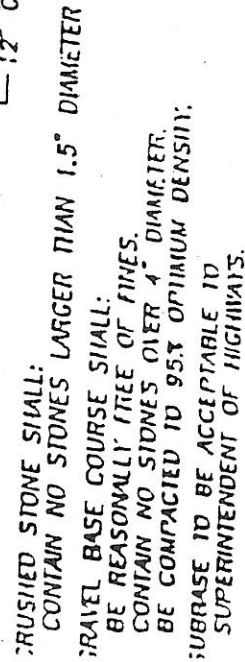


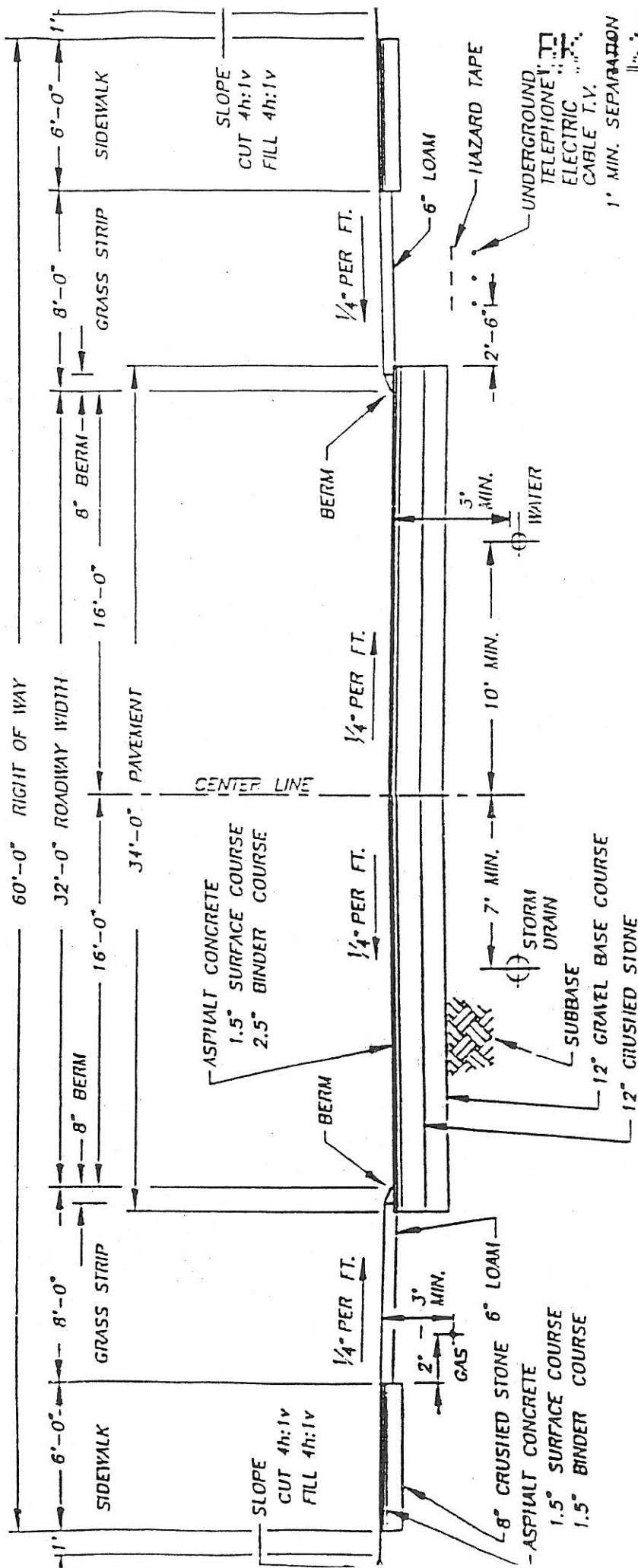
TYPICAL CROSS SECTION



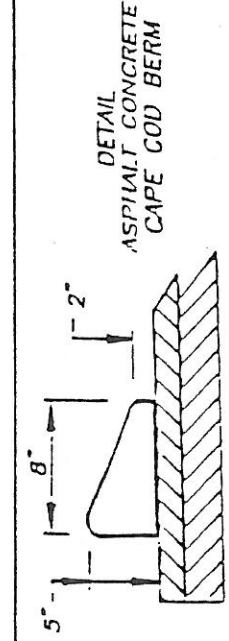
Book 8090 page 035 amended, and recorded on November 29, 1994 in Book 12838, Page 509 with the Essex South Registry of Deeds.

