

BACKSLOPE AS SPECIFIED ON PLANS PREPARED FOUNDATION MULCH BLANKET SEE NOTES SEE NOTES SPECIFIED ON PLANS WIDTH AS SPECIFIED ON PLANS COBBLESTONE 6" LEAST DIMENSION

HMA PAVED DITCH

PLAIN COBBLE DITCH GROUTED COBBLE DITCH

GROUTED COBBLE DITCHES SHALL BE THE SAME AS THE PLAIN COBBLE DITCHES. EXCEPT THE COBBLESTONES SHALL BE LAID IN A LAYER OF CEMENT MORTAR ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS.

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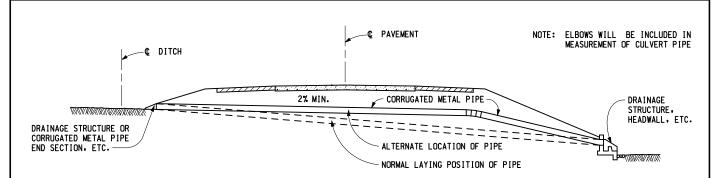
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MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

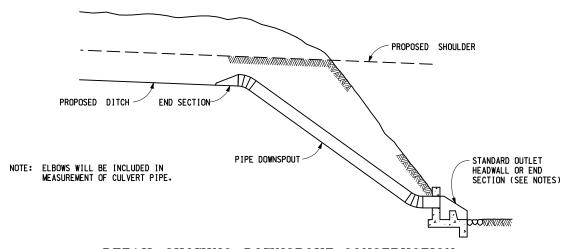
PAVED AND COBBLE DITCHES, & DRAINAGE TREATMENT DETAILS

9-10-2010 F.H.W.A. APPROVAL 4-6-2010 Plan Date R-46-D

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DETAIL SHOWING ALTERNATE METHOD OF INSTALLING CULVERT IN HIGH FILL AREAS



DETAIL SHOWING DOWNSPOUT CONSTRUCTION USING METAL END SECTION ON UPPER END

NOTES:

CORRUGATED METAL PIPE END SECTIONS MAY BE USED ON THE LOWER ENDS OF STEEP CULVERTS OR DOWNSPOUTS WITH LIMITED AMOUNTS OF RUNOFF OR WHERE THEY WOULD BE EXPOSED TO TRAFFIC IN THE CLEAR ZONE. CORRUGATED METAL PIPE END SECTIONS IN THESE LOCATIONS MAY REQUIRE ADDITIONAL EROSION CONTROL SUCH AS MORE RIPRAP. TOE PLATES SHOULD BE CALLED FOR WHEN END SECTIONS ARE USED ON STEEP CULVERTS OR DOWNSPOUTS.

THE CONCRETE PAVED, GROUTED COBBLE, AND PLAIN COBBLE DITCHES SHALL BE UNDERLAID WITH GEOTEXTILE. THE EDESS OF GEOTEXTILE SHALL EXTEND UP THE SIDES OF THE DITCH BOTTOM TO THE BOTTOM OF THE MULCH BLANKET AND SHALL RUN THE FULL LENGTH OF THE DITCH. WHEN OVERLAPPING OCCURS, OVERLAP MATERIAL A MINIMUM OF 2'-0".

USE HIGH VELOCITY MULCH BLANKETS ON FILL SLOPES 1:2 OR STEEPER. USE STANDARD MULCH BLANKETS ON FILL SLOPES FLATTER THAN 1:2.

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