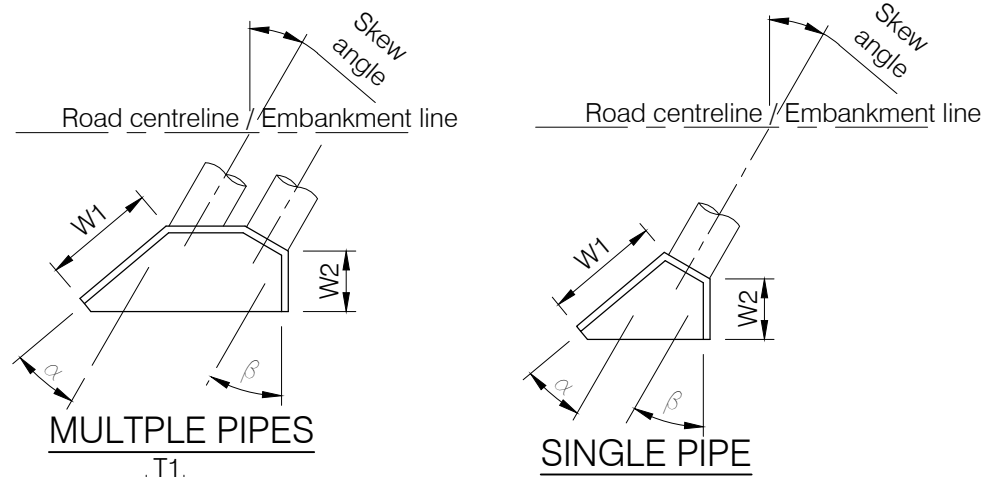
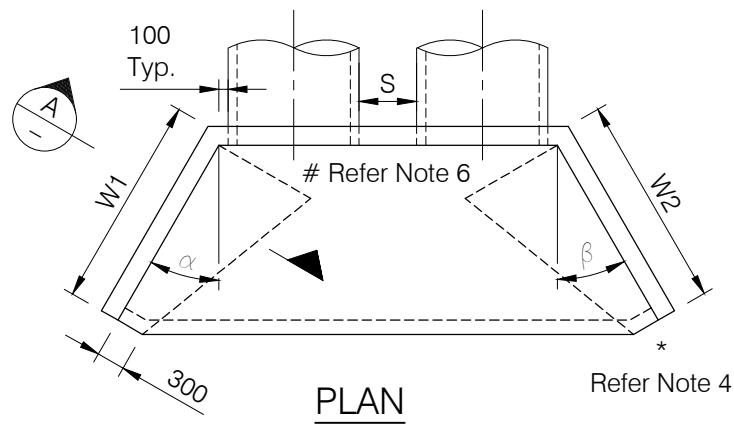
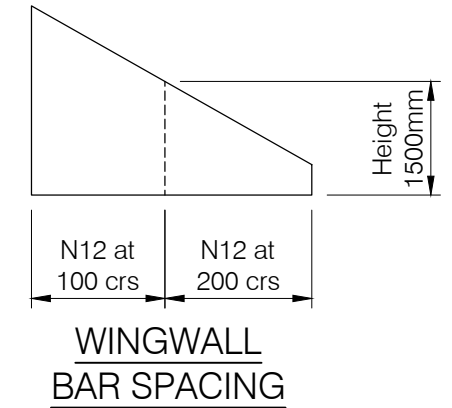


For dimension S refer Standard Drawing No. S1046



WINGWALL ANGLES

Skew Angle	Wingwall angle	
	α	β
0 - 10	30	30
11 - 20	25	30
21 - 30	20	30
31 - 45	15	30



