PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SITE DESCRIPTION

I. PROJECT DESCRIPTION

1.0 PROJECT NAME

1.1 PROJECT LOCATION

1.2 PROJECT SIZE

1.3 PROJECT DESCRIPTION

II. SITE IMPACTS

2.0 SITE IMPACTS OF CORROSION ON EXISTING EROSION CONTROL DEVICES

2.1 SITE IMPACTS OF AIR EROSION CONTROL DEVICES

III. CONTROL MEASURES

3.0 CONTROL MEASURES

3.1 GENERAL REQUIREMENTS

3.2 SPECIFIC REQUIREMENTS

3.3 GENERAL AND SPECIFIC REQUIREMENTS

IV. INSPECATIONS

4.0 INSPECATIONS

4.1 GENERAL REQUIREMENTS

4.2 SPECIFIC REQUIREMENTS

V. LONG-TERM MAINTENANCE OF DRAINAGE AND STORMWATER MANAGEMENT SYSTEM

5.0 LONG-TERM MAINTENANCE OF DRAINAGE AND STORMWATER MANAGEMENT SYSTEM

5.1 GENERAL REQUIREMENTS

5.2 SPECIFIC REQUIREMENTS

VI. SPARTANBURG COUNTY & SC DEQ STANDARD NOTES

6.0 SPARTANBURG COUNTY & SC DEQ STANDARD NOTES

6.1 GENERAL REQUIREMENTS

6.2 SPECIFIC REQUIREMENTS

STORMWATER POLLUTION PREVENTION PLAN

1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION

1.2 PROJECT LOCATION

1.3 PROJECT SIZE

1.4 PROJECT DESCRIPTION

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6.2 SPECIFIC REQUIREMENTS

VII. GENERAL REQUIREMENTS

7.0 GENERAL REQUIREMENTS

7.1 DESIGN

7.2 MATERIALS

7.3 CONSTRUCTION

7.4 MAINTENANCE

7.5 WORKMANSHIP

7.6 TESTS AND ACCEPTANCE

7.7 REPLACEMENT

7.8 QA/QC

7.9 COMPLIANCE

VIII. SPECIFIC REQUIREMENTS

8.0 SPECIFIC REQUIREMENTS

8.1 SITE IMPACTS

8.2 CONTROL MEASURES

8.3 INSPECtions

8.4 MAINTENANCE

8.5 QA/QC

8.6 COMPLIANCE

IX. PERMANENT STABILIZATION

9.0 PERMANENT STABILIZATION

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9.2 MATERIALS

9.3 CONSTRUCTION

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X. FERTILIZER REQUIREMENTS

10.0 FERTILIZER REQUIREMENTS

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XI. SWMP PREPARATION CERTIFICATION

11.0 SWMP PREPARATION CERTIFICATION

11.1 DESIGN

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11.3 CONSTRUCTION

11.4 MAINTENANCE

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STORMWATER POLLUTION PREVENTION PLAN

LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

AASHTO  
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

AMD  
ACRYLAMIDE POLYMER

BFM  
BONDED FIBER MATRIX

BMP(S)  
BEST MANAGEMENT PRACTICE(S)

CFS  
CUBIC FEET PER SECOND

CMP  
CORRUGATED METAL PIPE

DHEC  
DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

ECB  
EROSION CONTROL BLANKET

EPA  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

EPSC  
EROSION PREVENTION AND SEDIMENTATION CONTROL

FDA  
UNITED STATES FOOD AND DRUG ADMINISTRATION

FGM  
FLEXIBLE GROWTH MATRIX

HDPE  
HIGH DENSITY POLYETHYLENE

MS4  
MUNICIPAL SEPARATE STORM SEWER SYSTEM

MSDS  
MATERIAL SAFETY DATA SHEETS

NPDES  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

PAM  
POLYACRYLAMIDE OR POLYMER

RCP  
REINFORCED CONCRETE PIPE

SCS  
SOIL CONSERVATION SERVICE

SWPPP  
STORMWATER POLLUTION PREVENTION PROGRAM

TRM  
TURF REINFORCEMENT MAT

VFS  
VEGETATED FILTER STRIP

TEMPORARY SEEDING - UPSTATE SPECIES

LBS/AC

JAN  
FEB  
MAR  
APR  
MAY  
JUN  
JUL  
AUG  
SEP  
OCT  
NOV  
DEC

BROWNTOP MILLET (ALONE)

