**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 reduced 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 becoming turbid.

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

F. Details shown shall be used for temporary installation only. Stone check dams and gravel/sand check dams shall be in conformance with NYSDOT Roadsides Design Guidance.

---

**GENERAL NOTES:**

1. **DAM CREST**
   - Equal Elevation
   - Bottom of Ditch

2. **PLACEMENT INTERVAL**
   - Based on 2' typical height
   - Application Notes:

   - The primary purpose of a check dam is to reduce erosion in a channel by reducing flow velocity in the channel.
   - Check dams will capture sediment that falls out of suspension behind the check dam due to reduced velocity.
   - Check dams are not intended to, and will not filter sediment from turbid water.
   - Bags are filled with clean stone or clean sand to prevent receiving waters from becoming turbid.
   - Slopes exceeding 10% shall include a channel protective lining.
   - Details shown shall be used for temporary installation only. Stone check dams and gravel/sand check dams shall be in conformance with NYSDOT Roadsides Design Guidance.

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**GENERAL NOTES:**

1. **DRAINAGE AREAS:**
   - Maximum drainage area tributary to stone check dam shall be 2 acres.
   - Maximum drainage area tributary to gravel/sand check dam shall be 2 acres.

2. **GRAVEL/SAND BAGS:**
   - Individually tied, double baged and inversely inserted. Bags shall lap the joints between the bags in the layer below.

3. **MEASURES:**
   - Measures shall be inspected every seven (7) calendar days, after each rainfall of 0.5" or more within a 12-hour period, or daily during prolonged rainfall. Measures shall be cleaned and repaired as required.

4. **SEDIMENT:**
   - Sediment shall be removed when accumulation reaches one-half of the measure height. Sediment shall be disposed of as unsuitable material.

5. **COURSE AGGREGATE FACING MATERIAL:**
   - For the stone check dam, 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 filling.

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**STATE OF NEW YORK**

**DEPARTMENT OF TRANSPORTATION**

**U.S. CUSTOMARY STANDARD SHEET**

**APPROVED SEPTEMBER 19, 2008**

**CHECK DAMS**

(SHEET 1 OF 2)

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**CHECK DAM VOLUMES**


<table>
<thead>
<tr>
<th>SUFFIX</th>
<th>VOLUME (V)</th>
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<tbody>
<tr>
<td>00</td>
<td>1 cy</td>
</tr>
<tr>
<td>05</td>
<td>1.5 cy</td>
</tr>
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<td>10</td>
<td>2 cy</td>
</tr>
<tr>
<td>15</td>
<td>3 cy</td>
</tr>
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<td></td>
<td><strong>BASED ON</strong> V SHAPED DITCH SECTION **</td>
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**STONE/GRAVEL BAG/STONE BAG CHECK DAM**

**ITEM SUFFIXES**


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<thead>
<tr>
<th>SUFFIX</th>
<th>SIZE</th>
<th>SLOPE</th>
<th>VOLUME (V)</th>
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<tr>
<td>05</td>
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<td>2 cy</td>
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<td></td>
<td><strong>BASED ON 2' TYPICAL HEIGHT</strong></td>
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**STONE/GRAVEL BAG/STONE BAG CHECK DAM**

**PLACEMENT INTERVAL**


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<tr>
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<th>PLACEMENT INTERVAL</th>
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<tbody>
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</tr>
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<td>25'</td>
</tr>
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<td>60'</td>
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**STATE OF NEW YORK**

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**U.S. CUSTOMARY STANDARD SHEET**

**CHECK DAMS**

(SHEET 1 OF 2)

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**APPROVED SEPTEMBER 19, 2008**

**ISSUED UNDER EB 08-036**

**DTM-0109553**

**FILE NAME =**

**DATE/TIME =**

**USER =**

**jturley**

**EFFECTIVE DATE: 01/08/09**

**DEPUTY CHIEF ENGINEER**

**DANIEL D’ANGELO, P.E.**

**APPROVED SEPTEMBER 19, 2008**

**STATE OF NEW YORK**

**DEPARTMENT OF TRANSPORTATION**

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(SHEET 1 OF 2)

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**CHECK DAMS**

(SHEET 1 OF 2)

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**CHECK DAMS**

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**STATE OF NEW YORK**

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**U.S. CUSTOMARY STANDARD SHEET**

**CHECK DAMS**

(SHEET 1 OF 2)
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 from the check dam to reduce sediment.
C. Check dams are not intended to be used in channels with a slope greater than 1:2.
D. Prefabricated and silting check dams are not to be used on slopes greater than 1:2.

NOTES:
1. The check dam is the portion of the prefabricated check dam that is fixed together and placed as shown in the plan of the dam.
2. Prefabricated and silting check dams are not to be used on slopes greater than 1:2.
3. The bottom edge of the silting fence shall be buried a minimum of 6".
4. The fence shall be installed with the posts on the downstream side of the fabric.
5. Approved silting fence geotextiles are listed on the Department's approved list. Geotextiles shall be a single continuous piece to eliminate joints.
6. The bottom edge of the silting fence shall be extended to prevent bypass drainage around the ends.
7. Wire mesh reinforcement is required for all silting fence check dams.
8. Check dams shall be inspected every seven (7) calendar days, after each rainfall of one-half inch or more, within a 12 hour period, or daily during prolonged rainfall. Check dams shall be cleaned and repaired as necessary.
9. Sediment shall be removed when accumulation reaches one-half of the maximum height. Sediment shall be disposed of as unsuitable material.