

1.7 MINIMUM DEPTH

MINIMUM DEPTH OF COVER FROM FINISH SURFACE TO THE TOP OF SEWER MAIN PIPE SHALL BE 6' UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

4" SEWER HOUSE CONNECTIONS SHALL HAVE A MINIMUM OF 4' OF COVER FROM THE TOP OF THE CURB TO THE TOP OF THE PIPE AT THE CURB LINE. AT THE TIME OF CONSTRUCTION, STAKES SHALL BE PROVIDED FOR LOCATION AND GRADE OF EACH EACH HOUSE LATERAL.

1.8 SEWER PIPE MATERIAL

ALL GRAVITY SEWERS SHALL BE EITHER EXTRA STRENGTH VCP OR SDR-35 PVC AS DETAILED IN SECTIONS 207-8 AND 207-17 OF THE MOST CURRENT EDITION OF THE GREEN BOOK REPLACEMENT PIPE SHALL MATCH EXISTING.

ALL SEWER FORCE MAINS SHALL BE PVC PIPE MEETING AWWA C-900 AND MINIMUM CLASS 150 PIPE STANDARDS.

ALL SEWER SERVICE LATERALS SHALL BE EITHER EXTRA STRENGTH VCP OR SDR-35 PVC PIPE.

ALL SEWERS IN INDUSTRIALLY ZONED AREAS OR COMMERCIAL ZONED AREAS SHALL BE EXTRA STRENGTH VCP. (PLASTIC PIPE COULD BE DEGRADED BY HIGH TEMPERATURE DISCHARGES OR ORGANIC SOLVENTS).

DUCTILE-IRON PIPE

1. DUCTILE-IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C151.
2. ALL DUCTILE-IRON PIPE SHALL BE THICKNESS CLASS 50 FOR PLAIN END PIPE AND THICKNESS CLASS 53 FOR FLANGED SPOOLS UNLESS INDICATED OTHERWISE.
3. ALL DUCTILE-IRON PIPE SHALL BE CEMENT-MORTAR LINED IN ACCORDANCE WITH AWWA C104.
4. UNLESS OTHERWISE CALLED OUT ON THE PLANS, A "PUSH-ON" TYPE JOINT SHALL BE USED. THE JOINT DIMENSIONS AND GASKET SHALL BE AS SPECIFIED IN AWWA C111.
5. FLANGES FOR DUCTILE-IRON PIPE SHALL BE THE "SCREWED-ON" TYPE IN ACCORDANCE WITH AWWA C115.

1.9 MANHOLES

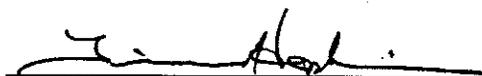
MANHOLES WILL BE REQUIRED AT THE FOLLOWING LOCATIONS:

1. CHANGES OF SLOPE.
2. CHANGES OF DIRECTION.
3. CHANGES OF PIPE SIZE.
4. TERMINATION OF SEWERS (EXCEPT FOR PRIVATE SEWERS WHICH MAY TERMINATE AT A CLEAN OUT).
5. SPECIAL LOCATIONS AS DESIGNATED BY THE CITY ENGINEER.
6. CHANGES IN TYPE OF PIPE MATERIAL; I.E., PVC TO VCP.

MAXIMUM DISTANCE BETWEEN MANHOLES SHALL BE 350' UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. MINIMUM DROP THROUGH MANHOLES SHALL BE 0.10'

MANHOLE SHALL BE COMPLETELY LINED WITH A POLYURETHANE COATING NO LESS THAN 125 MIL. AND CONFORMING TO THE "GREENBOOK" SECTION 500-2.4. OTHER "GREENBOOK" APPROVED LINERS MAY BE INSTALLED WITH CITY ENGINEER APPROVAL.

APPROVED:

  
CITY ENGINEER

CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



SEWER FACILITY  
DESIGN CRITERIA

STANDARD PLAN  
500  
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REVISION DATE: May 2008