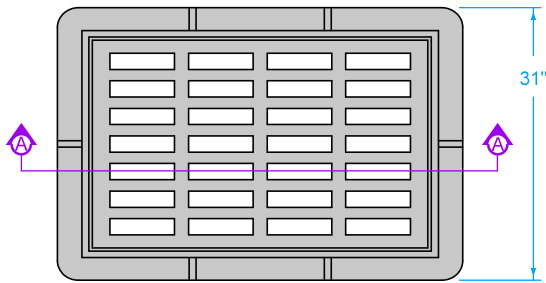
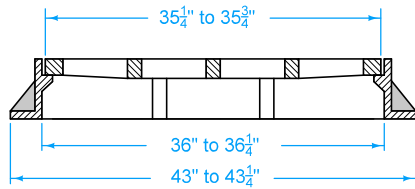


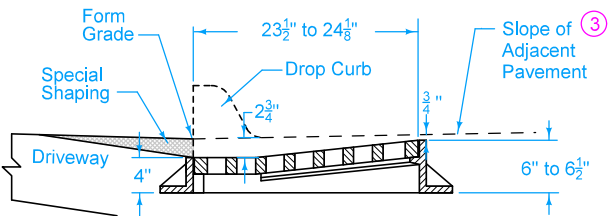
TYPE Q ^①
 Driveway Grate
 (Minimum open area 370 in²)



PLAN

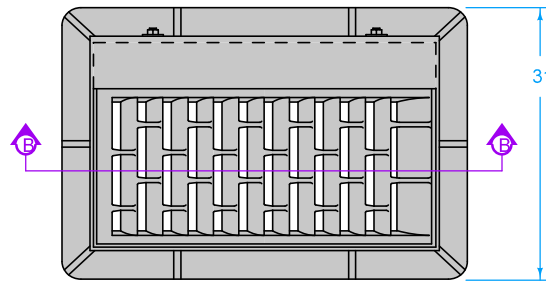


SECTION A-A

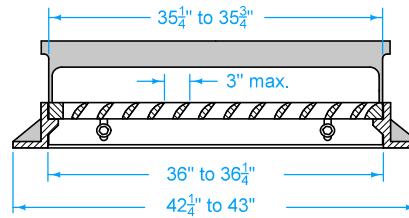


TYPICAL SECTION

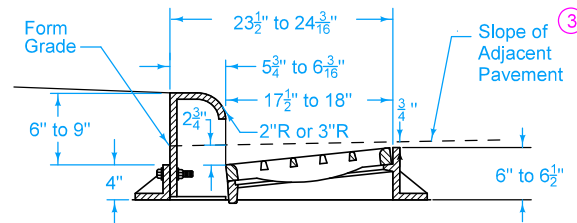
TYPE R ^②
 Curb Inlet Grate
 (Minimum open area 180 in²)



PLAN



SECTION B-B



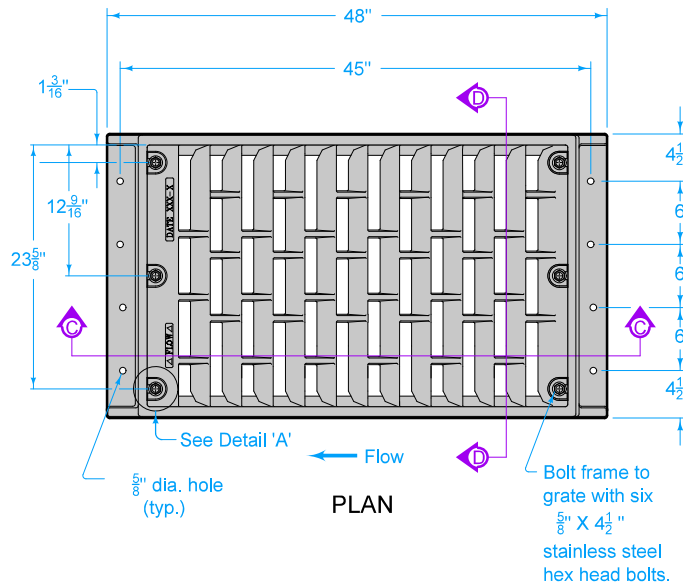
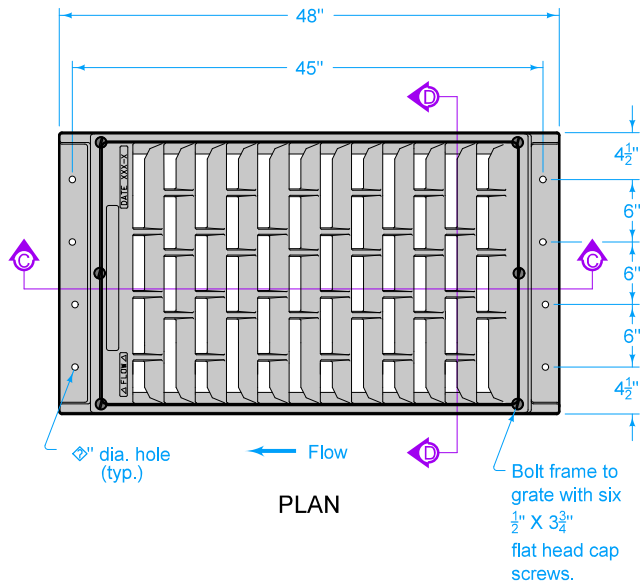
TYPICAL SECTION

