TYPE 1 MANHOLE RISER SYSTEM

NOTES

1. ALL COMPONENTS ARE MANUFACTURED FROM U.S.
   MOG CARBON STEEL, MEETING OR EXCEEDING THE MINIMUM

2. TOP AND BOTTOM RINGS ARE WELDED CONTINUOUSLY.

3. THIS SYSTEM IS USED WHEN THE RISE IS THicker THAN THE LID.

4. MINIMUM HEIGHT OF ADJUSTMENT IS MANHOLE LID
   THICKNESS + 1/4".

5. EACH ADJUSTMENT RING IS CUSTOM FABRICATED FROM
   MEASUREMENTS PROVIDED WITH EACH ORDER. REQUIRED
   MEASUREMENTS INCLUDE:
   
   A. EXIST. MANHOLE COVER DIAMETER AND THICKNESS
   B. REQUIRED HEIGHT OF ADJUSTMENT FROM TOP OF EXISTING
      TO FINISHED ELEVATION. MAXIMUM RECOMMENDED
      HEIGHT OF ADJUSTMENT FOR REPAIRING PROJECTS IS 8", 8
      HEIGHT ADJUSTMENTS ARE AVAILABLE IN 1/4" INCREMENTS.
   C. REQUIRED LENGTH AND TYPE OF RETAINER CLIP.
   D. WIDTH AND HEIGHT OF EXISTING CASTING BEARING Surface.

6. DURING INSTALLATION CHECK FOR FULL BEARING OF LOWER
   FRAME SECTION ON EXISTING CASTING.

7. RISERS SHALL BE COATED WITH BLACK ASPHALT BitUMINOUS PAINT

8. USE OF CONE TIPPED BELTS FOR ATTACHMENT TO FRAME
   INCLUDE DRILLED AND TAPPED BAR STOCK WITH 1/2" DIA.
   +" 1/4" LONG STEEL BOLT, LOCK WASHER AND CLIPS.

9. IT SHALL BE A SUBSIDIARY OBLIGATION OF THE CONTRACTOR TO TAKE
   ALL NECESSARY MEASUREMENTS OF THE EXISTING MANHOLE COVER
   AND FRAME THAT WILL ALLOW THE APPROPRIATE FABRICATION OF
   THE ADJUSTMENT RINGS. ALL EXCAVATION AND REPLACEMENT
   OF THE EXISTING PAVEMENT STRUCTURE SHALL BE A SUBSIDIARY
   OBLIGATION OF THE CONTRACT.

10. UNLESS OTHERWISE INDIATED IN THE CONTRACT, THE CONTRACTOR
    MAY USE TYPE 1, 2, 3, OR 7 AT HIS CHOICE.

11. THE USAGE OF EACH TYPE OF ATTACHMENT WILL BE LEFT
    AT THE SELECTION OF THE CONTRACTOR.

Effective Date: October 2000

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

DRAINAGE MANHOLE ADJUSTMENT
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DATE REVISION BY

Dwg No. 25A OF 40