ORGANIC FILTER TUBE NOTES:

Drainage Area:
1. Limit the drainage area to Ø.25 acres per 100 linear ft. of barrier. (i.e. an area 100 ft. wide behind 100 ft. of tube meets the criteria).
2. Typically, Organic Filter Tubes can handle the same water flow or slightly more than silt fence.

Tube Diameter: Organic Filter Tube diameter should be a minimum of 10" to 12" or as specified on plans.
A. Place tubes on slopes less than 5% or at the bottom of steeper slopes, less than or equal to 2:1 up to 25 ft. long; on longer slopes, areas with greater flows or where maximum sediment control is desired, a larger diameter of tube should be used.
B. If a slope exceeds 4:1 gradient, it may be necessary to stake the tube at 6 ft. to 8 ft. intervals.
C. A sediment trench 1" to 2" deep may be constructed immediately upgrade of the Organic Filter Tube.

Material Specifications: Chipped site vegetation, composted mulch, or wood-based mulch with particulate sizes of fine (1/4" to 1/2") and coarse grades of compost/mulch with no particulate sizes exceeding 3" in length. The mixture ratio should be or may include a greater fraction of coarser blend materials (1:2) (fine: coarse).

Minimum Tube Material Specifications:
8" diameter - 22 pillar, white: Weight (gm/ft). 41 grams Stretch width: 14-1/2 inches Coarse count: 4.6 Pillar spacing: 7/8 inch HDPE netting UV stabilizer Fade resistant color

Maintenance Requirements: Organic Filter Tubes should be inspected weekly and after major rain events to ensure that the device is functioning properly. Remove sediment from behind tube when the depth of the sediment has built up to one-third the height of the tube. If the tube has been smashed, simply place hands on either side of tube and "fluff up" to original size. If the tube fabric has ripped, cut off at tear and re-tie each side, place new tube (patch) overlapping existing tube 3 ft. both ways.

ORGANIC FILTER BERM NOTES:

Drainage Area:
1. Limit the drainage area to Ø.25 acres per 100 linear ft. of barrier (i.e. an area 100 ft. wide behind 100 ft. of berm meets the criteria).
2. Typically, berms can handle the same water flow or slightly more than silt fence.

Height: 1 ft (minimum) to 3 ft (maximum) or as specified on plans.

Width: 2 ft (minimum) to 5 ft (maximum) or as specified on plans. Place berm on slopes less than 5% or at the bottom of steeper slopes, less than or equal to 3:1 up to 20 ft. long. On longer or steeper slopes, the berm should be larger in both height and width to accommodate the higher flow rate.

Material Specifications: Chipped site vegetation, composted mulch, or wood-based mulch with particulate sizes of fine (1/4" to 1/2") and coarse grades of compost/mulch with no particulate sizes exceeding 3-1/2" in length. The mixture ratio should be or may include a greater fraction of coarser blend materials (1:2) (fine: coarse).

Maintenance Requirements: Organic Filter Berms should be inspected weekly and after major rain events to ensure that the device is functioning properly. Remove sediment from behind berm when the depth of the sediment has built up to one-third the height of the berm by raking. Contractor shall immediately correct all deficiencies, rebuilding berm, if necessary, in accordance with the original specifications

NATIVE PRAIRIE SEEDING NOTES

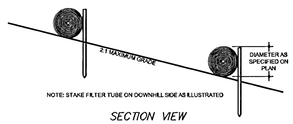
1. ALL DISTURBED AREAS WEST OF WILLIAMSGATE R.O.W. (SUB CORRIDOR) & SIDEWALK AREA) SHALL BE SEEDED WITH NATIVE PRAIRIE MIX @ 15 PLS/ACRE. (REFER TO SEED MIX TABLE).

2. NATIVE SEEDING ON BERMS SHALL BE PERFORMED BETWEEN MARCH 1 AND MAY 1 OR OUTSIDE THIS TIME FRAME ONLY WITH PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT. A NO-TILL DRILL INTENDED FOR NATIVE SEEDS SHALL BE USED TO THE GREATEST EXTENT POSSIBLE TO PLANT INTO THE EXISTING RYE COVER CROP. BROADCASTING WILL BE ALLOWED IN UNACCESSABLE AREAS TO THE DRILL ONLY AFTER GROUND IS DISTURBED TO CREATE A SUITABLE SEEDBED. SEEDING DEPTH SHALL BE ¼". NOTE THAT TREE AND SHRUB PLANTINGS AND IRRIGATION WILL BE INSTALLED BY THE OWNER PRIOR TO PERMANENT SEEDING. THE CONTRACTOR SHALL TAKE CARE TO SEED AROUND THESE IMPROVEMENTS. ANY RESULTING DAMAGES SHALL BE CORRECTED.

