

1. CONCRETE: Chamfer exposed edges 20 mm unless otherwise shown. Give all concrete surfaces a Class 1 finish.

2. Provide 50 mm minimum concrete cover to the face of any

3. See Standard M604-2 for Type A Frame and Grate and Standard M604-3 for Type B Frame and Grate.

4. Make all coupling band connections watertight by placing

5. Fabricate tapered portion of slip-joint from either flat or

6. Place Class 2 riprap conforming to Section 251 for

1200 min.

7. Dimensions without units are millimeters.

5 mm bead of approved caulking under each half of the

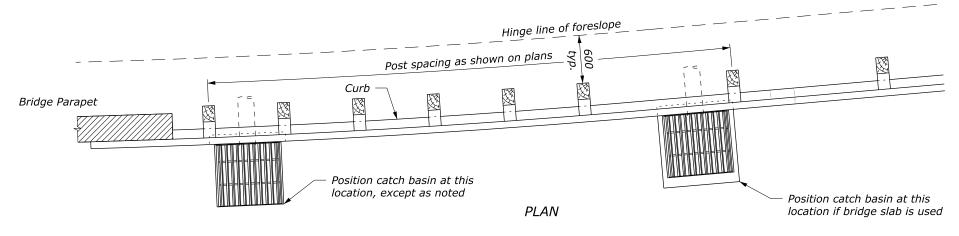
NOTE:

bar unless otherwise shown.

bands before tightening.

corrugated sheets.

protective apron.



## CATCH BASIN LAYOUT AT BRIDGE ENDS

Hinge line of foreslope

Post spacing  Curb	as shown on plans	750 min.	End curb
Beam guardrail — 0801		<b>†</b>	- Taper curb from normal height to zero
	950		
	A		

300 for 200 down drains 375 for 300 down drains 525 for 450 down drains

Variable

Outlet pipe

Section 602

Wood or steel post and block out

TABLE OF QUANTITIES

TYPE A

32 kg

98 kg

0.6 m³

Align curb with face of guardrail

150

150

1:10

DESCRIPTION

Reinforcing Steel

Structural Steel

Concrete

Asphalt or

concrete pavement

All reinforcing

#13 at 300±. Bend to clear pipe

1050

FRAME AND GRATE

TYPE B

32 kg

108 kg

0.6 m³

300 Protective apron

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY

**PLAN** 

**PROTECTIVE APRON** 

METRIC STANDARD

# **CATCH BASIN** TYPE 2 WITH DOWN DRAIN

STANDARD APPROVED FOR USE 3/1996 REVISED: 5/1997 6/2005

STANDARD M604-4

CATCH BASIN LAYOUT

Down drain, Section 602 Variable fill slope

1200

SECTION A-A

Section 602

150

Coupling band

600