NOTE:
The machine sliced method (this detail) is the standard silt fence installation method. Heavy-duty (ERO-1B) or standard (ERO-1C) silt fence installation methods should only be used when approved or directed by the city.

COMPACTION:
After "slicing" in the fabric and before installation of steel posts, drive installation equipment over the "slice" while fabric is laying on the ground. Then install steel posts and pull up fabric to attach at a uniform height.
STEEL FENCE POST (T-POST), MINIMUM 5' LONG, 6' MAXIMUM SPACING.

POST NOTCHES TO FACE AWAY FROM FABRIC.

ATTACH FABRIC TO POST WITH MINIMUM 3 ZIP TIES (50 LB. TENSILE) PER POST IN TOP 8" OF FABRIC.

LAY FABRIC/WIRE MESH IN THE TRENCH, BACKFILL WITH NATURAL SOIL, AND COMPACT WITH MACHINE DRIVEN VIBRATORY PLATE OR LIGHT EQUIPMENT PRIOR TO PLACEMENT OF THE POSTS.

ATTACH WIRE MESH TO POSTS WITH MINIMUM 3 U-SHAPED WIRE FASTENERS PER POST.

EXTEND WIRE MESH INTO TRENCH

DIRECTION OF SURFACE FLOW

NOTE:
HEAVY DUTY SILT FENCE FOR CURB PROTECTION REQUIRE POSTS TO BE INSTALLED ON HOUSE SIDE OF FABRIC.

NOTE:
DUAL PURPOSE USE OF HEAVY DUTY FENCE FOR PERIMETER CONTROL AND CURB PROTECTION REQUIRE STEEL POSTS ALTERNATING ON BOTH SIDES OF FABRIC WITH 4' SPACING. SEE LAND DISTURBANCE PERMIT.
STEEL FENCE POST (T-POST),
MINIMUM 5' LONG,
6' MAXIMUM SPACING.

LAYER FABRIC IN THE TRENCH,
BACKFILL WITH NATURAL
SOIL, AND COMPACT MACHINE
DRIVEN VIBRATORY PLATE OR
WITH LIGHT EQUIPMENT
PRIOR TO PLACEMENT OF THE
POSTS.

MONOFILAMENT GEOTEXTILE
FABRIC PER MNDOT TABLE
3886-1 (MACHINE SLICED).

ATTACH FABRIC TO POST WITH
MINIMUM 3 ZIP TIES (50 LB.
TENSILE) PER POST IN TOP 8"
OF FABRIC.

POST NOTCHES
TO FACE AWAY
FROM FABRIC.

LAY FABRIC IN THE TRENCH,
BACKFILL WITH NATURAL
SOIL, AND COMPACT MACHINE
DRIVEN VIBRATORY PLATE OR
WITH LIGHT EQUIPMENT
PRIOR TO PLACEMENT OF THE
POSTS.

DIRECTION OF
SURFACE FLOW

6"

24"MINIMUM
POST EMBEDMENT

6"
Overlap end joints minimum of 6" and staple overlap at 1.5' intervals.

Overlap longitudinal joints minimum of 6".

Staple density shall be a minimum of 3 U-shaped 8", 11 gauge metal staples per square yard (this may vary as directed by the city).

Anchor trench:
1. Dig 6" x 6" trench
2. Lay blanket in trench
3. Staple at 1.5' intervals
4. Backfill with natural soil and compact
5. Blanket length shall not exceed 100' without an anchor trench

Anchor trench (see detail and notes below)

Direction of surface flow

1' to 3'

6"

6"
NOTES:
- DOUBLE SILT CURTAINS SHOULD BE SPACED 10' APART.
- CURTAIN LENGTH TO MATCH BOTTOM PROFILE AS CLOSELY AS POSSIBLE.
NOTES:
CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.

WOODEN LATH SHALL BE NAILED SECURELY TO THE POST MEMBER TO SECURE FILTER FABRIC.

