

NOTE: THIS IS AN EXAMPLE SET OF EROSION AND SEDIMENT CONTROL POLLUTION PREVENTION PLANS AND SHOULD BE USED FOR REFERENCE ONLY. EACH CONSTRUCTION SITE WILL HAVE CHARACTERISTICS REQUIRING SITE SPECIFIC EROSION AND SEDIMENT CONTROL SYSTEMS. THE DESIGN PROFESSIONAL SHALL DESIGN (AS A MINIMUM) THE SITE TO ADHERE TO:

- GESA (STATE)
- GENERAL PERMIT (STATE)
- LOCAL DRAINAGE ORDINANCES
- FEDERAL CLEAN WATER ACT (FEDERAL)

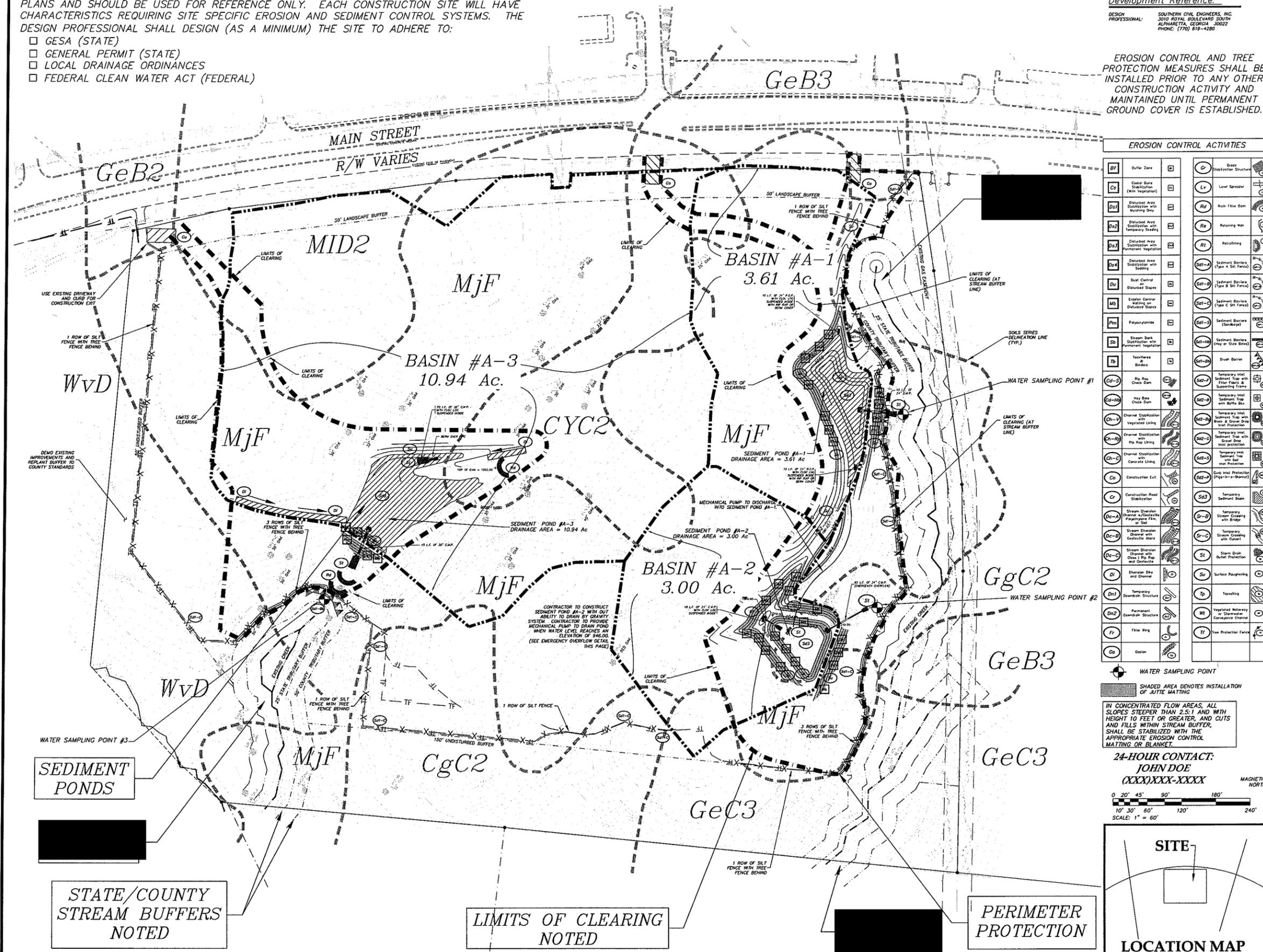
Development Reference:

DESIGN PROFESSIONAL: SOUTHERN CIVIL ENGINEERS, INC.
3010 ROYAL BLVD. SUITE 100
ALPHARETTA, GEORGIA 30022
PHONE: (770) 619-4280

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.



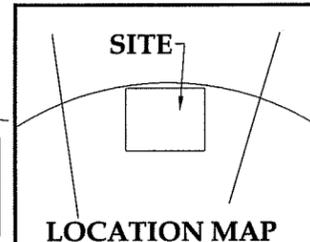
Date	Revisions	Description



EROSION CONTROL ACTIVITIES	
Bf	Buffer Zone
Cs	Clear Site Stabilization (With Vegetation)
Dst	Disturbed Area Stabilization with Temporary Seeding
Dst	Disturbed Area Stabilization with Permanent Vegetation
Dst	Disturbed Area Stabilization with Seeding
Dv	Dust Control Disturbed Slopes
Ed	Erosion Control Matting on Disturbed Slopes
Em	Polystyrene
Sb	Stream Bank Stabilization with Permanent Vegetation
Tb	Tackifiers & Binders
Co-1	Rip Rap Check Dam
Co-2	Hay Bale Check Dam
Co-3	Channel Stabilization with Vegetated Linking
Co-4	Channel Stabilization with Rip Rap Linking
Co-5	Channel Stabilization with Concrete Linking
Co	Construction Exit
Cr	Construction Road Stabilization
Co-6	Stream Diversion Channel with Geotextile Filter Fabric
Co-7	Stream Diversion Channel with Geotextile Filter Fabric and Gabion
Co-8	Stream Diversion Channel with Gabion
Co-9	Stream Diversion Channel with Gabion and Rip Rap
Di	Diversion Dike and Channel
Dst	Temporary Diversion Structure
Dst	Permanent Diversion Structure
Fr	Filter Ring
Op	Option
Gr	Gravel Stabilization Structure
Lv	Level Spreader
Ru	Run Filter Dam
Ru	Retaining Wall
Ri	Reinforcing
Sst-1	Sediment Basins (Type A Silt Fence)
Sst-2	Sediment Basins (Type B Silt Fence)
Sst-3	Sediment Basins (Type C Silt Fence)
Sst-4	Sediment Basins (Sandbags)
Sst-5	Sediment Basins (Log & Stone Bank)
Sst-6	Diapir Barrier
Sst-7	Temporary Inlet Sediment Trap with Filter Fabric & Supporting Frame
Sst-8	Temporary Inlet Sediment Trap with Baffle Box
Sst-9	Temporary Inlet Sediment Trap with Stone & Gabion Inlet Protection
Sst-10	Temporary Inlet Sediment Trap with Gabion Inlet Protection
Sst-11	Gulp Inlet Protection (Pipe-in-a-Bore)
Sst-12	Temporary Sediment Basin
Sst-13	Temporary Stream Crossing with Bridge
Sst-14	Temporary Stream Crossing with Culvert
Sst-15	Stream Bank Outlet Protection
Su	Surface Roughening
Tp	Tackling
Vw	Vegetated Waterway or Streamway Conversion Channel
Tf	Tree Protection Fence

WATER SAMPLING POINT
SHADED AREA DENOTES INSTALLATION OF JUTE MATTING
IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH HEIGHT 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.

