USE CLOSED LIDS WITH "CITY OF CRYSTAL LAKE SANITARY" CAST INTO THEM FOR ALL SANITARY MANHOLES IN PUBLIC RIGHT-OF-WAY OR MUNICIPAL UTILITY EASEMENTS.
IN PAVED AREAS USE NEENAH FRAME R-17/2 OR APPROVED EQUAL.
IN NON PAVED AREAS USE NEENAH FRAME R-2835, EAST JORDAN FRAME 105021, OR APPROVED EQUAL.
USE 9" COVER 1020 A.G.S. (PAVED AND NON PAVED AREAS) WITH CONCEALED PICK HOLES AND O-RING LIDS.

MAXIMUM THREE (3) ADJUSTABLE RINGS ALLOWABLE.
MAXIMUM HEIGHT OF ADJUSTMENT = 8".
FRAME AND RING(S) ARE TO BE SEALED WITH PRE-FORMED BITUMEN SEAL (E-Z STICK) OR APPROVED EQUAL.

PRECAST CONCRETE MANHOLE SECTIONS-SLAB TOPS ARE PERMITTED FOR SHALLOW MANHOLES ONLY. HOLE MUST BE OVER THE UPSTREAM TILE; CONCENTRIC CONES FOR ALL OTHERS.

WATERTIGHT JOINTS WITH PRE-FORMED BITUMEN SEAL

PLASTIC MANHOLE STEPS TO BE NEENAH R-1960-1 OR APPROVED EQUAL.
GASKET TYPE WATER STOP COLLAR REQUIRED FOR ALL SANITARY SEWER CONNECTIONS. THE TOP HALF OF PIPE SHOULD BE CUT AND REMOVED.
CLASS SI CONCRETE FILLET OR PRECAST PRECAST REINFORCED CONCRETE

NOTES:
1. MONITORING MANHOLES MUST BE LOCATED ON USER'S PREMISES UNLESS OTHERWISE DIRECTED BY THE CITY.
2. USE DROP CONNECTIONS FOR ANY SANITARY SEWER.
3. PIPE ENTERING TWO (2) FEET OR MORE ABOVE THE LOWEST PIPE INVERT. SEE STANDARD INSIDE DROP MANHOLE DETAIL US-05.
4. ALL MANHOLES MUST BE DAMP PROOF PER IDOT SPECIFICATIONS 1000 "WATER PROOFING MATERIALS."
5. SERVICE LINE INVERT ELEVATION SHALL BE AT SPRING LINE OR CROWN OF MAIN LINE SEWER.

NOTE: FOR SANITARY SEWER CONNECTION TO EXISTING MANHOLES, THE MANHOLE SHALL BE CORED WITH A CIRCULAR HOLE CUTTING TOOL WITH A GASKET-TYPE WATERSTOP COLLAR INSTALLED INTO THE MANHOLE.

UNIFORM DISTANCE. 12" MIN., 16" MAX. STEPS SHALL NOT BE PLACED OVER ANY SEWER PIPE.

PLAN VIEW

60" FOR 48" DIA.
72" FOR 60" DIA.

CA-7 GRAVEL BEDDING

FLOW

GASKET-TYPE WATER STOP COLLAR FOR ALL SANITARY SEWER CONNECTIONS