Flush with finished grade

"Manhole Adjustment Sequence" see Std. Dwg. GP312

6' min. above unimp.
ground level

6' Min. 12' Max.

Precast grade ring(s)
(As required)

PreCast riser(s)
(As required)

12" max.

3" clear

Precast flat slab top

46' Max.

4' Min.

ROMAC SS1 or SS2 Coupler

ROMAC SS1 or SS2
Coupler

12" Max

36" Min.

Flower shall be pre-cast base or concrete
poured in place (poured in place requires
prior approval by City Engineer)

Compacted base (95% R.D. 3/4"-0"
crushed rock, min. 6" thick), or other
base rock approved by the City Engineer.

Floor shall be pre-cast base or concrete
poured in place (poured in place requires
prior approval by City Engineer)

Pipesize Ø A B C D

24" or less 48" 1" 24" 6"

27" to 36" 60" 6" 24" 9"

39" to 42" 72" 7" 24" 9"

FLOW

Typical channel section

Channel Plan View

Flow

Main channel

General Notes:
1. See concrete standards page for additional requirements.
2. Set joints inside & out 1/4" wide, meeting Fed. Spec.
   SS-5-00210 (CSA-FSS).
3. Form straight "U" channel with smooth, vertical mortar side, 1/2 pipe acceptable.
4. Make angular changes with uniform "U" channel, with smooth curved path.
5. Finish pipe ends flush with inside walls.
6. Make changes in channel size with a smooth, tapering transition.
7. Provide manufactured flex joint within 1/2 of outside wall for all rigid pipes by the use of appropriate
   "Romac" couplings.
8. When PVC is used, provide manufactured water stop. Flex joint not permitted.
9. Sand collars required when poured in place manhole base is used.
10. If pipe diameter is greater than 42", "special manhole structure" Std. Dwg. GP308 required.
11. Drop manhole required where slope of incoming lateral exceeds 2% grade, see Std. Dwg. GP352.
12. Straight face of eccentric manhole section to face downstream.
13. Ring and cover to project 6" above adjacent ground in unimproved areas or to be flush with finished
   pavement surface.
14. Flat top manhole may be installed when distance from rim to flow line is less than 4'-6" and with prior
   approval of City Engineer.
15. Sewage service laterals shall not be connected directly to manholes.
16. Water tight lid required in flood plain, otherwise use 2-hole lid.
17. All precast products shall conform to ASTM C478.