- ① For use at curb drops for driveways. Use only when specified in the contract documents.
- ② Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed.
- ③ For details of boxout pavement, refer to SW-514.

FIGURE 6010.603 SHEET 1 OF 2

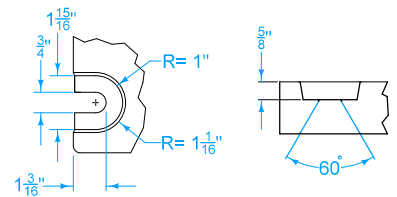
SUDAS	IOWADOT	REVISION
		5 04-17-18
FIGURE 6010.603	STANDARD ROAD PLAN	SW-603
		SHEET 1 of 2
REVISIONS: Added dimension on back of grate on page 1. Replace Iowa DOT and SUDAS logos.		
<i>Paul D. Wigand</i> SUDAS DIRECTOR		<i>Brian Smith</i> DESIGN METHODS ENGINEER
CASTINGS FOR GRATE INTAKES		

TYPE S (2) (4)
 Barrier Intake Grate
 (Minimum open area 300 in²)

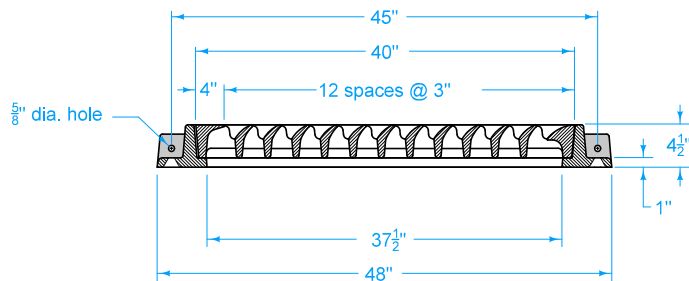


- (2) Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed. The Contractor has the choice of which Type S Grate to use.
- (4) Use ductile iron frame castings meeting the requirements of ASTM A 536.

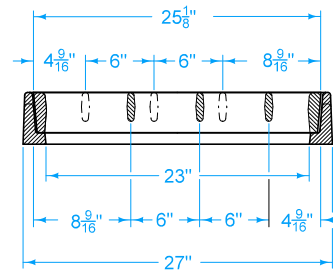
Frame minimum weight = 220 lbs.
 Grate minimum weight = 340 lbs.



DETAIL 'A'
 Bolt Slot Detail



SECTION C-C



SECTION D-D

SUDAS	IOWADOT	REVISION
		5 04-17-18
FIGURE 6010.603	STANDARD ROAD PLAN	SW-603
		SHEET 1 of 2
REVISIONS: Added dimension on back of grate on page 1. Replace Iowa DOT and SUDAS logos.		
Paul D. Wigand SUDAS DIRECTOR		Brian Smith DESIGN METHODS ENGINEER
CASTINGS FOR GRATE INTAKES		

FIGURE 6010.603 SHEET 2 OF 2