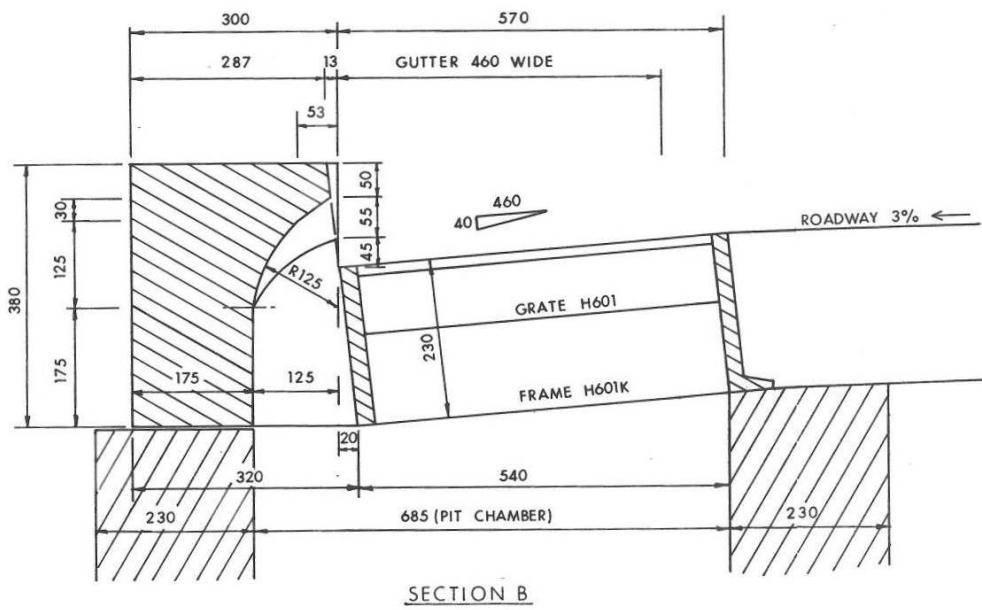
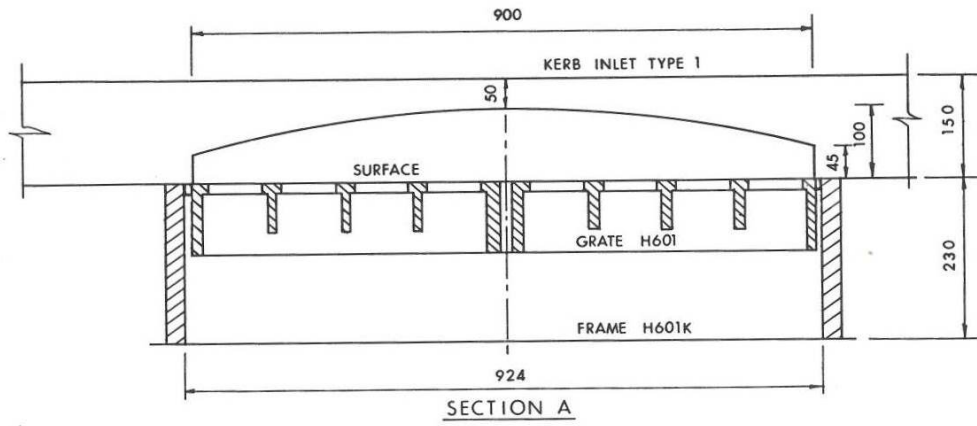
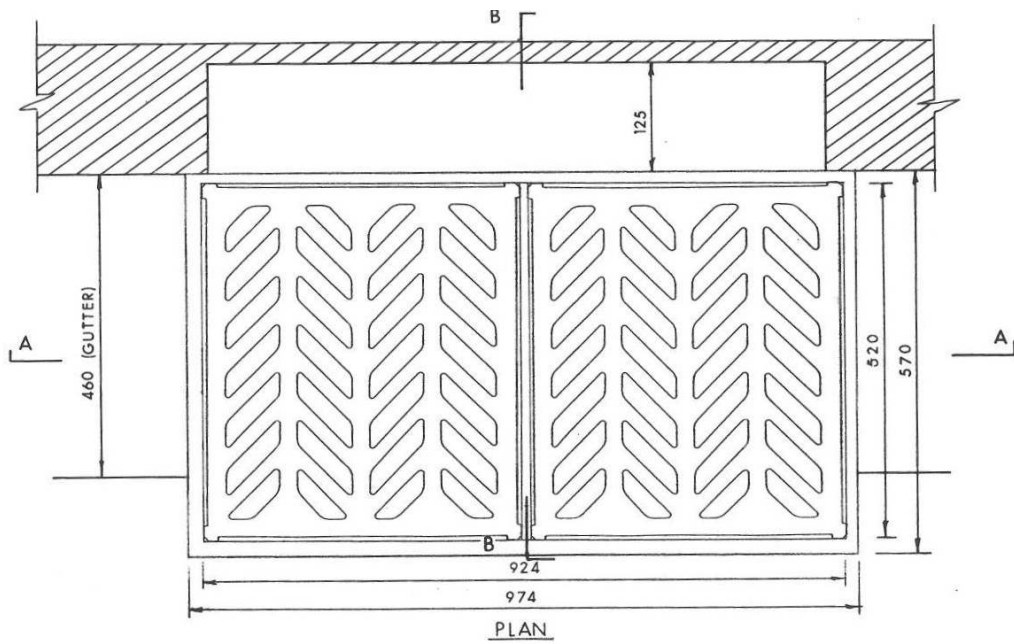


