

SANITARY SEWER NOTES

THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANS IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY.

ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS CURRENT TO THE DATE OF CONSTRUCTION. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT www.evanscolorado.gov.

ALL SANITARY SEWER PIPE SHALL MEET THE EXTRA STRENGTH MINIMUM REQUIREMENTS OF ASTM D-3034, SDR-35, OR LATEST REVISION THEREOF. ALL SANITARY SEWER PIPE JOINTS SHALL BE INTEGRAL BELL AND SPIGOT WITH RUBBER O-RING TYPE GASKETS PER ASTM C-443.

REFER TO THE GEOTECHNICAL REPORT PERTAINING TO THIS PROJECT TO DETERMINE WHETHER OR NOT UNDERDRAINS WILL BE REQUIRED. IF UNDERDRAINS ARE REQUIRED INSTALLATION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS.

MANHOLES SHALL BE CONSTRUCTED OF PRE-CAST CONCRETE. CONCRETE BASES SHALL BE POURED IN PLACE, CLASS A CONCRETE. AND HAVE A MINIMUM THICKNESS OF 8 INCHES. PRE-CAST BASES MAY BE USED IN PLACE OF POURED IN PLACE BASES.

SANITARY SEWER MANHOLES SHALL HAVE A MINIMUM 48 INCH INSIDE DIAMETER. ALL CONES SHALL BE ECCENTRIC. PRE-CAST MANHOLE RISERS AND CONES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C-478.

WHEN AN INSIDE DROP MANHOLE IS UTILIZED, THE DIAMETER OF THE MANHOLES SHALL BE INCREASED 12 INCHES FROM THE REQUIRED MANHOLE SIZE.

A DROP MANHOLE SHALL BE CONSTRUCTED AT ALL MANHOLES WHERE THE INCOMING PIPE INVERT IS MORE THAN TWO FEET ABOVE THE MANHOLE INVERT.

THE MANHOLE BARRELS SHALL BE WATERTIGHT AT ALL JOINTS AND RISER SECTIONS. THE PREFERRED JOINT SEALING COMPOUND SHALL BE "RAMNEK" OR AN APPROVED EQUAL.

MANHOLE STEPS SHALL BE ALUMINUM, OR PLASTIC COATED STEEL, AND SHALL BE PLACED 16 INCHES ON CENTER, ALIGNED AWAY FROM THE INVERT. THE FIRST STEP SHALL BE A MAXIMUM DISTANCE OF 24 INCHES FROM THE FINAL GRADE.

MANHOLE INVERTS SHALL BE FORMED AS INDICATED IN THE SANITARY SEWER FLOW LINE CHANNEL DETAIL WW-9 TO ENSURE SMOOTH FLOW THROUGH THE MANHOLE.

THE MAXIMUM DISTANCE BETWEEN MANHOLES SHALL BE 500 FEET.

ALL PIPES ENTERING THE MANHOLE SHALL BE COMPLETELY GROUTED AROUND THE OUTSIDE DIAMETER OF THE PIPE AND THE MANHOLE WALLS.

ALL SANITARY SEWER MANHOLE LIDS SHALL BE CAST DUCTILE IRON AND LABELED WITH THE WORDS "SANITARY SEWER".

ALL SANITARY SEWER PIPE AND APPURTENANCES SHALL BE CLEANED AND TESTED AFTER BACKFILL OPERATIONS HAVE BEEN COMPLETED.

SANITARY SEWER TESTING DOCUMENTS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. TYPICAL TESTING DATA INCLUDES BUT ARE NOT LIMITED TO THIRD PARTY PRESSURE TESTING, TRENCH COMPACTION TESTING, TV VIDEO INSPECTION, AND VACUUM MANHOLE TESTING.

VACUUM MANHOLE TESTING MAY BE NECESSARY IF THE MANHOLE IS LOCATED WITHIN AN AREA OF HIGH GROUND WATER.

MANHOLE ELEVATIONS ARE APPROXIMATE AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE PAVING CONTRACTOR SHALL USE NO MORE THAN FOUR CONCRETE ADJUSTMENT RINGS, OR AN APPROVED EQUAL TO MATCH FINAL PAVEMENT ELEVATIONS.