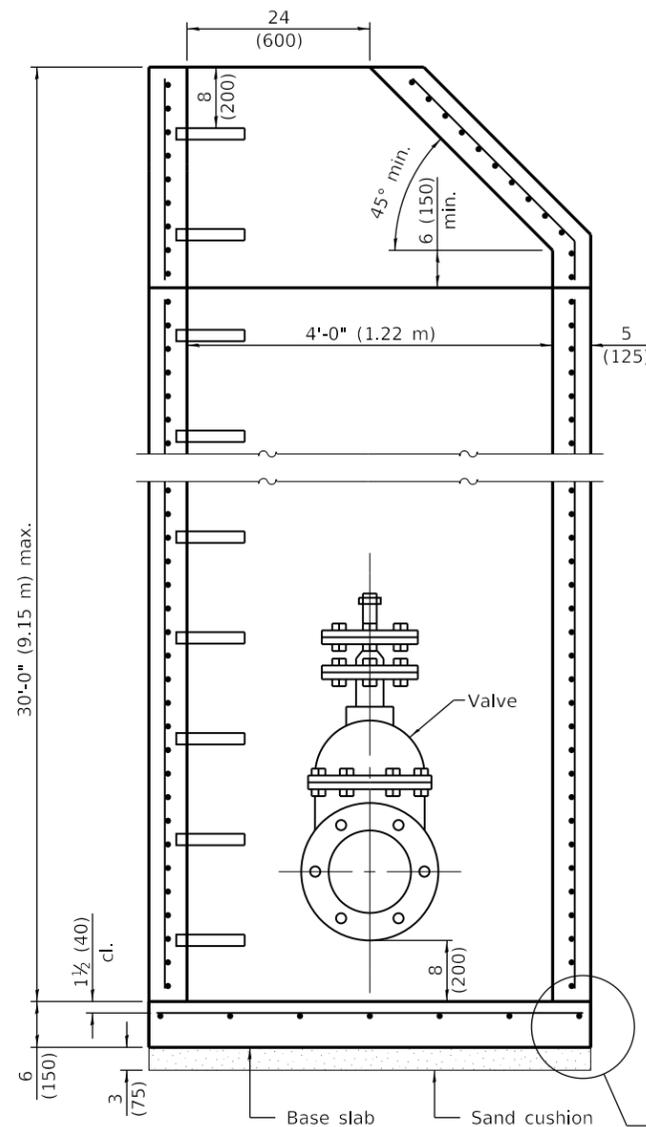
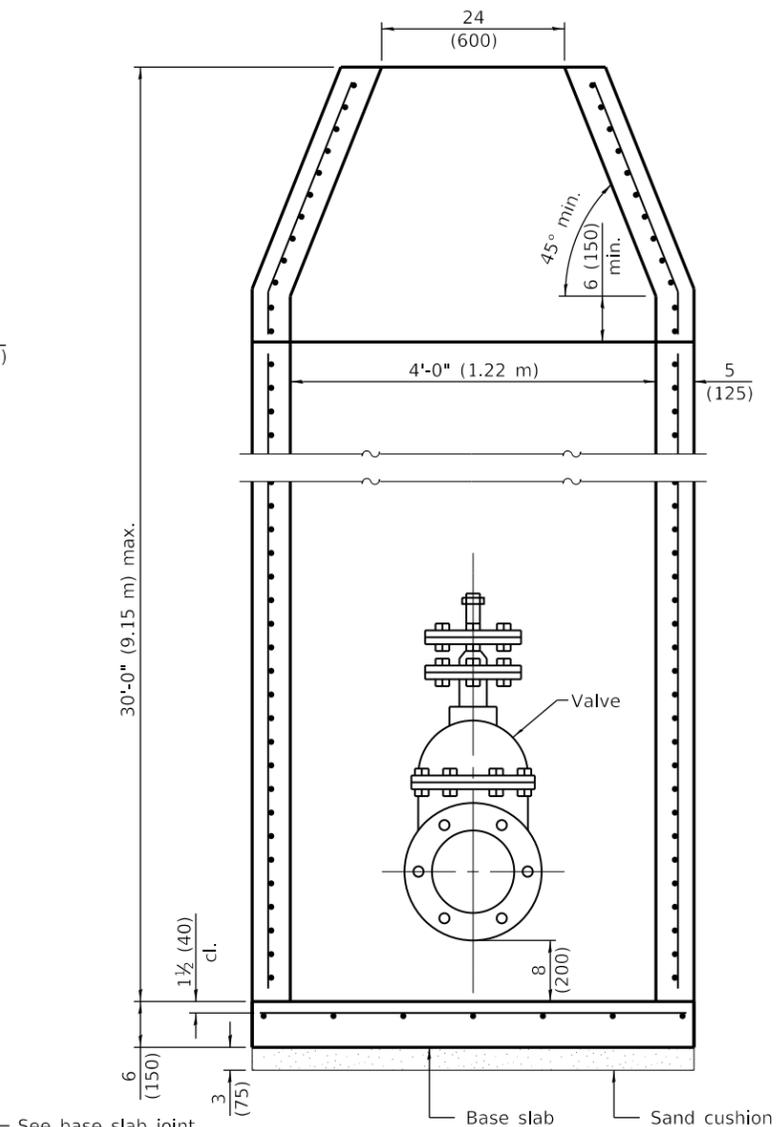