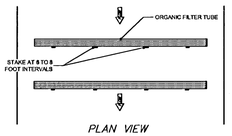
3. ALL DISTURBED AREAS SHALL BE IMMEDIATELY MULCHED W/ PRAIRIE HAY AT 2 TONS/ACRE. ANCHOR MULCH BY CRIMPING INTO TOPSOIL WITH SUITABLE MECHANICAL EQUIPMENT.

NATIVE PRAIRIE MIX

% MIX	COMMON NAME	BOTANICAL NAME
25%	BIG BLUESTEM	Andropogon gerardii 'Kaw'
20%	LITTLE BLUESTEM	Andropogon scoparius 'Aldous'
25%	INDIANGRASS	Sorghastrum nutans 'Oneyama'
5%	SWITCHGRASS	Panicum virgatus 'Blackwell'
10%	SIDE OATS GRAMA	Bouteloua curtipendula 'El Reno'
5%	WESTERN WHEATGRASS	Agropyron smithii 'Barton'
SEED @ PLS (pure live seed) POUNDS PER ACRE		



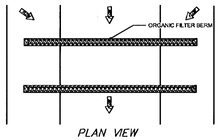
SECTION VIEW



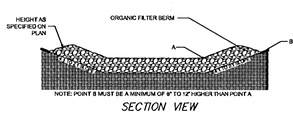
PLAN VIEW

ORGANIC FILTER TUBES

SECTION VIEW

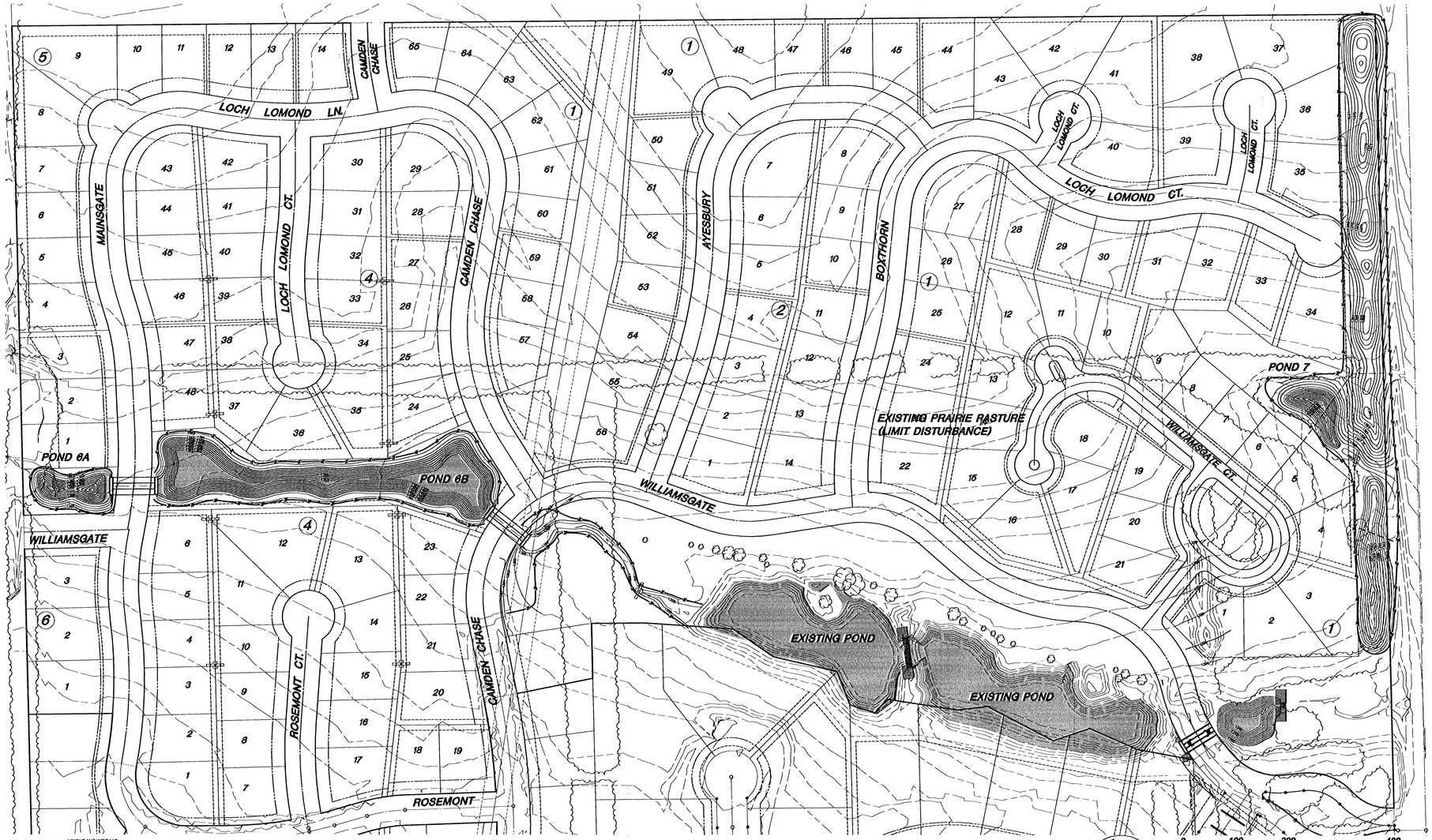


PLAN VIEW



SECTION VIEW

ORGANIC CHECK DAM (FILTER BERM)



SCALE: 1" = 100'

EROSION CONTROL NOTES

1. EROSION CONTROL IS TO MEET ALL FEDERAL, STATE, COUNTY & LOCAL CODE STANDARDS.

2. ALL AREAS DISTURBED (POND BANKS, BERMS, LOT & STREET FILLS, HAUL ROADS WITH THE EXCEPTION OF THE NATIVE PASTURE AREA WEST OF WILLIAMSGATE STREET) SHALL BE SEEDED AND FERTILIZED AS FOLLOWS:
   BROME GRASS @ 200 LBS/ACRE
   10-20-10 @ 350 LBS/ACRE

THIS AREA SHALL BE FINE GRADED AND SURFACE SHALL BE FREE FROM STICKS, SMALL STONES, AND OTHER EXTRANEOUS MATERIALS.

