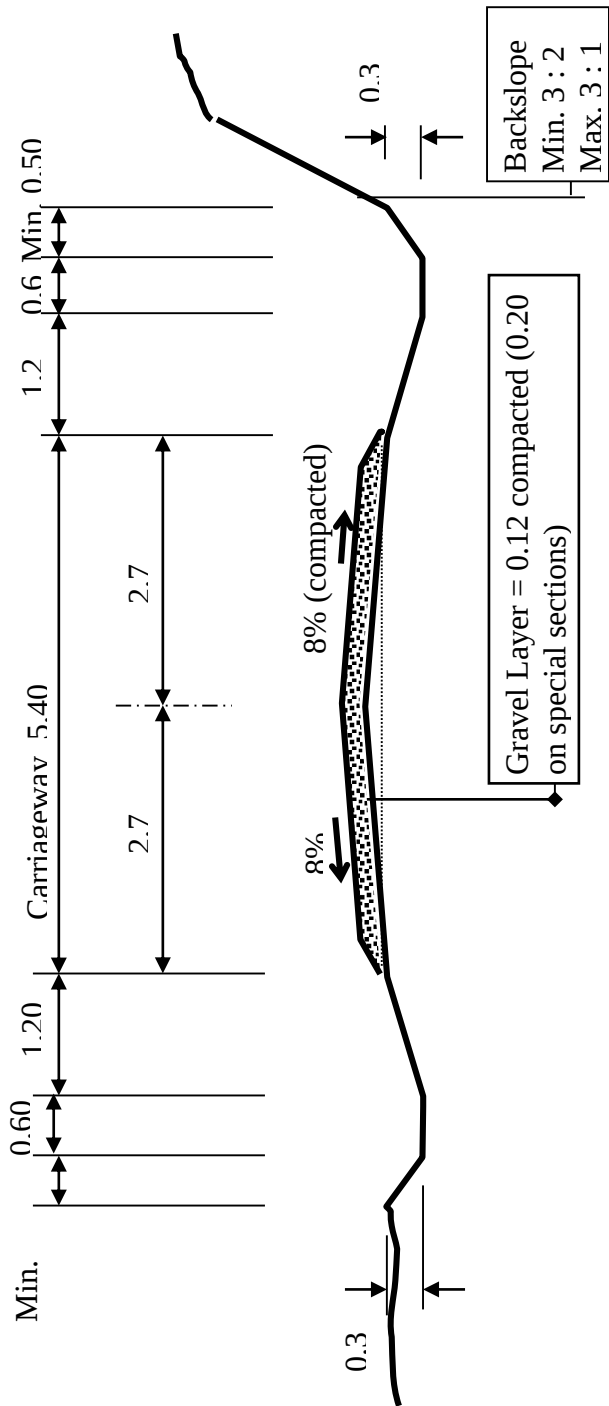


DRAWINGS

FIGURE C.1	CROSS SECTION A (MINOR ROAD STANDARD CROSS-SECTION)	2
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FIGURE C.1 CROSS SECTION A (MINOR ROAD STANDARD CROSS-SECTION)



NOTE:

- ALL SPECIFIED DIMENSIONS IN m.
- TRAFFIC LEVELS OF MORE THAN 200 VPD MAY

FIGURE C.2 CROSS SECTION B (REDUCED CROSS-SECTION)