40

BROWNTOP MILLET (MIX)

10

RYE, GRAIN (ALONE)

56

RYE, GRAIN (MIX)

10

RYEGRASS (ALONE)

50

RYEGRASS (MIX)

8

FOR STEEP SLOPES/CUT SLOPES

WEEPING LOVEGRASS (ALONE)

40

WEEPING LOVEGRASS (MIX)

2

PERMANENT SEEDING - UPSTATE SPECIES

LBS/AC

JAN  
FEB  
MAR  
APR  
MAY  
JUN  
JUL  
AUG  
SEP  
OCT  
NOV  
DEC

BAHIAGRASS (ALONE)

40

BAHIAGRASS (MIX)

30

BERMUDA GRASS (HULLED) (ALONE)

8-12

BERMUDA GRASS (HULLED) (MIX)

4-6

FESCUE, TALL (KY31) (ALONE)

40

FESCUE, TALL (KY31) (MIX)

20

SERICEA LESPEDEZA (SCARIFIED) ALONE OR MIX (INOCULATE WITH EL INOCULANT)

40

LADINO CLOVER (MIX ONLY) INOCULATE WITH AB INOCULANT

2

FOR STEEP SLOPES/CUT SLOPES

WEEPING LOVEGRASS (ALONE)

4

WEEPING LOVEGRASS (MIX)

2

CROWNVETCH (MIX) (INOCULATE WITH TYPE M INOCULANT)

8-10

STORMWATER POLLUTION PREVENTION PLAN

EROSION CONTROL LEGEND

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

Prepecially for Edmonton and Chieftown, SC, 29601, www.thomasandhutton.com

Engineering Division

Standard Detail: 00/00

Version: 09/26/09

BROWNTOP MILLET (ALONE)

40

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FOR STEEP SLOPES/CUT SLOPES

WEEPING LOVEGRASS (ALONE)

4

WEEPING LOVEGRASS (MIX)

2

CROWNVETCH (MIX) (INOCULATE WITH TYPE M INOCULANT)

8-10

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

EC0.2
PORTABLE TOILET FACILITIES MUST BE PROVIDED AND MAINTAINED IN A SAFE AND SANITARY MANNER IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS OR PERMIT CONDITIONS. WHEN PLACED AT A WORK SITE, THE TOILETS MUST BE PLACED IN ACCORDANCE WITH OSHA REQUIREMENTS AND SERVICED IN ACCORDANCE WITH INDUSTRY STANDARDS. THE TOILET UNIT MUST BE SET ON A LEVEL STABLE BASE MATERIAL AWAY FROM STORM DRAINS, WATERWAYS, AND AREAS WITH HIGH VEHICULAR TRAFFIC. THE PORTABLE TOILET SHALL NOT BE PLACED ON THE PUBLIC ROAD PAVEMENT, A PUBLIC SIDEWALK, SEWER MANHOLE, CATCH BASIN OR CURB INLET.

PORTABLE TOILETS SHALL BE POSTED WITH PROPER SIGNAGE TO DISPLAY THE TELEPHONE NUMBER AND CONTACT INFORMATION FOR THE COMPANY RESPONSIBLE FOR CLEANING, SERVICING OR REPAIR OF THE TOILET UNITS.

SKIMMER PLAN NOTES

1. AT SEDIMENT BASIN #1 OUTLET STRUCTURE, CONNECT 6-INCH SKIMMER HEADER PIPE TO PRINCIPAL SPILLWAY STRUCTURE AT 906.0'.

2. WHEN FINAL STABILIZATION IS REACHED, SKIMMER IS TO BE REMOVED.

LIMITS OF DISTURBANCE: 22.8 ACRES
PORTABLE TOILET FACILITIES MUST BE PROVIDED AND MAINTAINED IN A SAFE AND SANITARY MANNER IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS OR PERMIT CONDITIONS.

WHEN PLACED AT A WORK SITE, THE TOILETS MUST BE PLACED IN ACCORDANCE WITH OSHA REQUIREMENTS AND SERVICED IN ACCORDANCE WITH INDUSTRY STANDARDS.