24-HOUR CONTACT:
JOHN DOE
(XXX)XXX-XXXX
MAGNETIC NORTH
0 20' 45' 90' 180'
10' 30' 60' 120' 240'
SCALE: 1" = 60'

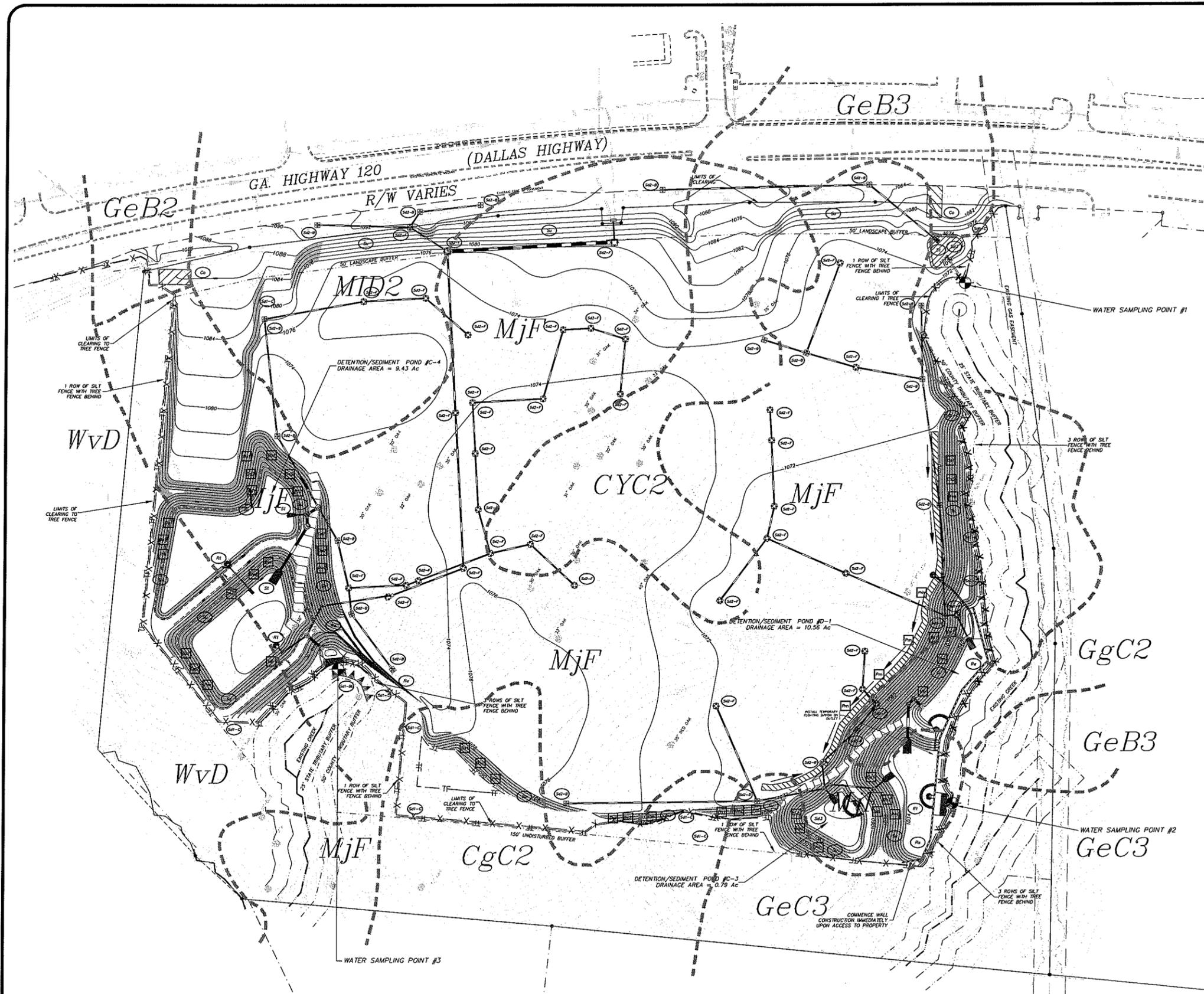


DESIGN PROFESSIONAL

CERTIFICATION

SHOPPING CENTER

Drawn SCE Designer SCE Date 2007
Sheet Title ES & PC PHASE I
Drawing Number C-4a.1



Development Reference:
 DESIGN PROFESSIONAL: SOUTHERN CIVIL ENGINEERS, INC.
 3010 ROYAL BOULEVARD SOUTH
 ALPHARETTA, GEORGIA 30022
 PHONE: (770) 619-4280

EROSION CONTROL ACTIVITIES	
BT	Buffer Zone
CS	Check Dam Stabilization (with vegetation)
DS1	Disturbed Area Stabilization with Working Dry
DS2	Disturbed Area Stabilization with Temporary Seeding
DS3	Disturbed Area Stabilization with Permanent Vegetation
DS4	Disturbed Area Stabilization with Sodding
DS5	Dust Control on Disturbed Slopes
DS6	Erosion Control Matting on Disturbed Slopes
DS7	Geotextile
DS8	Geotextile with Vegetation
DS9	Geotextile with Rip Rap Lining
DS10	Geotextile with Concrete Lining
DS11	Construction Exit
DS12	Construction Road Stabilization
DS13	Stream Channel Channel with Geotextile Rip Rap Lining
DS14	Stream Channel Channel with Geotextile Rip Rap Lining
DS15	Stream Channel Channel with Geotextile Rip Rap Lining
DS16	Stream Channel Channel with Geotextile Rip Rap Lining
DS17	Stream Channel Channel with Geotextile Rip Rap Lining
DS18	Stream Channel Channel with Geotextile Rip Rap Lining
DS19	Stream Channel Channel with Geotextile Rip Rap Lining
DS20	Stream Channel Channel with Geotextile Rip Rap Lining
DS21	Stream Channel Channel with Geotextile Rip Rap Lining
DS22	Stream Channel Channel with Geotextile Rip Rap Lining
DS23	Stream Channel Channel with Geotextile Rip Rap Lining
DS24	Stream Channel Channel with Geotextile Rip Rap Lining
DS25	Stream Channel Channel with Geotextile Rip Rap Lining
DS26	Stream Channel Channel with Geotextile Rip Rap Lining
DS27	Stream Channel Channel with Geotextile Rip Rap Lining
DS28	Stream Channel Channel with Geotextile Rip Rap Lining
DS29	Stream Channel Channel with Geotextile Rip Rap Lining
DS30	Stream Channel Channel with Geotextile Rip Rap Lining
DS31	Stream Channel Channel with Geotextile Rip Rap Lining
DS32	Stream Channel Channel with Geotextile Rip Rap Lining
DS33	Stream Channel Channel with Geotextile Rip Rap Lining
DS34	Stream Channel Channel with Geotextile Rip Rap Lining
DS35	Stream Channel Channel with Geotextile Rip Rap Lining
DS36	Stream Channel Channel with Geotextile Rip Rap Lining
DS37	Stream Channel Channel with Geotextile Rip Rap Lining
DS38	Stream Channel Channel with Geotextile Rip Rap Lining
DS39	Stream Channel Channel with Geotextile Rip Rap Lining
DS40	Stream Channel Channel with Geotextile Rip Rap Lining
DS41	Stream Channel Channel with Geotextile Rip Rap Lining
DS42	Stream Channel Channel with Geotextile Rip Rap Lining
DS43	Stream Channel Channel with Geotextile Rip Rap Lining
DS44	Stream Channel Channel with Geotextile Rip Rap Lining
DS45	Stream Channel Channel with Geotextile Rip Rap Lining
DS46	Stream Channel Channel with Geotextile Rip Rap Lining
DS47	Stream Channel Channel with Geotextile Rip Rap Lining
DS48	Stream Channel Channel with Geotextile Rip Rap Lining
DS49	Stream Channel Channel with Geotextile Rip Rap Lining
DS50	Stream Channel Channel with Geotextile Rip Rap Lining
DS51	Stream Channel Channel with Geotextile Rip Rap Lining
DS52	Stream Channel Channel with Geotextile Rip Rap Lining
DS53	Stream Channel Channel with Geotextile Rip Rap Lining
DS54	Stream Channel Channel with Geotextile Rip Rap Lining
DS55	Stream Channel Channel with Geotextile Rip Rap Lining
DS56	Stream Channel Channel with Geotextile Rip Rap Lining
DS57	Stream Channel Channel with Geotextile Rip Rap Lining
DS58	Stream Channel Channel with Geotextile Rip Rap Lining
DS59	Stream Channel Channel with Geotextile Rip Rap Lining
DS60	Stream Channel Channel with Geotextile Rip Rap Lining
DS61	Stream Channel Channel with Geotextile Rip Rap Lining
DS62	Stream Channel Channel with Geotextile Rip Rap Lining
DS63	Stream Channel Channel with Geotextile Rip Rap Lining
DS64	Stream Channel Channel with Geotextile Rip Rap Lining
DS65	Stream Channel Channel with Geotextile Rip Rap Lining
DS66	Stream Channel Channel with Geotextile Rip Rap Lining
DS67	Stream Channel Channel with Geotextile Rip Rap Lining
DS68	Stream Channel Channel with Geotextile Rip Rap Lining
DS69	Stream Channel Channel with Geotextile Rip Rap Lining
DS70	Stream Channel Channel with Geotextile Rip Rap Lining
DS71	Stream Channel Channel with Geotextile Rip Rap Lining
DS72	Stream Channel Channel with Geotextile Rip Rap Lining
DS73	Stream Channel Channel with Geotextile Rip Rap Lining
DS74	Stream Channel Channel with Geotextile Rip Rap Lining
DS75	Stream Channel Channel with Geotextile Rip Rap Lining
DS76	Stream Channel Channel with Geotextile Rip Rap Lining
DS77	Stream Channel Channel with Geotextile Rip Rap Lining
DS78	Stream Channel Channel with Geotextile Rip Rap Lining
DS79	Stream Channel Channel with Geotextile Rip Rap Lining
DS80	Stream Channel Channel with Geotextile Rip Rap Lining
DS81	Stream Channel Channel with Geotextile Rip Rap Lining
DS82	Stream Channel Channel with Geotextile Rip Rap Lining
DS83	Stream Channel Channel with Geotextile Rip Rap Lining
DS84	Stream Channel Channel with Geotextile Rip Rap Lining
DS85	Stream Channel Channel with Geotextile Rip Rap Lining
DS86	Stream Channel Channel with Geotextile Rip Rap Lining
DS87	Stream Channel Channel with Geotextile Rip Rap Lining
DS88	Stream Channel Channel with Geotextile Rip Rap Lining
DS89	Stream Channel Channel with Geotextile Rip Rap Lining
DS90	Stream Channel Channel with Geotextile Rip Rap Lining
DS91	Stream Channel Channel with Geotextile Rip Rap Lining
DS92	Stream Channel Channel with Geotextile Rip Rap Lining
DS93	Stream Channel Channel with Geotextile Rip Rap Lining
DS94	Stream Channel Channel with Geotextile Rip Rap Lining
DS95	Stream Channel Channel with Geotextile Rip Rap Lining
DS96	Stream Channel Channel with Geotextile Rip Rap Lining
DS97	Stream Channel Channel with Geotextile Rip Rap Lining
DS98	Stream Channel Channel with Geotextile Rip Rap Lining
DS99	Stream Channel Channel with Geotextile Rip Rap Lining
DS100	Stream Channel Channel with Geotextile Rip Rap Lining

