



| 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:

1. THIS DETAIL SHALL APPLY TO THE FOLLOWING MANHOLES:
 - 1.1. MANHOLES 12' OR DEEPER.
 - 1.2. MANHOLES THAT RECEIVE FORCE MAINS.
 - 1.3. MANHOLES WITH DROP CONNECTIONS.
 - 1.4. MANHOLES WITHIN 400' UPSTREAM OR DOWNSTREAM OF 10.2 OR 10.3 ABOVE.
2. PRECAST BASE, RISER(S), AND CONE SECTIONS SHALL BE POLYMER CONCRETE.
3. ALL GROUT FILL USED INSIDE A POLYMER MANHOLE SHALL BE POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER.
4. 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.
5. ALL INTERIOR OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER.
6. LIFT HOLES ARE NOT PERMITTED THROUGH PRECAST SECTIONS.
7. REINFORCEMENT OF THE PRECAST BASE, RISER(S), AND CONE SHALL BE DESIGNED BY THE MANHOLE PRECASTER AND APPROVED BY TOHO.
8. MANHOLE DESIGNS MUST MAINTAIN A MINIMUM OF 50% UNINTERRUPTED WALL AREA ON ANY HORIZONTAL PLANE AND A MINIMUM OF 12" BETWEEN WALL PENETRATIONS.
9. 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.
10. 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.
11. WHERE MANHOLES ARE NOT IN PAVED AREAS OR COMPLETELY PROTECTED FROM VEHICULAR TRAFFIC, A CONCRETE COLLAR PER TOHO-26 SHALL BE REQUIRED.
12. POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER SHALL BE USE TO SKIM COAT THE INTERIOR SURFACE OF THE BRICK RISER / ADJUSTMENT RING(S).

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| | 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