &	uPVC/VC/Conc	>50	OR	Yes	Yes	Contractor-S/Water (2)
		>150	Any	Any	Any		Yes	-	S/Water

Work	Type	Sewer Main Size (mm)	Junction Depth (m)	Sewer Main Type	Upstream Loading (ETs)	AND/OR	Main Receives Pumped Flows	Contractor has Confined Spaces Certification	Works May be carried out by:
Sewer Interconnection to Existing Manhole	- Core in & Benching	≤300		Any	<100	OR	No	Yes	Contractor
		>300		Any	Any		No	-	S/Water
	- External & Internal Manhole drop & Benching	≤300		Any	<100		No	Yes	Contractor
		>300		Any	Any		No	-	S/Water

Work	Type	Sewer Main Size (mm)	Junction Depth (m)	Sewer Main Type	Upstream Loading (ETs)	AND/OR	Main Receives Pumped Flows	Contractor has Confined Spaces Certification	Works May be carried out by:
Sewer Interconnection to Existing Manhole	- Core in & Benching	150		Any	>100	OR	Yes	Yes	Contractor-S/Water (2)
		>150		Any	Any		Yes	-	S/Water
	- External & Internal Manhole drop & Benching	150		Any	>100		Yes	Yes	Contractor-S/Water (2)
		>150		Any	Any		Yes	-	S/Water

Work	Type	Sewer Main Size (mm)	Junction Depth (m)	Sewer Main Type	Upstream Loading (ETs)	OR	Main Receives Pumped Flows	Contractor has Bypass Arrangement	Works May be carried out by:
Construction of Manhole Over Existing Sewer		≤300		uPVC	<50	OR	No	Where Required	Contractor
				VC/Concrete	<50		No	Where Required	S/Water / Contractor (1)
				AC/Relined	<50		Yes	Where Required	Contractor-S/Water (2)
				VC	>50		Yes	Where Required	S/Water / Contractor (1)
		≤300		Concrete	>50		Yes	Where Required	S/Water / Contractor (1)
				AC	>50		Yes	Where Required	S/Water / Contractor (1)
				Relined	>50		Yes	Where Required	S/Water / Contractor (1)
				Any	Any		Any	Any	Any

Work	Type	Rise (mm)	Pipe Size	Existing Manhole Depth	Upstream Loading (ETs)	AND/OR	Main Receives Pumped Flows	Contractor has Confined Spaces Certification	Works May be carried out by:	
Raise Manhole	Pre-Cast	≤300 &	≤300 &	<2.70 &	N/A	AND	N/A	Yes	Contractor	
		>300 to ≤600	≤300 &	<2.40 &	N/A		N/A	Yes	Contractor	
		>600 to ≤900	≤300 &	<2.10 &	N/A		N/A	Yes	Contractor	
	Cast in Situ	≤300	≤300 &	<2.70 &	N/A		N/A	Yes	Contractor	
		>300 to ≤600	≤300 &	<2.40 &	N/A		N/A	Yes	Contractor	
		>600 to ≤900	≤300 &	<2.10 &	N/A		N/A	Yes	Contractor	
	Any	Any	>300 &	Any	-		-	-	-	S/Water (4)

Work	Type	Lower (mm)	Pipe Size	Existing Manhole Depth (m)	Upstream Loading (ETs)	AND/OR	Main Receives Pumped Flows	Contractor has Confined Spaces Certification	Works May be carried out by:	
Lower Manhole	Pre-Cast	≤300 &	≤300 &	>1.20 &	N/A	AND	N/A	Yes	Contractor	
		>300 to ≤600	≤300 &	>1.50 &	N/A		N/A	Yes	Contractor	
		>600 to ≤900	≤300 &	>1.80 &	N/A		N/A	Yes	Contractor	
	Cast in Situ	≤300	≤300 &	>1.20 &	N/A		N/A	Yes	Contractor	
		>300 to ≤600	≤300 &	>1.50 &	N/A		N/A	Yes	Contractor	
		>600 to ≤900	≤300 &	>1.80 &	N/A		N/A	Yes	Contractor	
	Any	Any	>300 &	Any	-		-	-	-	S/Water (4)

For any of the above works the Contractor must:	have a sewer design approved by Shoalhaven Water comply with the WSAA Sewerage Code of Australia, Shoalhaven Water's Supplement to the WSAA Sewerage Code of Australia and the Shoalhaven Water Design Approval have technical competence have construction competence have appropriate level of insurance to work on/in authority assets have appropriate level of gear, equipment, plant, workers to carry out the work have all necessary WHS skills & certifications to work on/in authority assets have written approval from landowner to work within private land/s have a confined spaces entry permit have all other appropriate approvals prior to works commencing (eg. Section 138 approval) have an accepted Work Method Statement
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NOTES:	1. S/Water / Contractor refers to Shoalhaven Water changing the pipe from AC/VC/Concrete to PVC and/or fixing the relined sewer before the contractor carries out the new manhole construction and possible need to operate upstream sewage pumping station during installation. 2. Contractor-S/Water - refers to Shoalhaven Water being involved in cases where the existing upstream pumping station needs to be operated to ensure the work can be undertaken safely. 3. Shoalhaven Water reserves the right to change and/or not permit a contractor to undertake works to any part of the sewerage system/s. This can be due to (but not limited to): environmental matters, critical assets, operational requirements, etc. 4. Subject to assessment by S/Water Operations Section approval may be granted for the works to be carried out by the contractor.
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