NOTES

1. PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF ASTM C-478 AND:
   A. SHALL BE DESIGNED FOR ASHRAE H-20 LOADING.
   B. CONCRETE SHALL BE COMPACTLY VIBRATED, CENTRIFUGALLY SPUN, OR MECHANICALLY TAMPED.

2. SEWER MAINS ARE TO BE Laid THRU THE MANHOLE WHERE POSSIBLE AND USED AS A FORM FOR THE INVERT. THE TOP 1/2 DIAMETER OF THE PIPE IS TO BE BROKEN OUT TO A NEAT LINE.

3. BROKER EDGES SHALL BE PLASTERED SMOOTH WITH CEMENT MORTAR.

4. CONCRETE BASE SHALL BE OF CLASS "A", CONCRETE AND PLACED TO ONE OPERATOR. CONCRETE INVENTS SHALL BE TO GRADE AND ALIGNMENT AND FINISHED WITH A SMOOTH SURFACE. SPECIAL CARE SHALL BE USED TO FORMING ALL CHANNELS TO FACILITATE THE FLOW OF SEWAGE.

5. ALL MANHOLE TOPS SHALL BE INSTALLED WITH THE MANHOLE COVER OVER THE UPSTREAM INLET, EXCEPT AS OTHERWISE SPECIFIED.

6. SEWER MAINS ARE TO BE Laid THRU THE MANHOLE WHERE POSSIBLE AND USED AS A FORM FOR THE INVERT. THE TOP 1/2 DIAMETER OF THE PIPE IS TO BE BROKEN OUT TO A NEAT LINE.

7. DIMENSIONS 48" & 60" MANHOLES AS SHOWN HEREON TO BE INSTALLED WHEN DEPTH TO PIPE SHELF IS GREATER THAN 5' FROM FINISHED STREET GRADE.

8. MANHOLE STEPS SHALL BE EITHER CAST IN PLACE OR M & A INDUSTRIES STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC DRIVE IN STEP. INSTALLATION TO BE BY MANHOLE MANUFACTURER. ALL STEPS OBLIQUE 180° FROM MANHOLE OUTLET. RING STRIPS TO BE PLACED BETWEEN GRADE RING AND GRANULATED IN PLACE. BOTTOM STEP SHALL BE 6" MAX TO BE USED AS CLEANING HOOK AND SHALL BE PLACED 6" MIN AND 12" MAX FROM TOP OF SHELF.

9. JOINTS AND FILL MATERIALS PERTAINING TO 60" ID REINFORCED MANHOLES SHOWN IN PARENTHESES ("x").

10. JOINT SHALL BE 3/8" THICK CEMENT MORTAR NEATLY STRUCK AND POINTED OR PREFORMED COLD-APPLIED READY-TO-USE PLASTIC JOINT SEALING COMPOUND AND PRIMER.

11. ALL MATERIALS TO BE PER EMWD APPROVED MATERIALS LIST.

SECTIONAL ELEVATION B-B

MANHOLE FRAME AND COVER SET TO GRADE SPECIFIED (SEE DWG 58-61)

3" AND 6" GRADE RINGS AS REQUIRED

SECThONAL ELEVATION A-A

MIN. DIA = OD OF MANHOLE RINGS + 5"