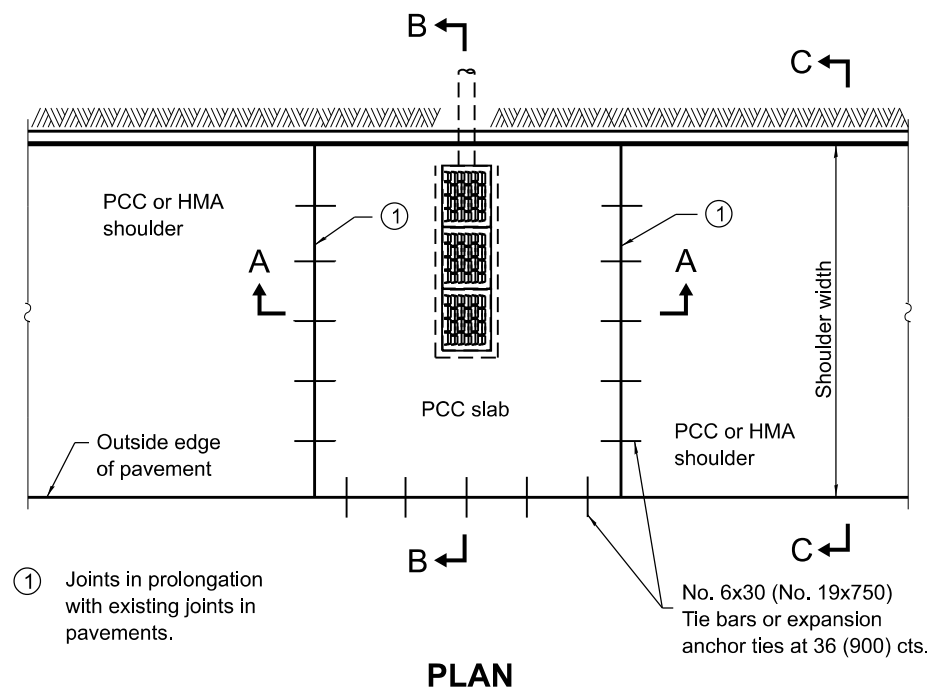
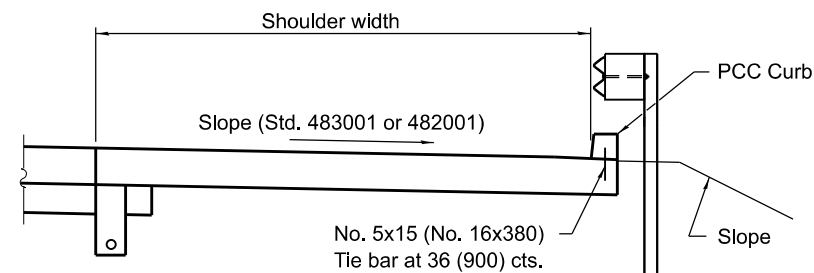
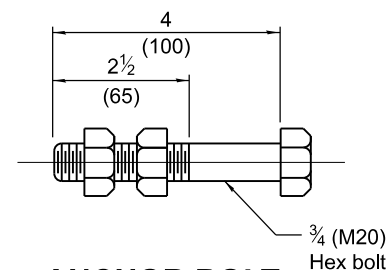




