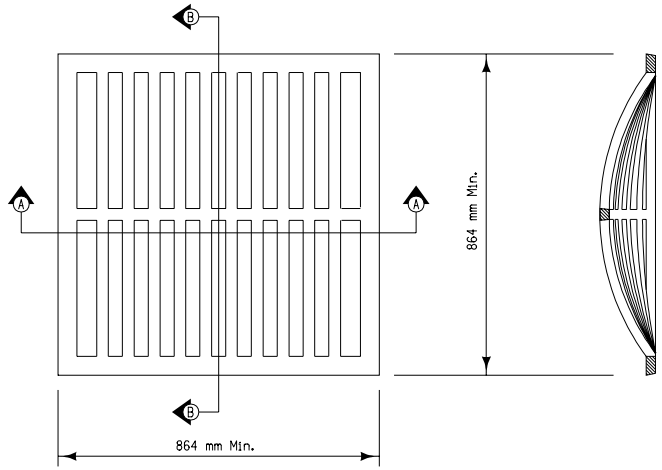
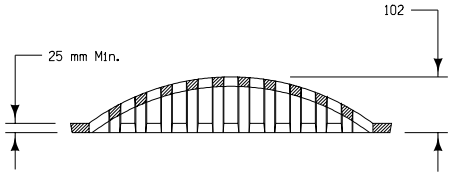
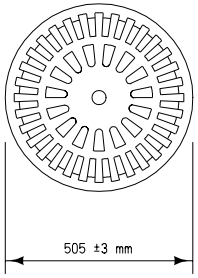


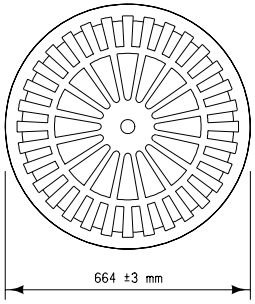


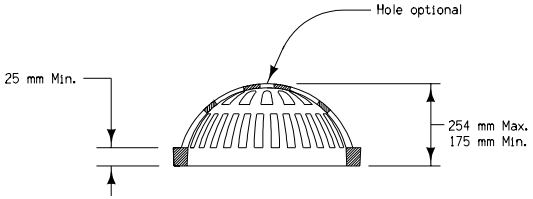
SECTION A-A

TYPE 1 GRATE

Minimum Mass = 82 kg

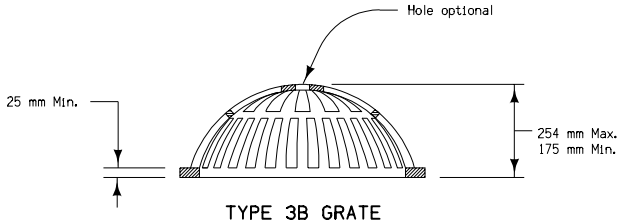






TYPE 3A GRATE
FOR PLACEMENT ON 450 mm PIPE

Minimum Mass = 34 kg
Minimum Number of Ribs = 16



TYPE 3B GRATE
FOR PLACEMENT ON 600 mm PIPE

Minimum Mass = 50 kg
Minimum Number of Ribs = 20

All dimensions given in millimeters unless noted.

M

METRIC VERSION

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN **RA-66A**

REVISION: Revise General Notes.

REVISION NO.	REVISION DATE
1	10-21-03

William J. Stein
APPROVED BY DESIGN METHODS ENGINEER

INTAKE GRATES
TYPES 1, 3A, AND 3B