FIGURE C.3 MITRE DRAINS

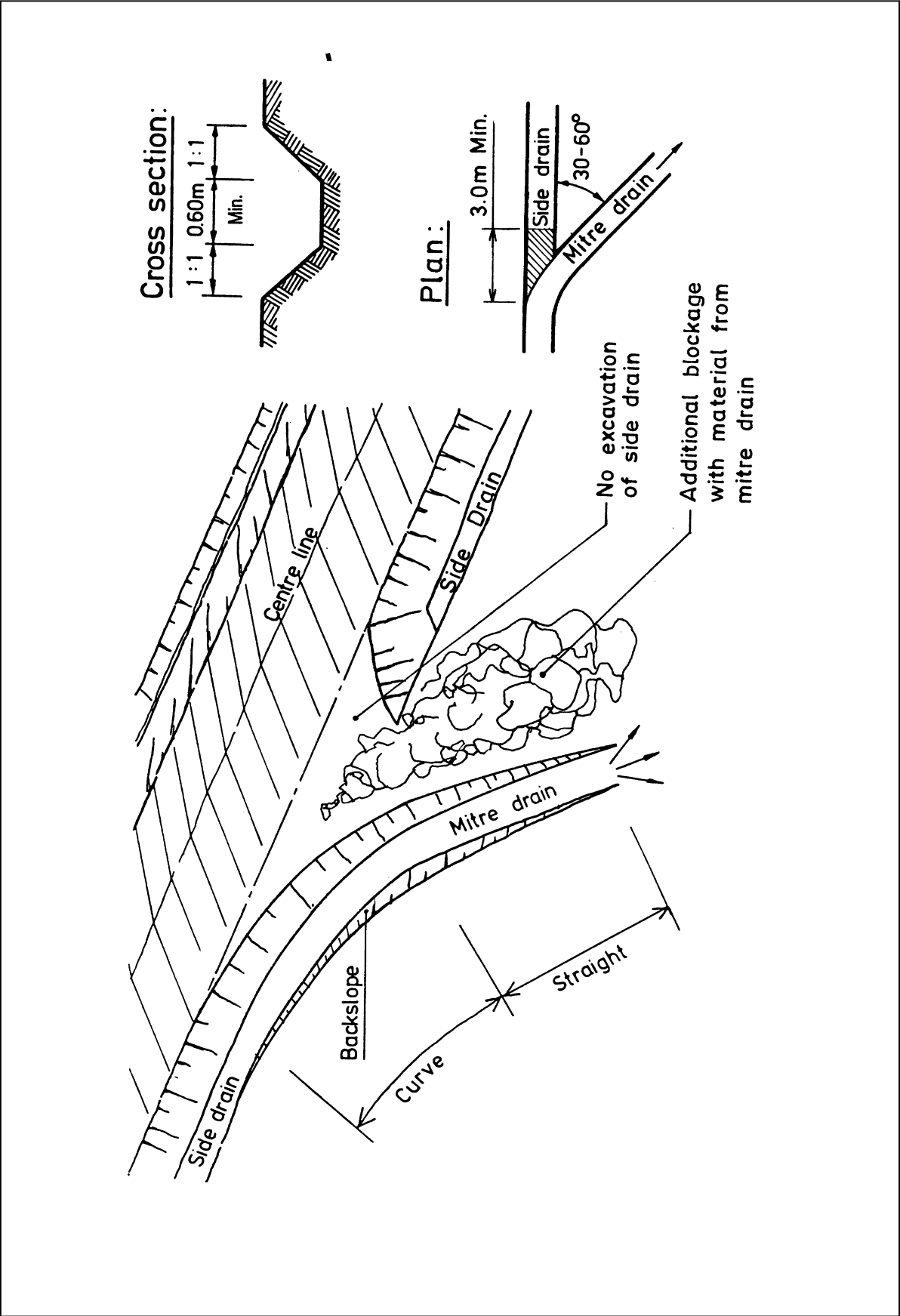


FIGURE C.4 SCOUR CHECKS

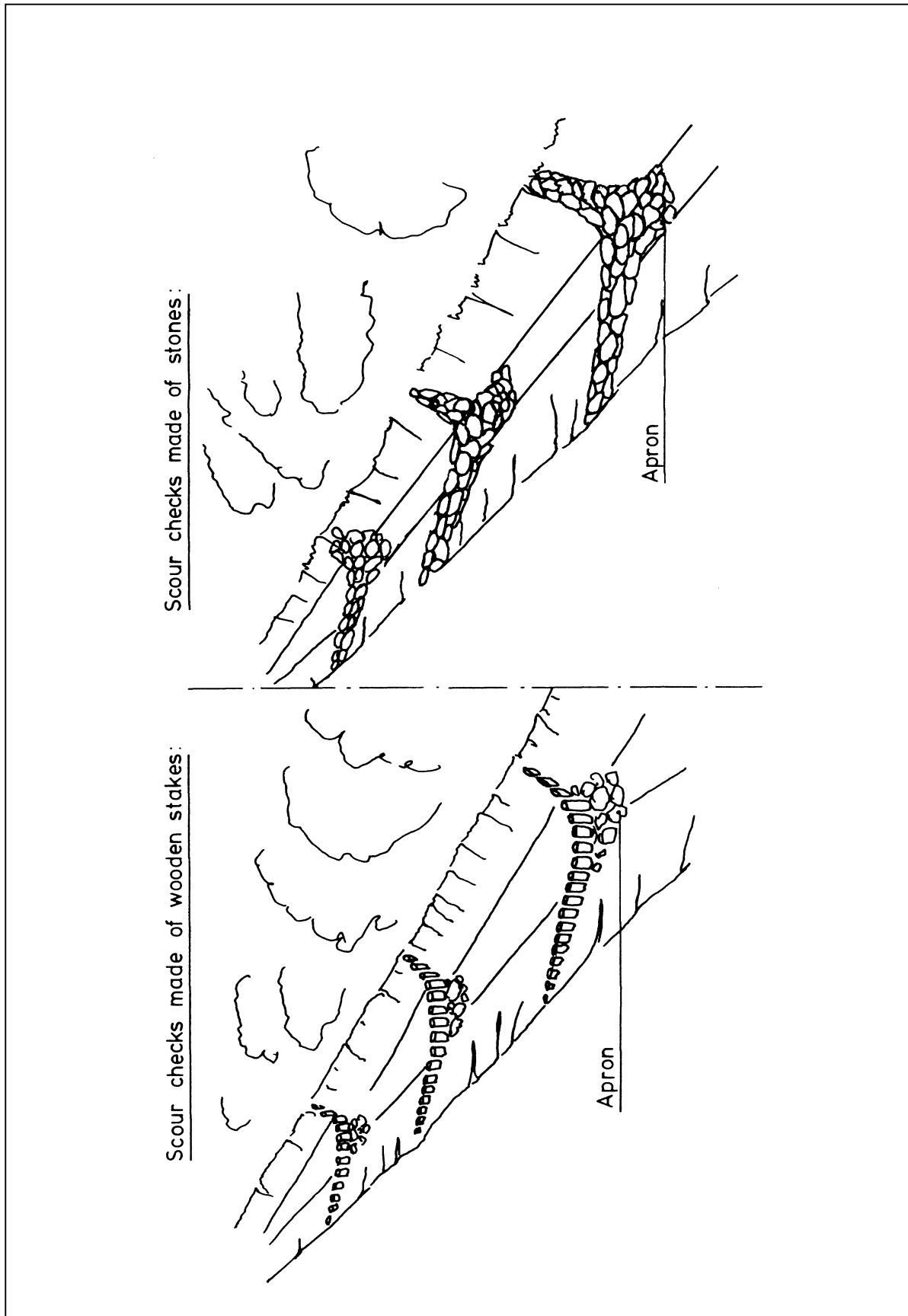


FIGURE C.5 DIMENSIONS OF SCOUR CHECKS FOR STANDARD DRAIN

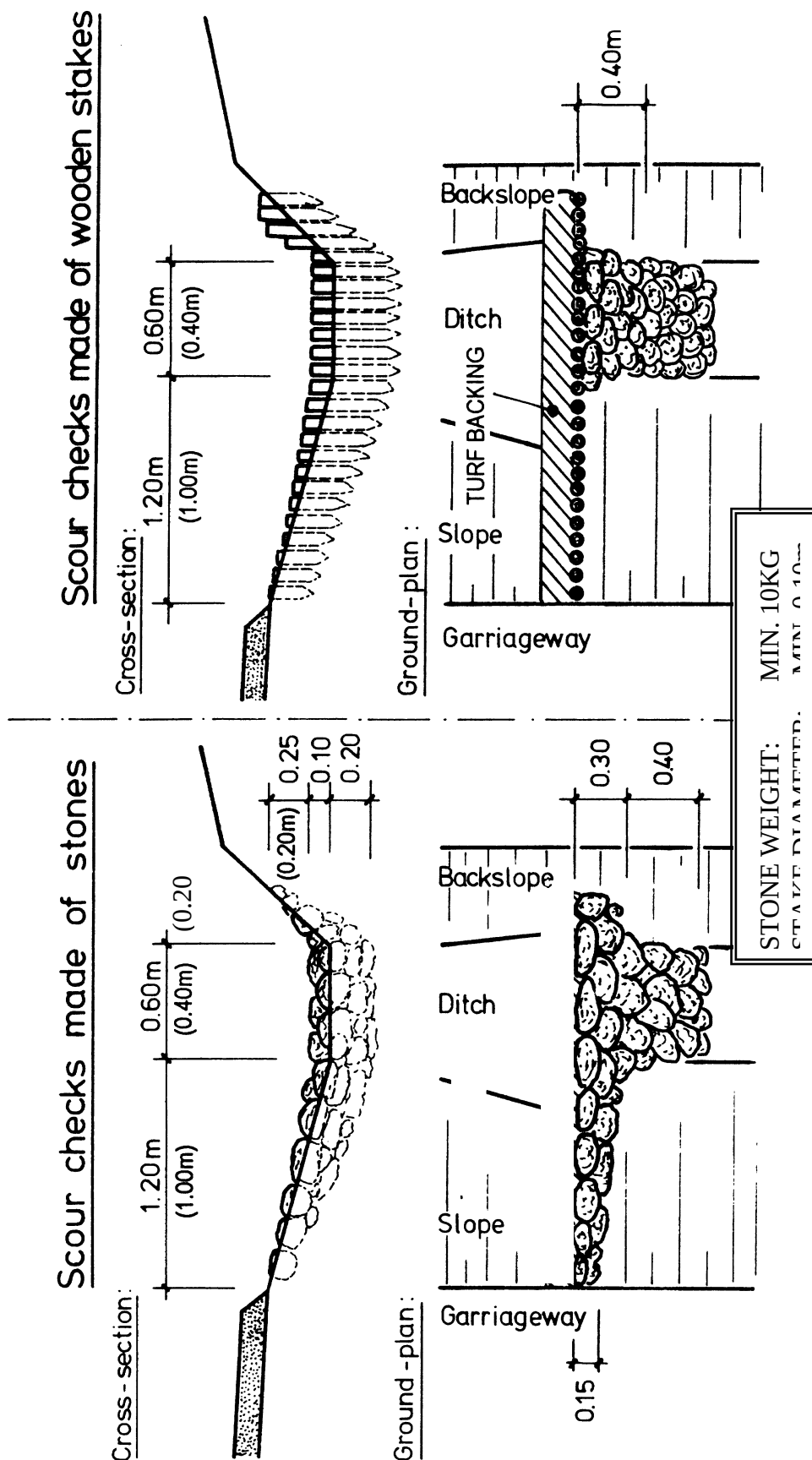
