



M.H. DEPTH	A*	B	C	D **
UP TO 11.99'	48"	2"	36"	6"
12' - 15' *	60"	2"	36"	6"

PIPE SIZE	A*
6" - 12"	48"
14" - 24"	60"
> 24"	72"

\* MANHOLES 12' OR DEEPER ALLOWED ONLY ON CASE-BY-CASE BASIS WITH CEO/EXECUTIVE DIRECTOR APPROVAL

\*\* BASE DEPTH AND REINFORCEMENT TO BE DESIGNED BY MANHOLE PRECASTER AND APPROVED BY TOHO

#### NOTES:

- THIS DETAIL SHALL APPLY TO THE FOLLOWING MANHOLES:
  - MANHOLES 12' OR DEEPER.
  - MANHOLES THAT RECEIVE FORCE MAINS.
  - MANHOLES WITH DROP CONNECTIONS.
  - MANHOLES WITHIN 400' UPSTREAM OR DOWNSTREAM OF 10.2 OR 10.3 ABOVE.
- PRECAST BASE, RISER(S), AND CONE SECTIONS SHALL BE POLYMER CONCRETE.
- ALL GROUT FILL USED INSIDE A POLYMER MANHOLE SHALL BE POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER.
- ALL PORTLAND CEMENT, GROUT, OR CONCRETE FILL USED OUTSIDE OF A POLYMER MANHOLE SHALL REQUIRE XYPEX ADMIX C-1000 RED, XYPEX XYCRYLIC ADMIX, OR APPROVED EQUAL.
- ALL INTERIOR OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER.
- LIFT HOLES ARE NOT PERMITTED THROUGH PRECAST SECTIONS.
- REINFORCEMENT OF THE PRECAST BASE, RISER(S), AND CONE SHALL BE DESIGNED BY THE MANHOLE PRECASTER AND APPROVED BY TOHO.
- MANHOLE DESIGNS MUST MAINTAIN A MINIMUM OF 50% UNINTERRUPTED WALL AREA ON ANY HORIZONTAL PLANE AND A MINIMUM OF 12" BETWEEN WALL PENETRATIONS.
- CONCENTRIC FLAT TOP SLABS ARE ONLY ALLOWED WHERE THE DEPTH OF COVER OVER THE PIPE IS LESS THAN 48" OR WHERE OTHERWISE APPROVED BY TOHO.
- SERVICE LATERALS SHALL BE PERMITTED DIRECTLY INTO MANHOLES MATCHING THE CROWN ELEVATION OF THE OUTFLOW PIPE ONLY. DROPS OR FILLETED FLUMES ARE NOT PERMITTED FOR LATERALS.
- WHERE MANHOLES ARE NOT IN PAVED AREAS OR COMPLETELY PROTECTED FROM VEHICULAR TRAFFIC, A CONCRETE COLLAR PER TOHO-26 SHALL BE REQUIRED.
- POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER SHALL BE USED TO SKIM COAT THE INTERIOR SURFACE OF THE BRICK RISER / ADJUSTMENT RING(S).



EFFECTIVE DATE:	04/01/2025
BOARD APPROVED DATE:	01/22/2025
PREVIOUS VERSION:	NA
DRAWN BY:	DT
REVISED BY:	DT

## POLYMER MANHOLE

DRAWING NUMBER  
**07.1**