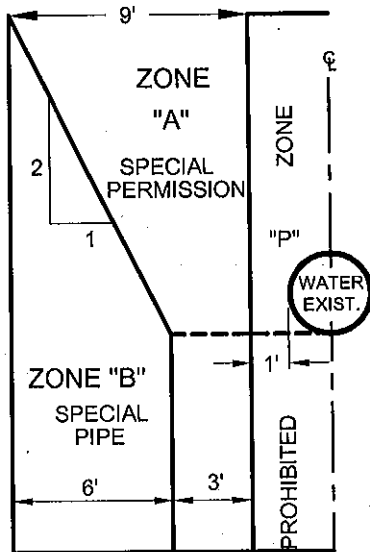
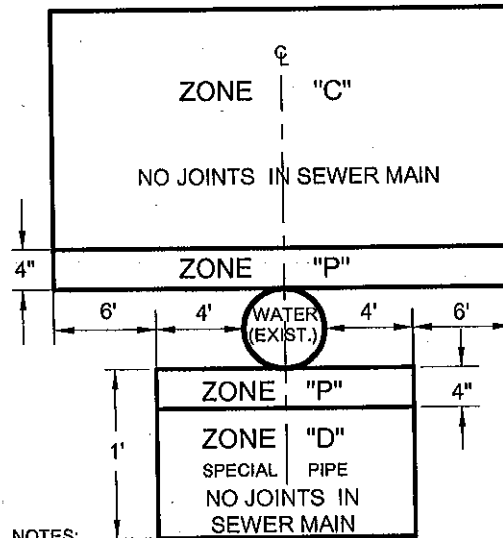


PARALLEL CONSTRUCTION



CROSSINGS



NOTES:

1. ZONES IDENTICAL ON EITHER SIDE OF CENTERLINE.
2. ZONE "P" IS A PROHIBITED ZONE, SECTION 84572 (A) CALIFORNIA CODE OF REGULATIONS, TITLE 22

ZONE SPECIAL CONSTRUCTION REQUIRED FOR SEWER

- A** SANITARY SEWER MAINS PARALLEL TO WATER MAINS SHALL NOT BE PERMITTED IN THIS ZONE WITHOUT PRIOR WRITTEN APPROVAL FROM THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND CITY OF VENTURA.
- B** IF THE WATER MAIN PARALLELING THE SANITARY SEWER MAIN DOES NOT MEET THE CASE 2 ZONE B REQUIREMENTS, THE SANITARY SEWER MAIN SHOULD BE CONSTRUCTED OF ONE OF THE FOLLOWING:
1. HIGH-DENSITY-POLYETHYLENE (HDPE) PIPE WITH FUSION-WELDED JOINTS (PER AWWA C906-99);
 2. SPIRALLY-REINFORCED HDPE PIPE WITH GASKETED JOINTS (PER ASTM F-894);
 3. EXTRA STRENGTH VITRIFIED CLAY PIPE WITH COMPRESSION JOINTS;
 4. PVC SEWER PIPE (SDR 35) WITH RUBBER RING JOINTS (PER ASTM D3034) OR EQUIVALENT;
 5. DUCTILE IRON PIPE WITH COMPRESSION JOINTS; OR
 6. REINFORCED CONCRETE PRESSURE PIPE WITH COMPRESSION JOINTS (PER AWWA C302-95).
- C** IF THE WATER MAIN CROSSING BELOW THE SANITARY SEWER MAIN DOES NOT MEET THE REQUIREMENTS FOR CASE 2 ZONE C, THE SANITARY SEWER MAIN SHOULD HAVE NO JOINTS WITHIN TEN FEET FROM EITHER SIDE OF THE WATER MAIN (IN ZONE C) AND SHOULD BE CONSTRUCTED OF ONE OF THE FOLLOWING:
1. A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR
 2. ONE OF THE ZONE D OPTIONS 1, 3, 4, OR 5 BELOW.
- D** IF THE WATER MAIN CROSSING ABOVE THE SANITARY SEWER MAIN DOES NOT MEET THE CASE 2 ZONE D REQUIREMENTS, THE SANITARY SEWER MAIN SHOULD HAVE NO JOINTS WITHIN FOUR FEET FROM EITHER SIDE OF THE WATER MAIN (IN ZONE D) AND BE CONSTRUCTED OF ONE OF THE FOLLOWING:
1. HDPE PIPE WITH FUSION-WELDED JOINTS (PER AWWA C906-99);
 2. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS (GASKETED BOLTED JOINTS);
 3. A CONTINUOUS SECTION OF CLASS 200 (DR 14 PER AWWA C900-97) PVC PIPE OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED;
 4. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-95) CENTERED OVER THE PIPE BEING CROSSED; OR
 5. ANY SANITARY SEWER MAIN WITHIN A CONTINUOUS SLEEVE.

