**TYPE 5 MANHOLE RISER SYSTEM**

**MECHANICAL ADJUSTMENT SYSTEM**

- **1/2" LOCKING NUT**
- **1/2"-20 UNC**
- **RIGHT HAND THREAD**
- **1/2"-20 UNC**
- **LEFT HAND THREAD**
- **1/2"-20 UNC**

**NOTES**

1. **ALL COMPONENTS ARE MANUFACTURED FROM U.S. MADE CARBON STEEL MEETING OR EXCEEDING THE MINIMUM REQUIREMENTS OF A.S.T.M. A-36.**
2. **TOP AND BOTTOM RINGS ARE WELDED AS SHOWN.**
3. **ADJUSTER STUD IS MADE FROM TYPE 304 STAINLESS STEEL.**
4. **THIS SYSTEM IS USED WHEN THE RISE IS LESS THAN THE LID.**
5. **EACH ADJUSTER RING IS CUSTOM FABRICATED FROM MEASUREMENTS PROVIDED WITH EACH ORDER. REQUIRED MEASUREMENTS INCLUDE:**
   - **EXIST. MANHOLE COVER DIAMETER AND THICKNESS**
   - **REQUIRED HEIGHT OF ADJUSTMENT FROM TOP OF EXISTING CURB TO FINISHED ELEVATION.**
   - **MAXIMUM RECOMMENDED HEIGHT OF ADJUSTMENT FOR EXISTING STRUCTURES IS 8".**
   - **HEIGHT ADJUSTMENTS ARE AVAILABLE IN 1/4" INCREMENTS.**
6. **REQUIRED LENGTH AND TYPE OF RETAINER CLIP.**
7. **WIDTH AND HEIGHT OF EXISTING CASTING BENDING SURFACE.**
8. **DURING INSTALLATION CHECK FOR FULL BARING OF LOWER FRAME SECTION ON EXISTING CASTING.**
9. **RISERS SHALL BE COATED WITH BLACK ASPHALT BITUMINOUS PAINT.**
10. **IN LIDS OF CONE TIPPED BOLTS FOR ATTACHMENT TO FRAME INCLUDE DRILLED AND TAPPED BAR STOCK WITH 1/2" O.A., 1" LONG STEEL BOLT, LOCK WASHER AND CLIPS.**
12. **UNLESS OTHERWISE INDICATED IN THE CONTRACT, THE CONTRACTOR MAY USE TYPE 1, 2, 3, OR 4 AT HIS CHOICE.**
13. **THE USAGE OF EACH TYPE OF ATTACHMENT WILL BE LEFT AT THE SELECTION OF THE CONTRACTOR.**

**EFFECTIVE DATE:** OCTOBER 2000

**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS**

**HIGHWAY AND TRANSPORTATION AUTHORITY**

**MANHOLE ADJUSTMENT**

**MANUFACTURED BY:** ANDREWS METAL PRODUCTS

**745 ANDREWS AVE.**

**YOUNGSTOWN, OHIO 44509**

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**DATE: REVISION: CM-25C OF 40**