2" X 4" HORIZONTAL MEMBERS CONTINUOUS AROUND TOP AND BOTTOM. FASTENED TO EACH POST USING 2-20D COMMON NAILS

2" X 4" X 2.5' LONG WOOD POSTS, 8 REQ'D.

MONOFILAMENT GEOTEXTILE FABRIC AS PER MNDOT TABLE 3886-1 (MACHINE SLICED). ADDITIONAL 8-10" OF FABRIC FLAP AT BOTTOM OF BOX

8-10" FABRIC FLAP EXTENDING BEYOND BOTTOM 2"x4" - BURY UNDER ROCK TO PREVENT UNDERWASHING

1 1/2" WASHED ROCK 1' DEEP X 1' WIDE

STANDARD DETAILS
INLET PROTECTION -SILT BOX FOR CATCH BASIN BEFORE CONSTRUCTION

Revised 1/2019
Standard Plate No. ERO-4A
PLAN

PROPOSED CURB = DIRECTION OF SURFACE FLOW

1 1/2" WASHED GRAVEL FILTER

8-12" MINIMUM DEPTH

IN PLACE CATCHBASIN

AGGREGATE BASE

STEEL PLATE

AGGREGATE BACKFILL

Revised
1/2019
ERO-4B
OVERFLOW IS 1/2 OF THE CURB BOX HEIGHT

PLAN

WIMCO ROAD DRAIN CG-23* HIGH FLOW INLET PROTECTION CURB AND GUTTER MODEL OR CITY APPROVED EQUAL.

DEFLECTOR PLATE

OVERFLOW IS 3/4 OF THE CURB BOX HEIGHT

OVERFLOW AT TOP OF FILTER ASSEMBLY

FILTER ASSEMBLY DIAMETER,
6" ON-GRADE
10" AT LOW POINT

HIGH-FLOW FABRIC

* FOR THE NEW R-3067-VB STANDARD CASTING,
INSTALL WIMCO ROAD DRAIN CG-3290 OR CITY APPROVED EQUAL.
WOODEN LATH SHALL BE NAILED SECURELY TO THE POST MEMBER TO SECURE FILTER FABRIC.

2" X 4" HORIZONTAL MEMBERS CONTINUOUS AROUND TOP AND BOTTOM. FASTENED TO EACH POST USING 2-20D COMMON NAILS

MONOFILAMENT GEOTEXTILE FABRIC AS PER MNDOT TABLE 3886-1 (MACHINE SLICED). ADDITIONAL 8-10" OF FABRIC FLAP AT BOTTOM OF BOX

2" X 4" X 2.5' LONG WOOD POSTS, 8 REQ'D.

2" X 4" X 2.5' LONG HORIZONTAL MEMBERS CONTINUOUS AROUND TOP AND BOTTOM. FASTENED TO EACH POST USING 2-20D COMMON NAILS

8-10" FABRIC FLAP EXTENDING BEYOND BOTTOM 2"x4" - BURY UNDER ROCK TO PREVENT UNDERWASHING

1 1/2" WASHED ROCK 1' DEEP X 1' WIDE

NOTES:
CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.

CHISAGO CITY Gateway to the Lakes

STANDARD DETAILS
INLET PROTECTION -SILT BOX FOR BEEHIVE CASTING

1/2019
ERO-4D
6" X 6" TRENCH WITH LEADING EDGE OF TYPE IV GEOTEXTILE FABRIC STAPLED AT 4’ INTERVALS AND BACKFILLED WITH NATURAL SOIL

NOTE: POINT 1 MUST BE A MINIMUM OF 6" HIGHER THAN POINT 2 TO ENSURE THAT WATER FLOWS OVER THE DITCH CHECK AND NOT AROUND THE ENDS.

