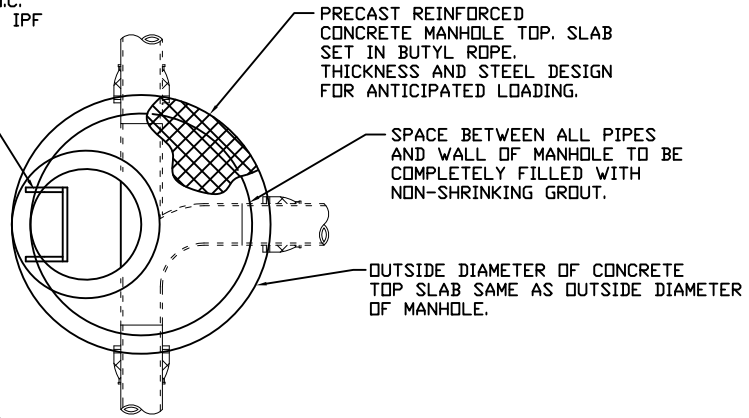


PLASTIC MANHOLE STEPS 1'-4" O.C.  
M.A. INDUSTRIES CAT. NO. M.A. PS IPF  
OR APPROVED EQUAL.

THE WORDS "SANITARY", OR THE  
APPLICABLE CITY/VILLAGE NAME  
SHALL BE CAST IN THE LID.

CAST IRON MANHOLE FRAME AND SOLID LID  
WITH CONSEALED PICKHOLE AND WATERTIGHT  
GASKET NEENAH FDY. CO. CAT. # R-1712-B,  
E. JORDAN IRON WORKS CO. CAT. #1051-3  
(EXTRA HEAVY DUTY COVER) OR APPROVED  
EQUAL IN PAVED AREAS IN OTHER AREAS  
USE R-1772-B (NEENAH), 1022-1 (MED.  
COVER) (E. JORDAN), IN NON-PAVED AREAS  
SET FRAME IN BUTYL ROPE.

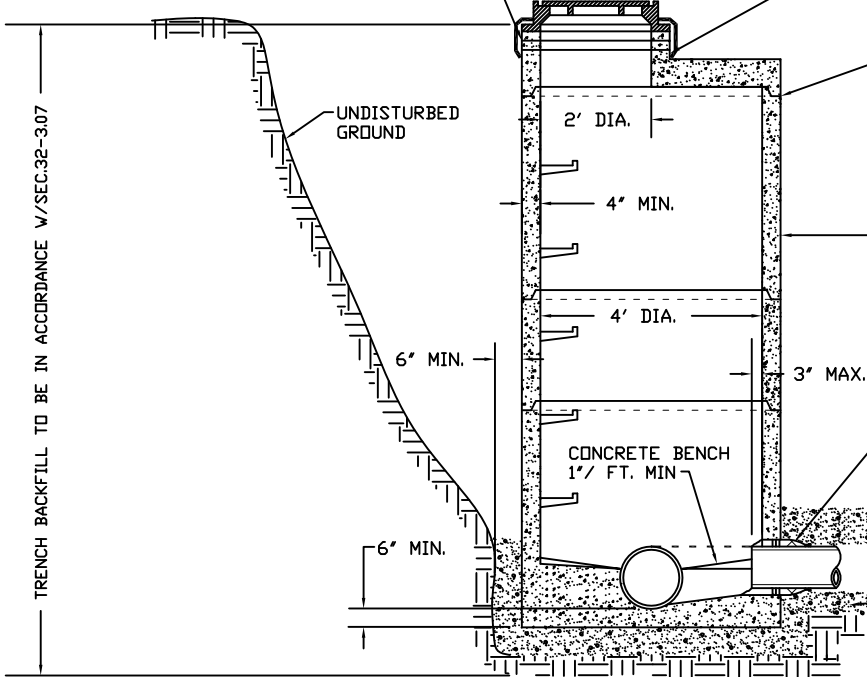


8' MAX. (2 RINGS TOTAL) PRECAST CONCRETE  
ADJUSTING RINGS SET IN BUTYL ROPE.

ADAPTOR-SEAL, INFI-SHIELD, CANUSA (WRAPID  
SEAL) OR APPROVED EQUAL CHIMNEY SEALS ARE  
REQUIRED FOR ALL FRAMES AND ADJUSTING RINGS.

(THESE REQUIREMENTS APPLY TO NEW OR  
EXISTING/EXPOSED MANHOLES. BARREL SECTION  
SHALL BE ADDED IF TOO MANY RINGS ON EXISTING  
MANHOLES).

FOR INSTALLATION OF CHIMNEY SEAL, A 3'  
MONOLITHIC LIP IS REQUIRED ON ALL  
STRUCTURES.



JOINTS SHALL BE EXTERNALLY  
SEALED WITH A 6" OR 9" WIDE BAND  
OF RUBBER AND MASTIC CONFORMING  
TO ASTM C-877 (TYPE 2 OR TYPE 3). A  
DOUBLE LAYER OF BUTYL ROPE IS  
REQUIRED FOR NEW AND REHABILITATED  
MANHOLES.

PRECAST REINFORCED CONCRETE MANHOLE  
SECTION(S) A.S.T.M. C-478-SET IN BUTYL  
ROPE-SEAL LIFT LUG HOLES WATERTIGHT.

FLEXIBLE RUBBER WATERTIGHT  
CONNECTOR PER A.S.T.M. C-923.

CRUSHED STONE OR CRUSHED GRAVEL,  
CA-7 CLASS 1A.

12" MIN. COVER REQUIRED OVER THE PIPE.  
6" MIN. REQUIRED UNDER MANHOLE AND ALL  
PIPES.

**NOTE**

INVERTS OF INCOMING PIPE(S) SHALL BE DETERMINED BY  
MATCHING ELEVATIONS OF THE TOPS OF THE NEW AND  
OUTGOING PIPES. HOWEVER, FOR SEWERS 18" OR LARGER, SEE  
APPROVED PLANS FOR INFORMATION ON INVERTS. ALL FLOW  
CHANNELS SHALL BE PRECAST INTO THE BENCH OR CORED.

**TYPE " C " MANHOLE**

**Fox Metro**  
Water Reclamation District

DESIGNED	FMWRD	REVISION	2017
DRAWN	KZ	D Note & Invert Revision	01/30/08
APPROVED	KZ, MF	E Chimney Seal Note	03/19/07
DATE	05-15-00	F Note Revisions	04/29/08
SCALE	NTS	G Misc. Note Revisions	03/09/17
SHEET	1	CAD DWG.	REVISION G
OF	1	JOB NO.	