SHADED AREA DENOTES INSTALLATION OF JUTE MATTING

IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH HEIGHT 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.

24-HOUR CONTACT:
 JOHN DOE
 (XXX)XXX-XXXX

0 20' 45' 90' 180'
 10' 30' 60' 120' 240'
 SCALE: 1" = 60'

SHADED AREAS SHOWN ON PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.



3010 Royal Blvd. South
 Suite 100
 Alpharetta, GA 30022
 (770) 619-4280
 www.sce-atlanta.com



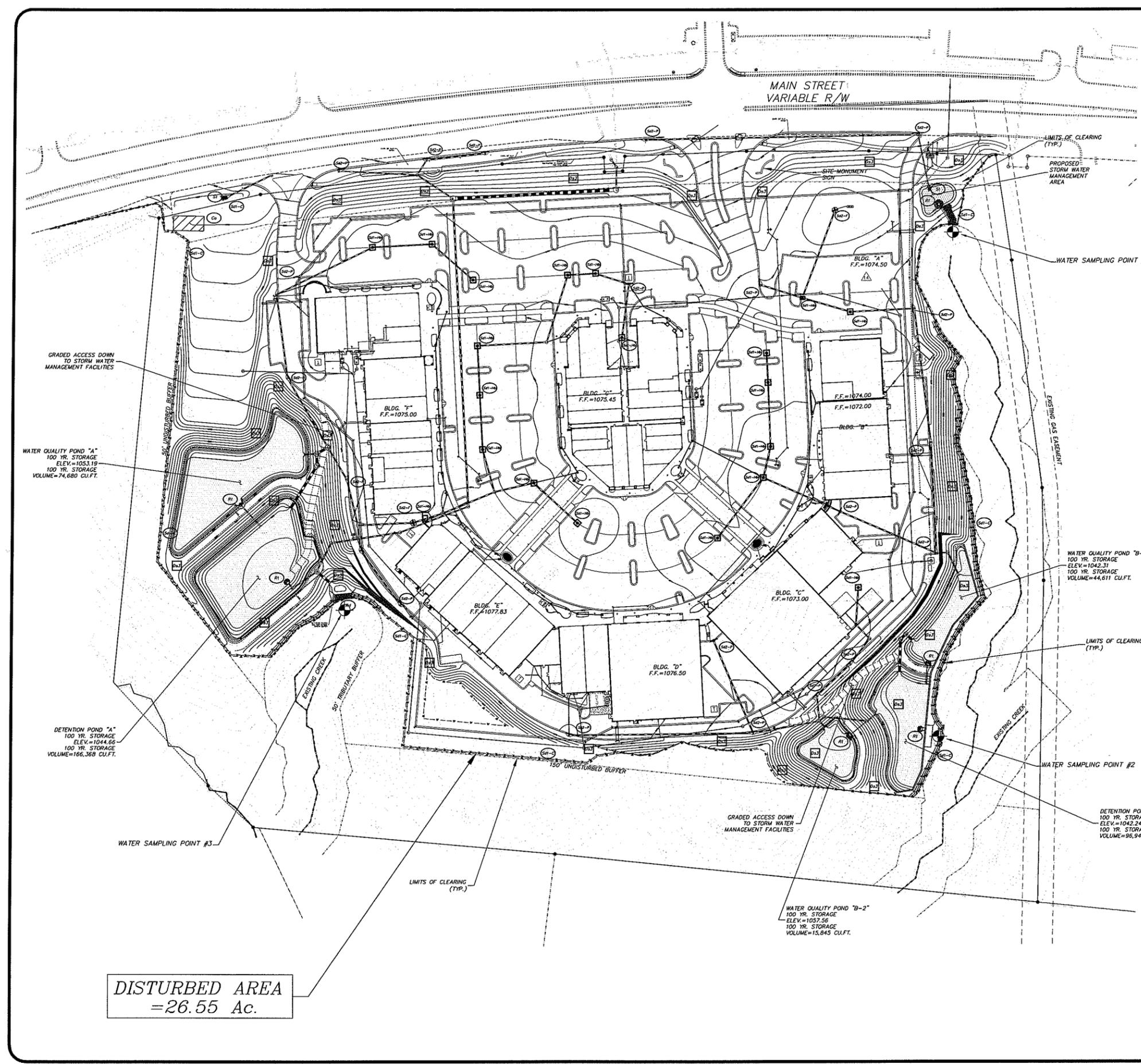
CERTIFICATION

SHOPPING CENTER

Drawn: SCE
 Designer: SCE
 Date: 7/20/05

Sheet Title
 ES & PC
 PLAN
 GRADING
 PHASE II

Drawing Number
 C-4b.2



DISTURBED AREA
= 26.55 Ac.

Development Reference:

DESIGN PROFESSIONAL: SOUTHERN CIVIL ENGINEERS, INC.
3010 ROYAL BOULEVARD SOUTH
ALPHARETTA, GEORGIA 30022
PHONE: (770) 619-4280

SCE
SOUTHERN CIVIL ENGINEERS
3010 Royal Blvd. South
Suite 100
Alpharetta, GA 30022
(770) 619-4280
www.sce-atlanta.com

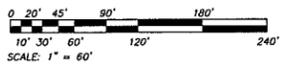
Date	Revisions	Description

EROSION CONTROL ACTIVITIES			
B1	Buffer Zone	Cr	Grass Stabilization Structure
C1	Costal Dune Stabilization (With Vegetation)	Lv	Level Spreader
D1	Disturbed Area Stabilization with Mulching Only	Rd	Rock Filter Dam
D2	Disturbed Area Stabilization with Temporary Seeding	Rp	Retaining Wall
D3	Disturbed Area Stabilization with Permanent Vegetation	Rt	Retracting
D4	Disturbed Area Stabilization with Seeding	Sd1	Sediment Basins (Type A Silt Fence)
D5	Dust Control on Disturbed Slopes	Sd2	Sediment Basins (Type B Silt Fence)
E1	Erosion Control Matting on Disturbed Slopes	Sd3	Sediment Basins (Type C Silt Fence)
F1	Parapet/Berms	Sd4	Sediment Basins (Sloped)
G1	Stream Bank Stabilization with Permanent Vegetation	Sd5	Sediment Basins (Type D Silt Fence)
H1	Tackifiers/Binders	Sd6	Sediment Basins (Type E Silt Fence)
I1	Rip Rap Check Dam	Sd7	Sediment Basins (Type F Silt Fence)
J1	Hay Bale Check Dam	Sd8	Sediment Basins (Type G Silt Fence)
K1	Channel Stabilization with Vegetated Living	Sd9	Temporary Inlet Sediment Trap with Filter Fabric & Seeding Layer
L1	Channel Stabilization with Rip Rap Lining	Sd10	Temporary Inlet Sediment Trap with Seeding Layer
M1	Channel Stabilization with Concrete Lining	Sd11	Temporary Inlet Sediment Trap with Seeding Layer
N1	Construction Exit	Sd12	Temporary Inlet Sediment Trap with Seeding Layer
O1	Construction Road Stabilization	Sd13	Temporary Inlet Sediment Trap with Seeding Layer
P1	Stream Discharge Channel with Geotextile Filter Fabric or Soil	Sd14	Temporary Sediment Basin
Q1	Stream Discharge Channel with Geotextile Alone	Sd15	Temporary Stream Crossing with Bridge
R1	Stream Discharge Channel with Class 1 Rip Rap and Geotextile	Sd16	Temporary Stream Crossing with Culvert
S1	Overhead Dike and Channel	Sd17	Stream Drain Outlet Protection
T1	Temporary Dewatering Structure	Sd18	Surface Roughening
U1	Permanent Dewatering Structure	Sd19	Tapping
V1	Filter Ring	Sd20	Vegetated Walkway or Streambank Coverance Closure
W1	Gabion	Sd21	Tree Protection Fence

A PROFESSIONAL DESIGNER MUST VERIFY THAT THE TREE PROTECTION FENCES WERE INSTALLED AS SHOWN ON THE APPROVED PLANS OR IN LOCATIONS THAT PROVIDE BETTER TREE PRESERVATION POTENTIAL.