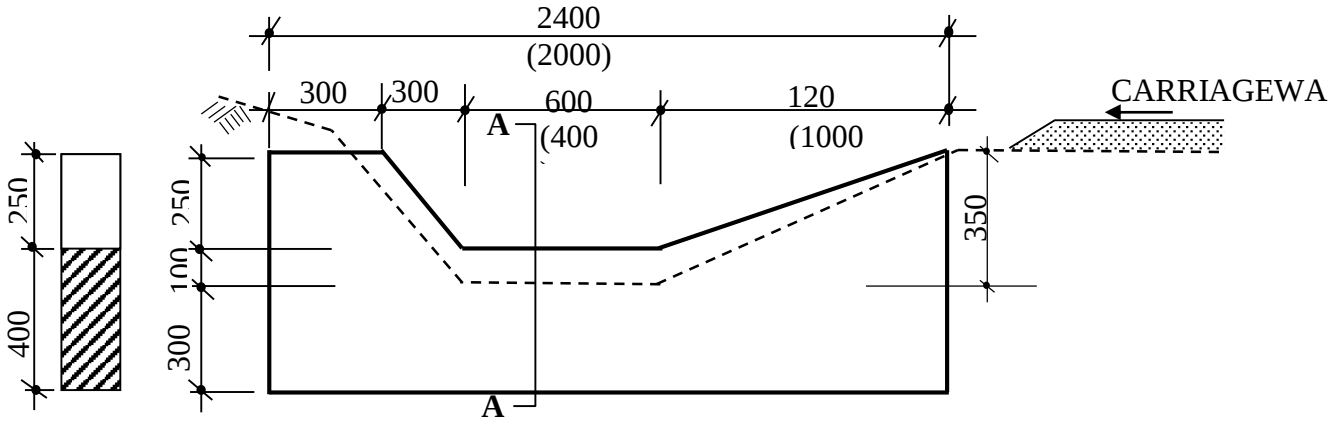
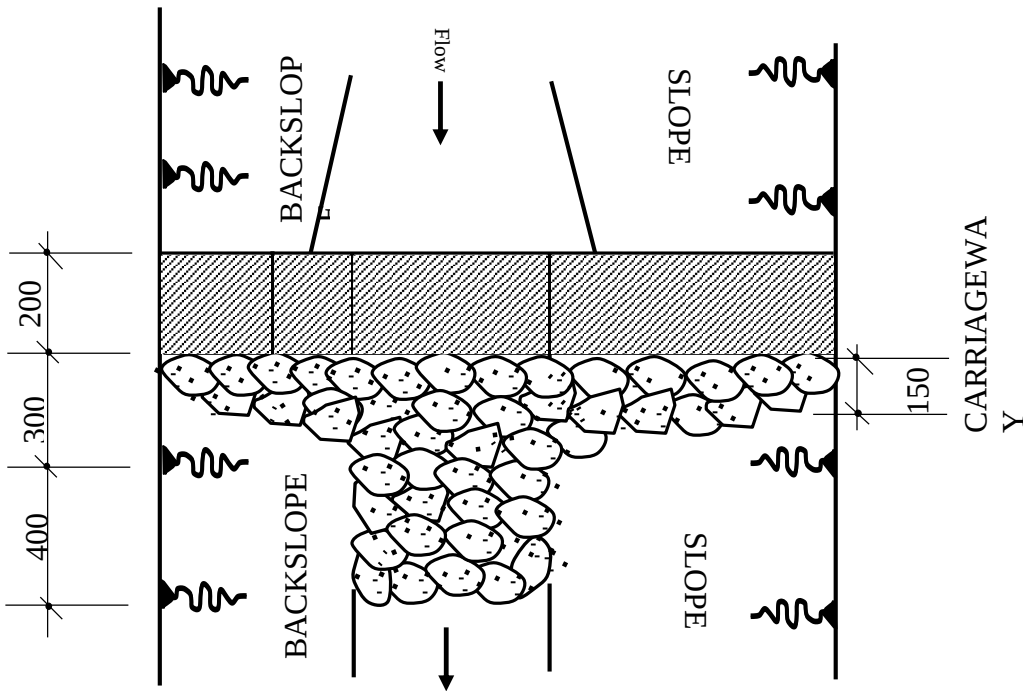


FIGURE C.6 MASONRY SCOUR CHECKS



A - A

A SECTION OF MASONRY SCOUR



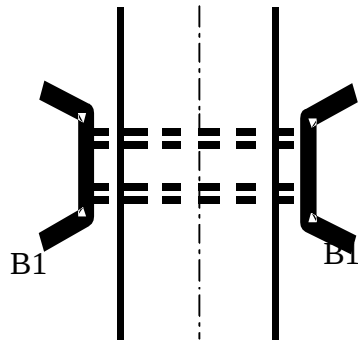
PLAN OF DRAIN WITH EROSION CHECKS

QUANTITIES TABLE

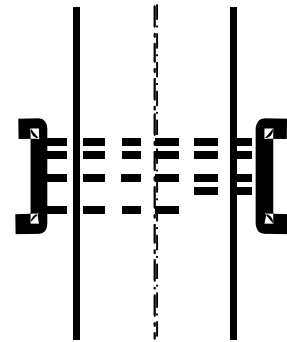
Cross-Section	Sizes in mm			Excav. (m ³)	Stone masonry (m ³)	Apron stone pitching (m ³)
	Length	Width	Depth			
A	2400	200	550	0.22	0.25	0.18
B	2000	200	500	0.18	0.2	0.14