W1 (Angle α) is the wingwall nearer to road centreline / embankment line

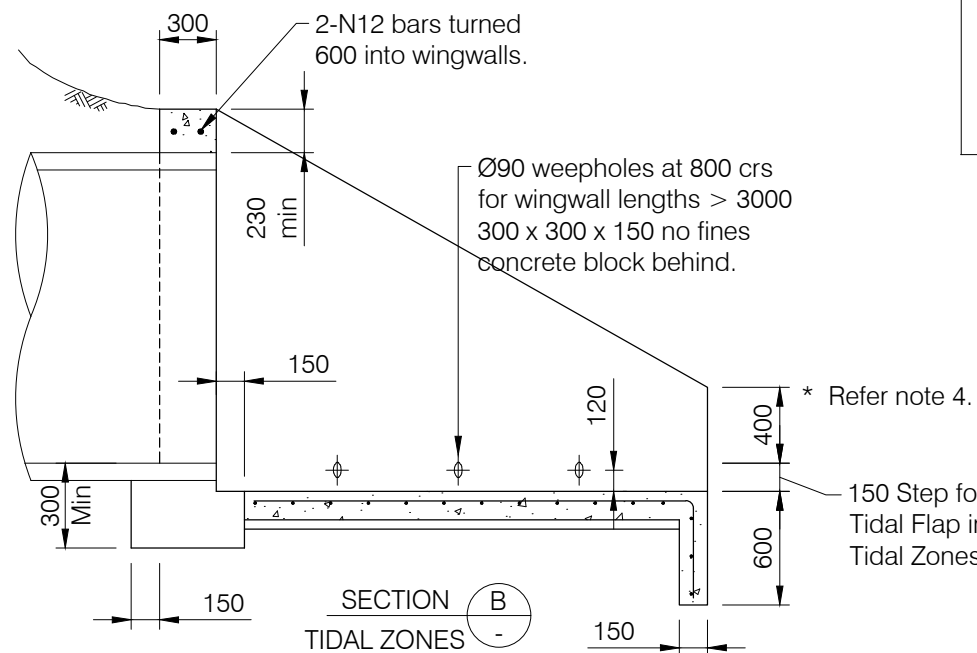
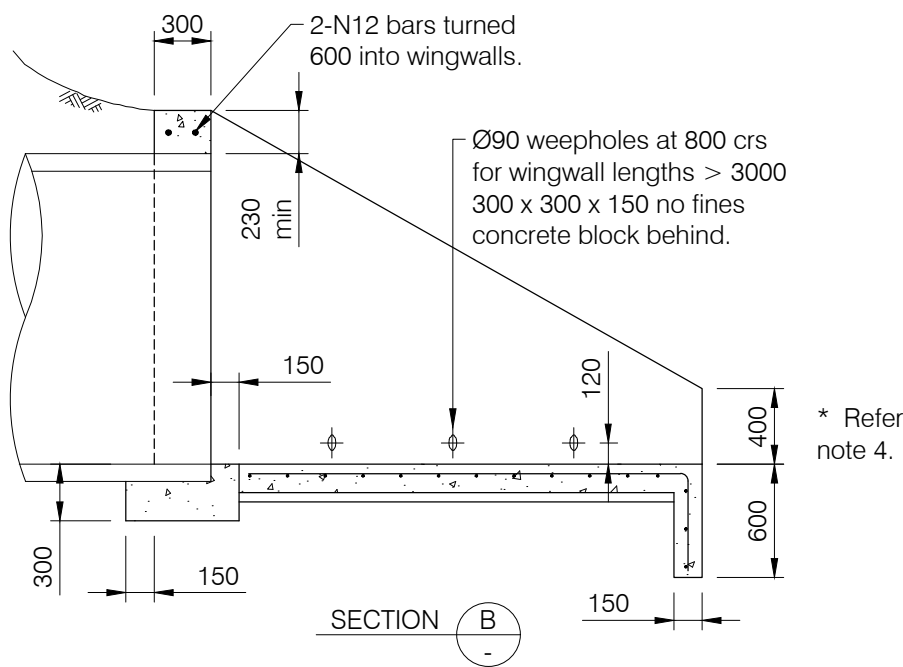
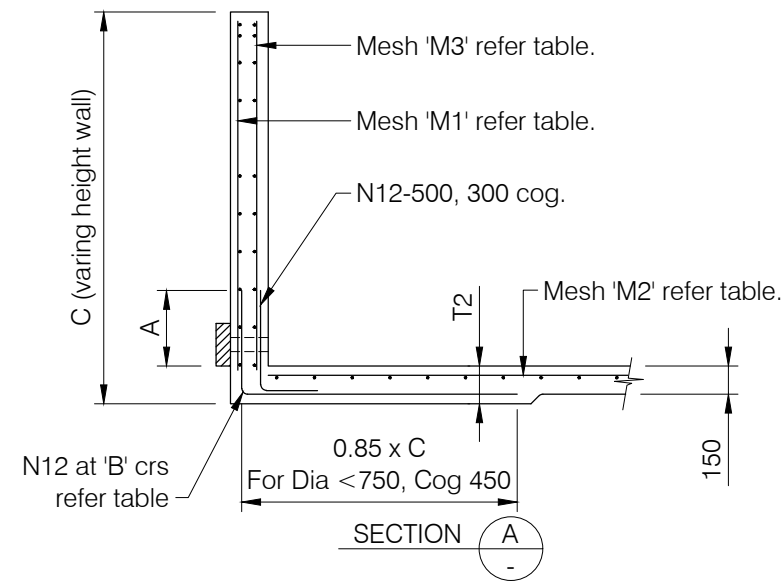
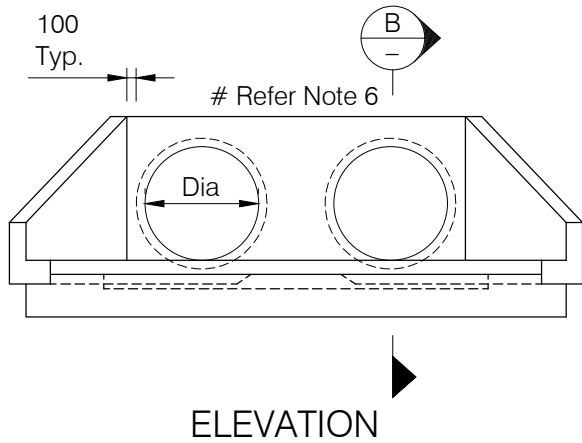
TABLE OF DIMENSIONS & REINFORCEMENT