DITCH CHECK SPACING
(USE FOR DETAILS ERO-5B AND 5C)

<table>
<thead>
<tr>
<th>DITCH GRADE</th>
<th>INTERVAL</th>
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<tbody>
<tr>
<td>(%)</td>
<td>(FT)</td>
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<tr>
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<td>10+</td>
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MIN. 6" OVERLAP IF NECESSARY, STAPLE 1’ O.C.

6" X 11 GAUGE METAL STAPLES SPACED 2’ O.C.

TYPE IV GEOTEXTILE FABRIC

POINT 1

POINT 2

DITCH CHECK ROCK/BIO WEEPER OR CHECK DAM (SEE ERO-5B AND 5C)
I. ROCK WEEPER

MNDOT TYPE 9 MULCH (1 1/2" WASHED ROCK)

DIRECTION OF SURFACE FLOW

TYPE IV GEOTEXTILE FABRIC ANCHORED IN 6" X 6" TRENCH WITH 6", 11 GAUGE METAL STAPLES AT 1' INTERVALS.

STAPLE DOWNSTREAM SIDE OF FABRIC AT 2' INTERVALS.

II. BIO WEEPER

MNDOT TYPE 9 MULCH (1 1/2" WASHED ROCK)

DIRECTION OF SURFACE FLOW

TYPE IV GEOTEXTILE FABRIC ANCHORED IN 6" X 6" TRENCH WITH 6", 11 GAUGE METAL STAPLES AT 1' INTERVALS.

6" DIA. WATTLE WITH MINIMUM 24" SURVEY LATH STAKED 2' O.C. ALONG WATTLE LENGTH.
I. SMALL CHECK DAM

MNDOT CLASS II RIP RAP

DIRECTION OF SURFACE FLOW

TYPE IV GEOTEXTILE FABRIC ANCHORED IN 6" X 6" TRENCH WITH 6", 11 GAUGE METAL STAPLES AT 4' INTERVALS.

STAPLE DOWNSTREAM SIDE OF FABRIC AT 2' INTERVALS

II. LARGE CHECK DAM

MNDOT CLASS III RIP RAP

DIRECTION OF SURFACE FLOW

TYPE IV GEOTEXTILE FABRIC ANCHORED IN 6" X 6" TRENCH WITH 6", 11 GAUGE METAL STAPLES AT 4' INTERVALS.

STAPLE DOWNSTREAM SIDE OF FABRIC AT 2' INTERVALS
MOUNT BOARD WITH LAG BOLTS THROUGH TRASH GUARD MOUNTING HOLES.

WEIR (2" x VARIABLE HEIGHT) NOT MORE THAN 33% OF PIPE DIAMETER AND NEVER MORE THAN 12".

NOTE:
1" NOTCH FOR WEIRS 4"-6" HIGH
2" NOTCH FOR WEIRS 6"-12" HIGH

LENGTH OF NOTCH NOT TO EXCEED 33% OF PIPE DIAMETER AND NEVER MORE THAN 12".
BIOROLL OR ROCK WEIR

6" OR 12" BIOROLL INSIDE TRASH GUARD

TRASH GUARD

INVERT OF FES

6"-12" OF 1½" WASHED ROCK OVER MONOFILAMENT GEOTEXTILE FABRIC INSIDE TRASH GUARD

FASTEN FABRIC TO TRASH GUARD

FABRIC

BIOROLL WEIR

ROCK WEIR

STANDARD DETAILS
PIPE CHECK
BIO ROLL WEIR & ROCK WEIR

CHISAGO CITY
Gateway to the Lakes

Revised
1/2019
ERO-6B

Standard Plate No.
NOTES:
1. FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH ROCK.
2. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS. FUGITIVE ROCK WILL BE REMOVED FROM ADJACENT ROADWAYS DAILY OR MORE FREQUENTLY AS NECESSARY.
3. WOOD CHIPS WILL NOT BE ALLOWED

3/4" - 1" ROCK RESIDENTIAL 8" MINIMUM DEPTH
2" - 3" ROCK COMMERCIAL/INDUSTRIAL 8" MINIMUM DEPTH