FIGURE C.7 CULVERT ENTRY / EXIT STRUCTURE TYPES

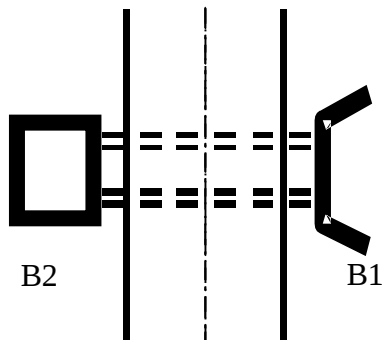
TYPE 1 (ENTRY AND EXIT)



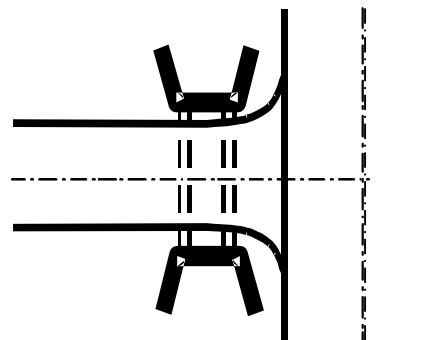
TYPE 3 (ENTRY AND EXIT)



TYPE 2 (ENTRY ONLY!)



TYPE 4 (ENTRY AND EXIT ON ACCESS)



NOTE:

Coding system has been used in describing the standardised designs of the various culvert entry and exit structures. The code names consist of a number to specify shape and function as elaborated in above while the used construction materials are identified through an alphabetic symbol as follows:

- A = Concrete block
- B = Stone masonry
- C = Dressed stones

An example code of “B2” would therefore stand for a drop inlet type structure to be built in stone masonry.

FIGURE C.8 HEADWALL TYPE 1 (HEAD AND WINGWALLS)