THE TOILET UNIT MUST BE SET ON A LEVEL STABLE BASE MATERIAL AWAY FROM STORM DRAINS, WATERWAYS, AND AREAS WITH HIGH VEHICULAR TRAFFIC. THE PORTABLE TOILET SHALL NOT BE PLACED ON THE PUBLIC ROAD PAVEMENT, A PUBLIC SIDEWALK, SEWER MANHOLE, CATCH BASIN OR CURB INLET.

PORTABLE TOILETS SHALL BE POSTED WITH PROPER SIGNAGE TO DISPLAY THE TELEPHONE NUMBER AND CONTACT INFORMATION FOR THE COMPANY RESPONSIBLE FOR CLEANING, SERVICING OR REPAIR OF THE TOILET UNITS.

**SKIMMER PLAN NOTES**

1. AT SEDIMENT BASIN #1 Outlet Structure, connect 6-inch skimmer header pipe to principal spillway structure at 906.0'.

2. When final stabilization is reached, skimmer is to be removed.

LIMITS OF DISTURBANCE: 22.8 ACRES

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
PORTABLE TOILET FACILITIES MUST BE PROVIDED AND MAINTAINED IN A SAFE AND SANITARY MANNER IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS OR PERMIT CONDITIONS.

When placed at a work site, the toilets must be placed in accordance with OSHA requirements and serviced in accordance with industry standards.

The toilet unit must be set on a level, stable base material away from storm drains, waterways, and areas with high vehicular traffic. The portable toilet shall not be placed on the public road pavement, a public sidewalk, sewer manhole, catch basin or curb inlet.

Portable toilets shall be posted with proper signage to display the telephone number and contact information for the company responsible for cleaning, servicing or repair of the toilet units.

SKIMMER PLAN NOTES

1. At Sediment Basin #1 Outlet Structure, connect 6-inch skimmer header pipe to principal spillway structure at 906.0'.

2. When final stabilization is reached, skimmer is to be removed as sediment basin is removed.

LIMITS OF DISTURBANCE: 22.8 ACRES
PORTABLE TOILET FACILITIES MUST BE PROVIDED AND MAINTAINED IN A SAFE AND SANITARY MANNER IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS OR PERMIT CONDITIONS. WHEN PLACED AT A WORK SITE, THE TOILETS MUST BE PLACED IN ACCORDANCE WITH OSHA REQUIREMENTS AND SERVICED IN ACCORDANCE WITH INDUSTRY STANDARDS. THE TOILET UNIT MUST BE SET ON A LEVEL STABLE BASE MATERIAL AWAY FROM STORM DRAINS, WATERWAYS, AND AREAS WITH HIGH VEHICULAR TRAFFIC. THE PORTABLE TOILET SHALL NOT BE PLACED ON THE PUBLIC ROAD PAVEMENT, A PUBLIC SIDEWALK, SEWER MANHOLE, CATCH BASIN OR CURB INLET. PORTABLE TOILETS SHALL BE POSTED WITH PROPER SIGNAGE TO DISPLAY THE TELEPHONE NUMBER AND CONTACT INFORMATION FOR THE COMPANY RESPONSIBLE FOR CLEANING, SERVICING OR REPAIR OF THE TOILET UNITS.

SKIMMER PLAN NOTES

1. AT SEDIMENT BASIN #1 OUTLET STRUCTURE, CONNECT 6-INCH SKIMMER HEADER PIPE TO PRINCIPAL SPILLWAY STRUCTURE AT 906.0'.

2. WHEN FINAL STABILIZATION IS REACHED, SKIMMER IS TO BE REMOVED AS SEDIMENT BASIN IS REMOVED.

LIMITS OF DISTURBANCE: 22.8 ACRES
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LIMITS OF DISTURBANCE: 22.8 ACRES

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
**STORMWATER POLLUTION PREVENTION PLAN**