COLLECTOR STREET

TYPICAL CROSS SECTION



CRUSHED STONE SHALL:
 CONTAIN NO STONES LARGER THAN 1.5" DIAMETER
 GRAVEL BASE COURSE SHALL:
 BE REASONABLY FREE OF FINES.
 CONTAIN NO STONES OVER 4" DIAMETER.
 BE COMPACTED TO 95% OPTIMUM DENSITY.
 SUBBASE TO BE ACCEPTABLE TO
 SUPERINTENDENT OF HIGHWAYS.



TOPSFIELD
 PLANNING BOARD

PLATE 2
 1000 PG 510

PLATE 3

TOPSEIELD
PLANNING BOARD

CATCH BASIN

FRAMES & COVERS SHALL BE
LEBARON LK121 & L24SG1 OR
EQUIVALENT.

PRECAST CONCRETE CATCH BASIN
SHALL CONFORM TO ASTM SPEC.
NO. C 478 - 82 a.

ALL CATCH BASIN COVERS &
FRAMES ARE TO BE INSTALLED
TO CONFORM WITH PITCH OF
ROADWAY.

FOUNDATION FOR THE GRANITE
CURB INLET SHALL CONSIST OF
A FULL BED OF CEMENT MORTAR
ON THE SUPPORTING BACK WALL
OF THE CATCH BASIN & SUFFI-
CIENT GRAVEL ON EACH SIDE
TO SUPPORT THE OVERHANGS.

CATCH BASIN RIMS ARE TO BE
RECESSED 1" BELOW FINISHED
PAVEMENT.