WATER SAMPLING POINT

24-HOUR CONTACT:
JOHN DOE
(XXX) XXX-XXXX



DESIGN PROFESSIONAL

CERTIFICATION

SHOPPING CENTER

Drawn SCE Designer SCE Date 2007

Sheet Title
ES & PC
PLAN FINAL
PHASE

Drawing Number

C-4c

Dust Control on Disturbed Areas



DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and driveway sites.

PURPOSE
To prevent surface and air movement of dust from exposed soil surfaces.

METHOD AND MATERIALS

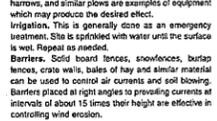
- A. TEMPORARY METHODS
Mulches. See standard Dd1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material.

GAOICC (Revised - 2006) 6-01

DUST CONTROL ON DISTURBED AREAS
GEORGIA SOIL & WATER COMMISSION DETAIL



Disturbed Area Stabilization (With Permanent Vegetation)



DEFINITION
The planting of permanent vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas to stabilize permanent stabilization. Permanent vegetation is intended to be permanent.

PURPOSE
To provide a permanent vegetative cover on exposed areas to stabilize permanent stabilization.

REQUIREMENT FOR REGULATORY COMPLIANCE

- 1. The planting of permanent vegetation shall be done in accordance with the following:
a. The planting of permanent vegetation shall be done in accordance with the following:
b. The planting of permanent vegetation shall be done in accordance with the following:

GAOICC (Revised - 2006) 6-01

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
GEORGIA SOIL & WATER COMMISSION DETAIL



Disturbed Area Stabilization (With Mulching Only)



DEFINITION
Applying plant residues or other suitable materials, products on the soil surface to stabilize exposed areas.

PURPOSE
To stabilize exposed areas with mulch.

REQUIREMENT FOR REGULATORY COMPLIANCE

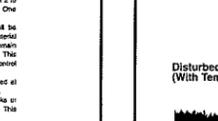
- 1. Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance.
2. The mulch shall be applied to a depth of 2 to 4 inches providing complete soil coverage.

GAOICC (Revised - 2006) 6-01

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
GEORGIA SOIL & WATER COMMISSION DETAIL



Disturbed Area Stabilization (With Temporary Seeding)



DEFINITION
The establishment of temporary vegetation cover on exposed areas to stabilize exposed areas.

PURPOSE
To stabilize exposed areas with temporary vegetation.

REQUIREMENT FOR REGULATORY COMPLIANCE

- 1. Temporary vegetation shall be applied to all exposed areas within 14 days of disturbance.
2. The temporary vegetation shall be applied to a depth of 2 to 4 inches providing complete soil coverage.

GAOICC (Revised - 2006) 6-01

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
GEORGIA SOIL & WATER COMMISSION DETAIL



Disturbed Area Stabilization (With Permanent Vegetation)

DEFINITION
The planting of permanent vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas to stabilize permanent stabilization.

PURPOSE
To provide a permanent vegetative cover on exposed areas to stabilize permanent stabilization.

REQUIREMENT FOR REGULATORY COMPLIANCE

- 1. The planting of permanent vegetation shall be done in accordance with the following:
a. The planting of permanent vegetation shall be done in accordance with the following:
b. The planting of permanent vegetation shall be done in accordance with the following:

GAOICC (Revised - 2006) 6-01

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
GEORGIA SOIL & WATER COMMISSION DETAIL



Disturbed Area Stabilization (With Mulching Only)

DEFINITION
Applying plant residues or other suitable materials, products on the soil surface to stabilize exposed areas.

PURPOSE
To stabilize exposed areas with mulch.

REQUIREMENT FOR REGULATORY COMPLIANCE

- 1. Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance.
2. The mulch shall be applied to a depth of 2 to 4 inches providing complete soil coverage.

GAOICC (Revised - 2006) 6-01

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
GEORGIA SOIL & WATER COMMISSION DETAIL



Disturbed Area Stabilization (With Temporary Seeding)

DEFINITION
The establishment of temporary vegetation cover on exposed areas to stabilize exposed areas.

PURPOSE
To stabilize exposed areas with temporary vegetation.

REQUIREMENT FOR REGULATORY COMPLIANCE

- 1. Temporary vegetation shall be applied to all exposed areas within 14 days of disturbance.
2. The temporary vegetation shall be applied to a depth of 2 to 4 inches providing complete soil coverage.

GAOICC (Revised - 2006) 6-01

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
GEORGIA SOIL & WATER COMMISSION DETAIL



PLANT PLANNING TABLE AND PLANTING SCHEDULE FOR PERMANENT COVER

Table with columns for Species, Quantity, and Planting Schedule.

PLANT PLANNING TABLE AND PLANTING SCHEDULE FOR PERMANENT COVER

Table with columns for Species, Quantity, and Planting Schedule.

PLANT PLANNING TABLE AND PLANTING SCHEDULE FOR PERMANENT COVER

Table with columns for Species, Quantity, and Planting Schedule.

PLANT PLANNING TABLE AND PLANTING SCHEDULE FOR PERMANENT COVER

Table with columns for Species, Quantity, and Planting Schedule.

PLANT PLANNING TABLE AND PLANTING SCHEDULE FOR PERMANENT COVER

Table with columns for Species, Quantity, and Planting Schedule.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
GEORGIA SOIL & WATER COMMISSION DETAIL



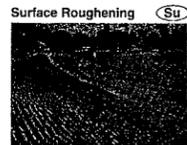
DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
GEORGIA SOIL & WATER COMMISSION DETAIL



DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
GEORGIA SOIL & WATER COMMISSION DETAIL



Shopping Center logo and contact information for SCE Southern Civil Engineers.



Surface Roughening (Su)

DEFINITION
Providing a rough soil surface with horizontal depressions created by contouring a slope or other suitable implement on the contour, or by leaving slopes in a roughened condition by not re-grading them.

PURPOSE
The purpose of surface roughening is to add in establishment of vegetative cover with trees, to reduce runoff velocity and increase infiltration and to reduce erosion and provide for sediment trapping.

CONDITIONS
All slopes steeper than 3:1 require surface roughening, either contour grading, grooving, furrowing, or tracking. If they are to be stabilized with vegetation, however, the slope is to be stabilized with erosion control blankets or soil stabilization matting. The soil surface is severely compacted and runoff is increased.

DESIGN CRITERIA
Graded areas with smooth, hard surfaces give a false impression of "finished grading" and a false sense of security. It is difficult to establish vegetation on such surfaces.

due to reduced water infiltration and the potential for erosion. Rough surfaces with uneven soil and rocks left in place may appear unattractive or uninviting at first, but encourage water infiltration, speed the establishment of vegetation, and decrease runoff velocity. Rough, loose soil surfaces give time, fertilizer and seed some natural coverage. Areas to be surface roughened must be prepared in advance. There are different methods of achieving a roughened soil surface on a slope, and the selection of an appropriate method depends upon the type of slope. Roughening methods include stair-step grading, grooving, and tracking. Future to be considered in choosing a method are slope steepness, mowing requirements, and whether the slope is formed by cutting or filling.

1. Disturbed areas which will not require mowing require stair-step grading, grooving, or tracking rough filling.
2. Stair-step grading is particularly appropriate in soils containing large amounts of soil rock. Each "step" catches material which erodes from above, and provides a level site where vegetation can become established.
3. Areas which will be mowed (these areas should have slopes less steep than 3:1) may have small furrows left by disking, harrowing, raking, or seed planting machinery operated on the contour.
4. It is important to avoid excessive compacting of the soil surface when staking. Tracking with rubber tracks is preferable to roughing with all-terrain vehicles as effective as other forms of roughening, as the soil surface is severely compacted and runoff is increased.

CONSTRUCTION SPECIFICATIONS
Cut Slopes Steeper than 3:1
Cut slopes with a gradient steeper than 3:1 should not be mowed. They shall be stair-step graded or grooved (see Figure 6-25.1).

