FLAT SLAB TOP JOINT CONFIGURATIONS

SECTION PARALLEL TO PIPE

SECTION PERPENDICULAR TO PIPE

BASE SLAB JOINT CONFIGURATIONS

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (210) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 24 (600).

Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint spacing for every location around the perimeter of the joint where the inside arc length between pipe penetration holes (L) < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.

SHEAR KEY GEOMETRY

REMARKS

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses. Lifting holes shall be located in the sections as per the manufacturer's recommendations. See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

DATE

REVISIONS

1-1-21

Revised Notes 1 and 15

January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

ENGINEER OF DESIGN AND ENVIRONMENT

APPROVED

REVISIONS

ISSUED

PASSED

DATE

ENGINEER OF DESIGN AND ENVIRONMENT

ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE A

4' (1.22 m) DIAMETER

STANDARD 602401-07

(Sheet 1 of 2)

2021

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