ALL DIMENSIONS ARE MINIMUM

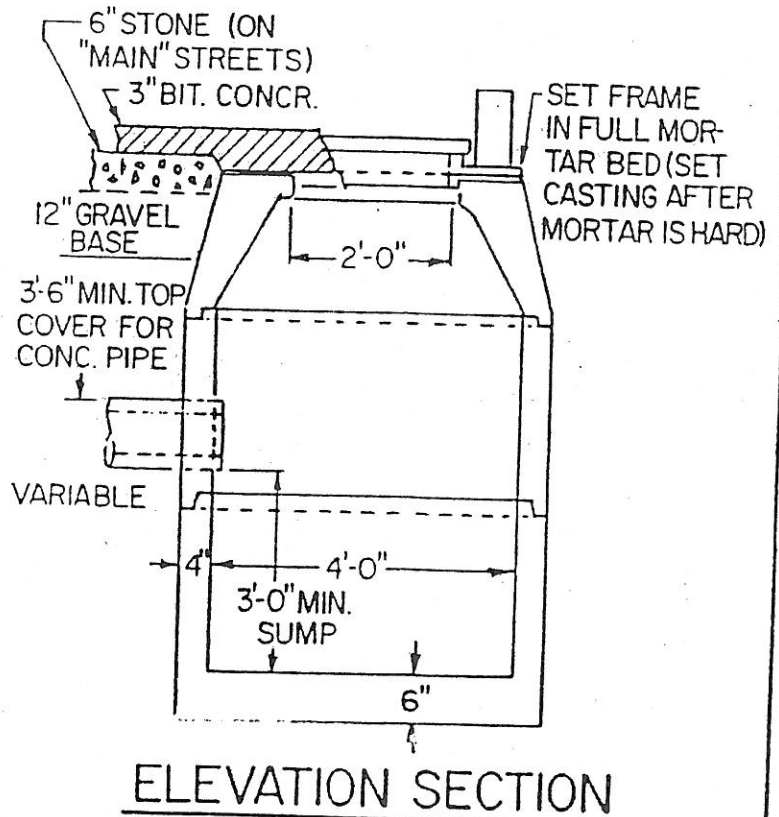
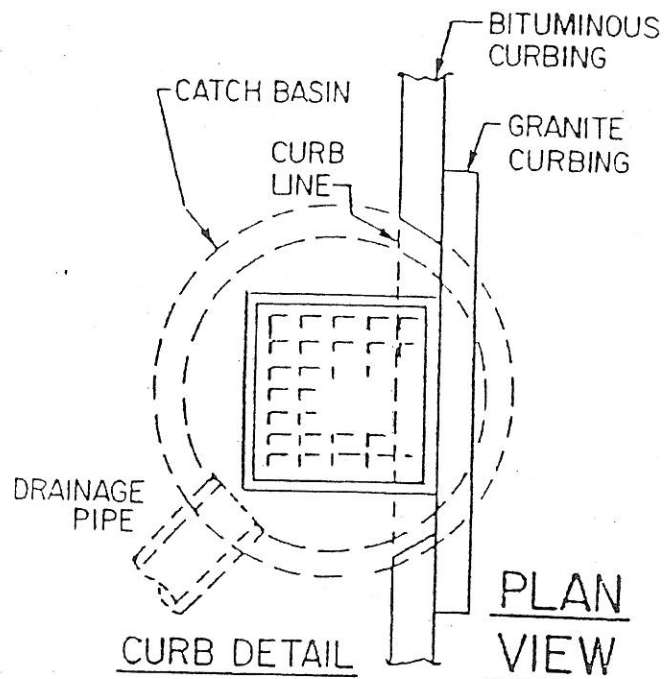
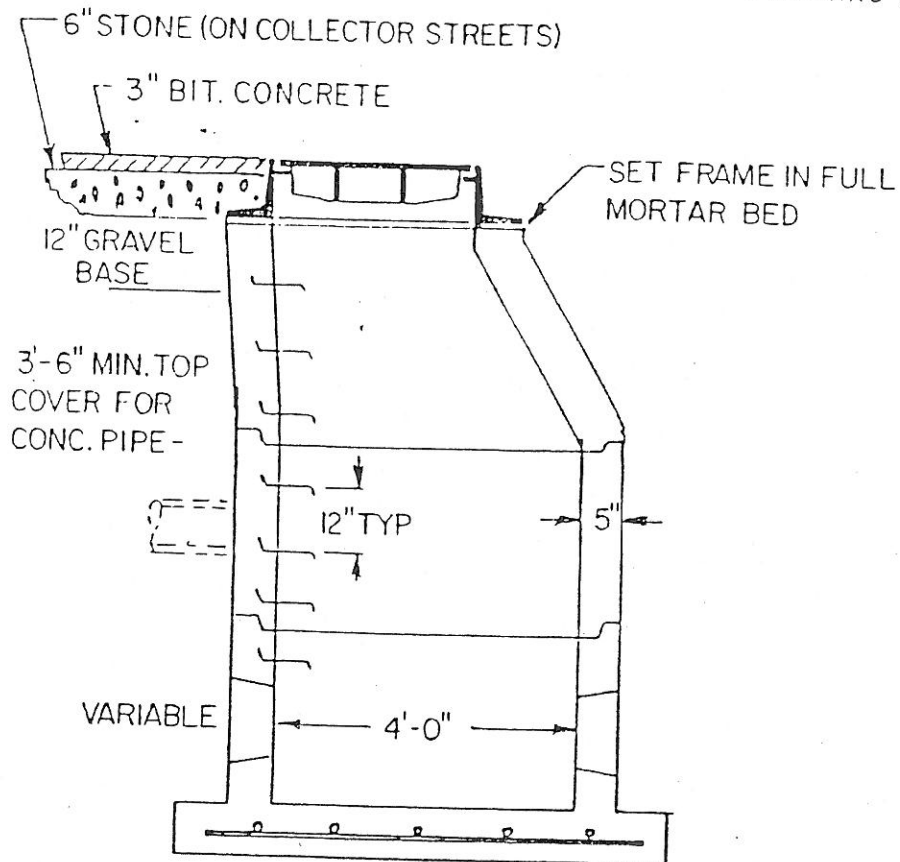