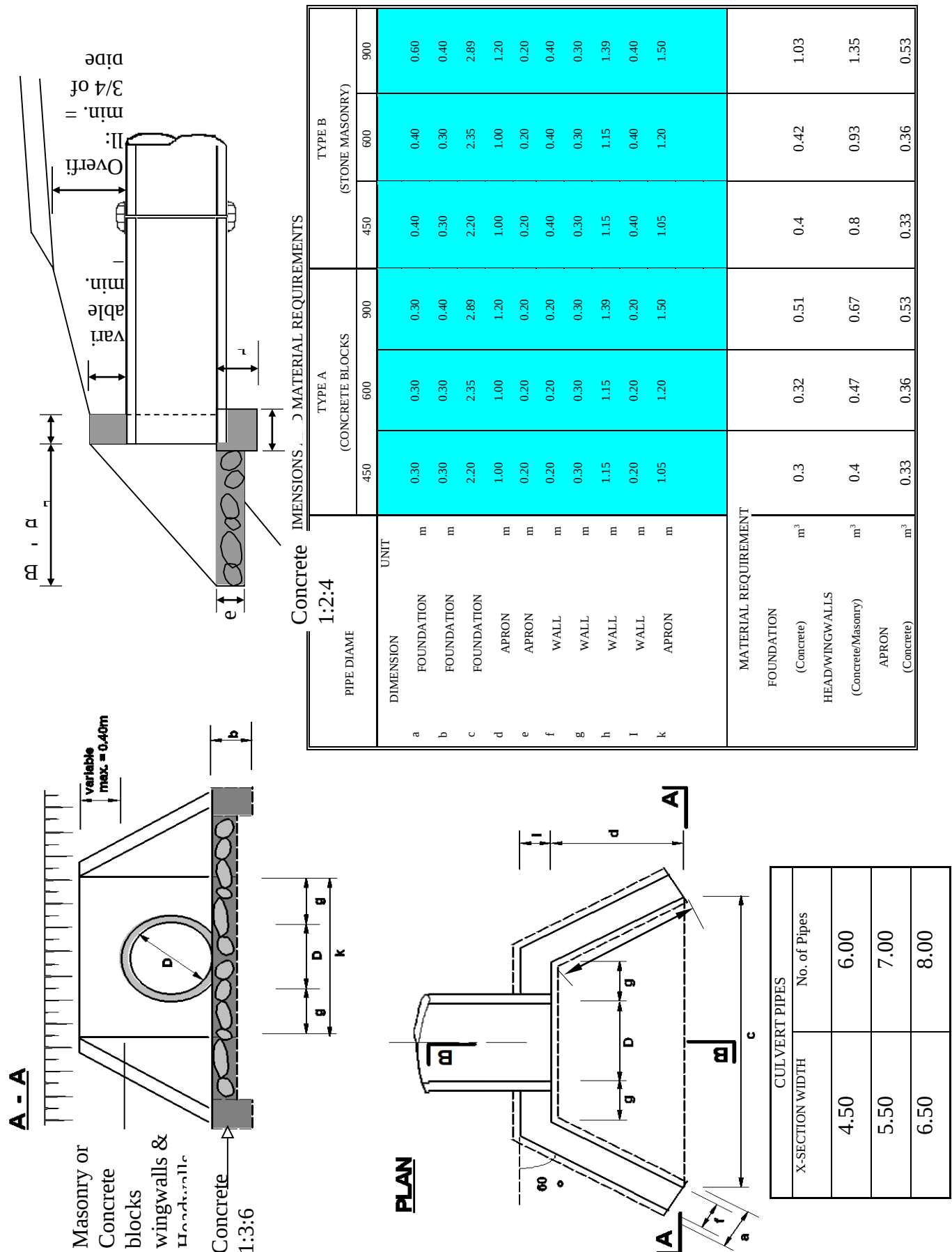
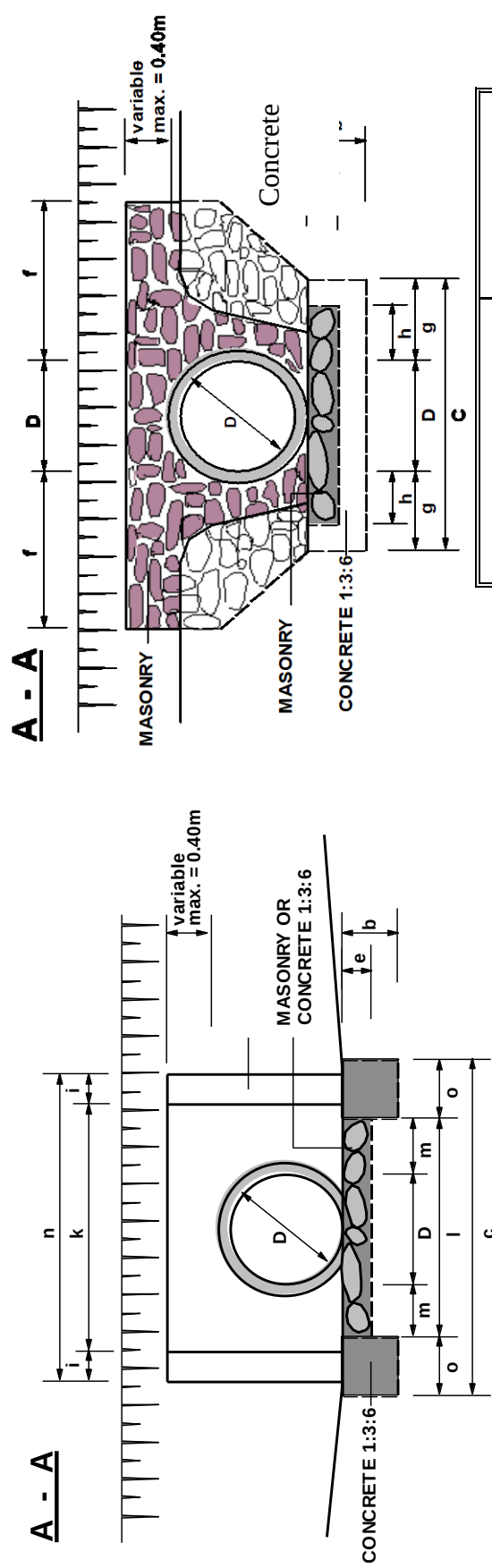
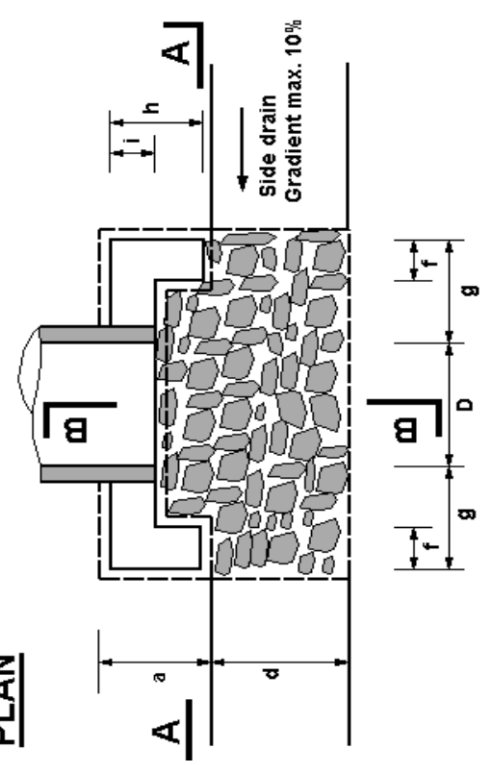


FIGURE C.9 HEADWALL TYPE 3B (STONE MASONRY HEADWALLS)

