

**DEPARTMENT OF NATURAL RESOURCES OF MISSOURI
REPORT ON PLANS, SPECIFICATIONS AND AN ENGINEERING REPORT
FOR WATERLINE REPLACEMENT AND EXTENSION**

Big Island Subdivision
Camden County, MO

October 21, 2004

Review Number 53303-04

INTRODUCTION

Plans and specifications for a water main replacement and extension for Big Island Subdivision in Camden County, Missouri, were submitted for review and approval by Krehbiel Engineering, consulting engineers, Camdenton, Missouri.

BRIEF DESCRIPTION

In general, these plans and specifications provide for a water main replacement of the water main installed in Phase I so as to maintain the proper separation of water and sewer lines, an extension to serve Phase III of the development and the encasement of the waterline on the causeway. The proposed water main replacement of Phase I will consist of approximately 11,268 lineal feet (L.F.) of 4-inch PVC pipe and create a loop around the island. The proposed water main extension of Phase III is mostly interior waterlines will also be 4-inch PVC pipe. The causeway encasement consist of approximately 200 feet of 4-inch waterline incased inside an 8-inch PVC pipe. The necessary valves, fittings and appurtenances will be provided as per detailed plans and specifications. Before being placed in service, the new water main will be pressure tested, flushed, and disinfected; and bacteriological samples will be collected for laboratory analysis.

As existing homes connect to the Phase I replacement waterline, it is anticipated that the service lines of many homes will share a common 1-inch PVC line under the roadway. Technically, the 1-inch waterline is a part of the water distribution system and subject to the separation of water and sewer line construction policy. The separation policy does not cover the private service lines on private property.



Robert Atkinson, P.E., Environmental Engineer
Public Drinking Water Infrastructure
Permits and Engineering Section

APPROVAL TO CONSTRUCT

The engineering plans and specifications described above were examined as to sanitary features of design which may affect the operation of the sanitary works, including size, capacities of the units, and factors which may affect the efficiency and ease of operation. Approval as regards these points is hereby given.

Approval is given with the understanding that final inspection and approval of the completed work shall be made by the Department of Natural Resources before same is accepted and placed in operation. If construction is not commenced two (2) years after the date of issue or there is a halt in construction of more than two years, the approval to construct will be void unless an extension of time has been granted by the department.

In the examination of plans and specifications, the Department of Natural Resources, Public Drinking Water Program does not examine the structural features of design or efficiency of mechanical equipment. This approval does not include approval of these features.

The Department of Natural Resources, Public Drinking Water Program reserves the right to withdraw the approval of plans and specifications at any time it is found that additional treatment or alterations are necessary to assure reasonable operating efficiency and to afford adequate protection to public health.