PLAN

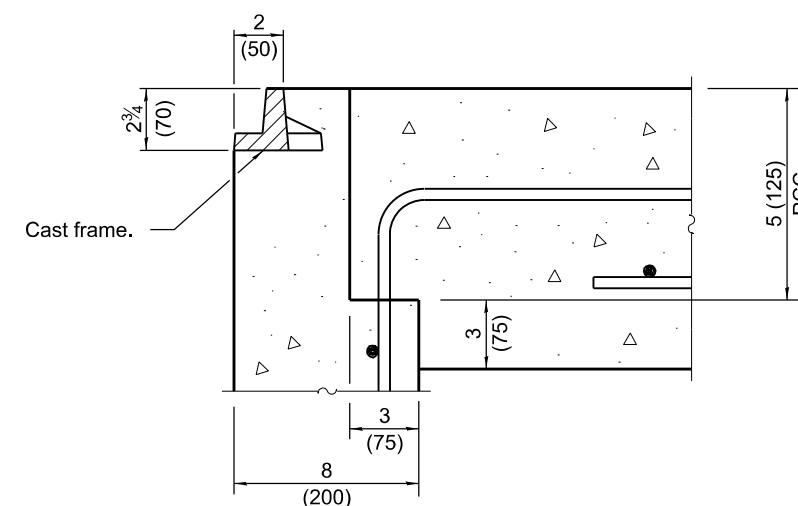


SECTION C-C

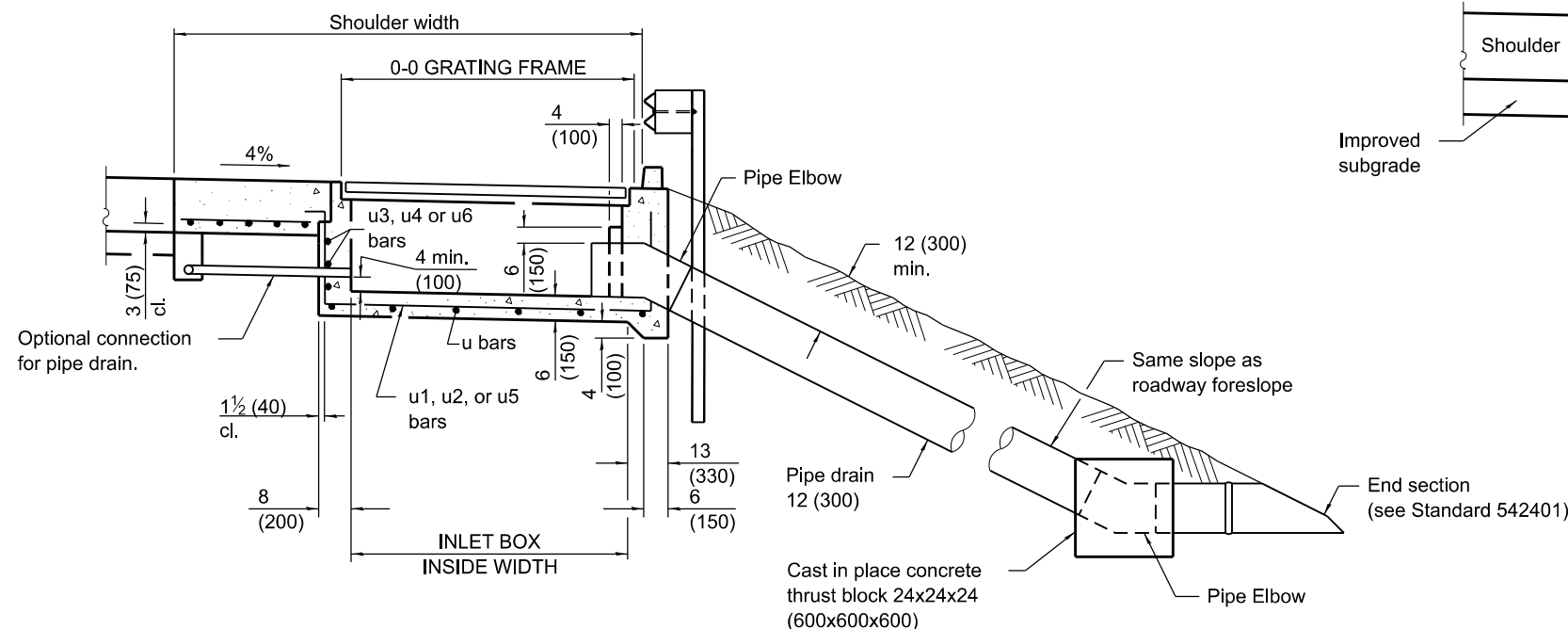


ANCHOR BOLT

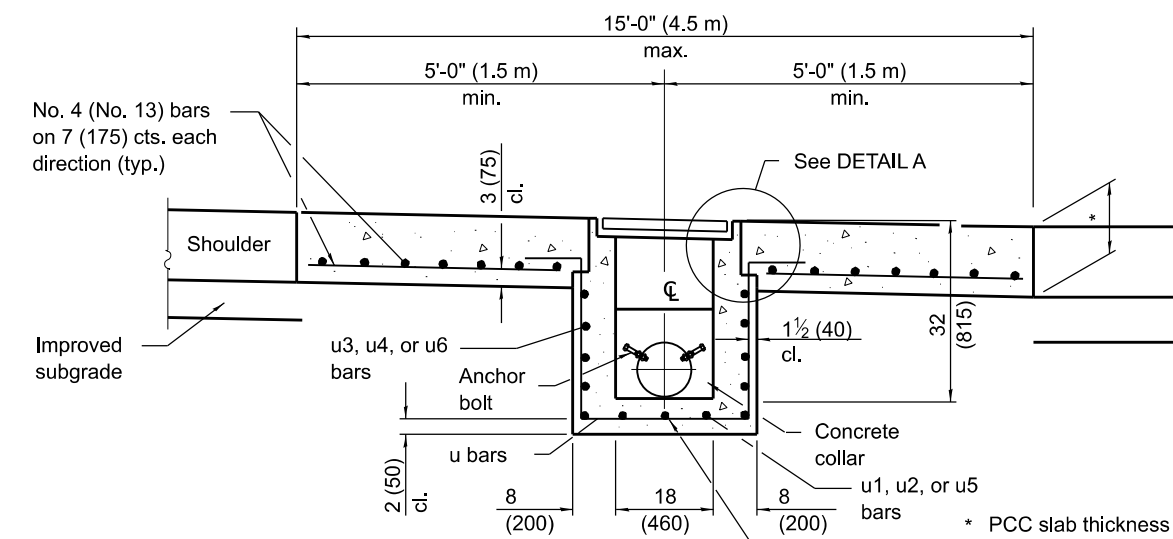
(Used to tie pipe to concrete collar)



DETAIL A



SECTION B-B



SEC. A-A

GENERAL NOTES

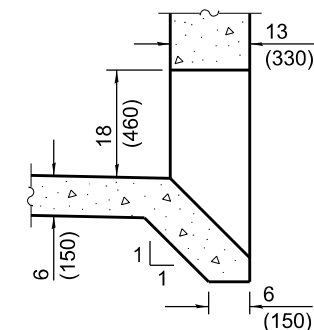
See Standard 420001 for joint details not shown.

See Standard 630001 for details of guardrail not shown.

All exposed edges of the inlet, except the upper perimeter, shall be beveled ¾ (20).

For placement of drainage elements on existing construction with existing rigid pavement, substitute expansion anchor ties for tie bars. For nonrigid pavements or monolithic construction of PCC slab and shoulder, omit tie bars.