When tracking is the chosen surface roughening technique, it shall be done by operating tracked machinery up and down the slope to leave horizontal depressions in the soil. As few passes of the machinery as possible should be made to minimize compaction.
Seeding
Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and seeding growth. Refer to specifications for Seeding, Permanent Vegetation, and Sodding, respectively.
Water, Soil, and Fertilizer
Water, soil, and fertilizer are held by steps - ditches can become established on the steps.

1. Groove spacing to #2 of "Cut Slopes Steeper than 3:1".
2. A 1/2" of the fill area constructed, soil and rock material may be allowed to fall naturally onto the slope surface (see Figure 6-25.1).
3. Collected material (soil deposits at the base of slopes or from stream beds) shall not be used in fill areas they flow into.

DESIGN CRITERIA
Graded areas with smooth, hard surfaces give a false impression of "finished grading" and a false sense of security. It is difficult to establish vegetation on such surfaces.

When tracking is the chosen surface roughening technique, it shall be done by operating tracked machinery up and down the slope to leave horizontal depressions in the soil. As few passes of the machinery as possible should be made to minimize compaction.
Seeding
Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and seeding growth. Refer to specifications for Seeding, Permanent Vegetation, and Sodding, respectively.
Water, Soil, and Fertilizer
Water, soil, and fertilizer are held by steps - ditches can become established on the steps.

1. Groove spacing to #2 of "Cut Slopes Steeper than 3:1".
2. A 1/2" of the fill area constructed, soil and rock material may be allowed to fall naturally onto the slope surface (see Figure 6-25.1).
3. Collected material (soil deposits at the base of slopes or from stream beds) shall not be used in fill areas they flow into.

DESIGN CRITERIA
Graded areas with smooth, hard surfaces give a false impression of "finished grading" and a false sense of security. It is difficult to establish vegetation on such surfaces.

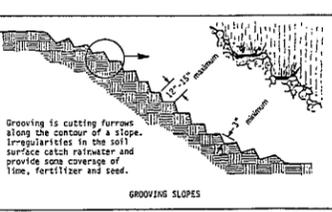
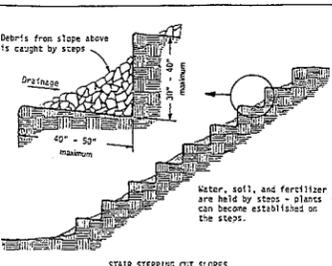


Figure 6-25.1
Figure 6-25.2

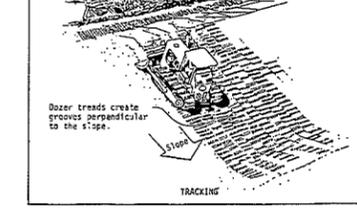
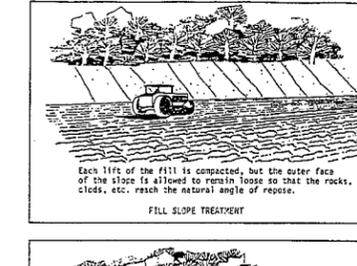


Figure 6-25.3
Figure 6-25.4

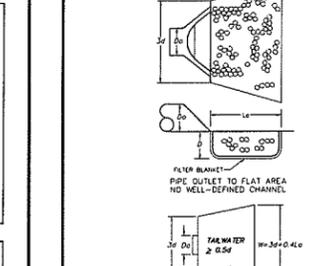


Figure 6-25.5

6-187 6-188 6-189

SURFACE ROUGHENING

GEORGIA SOIL & WATER COMMISSION DETAIL



6-187 6-188 6-189

SURFACE ROUGHENING

GEORGIA SOIL & WATER COMMISSION DETAIL



6-187 6-188 6-189

SURFACE ROUGHENING

GEORGIA SOIL & WATER COMMISSION DETAIL



6-187 6-188 6-189

SURFACE ROUGHENING

GEORGIA SOIL & WATER COMMISSION DETAIL



6-187 6-188 6-189

SURFACE ROUGHENING

GEORGIA SOIL & WATER COMMISSION DETAIL



6-187 6-188 6-189

SURFACE ROUGHENING

GEORGIA SOIL & WATER COMMISSION DETAIL



Erosion Control Matting and Blankets (Mb)



DEFINITION
A protective covering (blanket) or soil stabilization mat used to establish permanent vegetation on steep slopes, channels, or channels.

PURPOSE
Benefits of using erosion control matting include the following:
1. Protection of the seed and soil from rindling, impact and subsequent displacement.
2. Thermal consistency and moisture retention for seedlings.
3. Stronger and faster germination of grasses and legumes.
4. Protection of exposed streamer runoff.
5. Prevention of sloughing of topsoil under to steeper slopes.

CONDITIONS
Matting and blankets can be applied on steep slopes where erosion hazard is high and planting is likely to be too slow in providing adequate protective cover. Commercial fiber mats are available in widths up to 10 feet and lengths up to 100 feet. Permanent Erosion Control Matting
Consists of a permanent non-degradable, three-dimensional plastic matting which can be used on slopes up to 10:1. The matting is made of a plastic mesh with a woven fabric on top. The matting is made of a plastic mesh with a woven fabric on top. The matting is made of a plastic mesh with a woven fabric on top.

DESIGN CRITERIA
Care must be taken to ensure the type of matting or matting which is most appropriate for the specific needs of a project. The general types of blankets and mats are discussed within this specification. Due to

the abundance of erosion control matting and blanket products available, all of the advantages, disadvantages, and specifications of all manufactured products will not be discussed in this manual. Manufacturer's instructions and recommendations, as well as a site visit by designer and plan reviewer is highly recommended.
Temporary Erosion Control Blankets
This includes temporary "biodegradable" blankets (which erode over time) and blankets (which are made of natural organic or man-made materials, or a mix of both which is highly homogeneous in design and can act as a soil stabilization blanket).
Temporary blankets are a minimum mesh size of 1/2 inch to 1/4 inch and a maximum mesh size of 1/2 inch to 1/4 inch. The mesh size shall be 1/2 inch to 1/4 inch. The mesh size shall be 1/2 inch to 1/4 inch. The mesh size shall be 1/2 inch to 1/4 inch.

Permanent Erosion Control Blankets
Consists of a permanent non-degradable, three-dimensional plastic matting which can be used on slopes up to 10:1. The matting is made of a plastic mesh with a woven fabric on top. The matting is made of a plastic mesh with a woven fabric on top. The matting is made of a plastic mesh with a woven fabric on top.

DESIGN CRITERIA
Care must be taken to ensure the type of matting or matting which is most appropriate for the specific needs of a project. The general types of blankets and mats are discussed within this specification. Due to