Trachyte Kerb Inlets



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Existing Trachyte Kerb Inlets can be reused provided that a bicycle safe grate is also provided. Pit inlet capacity shall be as per the following tables. For 100mm kerb heights, the grate only inlet capacities shall be used.

Kerb only and Grate only pits are not permitted on roads however due to the number of existing pits in use, inlet capacity information has been provided below for hydraulic analysis purposes.

CoS Trachyte Kerb Inlet with Bicycle Safe Grate on 150mm High Kerb

0% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
11	11
20	20
25	25
38	38
60	57
82	73
100	83
117	92
140	102
148	105
155	107
226	124

1% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
10	10
29	29
41	41
59	57
81	70
95	76
116	84
146	92
178	101
210	109

3% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
12	12
30	29
45	42
60	53
83	67
97	73
119	83
150	96
209	107

5% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
15	15
33	30
47	39
63	50
85	65
100	72
123	79
152	82
180	86
225	90

7% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
12	12
30	25
55	41
123	70
162	75
197	81

Sag	
Depth (mm)	Inlet Capacity (l/s)
0	0
140	60
155	80
187	125
233	175
253	257
275	295

CoS Trachyte Kerb Inlet only on 150mm High Kerb

0% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
100	49
145	57
160	59
227	70

1% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
81	34
95	37
120	43
149	46
181	51
214	56

3% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
85	28
100	32
123	37
153	41
212	45

5% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
15	7
33	12
47	16
63	20
85	26
103	31
125	34
155	36
180	36
225	38

7% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
12	6
30	11
55	15
123	27
162	32
195	33

Sag	
Depth (mm)	Inlet Capacity (l/s)
0	0
145	60
165	80

CoS Bicycle Safe Grate Only

0% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
100	82
140	98
155	99
225	115

1% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
80	62
93	66
115	72
145	80
180	88
210	92

3% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
85	59
99	63
120	70
150	77
209	84

5% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
15	14
33	26
47	33
63	42
85	53
100	58
123	64
153	66
175	68
225	72

7% Longitudinal Fall	
Approach Flow (l/s)	Inlet Capacity (l/s)
0	0
12	10
30	22
55	34
123	55
162	60
198	67

Sag	
Depth (mm)	Inlet Capacity (l/s)
0	0
140	60
155	80
195	125
205	175
275	257
337	295

Data derived from physical modelling outlined in the document: Manly Hydraulics Laboratory; Hydraulic Model Studies of Grate, Lintel and Modified Gully Pit Designs for Pymont Redevelopment; Draft Report MHL690; Public Works Report No. 94018; July 1994; ISBN 0 7310 2740.

Stone Kerb Inlet Pits

Approved stone kerb inlets shall be in accordance with Standard Drawings 1.1.12 and 1.1.13. Pit inlet capacity data is not available at this time.