All dimensions are in inches (millimeters) unless otherwise shown.



BOX OUTLET WHEN PRECAST

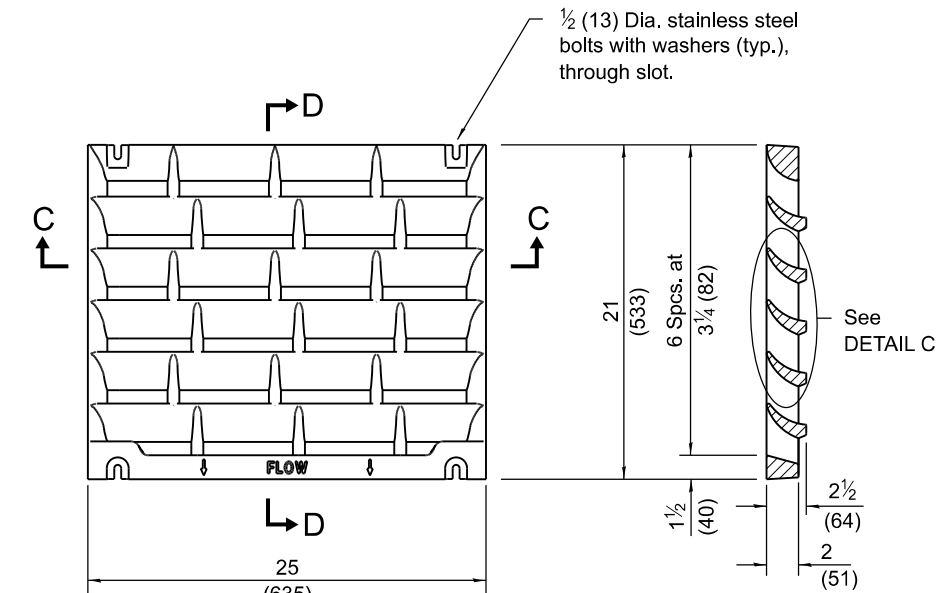
INLET TYPE	SHOULDER WIDTH	O-O GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type E	8' (2.4 m)	4'-4" (1.325 m)	3'-11" (1.195 m)	18 (460)
Type F	10' (3.0 m)	6'-5" (1.960 m)	6'-0" (1.830 m)	18 (460)
Type G	5' (1.5 m) or less	27 (690)	22 (560)	18 (460)

DATE	REVISIONS
1-1-21	Revised Section B-B, precast box outlet, anchor bolts, rebar and curb details. Added pipe elbows and WWR note.
1-1-18	Changed tie bar spacing to 36 (900) cts.

