



NOTE:
 MANHOLE ADJUSTING RING SHALL BE SOLID CAST IRON WHICH FITS IN THE STANDARD CITY OF TULSA SANITARY SEWER MANHOLE FRAME (STD. 352) AND THE STANDARD MANHOLE LID FITS IN THE ADJUSTING RING.

ADJUSTING RING SHALL CONFORM TO AND BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR GRAY IRON CASTINGS ASTM A48 "AND DRAINAGE STRUCTURE CASTINGS, AASHTO DESIGNATION: M306-89." CASTINGS SHALL BE CLASS 35-B IRON AND UNPAINTED.

THE CONTACT SURFACE BETWEEN MANHOLE RING AND MANHOLE FRAME AND THE CONTACT SURFACE BETWEEN MANHOLE RING AND MANHOLE LID SHALL BE MACHINED SMOOTH TO PREVENT ROCKING AND RATTLING.

THE TWO (2) INCH MANHOLE ADJUSTING RING WHERE SPECIFIED SHALL HAVE A MINIMUM WEIGHT OF 70 POUNDS AND THE THREE (3) INCH MANHOLE ADJUSTING RING WHERE SPECIFIED SHALL HAVE A MINIMUM WEIGHT OF 100 POUNDS.

MARKINGS ON ALL GRAY IRON CASTINGS SHALL CONFORM TO AASHTO DESIGNATION M306-89. (AASHTO M306-89 STATES: EACH CASTING SHALL BE IDENTIFIED BY THE FOUNDRY SHOWING: NAME OF FOUNDRY, COUNTRY OF MANUFACTURE, ASTM DESIGNATION NUMBER, CLASS BY A NUMBER FOLLOWED BY A LETTER INDICATING THE MINIMUM TENSILE STRENGTH AND SIZE OF TEST BAR. [e.g. CLASS 35-B], HEAT NUMBER AND DATE. NO OTHER WORDING OR MARKING OF ANY KIND OTHER THAN THOSE STATED ABOVE OR SHOWN ON THE PLAN WILL BE PERMITTED ON CASTINGS.

RISE	'M'	'F'
1-1/2"	1-1/2"	2-1/2"
2"	2"	3"
2-1/2"	2-1/2"	3-1/2"
3"	3"	4"

MANHOLE ADJUSTING RING	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.R.W.	APPROVED
CHECKED BY:	<i>[Signature]</i>
DATE: OCTOBER 2013	
NOT TO SCALE	STANDARD NO. 414