PLATE 3A

TOPSFIELD
PLANNING BOARDDRAIN MANHOLEELEVATION SECTION

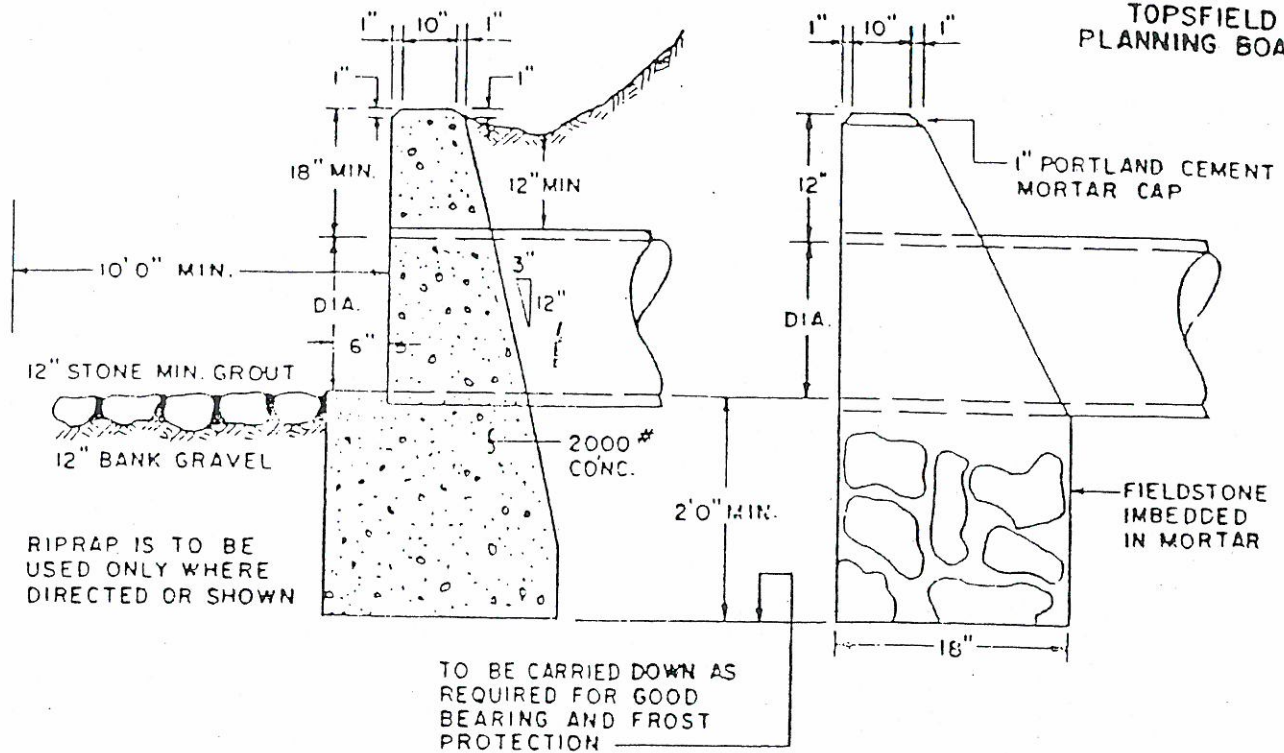
PRECAST CONCRETE DRAIN MANHOLE SHALL CONFORM TO ASTM SPEC. NO C 478 - 82a.

FRAME & COVER SHALL BE LEBARON LK 110A OR EQUIVALENT.

ALL DRAIN MANHOLE COVERS SHALL BE INSTALLED TO CONFORM WITH PITCH OF ROADWAY.

DRAIN MANHOLE COVER TO BE FLUSH WITH ROAD SURFACE.

