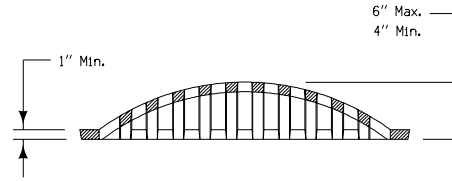


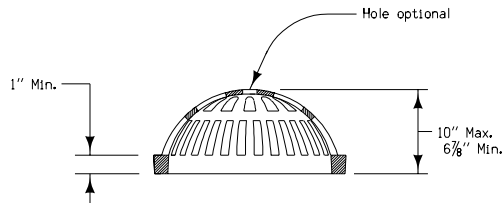
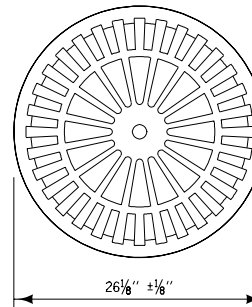
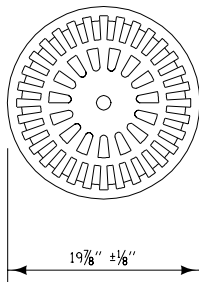
SECTION B-B



SECTION A-A

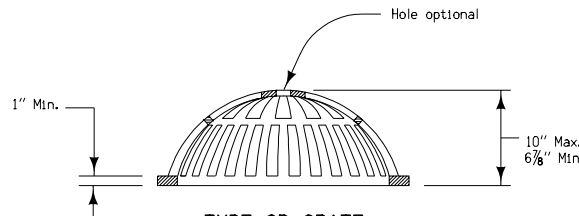
TYPE 1 GRATE

Minimum Weight = 180 lbs.




**TYPE 3A GRATE
FOR PLACEMENT ON 18" PIPE**

Minimum Weight = 75 lbs.
Minimum Number of Ribs = 16



**TYPE 3B GRATE
FOR PLACEMENT ON 24" PIPE**

Minimum Weight = 110 lbs.
Minimum Number of Ribs = 20

 Iowa Department of Transportation Highway Division	
STANDARD ROAD PLAN RA-66A	
<small>REVISION: Remove General Notes; Show 4" to 6" Range in Section A-A.</small>	<small>REVISION NO.</small> 2
<small>APPROVED BY DESIGN METHODS ENGINEER</small> <i>William J. Stein</i>	<small>REVISION DATE</small> 10-19-04
INTAKE GRATES TYPES 1, 3A, AND 3B	