



M.H. DEPTH	A*	B	C	D
UP TO 11.99'	48"	6"	36"	8"
12' - 15' *	60"	8"	36"	10"

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

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

NOTES:

1. PRECAST CONCRETE SHALL BE TYPE 2 CEMENT, 4000 PSI WITH XYPEX ADMIX C-1000 RED, XYPEX XYCRYLIC ADMIX, OR APPROVED EQUAL.
2. ALL PORTLAND CEMENT, GROUT, OR CONCRETE FILL USED INSIDE OR OUTSIDE OF A NON-POLYMER MANHOLE SHALL REQUIRE XYPEX C-1000 RED, XYPEX XYCRYLIC ADMIX OR APPROVED EQUAL.
3. ALL OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH PORTLAND CEMENT WITH XYPEX ADMIX C-1000 RED, XYPEX XYCRYLIC ADMIX, OR APPROVED EQUAL.
4. LIFT HOLES ARE NOT PERMITTED THROUGH PRECAST SECTIONS.
5. REINFORCING STEEL PER ASTM C478 (MOST RECENT EDITION) SHALL BE REQUIRED.
6. MANHOLE DESIGNS MUST MAINTAIN A MINIMUM OF 50% UNINTERRUPTED WALL AREA ON ANY HORIZONTAL PLANE AND A MINIMUM OF 12" BETWEEN WALL PENETRATIONS.
7. 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.
8. 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.
9. THIS DETAIL SHALL NOT APPLY TO THE FOLLOWING MANHOLES. REFERENCE THE POLYMER MANHOLE DETAIL TOHO-07.1 FOR ADDITIONAL REQUIREMENTS:
 - 9.1. MANHOLES 12' OR DEEPER.
 - 9.2. MANHOLES THAT RECEIVE FORCE MAINS.
 - 9.3. MANHOLES WITH DROP CONNECTIONS.
 - 9.4. MANHOLES WITHIN 400' UPSTREAM OR DOWNSTREAM OF 9.2 OR 9.3 ABOVE.
10. WHERE MANHOLES ARE NOT IN PAVED AREAS OR COMPLETELY PROTECTED FROM VEHICULAR TRAFFIC, A CONCRETE COLLAR PER TOHO-26 SHALL BE REQUIRED.



EFFECTIVE DATE:	04/01/2025
BOARD APPROVED DATE:	01/22/2025
PREVIOUS VERSION:	2022
DRAWN BY:	MP
REVISED BY:	DT

STANDARD MANHOLE

DRAWING NUMBER
07.0