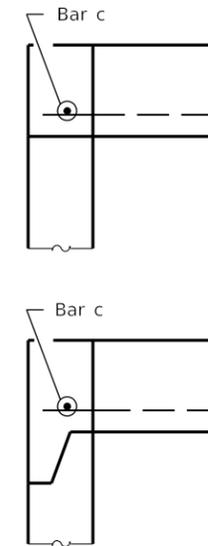
**SECTION THRU VALVE VAULT**  
(Without conical top)



**SECTION THRU VALVE VAULT**  
(With conical top)



**SECTION THRU VALVE VAULT**  
(With concentric conical top)



**FLAT SLAB TOP JOINT CONFIGURATIONS**  
(Shown at access hole)

**GENERAL NOTES**

Use this standard for water mains  $\leq$  8 (200).

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

PASSED January 1, 2021  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
*J. E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

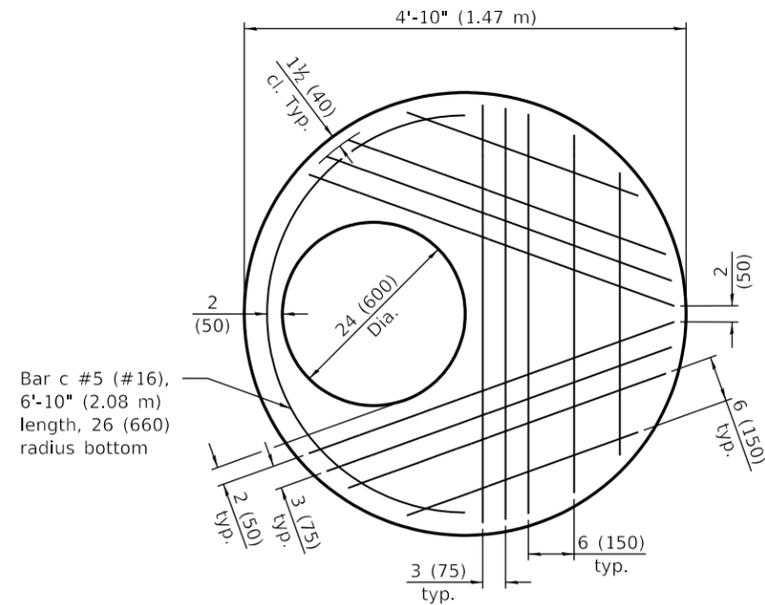
ISSUED 1-1-97

DATE	REVISIONS
1-1-21	Revised lifting hole general note.
3-1-19	Moved wall reinforcement from inside face to middle.