1. Canvas soil to strip out of streamer and 1/2 inch mesh with fine sand which become the growth medium for the development of roots.
2. Acts with the vegetative root system to form an erosion resistant cover which traps, traps, and traps sharp forces when embedded in the soil wet streamer channel.
Materials
All blanket and matting materials shall be on the Georgia Department of Transportation Qualified Products List (QPL) or its equivalent. QPL # 10 for matting.
All blankets shall be woven to vegetation and to the germination of seed and shall not be heavier than 5 lbs per square yard. A minimum of 1/2 inch mesh size shall be used for the matting and the matting manufacturer to maintain strength and provide for ease of handling.
Temporary Blankets
Machine produced temporary erosion control blankets shall have a maximum thickness with the woven fabric on top of 1/2 inch. All blankets shall have a minimum weight of 48 ounces per square yard. Machine produced erosion control blankets include the following:
a. Straw blankets
b. Paper blankets
c. Polypropylene blankets
d. Polyethylene blankets
e. Polypropylene blankets
f. Polyethylene blankets
g. Polypropylene blankets
h. Polyethylene blankets
i. Polypropylene blankets
j. Polyethylene blankets
k. Polypropylene blankets
l. Polyethylene blankets
m. Polypropylene blankets
n. Polyethylene blankets
o. Polypropylene blankets
p. Polyethylene blankets
q. Polypropylene blankets
r. Polyethylene blankets
s. Polypropylene blankets
t. Polyethylene blankets
u. Polypropylene blankets
v. Polyethylene blankets
w. Polypropylene blankets
x. Polyethylene blankets
y. Polypropylene blankets
z. Polyethylene blankets
aa. Polypropylene blankets
ab. Polyethylene blankets
ac. Polypropylene blankets
ad. Polyethylene blankets
ae. Polypropylene blankets
af. Polyethylene blankets
ag. Polypropylene blankets
ah. Polyethylene blankets
ai. Polypropylene blankets
aj. Polyethylene blankets
ak. Polypropylene blankets
al. Polyethylene blankets
am. Polypropylene blankets
an. Polyethylene blankets
ao. Polypropylene blankets
ap. Polyethylene blankets
aq. Polypropylene blankets
ar. Polyethylene blankets
as. Polypropylene blankets
at. Polyethylene blankets
au. Polypropylene blankets
av. Polyethylene blankets
aw. Polypropylene blankets
ax. Polyethylene blankets
ay. Polypropylene blankets
az. Polyethylene blankets
ba. Polypropylene blankets
bb. Polyethylene blankets
bc. Polypropylene blankets
bd. Polyethylene blankets
be. Polypropylene blankets
bf. Polyethylene blankets
bg. Polypropylene blankets
bh. Polyethylene blankets
bi. Polypropylene blankets
bj. Polyethylene blankets
bk. Polypropylene blankets
bl. Polyethylene blankets
bm. Polypropylene blankets
bn. Polyethylene blankets
bo. Polypropylene blankets
bp. Polyethylene blankets
bq. Polypropylene blankets
br. Polyethylene blankets
bs. Polypropylene blankets
bt. Polyethylene blankets
bu. Polypropylene blankets
bv. Polyethylene blankets
bw. Polypropylene blankets
bx. Polyethylene blankets
by. Polypropylene blankets
bz. Polyethylene blankets
ca. Polypropylene blankets
cb. Polyethylene blankets
cc. Polypropylene blankets
cd. Polyethylene blankets
ce. Polypropylene blankets
cf. Polyethylene blankets
cg. Polypropylene blankets
ch. Polyethylene blankets
ci. Polypropylene blankets
cj. Polyethylene blankets
ck. Polypropylene blankets
cl. Polyethylene blankets
cm. Polypropylene blankets
cn. Polyethylene blankets
co. Polypropylene blankets
cp. Polyethylene blankets
cq. Polypropylene blankets
cr. Polyethylene blankets
cs. Polypropylene blankets
ct. Polyethylene blankets
cu. Polypropylene blankets
cv. Polyethylene blankets
cw. Polypropylene blankets
cx. Polyethylene blankets
cy. Polypropylene blankets
cz. Polyethylene blankets
da. Polypropylene blankets
db. Polyethylene blankets
dc. Polypropylene blankets
dd. Polyethylene blankets
de. Polypropylene blankets
df. Polyethylene blankets
dg. Polypropylene blankets
dh. Polyethylene blankets
di. Polypropylene blankets
dj. Polyethylene blankets
dk. Polypropylene blankets
dl. Polyethylene blankets
dm. Polypropylene blankets
dn. Polyethylene blankets
do. Polypropylene blankets
dp. Polyethylene blankets
dq. Polypropylene blankets
dr. Polyethylene blankets
ds. Polypropylene blankets
dt. Polyethylene blankets
du. Polypropylene blankets
dv. Polyethylene blankets
dw. Polypropylene blankets
dx. Polyethylene blankets
dy. Polypropylene blankets
dz. Polyethylene blankets
ea. Polypropylene blankets
eb. Polyethylene blankets
ec. Polypropylene blankets
ed. Polyethylene blankets
ee. Polypropylene blankets
ef. Polyethylene blankets
eg. Polypropylene blankets
eh. Polyethylene blankets
ei. Polypropylene blankets
ej. Polyethylene blankets
ek. Polypropylene blankets
el. Polyethylene blankets
em. Polypropylene blankets
en. Polyethylene blankets
eo. Polypropylene blankets
ep. Polyethylene blankets
eq. Polypropylene blankets
er. Polyethylene blankets
es. Polypropylene blankets
et. Polyethylene blankets
eu. Polypropylene blankets
ev. Polyethylene blankets
ew. Polypropylene blankets
ex. Polyethylene blankets
ey. Polypropylene blankets
ez. Polyethylene blankets
fa. Polypropylene blankets
fb. Polyethylene blankets
fc. Polypropylene blankets
fd. Polyethylene blankets
fe. Polypropylene blankets
ff. Polyethylene blankets
fg. Polypropylene blankets
fh. Polyethylene blankets
fi. Polypropylene blankets
fj. Polyethylene blankets
fk. Polypropylene blankets
fl. Polyethylene blankets
fm. Polypropylene blankets
fn. Polyethylene blankets
fo. Polypropylene blankets
fp. Polyethylene blankets
fq. Polypropylene blankets
fr. Polyethylene blankets
fs. Polypropylene blankets
ft. Polyethylene blankets
fu. Polypropylene blankets
fv. Polyethylene blankets
fw. Polypropylene blankets
fx. Polyethylene blankets
fy. Polypropylene blankets
fz. Polyethylene blankets
ga. Polypropylene blankets
gb. Polyethylene blankets
gc. Polypropylene blankets
gd. Polyethylene blankets
ge. Polypropylene blankets
gf. Polyethylene blankets
gg. Polypropylene blankets
gh. Polyethylene blankets
gi. Polypropylene blankets
gj. Polyethylene blankets
gk. Polypropylene blankets
gl. Polyethylene blankets
gm. Polypropylene blankets
gn. Polyethylene blankets
go. Polypropylene blankets
gp. Polyethylene blankets
gq. Polypropylene blankets
gr. Polyethylene blankets
gs. Polypropylene blankets
gt. Polyethylene blankets
gu. Polypropylene blankets
gv. Polyethylene blankets
gw. Polypropylene blankets
gx. Polyethylene blankets
gy. Polypropylene blankets
gz. Polyethylene blankets
ha. Polypropylene blankets
hb. Polyethylene blankets
hc. Polypropylene blankets
hd. Polyethylene blankets
he. Polypropylene blankets
hf. Polyethylene blankets
hg. Polypropylene blankets
hh. Polyethylene blankets
hi. Polypropylene blankets
hj. Polyethylene blankets
hk. Polypropylene blankets
hl. Polyethylene blankets
hm. Polypropylene blankets
hn. Polyethylene blankets
ho. Polypropylene blankets
hp. Polyethylene blankets
hq. Polypropylene blankets
hr. Polyethylene blankets
hs. Polypropylene blankets
ht. Polyethylene blankets
hu. Polypropylene blankets
hv. Polyethylene blankets
hw. Polypropylene blankets
hx. Polyethylene blankets
hy. Polypropylene blankets
hz. Polyethylene blankets
ia. Polypropylene blankets
ib. Polyethylene blankets
ic. Polypropylene blankets
id. Polyethylene blankets
ie. Polypropylene blankets
if. Polyethylene blankets
ig. Polypropylene blankets
ih. Polyethylene blankets
ii. Polypropylene blankets
ij. Polyethylene blankets
ik. Polypropylene blankets
il. Polyethylene blankets
im. Polypropylene blankets
in. Polyethylene blankets
io. Polypropylene blankets
ip. Polyethylene blankets
iq. Polypropylene blankets
ir. Polyethylene blankets
is. Polypropylene blankets
it. Polyethylene blankets
iu. Polypropylene blankets
iv. Polyethylene blankets
iw. Polypropylene blankets
ix. Polyethylene blankets
iy. Polypropylene blankets
iz. Polyethylene blankets
ja. Polypropylene blankets
jb. Polyethylene blankets
jc. Polypropylene blankets
jd. Polyethylene blankets
je. Polypropylene blankets
jf. Polyethylene blankets
jg. Polypropylene blankets
jh. Polyethylene blankets
ji. Polypropylene blankets
jj. Polyethylene blankets
jk. Polypropylene blankets
jl. Polyethylene blankets
jm. Polypropylene blankets
jn. Polyethylene blankets
jo. Polypropylene blankets
jp. Polyethylene blankets
jq. Polypropylene blankets
jr. Polyethylene blankets
js. Polypropylene blankets
jt. Polyethylene blankets
ju. Polypropylene blankets
jv. Polyethylene blankets
jw. Polypropylene blankets
jx. Polyethylene blankets
jy. Polypropylene blankets
jz. Polyethylene blankets
ka. Polypropylene blankets
kb. Polyethylene blankets
kc. Polypropylene blankets
kd. Polyethylene blankets
ke. Polypropylene blankets
kf. Polyethylene blankets
kg. Polypropylene blankets
kh. Polyethylene blankets
ki. Polypropylene blankets
kj. Polyethylene blankets
kk. Polypropylene blankets
kl. Polyethylene blankets
km. Polypropylene blankets
kn. Polyethylene blankets
ko. Polypropylene blankets
kp. Polyethylene blankets
kq. Polypropylene blankets
kr. Polyethylene blankets
ks. Polypropylene blankets
kt. Polyethylene blankets
ku. Polypropylene blankets
kv. Polyethylene blankets
kw. Polypropylene blankets
kx. Polyethylene blankets
ky. Polypropylene blankets
kz. Polyethylene blankets
la. Polypropylene blankets
lb. Polyethylene blankets
lc. Polypropylene blankets
ld. Polyethylene blankets
le. Polypropylene blankets
lf. Polyethylene blankets
lg. Polypropylene blankets
lh. Polyethylene blankets
li. Polypropylene blankets
lj. Polyethylene blankets
lk. Polypropylene blankets
ll. Polyethylene blankets
lm. Polypropylene blankets
ln. Polyethylene blankets
lo. Polypropylene blankets
lp. Polyethylene blankets
lq. Polypropylene blankets
lr. Polyethylene blankets
ls. Polypropylene blankets
lt. Polyethylene blankets
lu. Polypropylene blankets
