

(ES-1) CITY OF SACO
STONE CHECK DAM

N.T.S.

Short Form Specifications:

Material: **2 TO 3 INCH STONE**

QA/QC: **INSPECT TO ENSURE CENTER IS LOWER THAN EDGES.
INSPECT FOR SEDIMENT BUILDUP, REMOVE AT 50%
HEIGHT BUILDUP.**

Submittal: **STONE GRADATION ANALYSIS**

Completion: **REMOVE UPON STABILIZATION OR REMOVAL OF DITCH
OR SWALE**

Installation: **CHECK DAMS SHALL BE INSTALLED PRIOR
TO RUNOFF BEING DIRECTED TO SWALE**

Design Checklist:

Use: **CONSTRUCT IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS OR TEMPORARY DITCHES OR SWALES TO PROVIDE
PROTECTION UNTIL STABILIZATION CAN BE ACHIEVED.**

Computations: **COMPUTE SLOPE OF CHANNEL; DETERMINE SPACING BETWEEN CHECK DAMS.**

Water Quality Provisions:

COARSE SEDIMENT REMOVAL; INDUCE INFILTRATION; VELOCITY REDUCTION

Cross Reference:

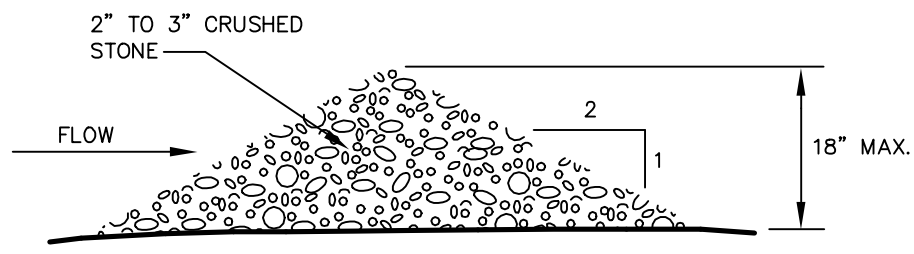
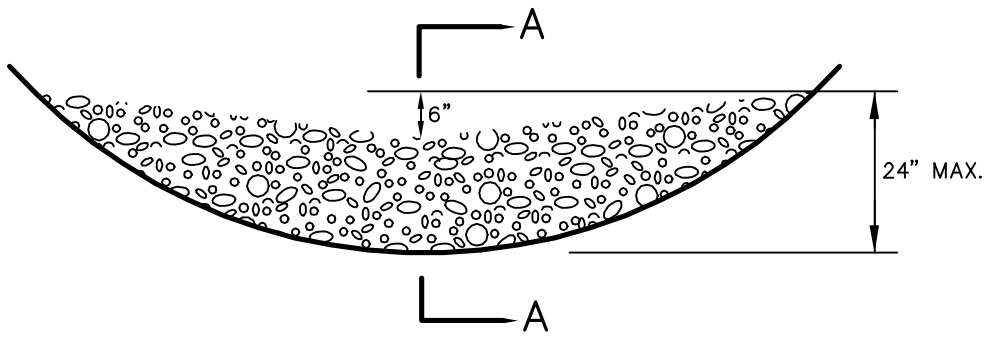
Zoning/Site Plan Review: **ARTICLE 8 – GOOD NEIGHBOR PERFORMANCE STANDARDS, SECTION 806 – EROSION CONTROL**

Subdivision Review: **ARTICLE 5 – PRELIMINARY PLAN, PARAGRAPH 5.2.2(17)**

Erosion Control BMP: **SECTION 15.0 – TEMPORARY CHECK DAMS**

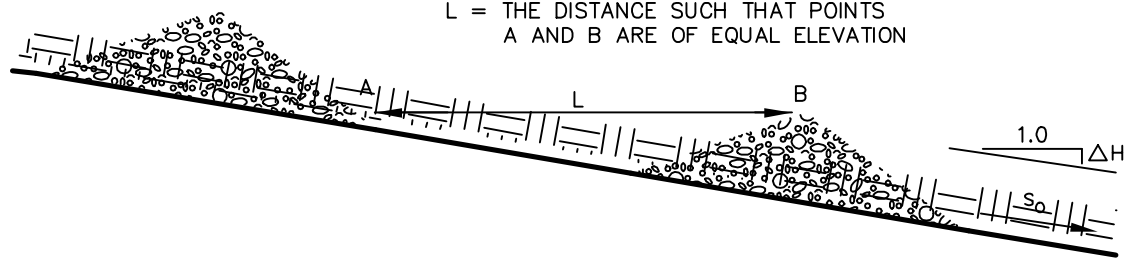
ASCE MREP No. 77: **CHAPTER 9, P.358**

MEDEP STORMWATER BMP: **SECTION 6.2.3 – VEGETATIVE SWALE WITH CHECK DAMS**



SECTION A-A

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION



SPACING BETWEEN CHECK DAMS

S_0 (FT./FT.)	L (FT.)
0.020	75
0.030	50
0.040	40
0.050	30
0.080	20
0.100	15'

NOTE:
USE STONE CHECK DAMS FOR TEMPORARY DIVERSION SWALES ON THE SITE.

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