**APPLICATION NOTES:**

A. The primary purpose of a check dam is to reduce erosion in a channel by reducing flow velocity in the channel.

B. Check dams will capture sediment that falls out of suspension behind the check dam due to decreased velocity.

C. Check dams are not intended to, and will not filter sediment from turbid water.

D. Bags are filled with clean stone or clean sand to prevent receiving waters from receiving turbidity.

E. Slopes exceeding 10% shall include a channel protective lining.

F. Details shown shall be used for temporary installation only. If stone check dams are located within the established roadway clear zone, they shall remain after the completion of construction. The configuration of check dams shall be in conformance with Division Highways Design Guidance.

**GENERAL NOTES:**

1. DRAINAGE AREAS:
   - Maximum drainage area tributary to stone check dam shall be 0.8 ha.
   - Maximum drainage area tributary to gravel/sand bag check dam shall be 0.8 ha.

2. GRAVEL/SAND BAGS shall be individually tied, double bagged, and inverted.
   - Bags shall lap the joints between the bags in the layer below.

3. MEASURES shall be inspected every seven (7) calendar days after each rainfall of 25mm or more within a 24-hour period, or during prolonged rainfall. Measures shall be cleaned and repaired as required.

4. GENERAL notes are shown in Appendix A. Clean stone or clean sand shall be used for temporary installation only. If stone check dams are located within the established roadway clear zone, they shall remain after the completion of construction. The configuration of check dams shall be in conformance with Division Highways Design Guidance.

5. Course aggregate facing material for the stone check dam shall meet the gradation requirements of size designation #1 or #2 of Table 703-4. Stone filling core material for the stone check dam shall meet the gradation requirements of light stone fill.

6. STONE/GRAVEL BAG/STONE BAG CHECK DAM VOLUMES
   - **SIDE SLOPE**
   - **VOLUME IN**
   - **TYPICAL HEIGHT**
   - **BASED ON V SHAPED DITCH SECTION.
   - **FOR TRAPEZOIDAL DITCH, ADD 0.9 z/m OF DITCH WIDTH.

7. SYMBOLS:

   - **G/SB**
   - **STO**

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**STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION**

**SOIL EROSION AND SEDIMENT CONTROL**

**CHECK DAMS**

**APPROVED:**
- May 8, 2003
- P.J. Clark

**ISSUED UNDER:**
- ED 00-09
- EFFECTIVE: May 8, 2003

**M209-2**