lv. Polyethylene blankets
lw. Polypropylene blankets
lx. Polyethylene blankets
ly. Polypropylene blankets
lz. Polyethylene blankets
ma. Polypropylene blankets
mb. Polyethylene blankets
mc. Polypropylene blankets
md. Polyethylene blankets
me. Polypropylene blankets
mf. Polyethylene blankets
mg. Polypropylene blankets
mh. Polyethylene blankets
mi. Polypropylene blankets
mj. Polyethylene blankets
mk. Polypropylene blankets
ml. Polyethylene blankets
mm. Polypropylene blankets
mn. Polyethylene blankets
mo. Polypropylene blankets
mp. Polyethylene blankets
mq. Polypropylene blankets
mr. Polyethylene blankets
ms. Polypropylene blankets
mt. Polyethylene blankets
mu. Polypropylene blankets
mv. Polyethylene blankets
mw. Polypropylene blankets
mx. Polyethylene blankets
my. Polypropylene blankets
mz. Polyethylene blankets
na. Polypropylene blankets
nb. Polyethylene blankets
nc. Polypropylene blankets
nd. Polyethylene blankets
ne. Polypropylene blankets
nf. Polyethylene blankets
ng. Polypropylene blankets
nh. Polyethylene blankets
ni. Polypropylene blankets
nj. Polyethylene blankets
nk. Polypropylene blankets
nl. Polyethylene blankets
nm. Polypropylene blankets
nn. Polyethylene blankets
no. Polypropylene blankets
np. Polyethylene blankets
nq. Polypropylene blankets
nr. Polyethylene blankets
ns. Polypropylene blankets
nt. Polyethylene blankets
nu. Polypropylene blankets
nv. Polyethylene blankets
nw. Polypropylene blankets
nx. Polyethylene blankets
ny. Polypropylene blankets
nz. Polyethylene blankets
oa. Polypropylene blankets
ob. Polyethylene blankets
oc. Polypropylene blankets
od. Polyethylene blankets
oe. Polypropylene blankets
of. Polyethylene blankets
og. Polypropylene blankets
oh. Polyethylene blankets
oi. Polypropylene blankets
oj. Polyethylene blankets
ok. Polypropylene blankets
ol. Polyethylene blankets
om. Polypropylene blankets
on. Polyethylene blankets
oo. Polypropylene blankets
op. Polyethylene blankets
oq. Polypropylene blankets
or. Polyethylene blankets
os. Polypropylene blankets
ot. Polyethylene blankets
ou. Polypropylene blankets
ov. Polyethylene blankets
ow. Polypropylene blankets
ox. Polyethylene blankets
oy. Polypropylene blankets
oz. Polyethylene blankets
pa. Polypropylene blankets
pb. Polyethylene blankets
pc. Polypropylene blankets
pd. Polyethylene blankets
pe. Polypropylene blankets
pf. Polyethylene blankets
pg. Polypropylene blankets
ph. Polyethylene blankets
pi. Polypropylene blankets
pj. Polyethylene blankets
pk. Polypropylene blankets
pl. Polyethylene blankets
pm. Polypropylene blankets
pn. Polyethylene blankets
po. Polypropylene blankets
pp. Polyethylene blankets
pq. Polypropylene blankets
pr. Polyethylene blankets
ps. Polypropylene blankets
pt. Polyethylene blankets
pu. Polypropylene blankets
pv. Polyethylene blankets
pw. Polypropylene blankets
px. Polyethylene blankets
py. Polypropylene blankets
pz. Polyethylene blankets
qa. Polypropylene blankets
qb. Polyethylene blankets
qc. Polypropylene blankets
qd. Polyethylene blankets
qe. Polypropylene blankets
qf. Polyethylene blankets
qg. Polypropylene blankets
qh. Polyethylene blankets
qi. Polypropylene blankets
qj. Polyethylene blankets
qk. Polypropylene blankets
ql. Polyethylene blankets
qm. Polypropylene blankets
qn. Polyethylene blankets
qo. Polypropylene blankets
qp. Polyethylene blankets
qq. Polypropylene blankets
qr. Polyethylene blankets
qs. Polypropylene blankets
qt. Polyethylene blankets
qu. Polypropylene blankets
qv. Polyethylene blankets
qw. Polypropylene blankets
qx. Polyethylene blankets
qy. Polypropylene blankets
qz. Polyethylene blankets
ra. Polypropylene blankets
rb. Polyethylene blankets
rc. Polypropylene blankets
rd. Polyethylene blankets
re. Polypropylene blankets
rf. Polyethylene blankets
rg. Polypropylene blankets
rh. Polyethylene blankets
ri. Polypropylene blankets
rj. Polyethylene blankets
rk. Polypropylene blankets
rl. Polyethylene blankets
rm. Polypropylene blankets
rn. Polyethylene blankets
ro. Polypropylene blankets
rp. Polyethylene blankets
rq. Polypropylene blankets
rr. Polyethylene blankets
rs. Polypropylene blankets
rt. Polyethylene blankets
ru. Polypropylene blankets
rv. Polyethylene blankets
rw. Polypropylene blankets
rx. Polyethylene blankets
ry. Polypropylene blankets
rz. Polyethylene blankets
sa. Polypropylene blankets
sb. Polyethylene blankets
sc. Polypropylene blankets
sd. Polyethylene blankets
se. Polypropylene blankets
sf. Polyethylene blankets
sg. Polypropylene blankets
sh. Polyethylene blankets
si. Polypropylene blankets
sj. Polyethylene blankets
sk. Polypropylene blankets
sl. Polyethylene blankets
sm. Polypropylene blankets
sn. Polyethylene blankets
so. Polypropylene blankets
sp. Polyethylene blankets
sq. Polypropylene blankets
sr. Polyethylene blankets
ss. Polypropylene blankets
st. Polyethylene blankets
su. Polypropylene blankets
sv. Polyethylene blankets
sw. Polypropylene blankets
sx. Polyethylene blankets
sy. Polypropylene blankets
sz. Polyethylene blankets
ta. Polypropylene blankets
tb. Polyethylene blankets
tc. Polypropylene blankets
td. Polyethylene blankets
te. Polypropylene blankets
tf. Polyethylene blankets
tg. Polypropylene blankets
th. Polyethylene blankets
ti. Polypropylene blankets
tj. Polyethylene blankets
tk. Polypropylene blankets
tl. Polyethylene blankets
tm. Polypropylene blankets
tn. Polyethylene blankets
to. Polypropylene blankets
tp. Polyethylene blankets
tq. Polypropylene blankets
tr. Polyethylene blankets
ts. Polypropylene blankets
tt. Polyethylene blankets
tu. Polypropylene blankets
tv. Polyethylene blankets
tw. Polypropylene blankets
tx. Polyethylene blankets
ty. Polypropylene blankets
tz. Polyethylene blankets
ua. Polypropylene blankets
ub. Polyethylene blankets
uc. Polypropylene blankets
ud. Polyethylene blankets
ue. Polypropylene blankets
uf. Polyethylene blankets
ug. Polypropylene blankets
uh. Polyethylene blankets
ui. Polypropylene blankets
uj. Polyethylene blankets
uk. Polypropylene blankets
ul. Polyethylene blankets
um. Polypropylene blankets
un. Polyethylene blankets
uo. Polypropylene blankets
up. Polyethylene blankets
uq. Polypropylene blankets
ur. Polyethylene blankets
us. Polypropylene blankets
ut. Polyethylene blankets
uu. Polypropylene blankets
uv. Polyethylene blankets
uw. Polypropylene blankets
ux. Polyethylene blankets
uy. Polypropylene blankets
uz. Polyethylene blankets
va. Polypropylene blankets
vb. Polyethylene blankets
vc. Polypropylene blankets
vd. Polyethylene blankets
ve. Polypropylene blankets
vf. Polyethylene blankets
vg. Polypropylene blankets
vh. Polyethylene blankets
vi. Polypropylene blankets
vj. Polyethylene blankets
vk. Polypropylene blankets
vl. Polyethylene blankets
vm. Polypropylene blankets
vn. Polyethylene blankets
vo. Polypropylene blankets
vp. Polyethylene blankets
vq. Polypropylene blankets
vr. Polyethylene blankets
vs. Polypropylene blankets
vt. Polyethylene blankets
vu. Polypropylene blankets
vv. Polyethylene blankets
vw. Polypropylene blankets
vx. Polyethylene blankets
vy. Polypropylene blankets
vz. Polyethylene blankets
wa. Polypropylene blankets
wb. Polyethylene blankets
wc. Polypropylene blankets
wd. Polyethylene blankets
we. Polypropylene blankets
wf. Polyethylene blankets
wg. Polypropylene blankets
wh. Polyethylene blankets
wi. Polypropylene blankets
wj. Polyethylene blankets
wk. Polypropylene blankets
wl. Polyethylene blankets
wm. Polypropylene blankets
wn. Polyethylene blankets
wo. Polypropylene blankets
wp. Polyethylene blankets
wq. Polypropylene blankets
wr. Polyethylene blankets
ws. Polypropylene blankets
wt. Polyethylene blankets
wu. Polypropylene blankets
wv. Polyethylene blankets
ww. Polypropylene blankets
wx. Polyethylene blankets
wy. Polypropylene blankets
wz. Polyethylene blankets
xa. Polypropylene blankets
xb. Polyethylene blankets
xc. Polypropylene blankets
xd. Polyethylene blankets
xe. Polypropylene blankets
xf. Polyethylene blankets
xg. Polypropylene blankets
xh. Polyethylene blankets
xi. Polypropylene blankets
xj. Polyethylene blankets
xk. Polypropylene blankets
xl. Polyethylene blankets
xm. Polypropylene blankets
xn. Polyethylene blankets
xo. Polypropylene blankets
xp. Polyethylene blankets
xq. Polypropylene blankets
xr. Polyethylene blankets
xs. Polypropylene blankets
xt. Polyethylene blankets
xu. Polypropylene blankets
xv. Polyethylene blankets
xw. Polypropylene blankets
xx. Polyethylene blankets
xy. Polypropylene blankets
xz. Polyethylene blankets
ya. Polypropylene blankets
yb. Polyethylene blankets
yc. Polypropylene blankets
yd. Polyethylene blankets
ye. Polypropylene blankets
yf. Polyethylene blankets
yg. Polypropylene blankets
yh. Polyethylene blankets
yi. Polypropylene blankets
yj. Polyethylene blankets
yk. Polypropylene blankets
yl. Polyethylene blankets
ym. Polypropylene blankets
yn. Polyethylene blankets
yo. Polypropylene blankets
yp. Polyethylene blankets
yq. Polypropylene blankets
yr. Polyethylene blankets
ys. Polypropylene blankets
yt. Polyethylene blankets
yu. Polypropylene blankets
yv. Polyethylene blankets
yw. Polypropylene blankets
yx. Polyethylene blankets
yy. Polypropylene blankets
yz. Polyethylene blankets
za. Polypropylene blankets
zb. Polyethylene blankets
zc. Polypropylene blankets
zd. Polyethylene blankets
ze. Polypropylene blankets
zf. Polyethylene blankets
zg. Polypropylene blankets
zh. Polyethylene blankets
zi. Polypropylene blankets
zj. Polyethylene blankets
zk. Polypropylene blankets
zl. Polyethylene blankets
zm. Polypropylene blankets
zn. Polyethylene blankets
zo. Polypropylene blankets
zp. Polyethylene blankets
zq. Polypropylene blankets
zr. Polyethylene blankets
zs. Polypropylene blankets
zt. Polyethylene blankets
zu. Polypropylene blankets
zv. Polyethylene blankets
zw. Polypropylene blankets
zx. Polyethylene blankets
zy. Polypropylene blankets
zz. Polyethylene blankets