**PRECAST VALVE VAULT TYPE A**  
**4' (1.22 m) DIAMETER**

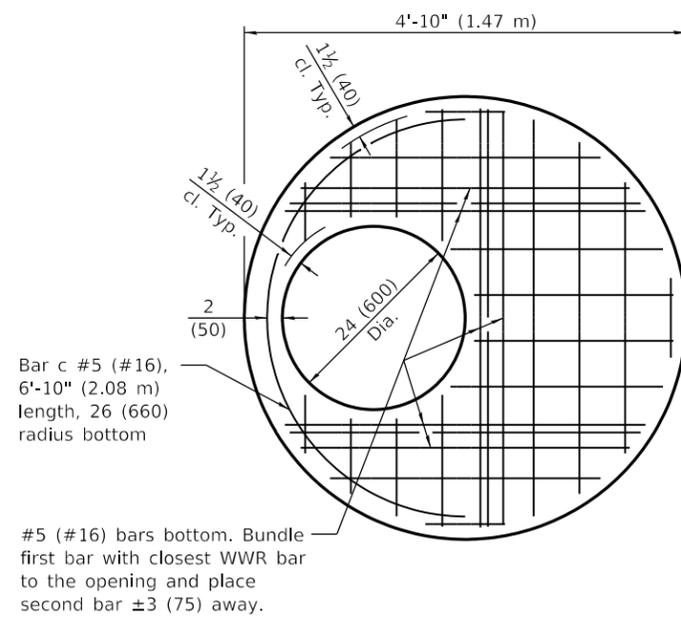
(Sheet 1 of 2)

**STANDARD 602501-06**



**PLAN - FLAT SLAB TOP**

(Showing layout of reinforcement bars and c bars)



**PLAN - FLAT SLAB TOP**

(Showing layout of welded wire reinforcement and c bars)

**FLAT SLAB TOP REINFORCEMENT**

Location	WWR (each direction)		Rebar		
	A <sub>s</sub> (min.)	Spacing (max.)	A <sub>s</sub> (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)

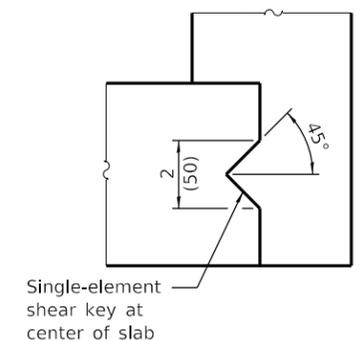
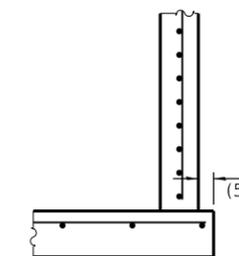
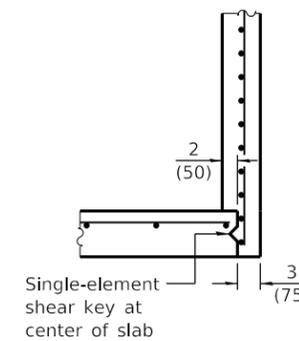
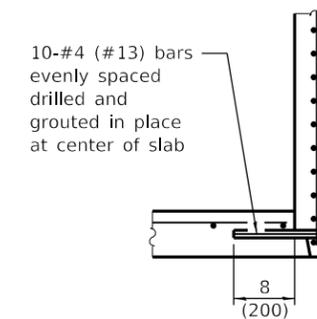
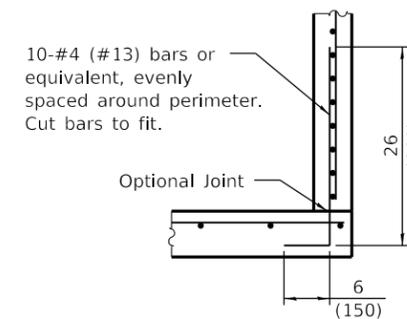
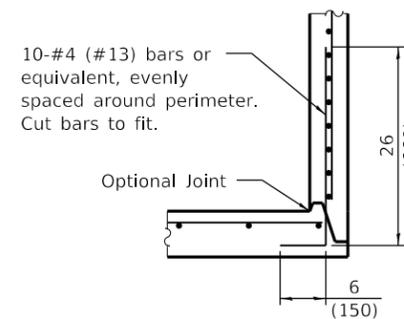
\* Only one layer of WWR permitted to avoid congestion.

**WALL REINFORCEMENT**

Orientation	WWR or Rebar	
	A <sub>s</sub> (min.)	Spacing (max.)
Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

**BASE SLAB REINFORCEMENT**

Location	Total Height	WWR or Rebar (each direction)	
		A <sub>s</sub> (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)



**SHEAR KEY GEOMETRY**  
(Reinforcement not shown for clarity)

**BASE SLAB JOINT CONFIGURATIONS**

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ISSUED 1-1-97

**PRECAST VALVE VAULT TYPE A**  
**4' (1.22 m) DIAMETER**

(Sheet 2 of 2)

**STANDARD 602501-06**