

## SEWER GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND CURRENT APPLICABLE CITY OF SAN BUENAVENTURA STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS.
2. DISTANCE BETWEEN SEWER MANHOLES SHALL NOT EXCEED 350 FEET. A MANHOLE SHALL BE CONSTRUCTED AT THE INTERSECTION OF ALL SEWER MAINS AND INTERCEPTORS DISCHARGING INTO A MAJOR TRUNK LINE.
3. SEWER LINES SHALL BE CONSTRUCTED IN A STRAIGHT LINE BETWEEN MANHOLES AND AT THE STREET CENTERLINE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. WHERE SEWER LINE CURVES ARE APPROVED BY THE CITY ENGINEER, MINIMUM CURVE RADIUS SHALL BE 300 FEET FOR RESIDENTIAL STREETS, 500 FEET FOR COLLECTOR AND ARTERIAL STREETS AND 1,000 FEET FOR MAJOR STREETS. CURVE DEFLECTIONS SHALL OCCUR AT PIPE JOINTS ONLY. JOINT DEFLECTIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION AND SHALL BE EVENLY DISTRIBUTED AMONG THE JOINTS. COMBINED HORIZONTAL OR VERTICAL CURVES WILL NOT BE ALLOWED BETWEEN MANHOLES. INVERTED SYPHONS WILL NOT BE ALLOWED.
4. MINIMUM SIZE FOR MAINLINE SEWERS IS 8 INCHES AND MINIMUM SIZE FOR LATERALS IS 6 INCHES. A LARGER MAINLINE MAY BE REQUIRED IF THERE IS THE POSSIBILITY OF UPSTREAM DEVELOPMENT.
5. SEWER PIPE SHALL BE SDR-35 PVC SEWER PIPE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. BACKFILL SHALL BE PER STANDARD DETAILS 112 AND 113.
6. SANITARY SEPARATION SHALL BE PER STANDARD DETAIL 002.
7. WHERE POSSIBLE, ALL SEWER PIPELINES AND MANHOLES SHALL BE CONSTRUCTED IN THE CROWN OF THE STREET. MANHOLES SHALL NOT BE CONSTRUCTED IN PARKING SPACES OR GUTTERS.
8. NO SEWER MAINS OR LATERALS SHALL BE PLACED CLOSER THAN 10 FEET TO ANY TREE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
9. ALL SEWER MAINS OR LATERALS SHALL BE PERPENDICULAR TO THE RECEIVING SEWER MAIN. LATERALS WILL NOT BE INSTALLED UNDER DRIVEWAYS. THE DISTANCE BETWEEN LATERAL CONNECTIONS SHALL BE A MINIMUM OF 18".
10. ALL CONNECTIONS TO EXISTING SEWER MAINS AND MANHOLES SHALL BE CUT OR CORED.
11. SADDLE CONNECTIONS WILL NOT BE ALLOWED ON VCP OR PVC SEWER PIPE UNLESS APPROVED BY CITY ENGINEER. TEE OR Y CONNECTIONS SHALL BE USED IN LIEU OF SADDLES.
12. ALL REPAIR COUPLINGS SHALL BE STRONG BACK COUPLINGS OR EQUAL APPROVED BY THE CITY ENGINEER.
13. BACKWATER VALVES SHALL BE PLACED ON SEWER LATERALS TO PROTECT STRUCTURES FROM FLOODING IF THE UPSTREAM MANHOLE IS AT A HIGHER ELEVATION THAN THE FINISHED FLOOR ELEVATION (PER UPC SECTION 710.1). THE BACKWATER VALVE SHALL BE PRIVATELY OWNED AND MAINTAINED AND SHALL BE LOCATED ON PRIVATE PROPERTY.

**CITY OF SAN BUENAVENTURA**

PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

### SEWER GENERAL NOTES

STD. DET. NO.

200

APPROVED BY:

*[Signature]*  
WASTEWATER MANAGER

APPROVED BY:

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

DATE 7-19-12

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## SEWER GENERAL NOTES (CONT.)