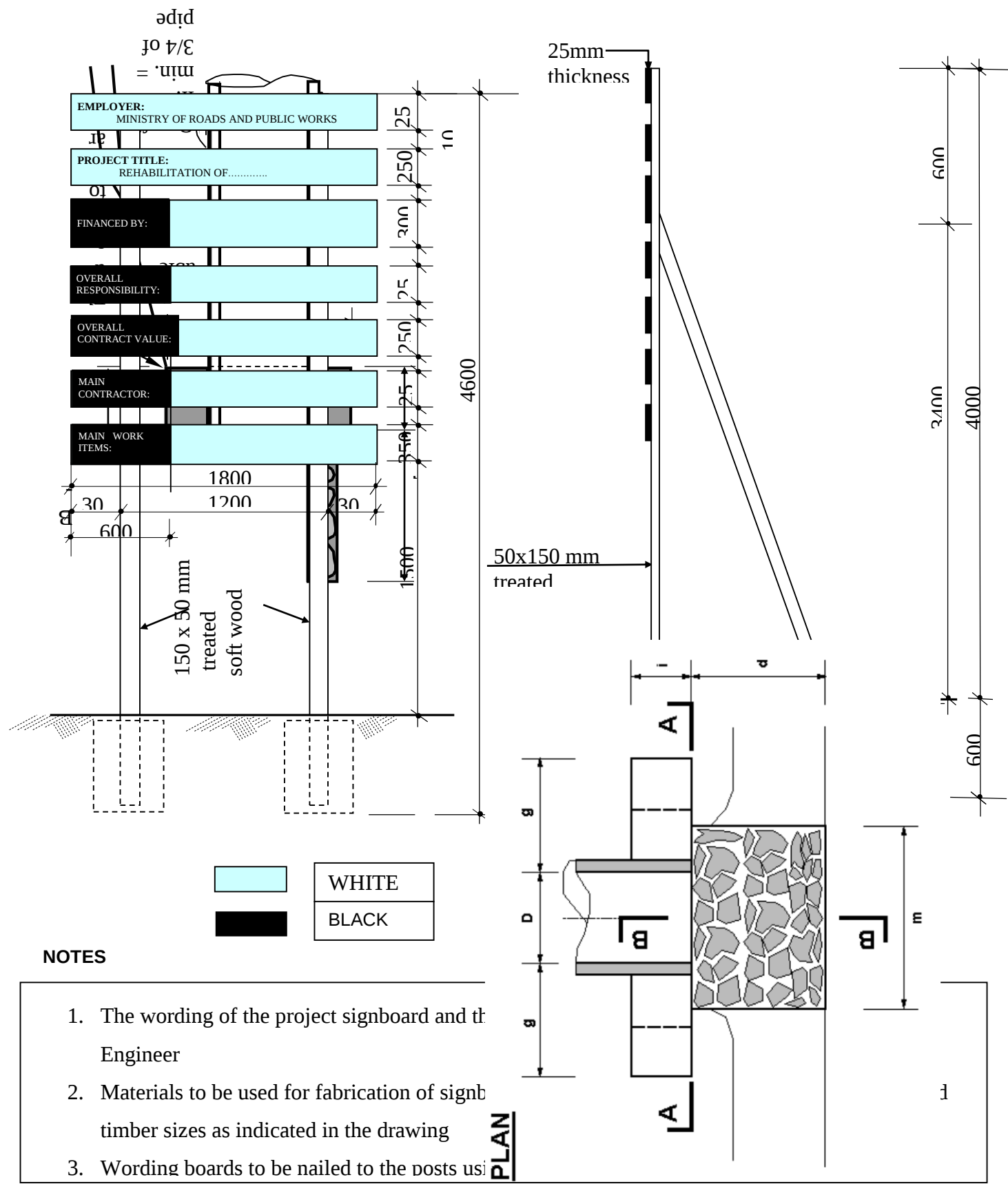


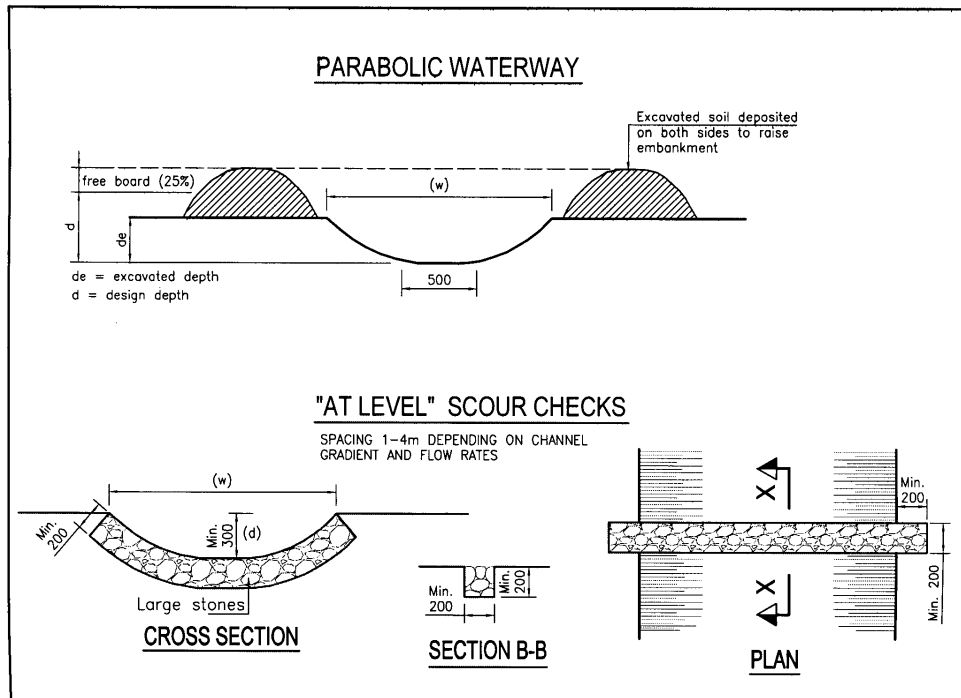
PLAN



PIPE DIAMETER IN (M)	TYPE B (CONC. BLOCKS)	
	450	600
a	0.40	0.40
b	0.30	0.30
c	1.55	1.70
d	0.90	0.90
e	0.20	0.20
f	0.75	0.75
g	0.50	0.50
h	0.30	0.30
i	0.40	0.40
m	1.05	1.20
MATERIAL REQUIREMENT		
FOUNDATION		
(Concrete 1:3:6)	0.19	0.2
HEAD/WINGWALLS		
(Concrete/Masonry)	0.62	0.69
APRON		
(Concrete 1:2:4)	0.19	0.22

FIGURE C.10 PUBLICITY SIGNBOARD





Quantities Tables

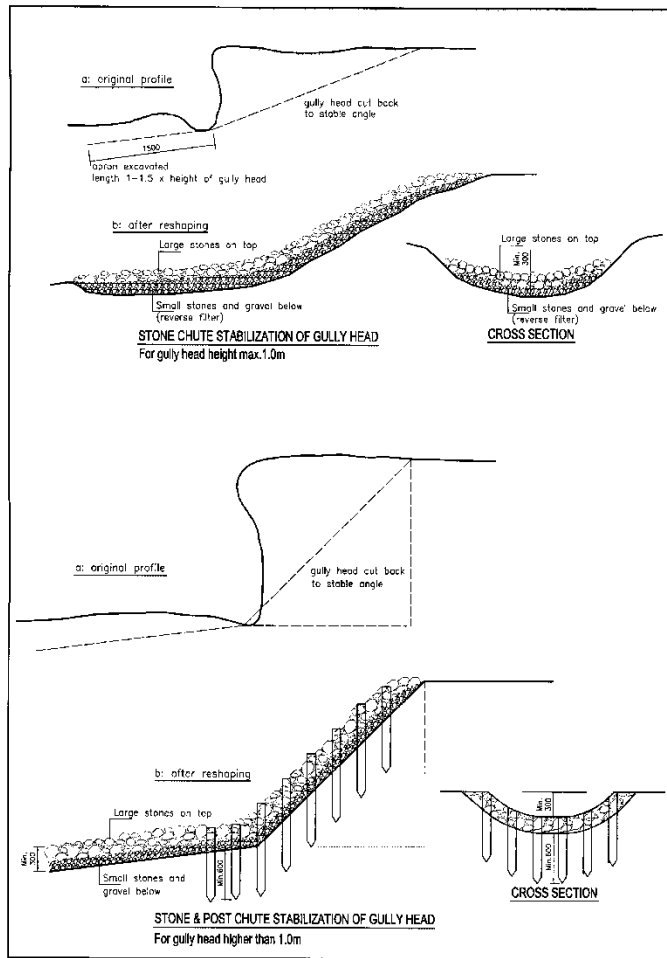
A Parabolic waterway

Top width (m)	Depth	Excavation volume (m ³ /m)
1.50	0.6	0.6
2.00	0.6	0.8
3.00	0.75	1.5

B At level scour check

Top width (m)	Excavation volume (m ³)	Hardcore volume (m ³)
1.50	0.10	0.10
2.00	0.15	0.15
3.00	0.25	0.25

Figure C9c- At level Scour checks



Quantities Tables

A. Gully head shaping and stone lining

Top width (m)	Depth (m)	Length (m)	Excavation volume (m ³ /)	Hardcore Volume (m ³)
1.50	0.3	3.20	0.80	1.0
1.50	0.3	3.20	1.20	1.5
2.00	0.3	3.20	1.60	2.0

B. Gully Head shaping, stone & posts lining

Top width (m)	Depth (m)	Length (m)	Excavation volume (m ³ /)	Hardcore Volume (m ³)
2.0	0.3	3.00	1.50	1.80
2.0	0.3	3.40	2.40	2.0
2.0	0.3	4.50	4.60	2.70
2.0	0.3	6.70	10.20	4.0