CITY OF SAN BUENAVENTURA

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SANITARY SEPARATION SEWER - (CASE 1)

STD. DET. NO.
002

APPROVED BY:

[Signature]
WATER MANAGER

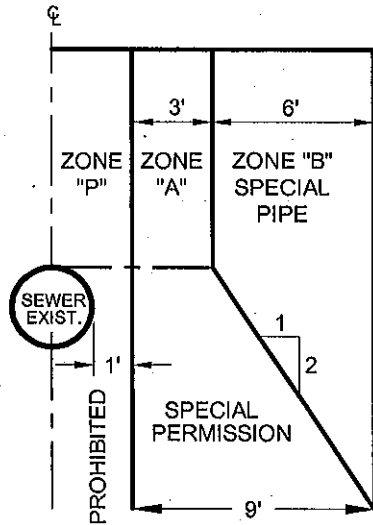
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CITY ENGINEER R.C.E. 37064

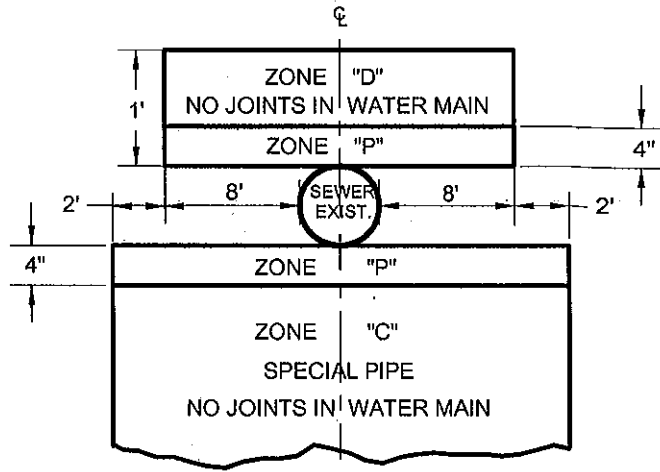
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SHEET
1 of 2

PARALLEL CONSTRUCTION



CROSSINGS



- NOTES:**
1. ZONES IDENTICAL ON EITHER SIDE OF CENTERLINE.
 2. ZONE "P" IS A PROHIBITED ZONE, SECTION 64572 (a) CALIFORNIA CODE OF REGULATIONS, TITLE 22

ZONE SPECIAL CONSTRUCTION REQUIRED FOR WATER

- A** NO WATER MAINS PARALLEL TO SANITARY SEWER SHALL BE CONSTRUCTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND CITY OF VENTURA.
- B** IF THE SANITARY SEWER PARALLELING THE WATER MAIN DOES NOT MEET THE CASE 1 ZONE B REQUIREMENTS, THE WATER MAIN SHOULD BE CONSTRUCTED OF ONE OF THE FOLLOWING:
1. HDPE PIPE WITH FUSION-WELDED JOINTS (PER AWWA C906-99);
 2. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING;
 3. DIPPED AND WRAPPED ONE-FOURTH-INCH-THICK WELDED STEEL PIPE;
 4. PRESSURE RATED PVC WATER PIPE (DR 14 PER AWWA C900-97 & C905-97) OR EQUIVALENT; OR
 5. REINFORCED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE, PER AWWA (C300-97 OR C301-99 OR C303-95).
- C** IF THE SANITARY SEWER MAIN CROSSING ABOVE THE WATER MAIN DOES NOT MEET THE REQUIREMENTS FOR CASE 1 ZONE C, THE WATER MAIN SHOULD HAVE NO JOINTS WITHIN TEN FEET FROM EITHER SIDE OF THE SANITARY SEWER MAIN (IN ZONE C) AND SHOULD BE CONSTRUCTED OF ONE OF THE FOLLOWING:
1. HDPE PIPE WITH FUSION-WELDED JOINTS (PER AWWA C906-99);
 2. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING;
 3. DIPPED AND WRAPPED ONE-FOURTH-INCH-THICK WELDED STEEL PIPE;
 4. CLASS 200 PRESSURE RATED PVC WATER PIPE (DR 14 PER AWWA C900-97 & C905-97); OR
 5. REINFORCED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE, PER AWWA (C300-97 OR C301-99 OR C303-95).
- D** IF THE SANITARY SEWER MAIN CROSSING BELOW THE WATER MAIN DOES NOT MEET THE CASE 1 ZONE D REQUIREMENTS, THE WATER MAIN SHOULD HAVE NO JOINTS WITHIN EIGHT FEET FROM EITHER SIDE OF THE SANITARY SEWER MAIN (IN ZONE D) AND SHOULD BE CONSTRUCTED AS FOR ZONE C.

CITY OF SAN BUENAVENTURA

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SANITARY SEPARATION WATER - (CASE 2)

STD. DET. NO.

002

APPROVED BY:

[Signature]
WATER MANAGER

APPROVED BY:

[Signature]
CITY ENGINEER R.C.E. 37064

DATE 10-31-12

SHEET
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