Dia	T1	T2	A	B	M1	M2	M3
375	200	150	450	300	SL82	SL62	-
450	200	150	450	300	SL82	SL62	-
525	200	150	450	300	SL82	SL62	-
675	200	150	450	300	SL82	SL62	-
750	200	200	550	200	RL818	SL62	-
825	200	200	550	200	RL818	SL62	-
900	200	200	550	200	RL818	SL62	-
1050	200	200	550	200	RL818	SL62	-
1200	200	200	550	200	RL818	SL62	-
1350	250	250	600	200	RL1018	SL62	-
1500	250	250	600	#	RL1018	SL62	-
1650	250	250	600	#	RL1018	SL62	-
1800	300	300	650	#	RL1018	SL82	SL82
1950	300	300	650	#	RL1018	SL82	SL82
2100	300	300	650	#	RL1018	SL82	SL82

Refer wingwall bar spacing detail shown above

NOTES

- Concrete shall be grade N32 in accordance with AS 1379 and AS 3600. Minimum cover to be 50mm.
- In areas where the invert is below HAT level, all concrete shall be grade N40. Wall and apron thickness (T1 & T2) to be increased by 30mm. Minimum cover to be 65mm.
- For wingwall lengths (W1 & W2) and skew angle refer to project drawings.
- Stone pitching to be provided to the ends of wingwalls, extending to toe of batter, wherever batter slope exceeds 1 in 4.
- Where height of headwall above the pipe is greater than 300mm, the headwall shall be designed and detailed on the project drawings.
- Headwall reinforcing to be similar to the highest section of the wingwall.
- All dimensions in millimetres.
- Pre-cast units in accordance with these requirements are acceptable.



* Refer note 4.

* Refer note 4.
150 Step for Tidal Flap in Tidal Zones

REVISIONS	DATE
D MINOR AMENDMENT TO NOTES	05/12/23
C NOTE ADDED	27/08/20
B TIDAL FLAP STEP ADDED	OCT 11
A ORIGINAL ISSUE	12/03/04

DISCLAIMER
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CONCRETE PIPE HEADWALL WINGWALLS AND APRON

Standard Drawing
S1085

A	B	C	D
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