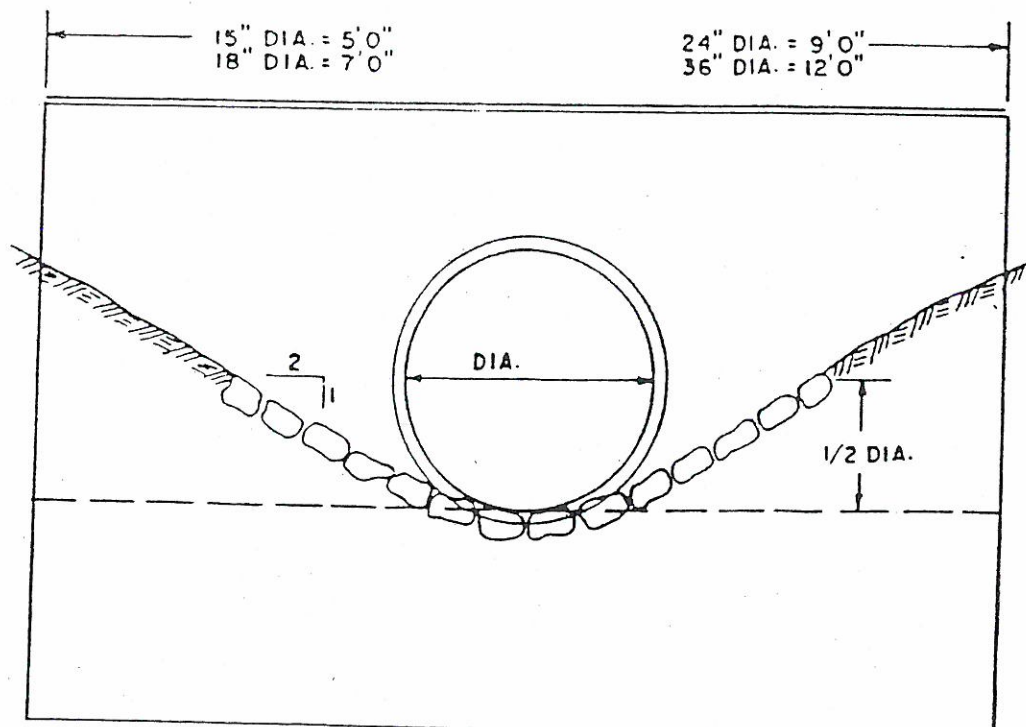
ALL DIMENSIONS ARE MINIMUM.