14. SEWER LATERALS MAY DISCHARGE INTO MANHOLES WHERE APPROVED BY THE CITY ENGINEER. THE CHANNELING IN THE MANHOLE SHALL BE IN ACCORDANCE WITH CITY STANDARDS, AND THE CHANNELING OF ANY SEWER LATERAL SHALL BE CONSTRUCTED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE DISCHARGE OF OTHER LATERALS OR SEWER MAIN FLOW.
15. MANHOLES SHALL BE INSTALLED AT THE END OF SEWER MAINS AND CUL-DE-SACS. CLEAN OUTS WILL NOT BE ALLOWED. SEWER LATERALS MAY TERMINATE IN THE MANHOLES INSTALLED IN CUL-DE-SACS.
16. A STUB-OUT OF EQUAL SIZE TO THE SEWER MAIN SHALL BE INSTALLED IN THE UPSTREAM SIDE OF THE MANHOLE IF ADJACENT, FUTURE DEVELOPMENT MAY TAKE PLACE.
17. DROP MANHOLES WILL NOT BE ALLOWED.
18. ALL MANHOLES CONSTRUCTED IN UNIMPROVED AREAS SHALL EXTEND 2 FEET ABOVE FINISHED GRADE AND THE FRAME AND COVER SHALL BE INSTALLED WITH LOCKING DEVICE PER STANDARD DETAIL 201. A 12 INCH MINIMUM THICK CONCRETE COLLAR SHALL BE CONSTRUCTED AROUND THE ABOVE GRADE EXTENSION AND TO A MINIMUM DEPTH OF 12 INCHES BELOW FINISHED EXTERIOR GRADE. THE DIAMETER OF THE CONCRETE COLLAR AROUND MANHOLE SHALL BE AS APPROVED BY THE CITY ENGINEER. WHEN INSTALLED IN LOCATIONS SUBJECT TO DAMAGE FROM VEHICLES, BOLLARDS SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER. MANHOLES LOCATED IN EASEMENTS SHALL HAVE ACCESS BY MEANS OF ALL WEATHER DRIVABLE ROAD.
19. MANHOLES SHALL HAVE NO MORE THAN 3 SEWER PIPE CONNECTIONS.
20. MULTIPLE UNIT HOUSING COMPLEXES ON A SINGLE LOT WITH MORE THAN 3 UNITS SHALL CONVERGE AT A PRIVATE MANHOLE, WHICH WILL CONNECT TO A PUBLIC MANHOLE. MULTIPLE UNIT HOUSING COMPLEXES WITH 3 OR FEWER UNITS SHALL CONNECT TO A PUBLIC MANHOLE.
21. A 4 MIL GREEN PLASTIC IDENTIFICATION TAPE WITH THE WORDS "SEWER LINE" PRINTED ON IT SHALL BE INSTALLED TWO FEET ABOVE THE PIPE FOR THE ENTIRE LENGTH OF THE LINE. THE TAPE SHALL BE PRESCO, SHIELDTEC, OR EQUAL APPROVED BY THE CITY ENGINEER.
22. A "S" 2 INCHES IN HEIGHT 1/8" DEEP SHALL BE STAMPED INTO THE CURB FACE AT ALL NEW LATERAL LOCATIONS.

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WASTEWATER MANAGER

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CITY ENGINEER R.C.E. 37084

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## SEWER GENERAL NOTES (CONT.)

23. AFTER CONSTRUCTION, SEWER PIPE SHALL BE VISUALLY INSPECTED BY MEANS OF CLOSED-CIRCUIT TELEVISION. THE TELEVISION CAMERA USED FOR THE INSPECTION SHALL BE A COLOR CAMERA SPECIFICALLY DESIGNED AND CONSTRUCTED FOR SUCH AN INSPECTION. LIGHTING FOR THE CAMERA SHALL BE SUITABLE TO ALLOW A CLEAR COLOR PICTURE OF THE ENTIRE PERIPHERY OF THE PIPE. THE CAMERA SHALL OPERATE IN 100% HUMIDITY CONDITIONS W/O CAUSING THE CAMERA LENS TO FOG. THE CAMERA, TELEVISION MONITOR AND OTHER COMPONENTS OF THE VIDEO SYSTEM SHALL BE CAPABLE OF PRODUCING PICTURE QUALITY TO THE SATISFACTION OF THE CITY ENGINEER. THE CAMERA SHALL BE MOVED IN A DOWNSTREAM DIRECTION AT A SPEED NO GREATER THAN 30 FEET PER MINUTE. A RECORDING OF THE INSPECTION SHALL BE GIVEN TO THE CITY ENGINEER AND WASTEWATER DIVISION FOR REVIEW BEFORE ACCEPTANCE. DISTANCES SHALL BE MEASURED BY MEANS OF A METER DEVICE IN FEET AND TENTH OF FEET. ALL LATERAL CONNECTION DISTANCES & MANHOLE-TO-MANHOLE DISTANCES SHALL BE NOTED ON THE VIDEO. AN APPROVED C.C.T.V. INSPECTION REPORT WILL ACCOMPANY THE VIDEO. CONTRACTOR SHALL CONTACT THE CITY ENGINEER AND WASTEWATER DIVISION 48 HOURS PRIOR TO TELEVISIONING THE SEWER SYSTEM. CCTV SHALL BE PROVIDED IN DVD FORMAT, 2 COPIES, TO THE CITY ENGINEER.
24. IN ACCORDANCE WITH THE CITY OF SAN BUENAVENTURA SEWER ORDINANCE CODE/CHAPTER SIX SECTION 4621, IT IS UNLAWFUL TO DISCHARGE SEWAGE LIQUID OR MATERIAL UPON THE SURFACE OF ANY PREMISES, PUBLIC STREET OR IN ANY STORM DRAINAGE SYSTEM. IF THERE HAS BEEN AN OVERFLOW OR SPILL ONTO THE SURFACE OR ANY DISCHARGE INTO THE STORM DRAINAGE SYSTEM, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ABATE THE SPILL OR OVERFLOW AND CLEAN THE AREA OF ANY SEWAGE RESIDUE. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING THE INCIDENT IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH RULES AND REGULATIONS, AND IS RESPONSIBLE FOR REIMBURSING THE CITY FOR CLEANUP AND ENFORCEMENT EFFORTS. FAILURE TO REPORT A SEWAGE SPILL TO THE CITY IS A MISDEMEANOR AND SHALL BE PUNISHABLE PER SECTION 499 OF THE CALIFORNIA PENAL CODE.

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