



GENERAL NOTES

1. USE TYPE "E" MANHOLE FOR DEPTHS OF 6' OR GREATER, MEASURED FROM INVERT TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" MANHOLE IN LIEU OF TYPE "E" MANHOLE FOR DEPTHS OF 6' OR LESS.
3. MANHOLES GREATER THAN 18' IN DEPTH SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS ONLY.
4. DESIGN APPLIES TO 4' TO 6' I.D. MANHOLES.
5. COMPACT ALL BACKFILL AROUND MANHOLE TO 95% (ASTM).
6. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PIPE PENETRATIONS.
7. POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
8. MANHOLES GREATER THAN 20' IN DEPTH WILL REQUIRE A SEPARATE STRUCTURAL DESIGN.

CONSTRUCTION NOTES

- A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
- C. MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF BLOCK IS USED, APPLY 1/2" THICK MORTAR COATING TO EXTERIOR AND INTERIOR OF MANHOLE. IF PRECAST CONCRETE IS USED, USE MASTIC GASKETS AND APPLY NON-SHRINK GROUT TO EXTERIOR AND INTERIOR OF EXPANSION JOINTS OR USE WATERTIGHT RUBBER GASKETS. IF RUBBER GASKETS ARE USED, THE MANHOLE SECTIONS DO NOT NEED TO BE GROUTED BUT THE MANUFACTURER MUST STAMP THE INTERIOR OF EACH PRECAST SECTION WITH THE TYPE OF GASKET USED.
- D. PRECAST REINFORCED CONCRETE ECCENTRIC CONE. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.
- E. USE MAX. 4 COURSES GRADE MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF MANHOLE FRAME TO PAVEMENT GRADE.
- F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EACH WAY FOR MANHOLE DEPTHS OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EACH WAY FOR MANHOLE DEPTH OF LESS THAN 16'.
- G. INVERT ELEVATION AS SHOWN ON PLANS. PROVIDE 0.10' (MINIMUM) OF FALL BETWEEN INVERT(S)-IN AND INVERT-OUT.
- H. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- J. OCTAGONAL CONCRETE PAD, SEE STANDARD DWG. 2461 FOR REFERENCE.
- K. MANHOLE FRAME AND COVER, SEE DRAWING 2210.
- L. CONCRETE, SEE SPECIFICATION SECTION 101.
- M. SLOPE 1" PER FT. FROM PIPE CROWN.
- N. SHELF TO BE 9" WIDE MIN.
- P. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE (NOT REQUIRED FOR RCP).
- Q. STEPS TO BE INSTALLED PER STANDARD SPECIFICATION SECTION 920 AND DRAWING 2229.
- R. ELECTRONIC MARKER DEVICE (EMD). SEE STANDARD SPECIFICATION SECTION 170.
- S. CONCRETE COLLAR IN UNPAVED AREAS, SEE STANDARD DRAWING 2461.
- T. APPLY 1/2" THICK MORTAR COATING TO INTERIOR OF OPENING.
- U. #4 REBAR PER STANDARD DRAWING 2461.

REVISIONS	CITY OF ALBUQUERQUE
12/2022	DRAINAGE STORM SEWER MANHOLE TYPE "E"
	DWG. 2209 DECEMBER 2022