CONCRETE

FIELDSTONE

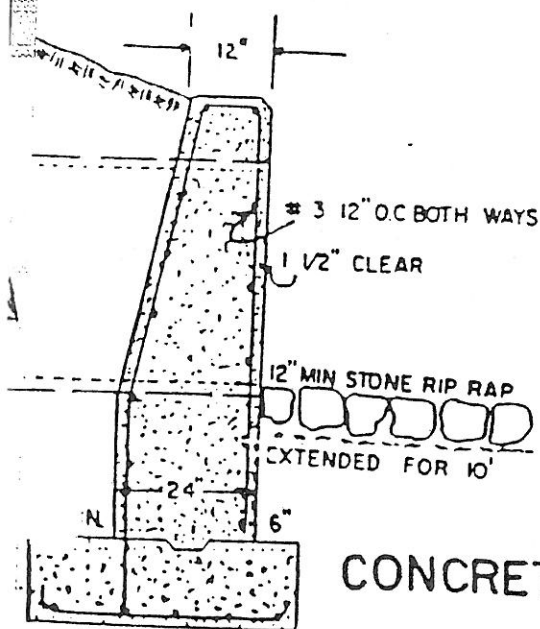
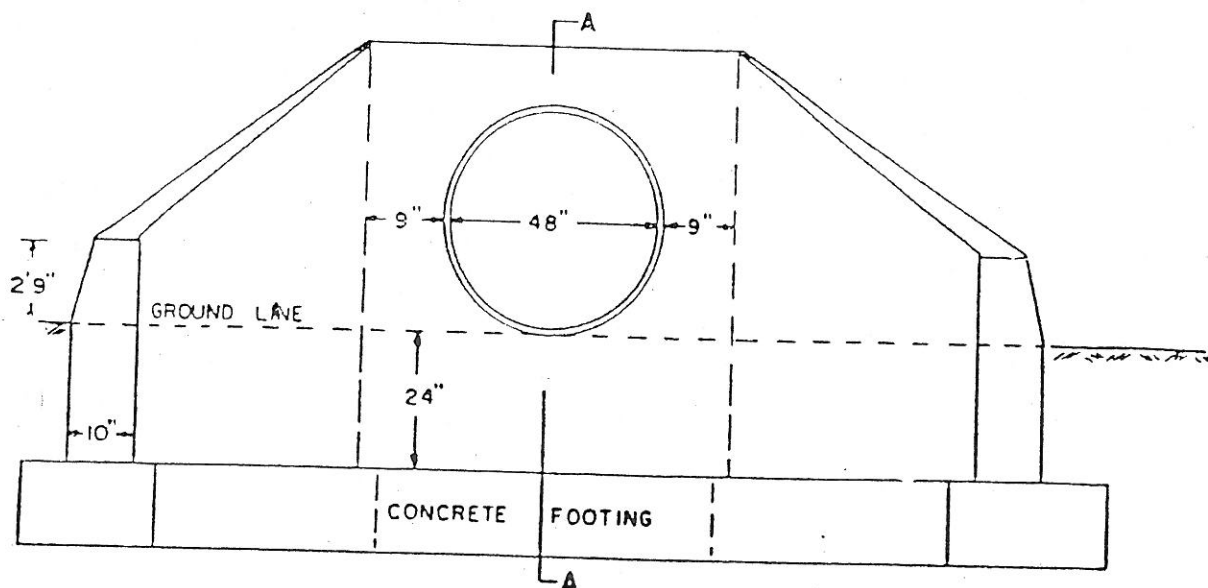
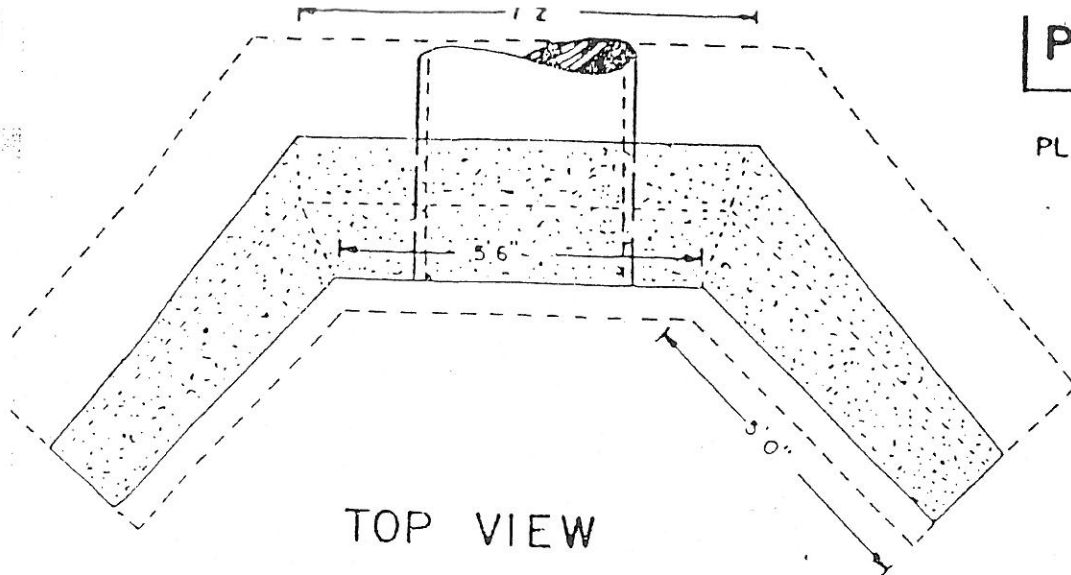
SIDE ELEVATION