**SILT FENCE INSTALLATION**

**FLAT-BOTTOM TRENCH DETAIL**

**V-SHAPED TRENCH DETAIL**

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**PLAN SYMBOL**

- **DOUBLE ROW SILT FENCE**
- **GUTTER**
- **PIPE**
- **TOP VIEW**

**A A**

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**12.0 SQ. IN. WEEP HOLE**

**WEIGHTED OR NON-WEIGHTED INLET TUBE**

**SEDIMENT TUBE OR SILT FENCE (OPTIONAL)**

**PIPE**

**12.0 SQ. IN. MIN. OPENING FOR TEMPORARY DRAINAGE TO BE SEALED AND BACK FILLED PRIOR TO PLACING SURFACING**

**PAVEMENT STRUCTURE SUBGRADE GUTTER WIDTH**

**STANDARD POST FOR NON-WEIGHTED MATERIALS:**

- **USE INLET TUBES THAT EXHIBIT THE FOLLOWING PROPERTIES:**
  - PRODUCED BY A MANUFACTURER EXPERIENCED IN SEDIMENT TUBE MANUFACTURING.
  - COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBERS OR HARDWOOD MULCH OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL. DO NOT USE STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES OR LEAF MULCH UNDER THIS SPECIFICATION. UTILIZE AN OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIALS. CURLED WOOD EXCELSIOR FIBER, OR NATURAL COCONUT FIBER ROLLED EROSION CONTROL PRODUCTS (RECP) ROLLED UP TO CREATE AN INLET TUBE DEVICES ARE NOT ALLOWED UNDER THIS SPECIFICATION.

**WEIGHTED INLET TUBES:**

- **WEIGHTED INLET TUBES ARE SEDIMENT TUBES CAPABLE OF STAYING IN PLACE WITHOUT EXTERNAL STABILIZATION MEASURES AND MAY HAVE A WEIGHTED INNER CORE OR OTHER WEIGHTED MECHANISM TO KEEP THEM IN PLACE.**

**MATERIALS:**

- **APPLICABLE TYPE F WEIGHTED INLET TUBES MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST.**

**INSTALL WEIGHTED INLET TUBES LYING FLAT ON THE GROUND, WITH NO GAPS BETWEEN THE UNDERLYING SURFACE AND THE INLET TUBE. NEVER STACK WEIGHTED INLET TUBES ON TOP OF ONE ANOTHER. DO NOT COMPLETELY BLOCK INLETS WITH WEIGHTED INLET TUBES. INSTALL WEIGHTED INLET TUBES IN SUCH A MANNER THAT ALL OVERFLOW OR OVERTOPPING WATER HAS THE ABILITY TO ENTER THE INLET UNOBSTRUCTED. TO AVOID POSSIBLE FLOODING, TWO OR THREE CONCRETE CINDER BLOCKS MAY BE PLACED BETWEEN THE WEIGHTED INLET TUBES AND THE INLET.**

**NON-WEIGHTED INLET TUBES**

- **NON-WEIGHTED INLET TUBES ARE DEFINED AS SEDIMENT TUBES THAT REQUIRE STAKING OR OTHER STABILIZATION METHODS TO KEEP THEM SAFELY IN PLACE.**

**MATERIALS:**

- **APPLICABLE TYPE F NON-WEIGHTED INLET TUBES MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST.**

**INSPECTION AND MAINTENANCE:**

- **INLET TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION AS NEEDED. REPLACE INLET TUBES DAMAGED DURING INSTALLATION AS DIRECTED BY THE ENGINEER OR MANUFACTURER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.**

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**WIRE MESH**

**RUNOFF WATER WITH SEDIMENT**

**SEDIMENT DROP INLET WITH GRATE**

**OVERFLOW**

**CONCRETE BLOCK**

**1/2-INCH x 1/2-INCH WIRE MESH**

**1-INCH DIAMETER D50 WASHED STONE**

**CONCRETE BLOCK**

**8-INCH OR 12-INCH**

**WIRE MESH SHOULD BE PLACED OVER THE OUTSIDE VERTICAL FACE OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½-INCH X ½-INCH OPENINGS SHOULD BE USED.**

**INSPECTION AND MAINTENANCE:**

- **SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE BLOCKS. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED. SINCE CLEANING OF GRAVEL AT A CONSTRUCTION SITE MAY BE DIFFICULT, AN ALTERNATIVE APPROACH WOULD BE TO USE THE CLOGGED STONE AS FILL AND PUT FRESH STONE AROUND THE INLET.**

**STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.**