

DESIGN SPECIFICATIONS FOR DRAINAGE RECONSTRUCTION

**Tea Lane, Chilmark, Dukes County, Massachusetts
North East end, at the property of Trina Kingsbury, et al.**

October 16, 1995

On the east side of Tea Lane, south of the Kingsbury residence, is an open drainage trench pitched towards the north. This existing ditch is to end at a new catch basin, surrounded by 6" stone chips and constructed with a cover and grate. This catch basin will primarily empty into a large diameter pipe under Tea Lane to an existing open drainage ditch running to the north along the land of Mr & Mrs Sherwood, et al. A secondary pipe will travel from the catch basin approx. 150 ft. to the first of two small ponds linked together by a small waterfall on the property of Ms. Kingsbury.

The catch basin will have two discharge pipes.

The primary discharge pipe will run under Tea Lane diagonally approx. 25 ft. to a point on the west side of the road, and empty into another open drainage ditch pitched towards the north. The pipe must be crush resistant. This pipe should be around 30" diameter with a flat bottom to handle the large flows of run off water during storms.

A secondary pipe of less than 24" in diameter will handle a smaller overflow of run off water during moderate to heavy rains and storms. This pipe will travel approximately 150 ft. in an easterly direction from the catch basin and empty into a small "pond" on the property of Ms. Kingsbury.

Work shall include the dredging of two small ponds on the land of Ms. Kingsbury's, using these spoils to backfill the already open trench in which the secondary pipe will be laid, installing a standard highway catch basin with a 4- 6 ft. sump below the pipes along Tea Lane, placing approximately 10 tons of 6" stone chips upstream of and around the catch basin, installing another culvert under Tea Lane, and reconstructing the open drainage ditch on the west side of Tea Lane that the primary culvert empties into to a depth of 1.5 ft. and a width of 2 ft. to the point where it meets the next water course (approx. ____ft.)

see attached sketch

All questions are to be directed to Charles deGeoffroy, Chilmark Highway Surveyor at 645-2101, Fax 645-2110.