FRONT ELEVATION

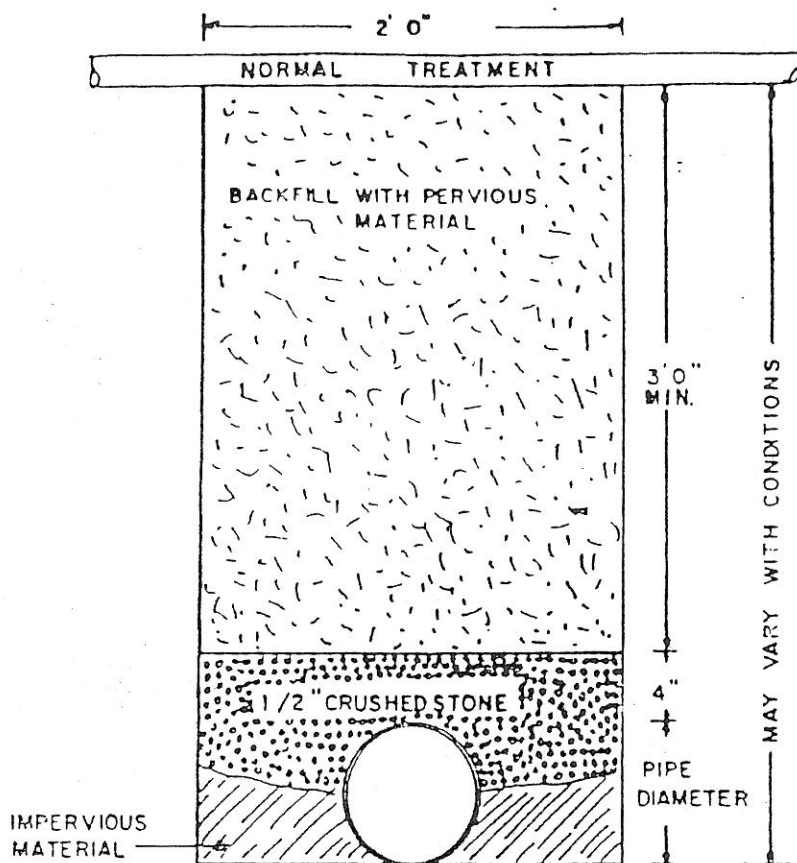
CONCRETE AND FIELDSTONE HEADWALL
FOR PIPE CULVERT

TOPSFIELD
PLANNING BOARD



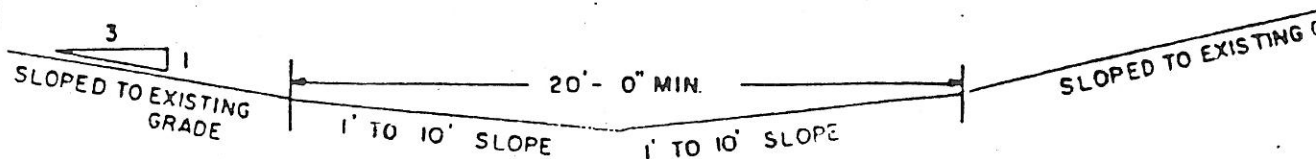
1. A CONCRETE FOOTING IS REQUIRED IF THE TOTAL HEIGHT OF THE HEADWALL IS GREATER THAN 5'.
2. THE CONCRETE FOOTING SHOWN IS A MINIMUM SIZE AND SHALL BE INCREASED AS THE TOTAL HEIGHT OF THE WALL IS INCREASED.
3. THE CONCRETE FOOTING SIZE WILL BE DEPENDENT UPON THE BEARING SURFACE.

CONCRETE HEADWALL WITH WINGWALLS (FOR LARGE DIAMETER PIPE)



TYPICAL SUBDRAIN

NOTE: IN LEDGE CUTS OMIT IMPERVIOUS MATERIAL.
USE 1/2" CRUSHED STONE FROM A LINE 6" BELOW THE
PIPE TO A LINE 4" ABOVE THE PIPE.
PERFORATIONS TO FACE DOWN.



TYPICAL DRAINAGE SWALE