THE DISTURBED AREAS WEST OF THE WILLIAMSGATE R.O.W. SHALL BE SEEDED WITH NATIVE PRAIRIE SEED MIX. REFER TO NOTES AND CHART THIS SHEET.

3. CONTRACTOR SHALL PROVIDE EROSION PROTECTION THROUGHOUT PROJECT CONSTRUCTION. THE PLAN PROVIDED HERE IS FOR FINAL PROTECTION, VARIOUS PHASES OF THIS PLAN SHALL BE IMPLEMENTED OR MODIFIED TO CONTROL EROSION. MODIFICATIONS OF THE PLAN SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE.

4. SEEDING AREAS SHALL BE PREPARED FOR PLANTING WITH COMMON AGRICULTURAL TECHNIQUES. APPROVE WITH OWNER'S REPRESENTATIVE BEFORE PLANTING.

5. ALL SEED SHALL BE DISTRIBUTED WITH AN ACCEPTABLE DRILL INTENDED FOR SUCH OPERATIONS, OR OTHER EQUIPMENT APPROVED BY THE OWNER'S REPRESENTATIVE. SEEDING DEPTH SHALL BE ¼".

6. ALL SEEDED AREAS SHALL BE IMMEDIATELY MULCHED W/PRAIRIE HAY AT 2 TONS/ACRE. ANCHOR MULCH BY CRIMPING INTO TOPSOIL WITH SUITABLE MECHANICAL EQUIPMENT.

7. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND IMPLEMENTING ALL EROSION CONTROL. COST IS SUBSIDIARY TO CHECK DAMS AND STABILIZED CONSTRUCTION ENTRANCE.

LEGEND

STRAW BALE DIKE OR ORGANIC FILTER BERM CHECK DAMS

SILT FENCE OR 8" FILTER TUBE

H:\CIVIL\02167\DWG\Grad\Williamsgate_3rd_ADD\02167ER1.DWG

MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

HAWTHORNE THIRD ADDITION
PROJECT NAME

EROSION CONTROL
SHEET TITLE

BJH	BJH	JAG
DESIGN BY:	DRAWN BY:	CHECKED BY:
OCTOBER 2004	02167	28 / 48
DATE	JOB NO.	SHEET/OF