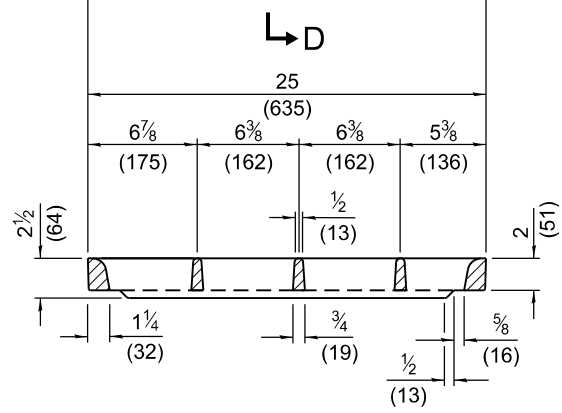
SHOULDER INLET WITH CURB

(Sheet 1 of 2)

STANDARD 610001-09



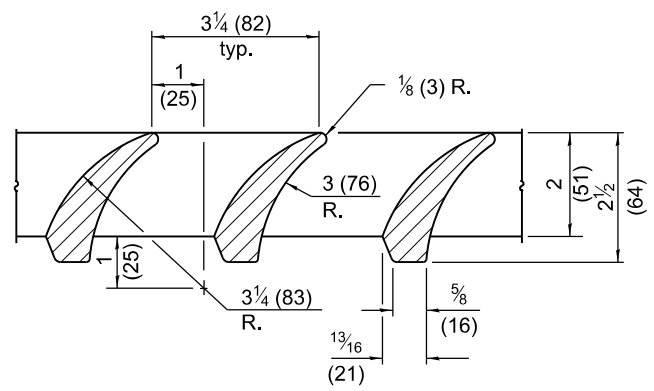
SECTION D-D



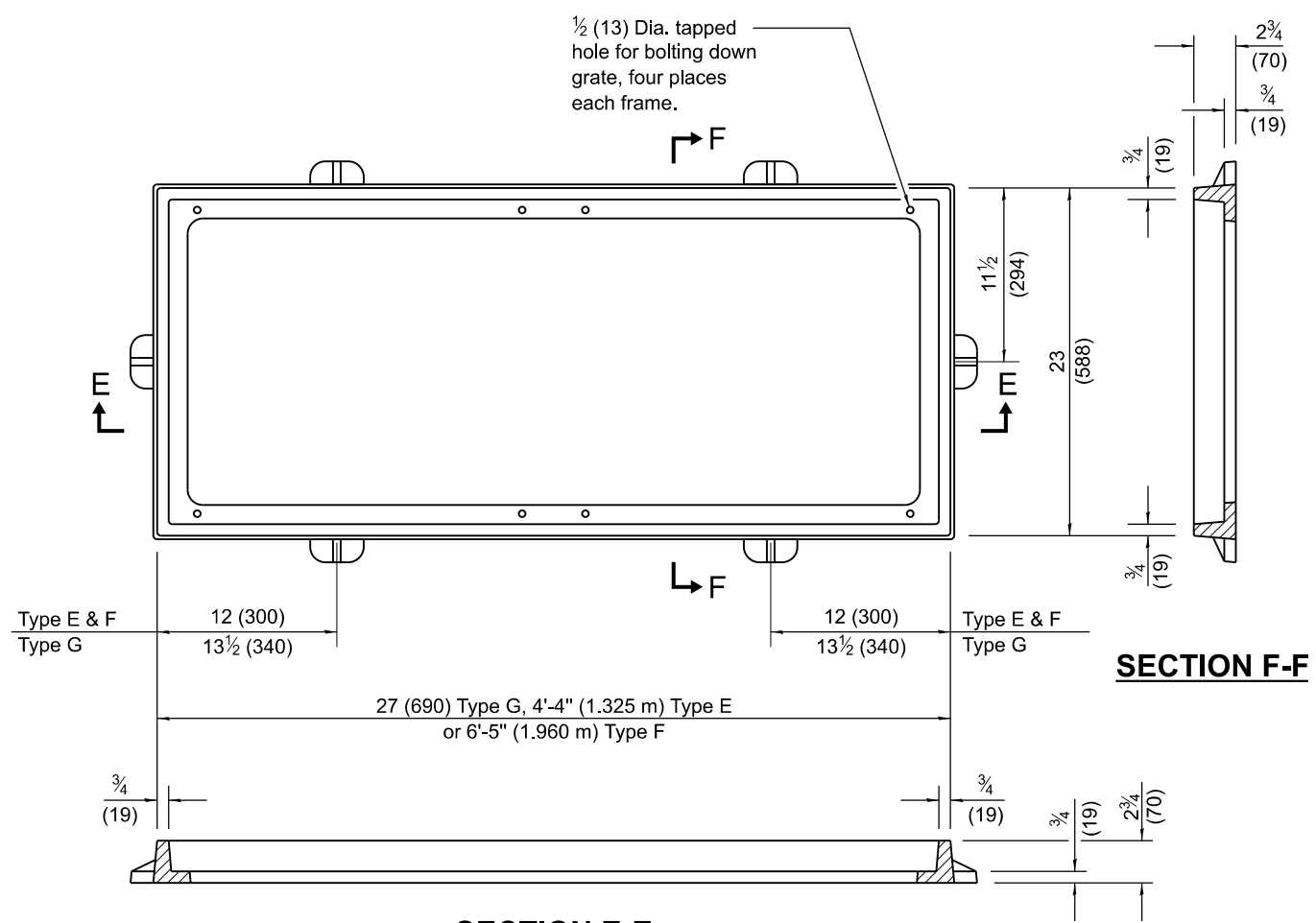
SECTION C-C

DETAIL OF CAST GRATE

Type G requires 1 grate
 Type E requires 2 grates
 Type F requires 3 grates

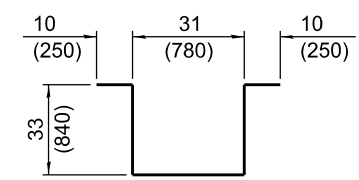


DETAIL C

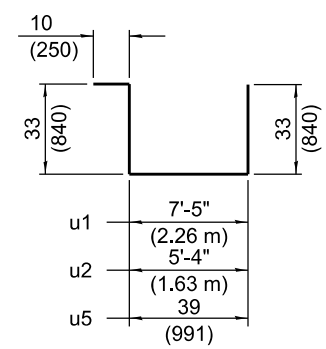


SECTION E-E

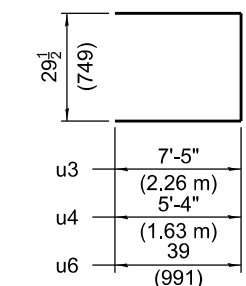
DETAIL OF CAST FRAME
 (Type E shown)



BAR u



BARS u1, u2, & u5



BARS u3, u4 & u6

INLET BOX

REQUIRED MATERIAL			
TYPE F			
Bar	Qty.	Size	Length
u	8	No. 4 (No.13)	9'-9" (2.96 m)
u1	3	No. 4 (No.13)	13'-9" (4.19 m)
u3	4	No. 4 (No.13)	17'-3 1/2" (5.27 m)
Concrete		cu. yds. (m³)	1.7 (1.3)
Reinf. bars		lbs. (kg)	126 (57.2)
Grating		sq. ft. (m²)	10.9 (1.02)
TYPE E			
Bar	Qty.	Size	Length
u	6	No. 4 (No.13)	9'-9" (2.96 m)
u2	3	No. 4 (No.13)	11'-8" (3.56 m)
u4	4	No. 4 (No.13)	13'-1 1/2" (4.00 m)
Concrete		cu. yds. (m³)	1.3 (1.0)
Reinf. bars		lbs. (kg)	98 (44.5)
Grating		sq. ft. (m²)	7.3 (0.68)
TYPE G			
Bar	Qty.	Size	Length
u	4	No. 4 (No.13)	9'-9" (2.69 m)
u5	3	No. 4 (No.13)	9'-7" (2.92 m)
u6	4	No. 4 (No.13)	8'-11 1/2" (2.73 m)
Concrete		cu. yds. (m³)	0.5 (0.4)
Reinf. bars		lbs. (kg)	70 (31.8)
Grating		sq. ft. (m²)	3.6 (0.34)

NOTES

Welded wire reinforcement (WWR) may be used in lieu of reinforcement bars. Only one layer of WWR is permitted to avoid congestion.

SHOULDER INLET WITH CURB

(Sheet 2 of 2)

STANDARD 610001-09

Illinois Department of Transportation

APPROVED January 1, 2021

Michael B. ...

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

...

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97