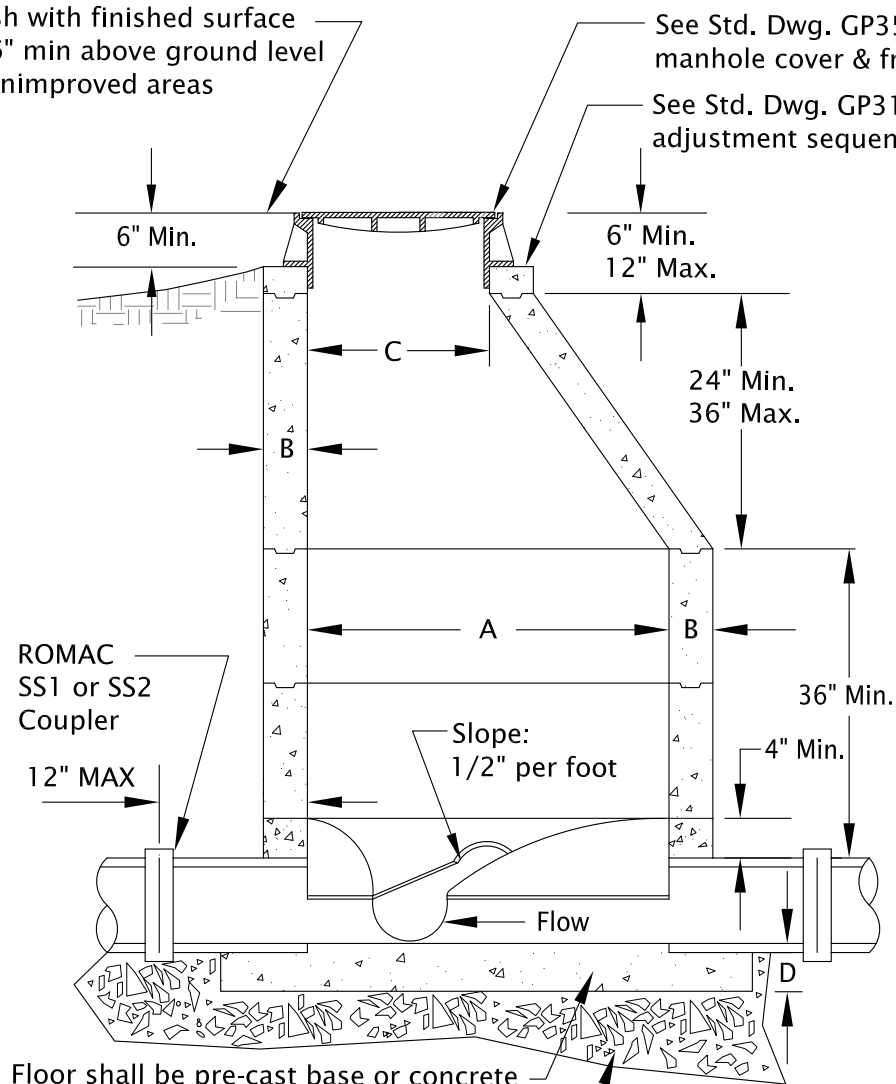


Flush with finished surface or 6" min above ground level in unimproved areas

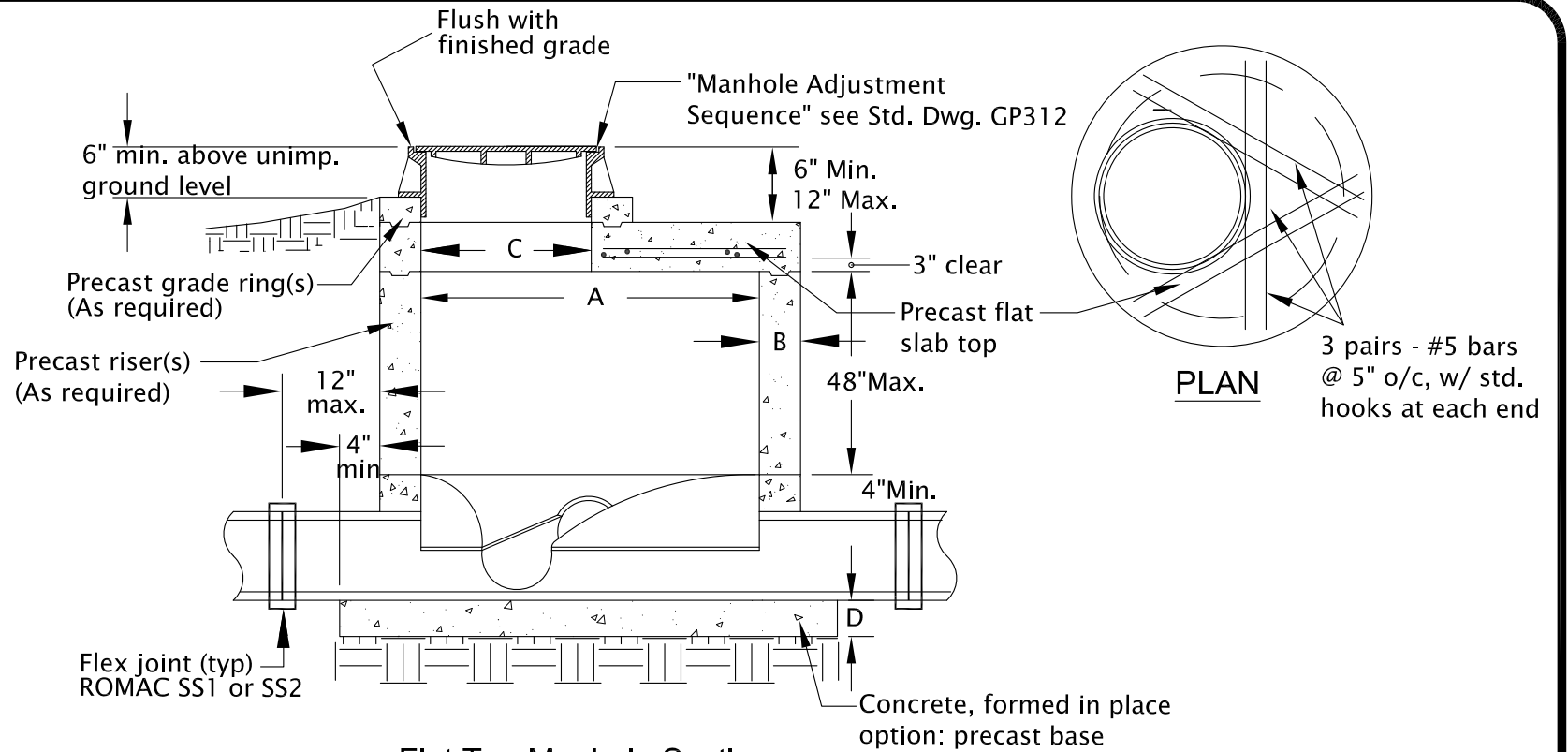


Floor shall be pre-cast base or concrete poured in place (poured in place requires prior approval by City Engineer)

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

PIPE SIZE Ø	A	B	C	D
24" OR LESS	48"	5"	24"	6"
27" TO 36"	60"	6"	24"	9"
39" TO 42"	72"	7"	24"	9"

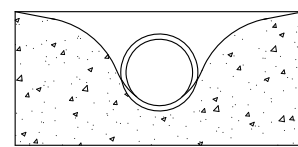
See Std. Dwg. GP356 for manhole cover & frame detail
See Std. Dwg. GP312 "manhole adjustment sequence"



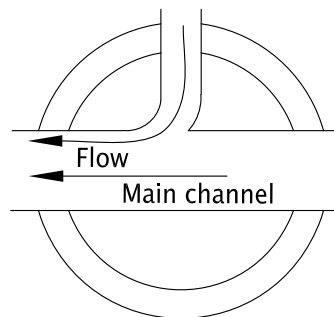
Flat Top Manhole Section

General Notes:

1. See concrete standards page for additional requirements.
2. Set joints inside & out 1:2 mortar, alternate: butyl joint sealant ST-8, 1" 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 12" 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. Sewer 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.



Typical channel section



Channel Plan View

The selection and use of this standard drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

Designed By: STAFF
 Drawn By: KJD
 Checked By: MPT
 Approved: JMC

No.	Date	Revisions	App. By



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STANDARD ECCENTRIC MANHOLE AND FLAT TOP MANHOLE

2018

DWG. NO. GP338