Permanent Blankets
This includes permanent "biodegradable" blankets (which erode over time) and blankets (which are made of natural organic or man-made materials, or a mix of both which is highly homogeneous in design and can act as a soil stabilization blanket).
Permanent blankets are a minimum mesh size of 1/2 inch to 1/4 inch and a maximum mesh size of 1/2 inch to 1/4 inch. The mesh size shall be 1/2 inch to 1/4 inch. The mesh size shall be 1/2 inch to 1/4 inch.

DESIGN CRITERIA
Care must be taken to ensure the type of matting or matting which is most appropriate for the specific needs of a project. The general types of blankets and mats are discussed within this specification. Due to

1. Canvas soil to strip out of streamer and 1/2 inch mesh with fine sand which become the growth medium for the development of roots.
2. Acts with the vegetative root system to form an erosion resistant cover which traps, traps, and traps sharp forces when embedded in the soil wet streamer channel.
Materials
All blanket and matting materials shall be on the Georgia Department of Transportation Qualified Products List (QPL) or its equivalent. QPL # 10 for matting.
All blankets shall be woven to vegetation and to the germination of seed and shall not be heavier than 5 lbs per square yard. A minimum of 1/2 inch mesh size shall be used for the matting and the matting manufacturer to maintain strength and provide for ease of handling.
Temporary Blankets
Machine produced temporary erosion control blankets shall have a maximum thickness with the woven fabric on top of 1/2 inch. All blankets shall have a minimum weight of 48 ounces per square yard. Machine produced erosion control blankets include the following:
a. Straw blankets
b. Paper blankets
c. Polypropylene blankets
d. Polyethylene blankets
e. Polypropylene blankets
f. Polyethylene blankets
g. Polypropylene blankets
h. Polyethylene blankets
i. Polypropylene blankets
j. Polyethylene blankets
k. Polypropylene blankets
l. Polyethylene blankets
m. Polypropylene blankets
n. Polyethylene blankets
o. Polypropylene blankets
p. Polyethylene blankets
q. Polypropylene blankets
r. Polyethylene blankets
s. Polypropylene blankets
t. Polyethylene blankets
u. Polypropylene blankets
v. Polyethylene blankets
w. Polypropylene blankets
x. Polyethylene blankets
y. Polypropylene blankets
z. Polyethylene blankets
aa. Polypropylene blankets
ab. Polyethylene blankets
ac. Polypropylene blankets
ad. Polyethylene blankets
ae. Polypropylene blankets
af. Polyethylene blankets
ag. Polypropylene blankets
ah. Polyethylene blankets
ai. Polypropylene blankets
aj. Polyethylene blankets
ak. Polypropylene blankets
al. Polyethylene blankets
am. Polypropylene blankets
an. Polyethylene blankets
ao. Polypropylene blankets
ap. Polyethylene blankets
aq. Polypropylene blankets
ar. Polyethylene blankets
as. Polypropylene blankets
at. Polyethylene blankets
au. Polypropylene blankets
av. Polyethylene blankets
aw. Polypropylene blankets
ax. Polyethylene blankets
ay. Polypropylene blankets
az. Polyethylene blankets
ba. Polypropylene blankets
bb. Polyethylene blankets
bc. Polypropylene blankets
bd. Polyethylene blankets
be. Polypropylene blankets
bf. Polyethylene blankets
bg. Polypropylene blankets
bh. Polyethylene blankets
bi. Polypropylene blankets
bj. Polyethylene blankets
bk. Polypropylene blankets
bl. Polyethylene blankets
bm. Polypropylene blankets
bn. Polyethylene blankets
bo. Polypropylene blankets
bp. Polyethylene blankets
bq. Polypropylene blankets
br. Polyethylene blankets
bs. Polypropylene blankets
bt. Polyethylene blankets
bu. Polypropylene blankets
bv. Polyethylene blankets
bw. Polypropylene blankets
bx. Polyethylene blankets
by. Polypropylene blankets
bz. Polyethylene blankets
ca. Polypropylene blankets
cb. Polyethylene blankets
cc. Polypropylene blankets
cd. Polyethylene blankets
ce. Polypropylene blankets
cf. Polyethylene blankets
cg. Polypropylene blankets
ch. Polyethylene blankets
ci. Polypropylene blankets
cj. Polyethylene blankets
ck. Polypropylene blankets
cl. Polyethylene blankets
cm. Polypropylene blankets
cn. Polyethylene blankets
co. Polypropylene blankets
cp. Polyethylene blankets
cq. Polypropylene blankets
cr. Polyethylene blankets
cs. Polypropylene blankets
ct. Polyethylene blankets
cu. Polypropylene blankets
cv. Polyethylene blankets
cw. Polypropylene blankets
cx. Polyethylene blankets
cy. Polypropylene blankets
cz. Polyethylene blankets
da. Polypropylene blankets
db. Polyethylene blankets
dc. Polypropylene blankets
dd. Polyethylene blankets
de. Polypropylene blankets
df. Polyethylene blankets
dg. Polypropylene blankets
dh. Polyethylene blankets
di. Polypropylene blankets
dj. Polyethylene blankets
dk. Polypropylene blankets
dl. Polyethylene blankets
dm. Polypropylene blankets
dn. Polyethylene blankets
do. Polypropylene blankets
dp. Polyethylene blankets
dq. Polypropylene blankets
dr. Polyethylene blankets
ds. Polypropylene blankets
dt. Polyethylene blankets
du. Polypropylene blankets
dv. Polyethylene blankets
dw. Polypropylene blankets
dx. Polyethylene blankets
dy. Polypropylene blankets
dz. Polyethylene blankets
ea. Polypropylene blankets
eb. Polyethylene blankets
ec. Polypropylene blankets
ed. Polyethylene blankets
ee. Polypropylene blankets
ef. Polyethylene blankets
eg. Polypropylene blankets
eh. Polyethylene blankets
ei. Polypropylene blankets
ej. Polyethylene blankets
ek. Polypropylene blankets
el. Polyethylene blankets
em. Polypropylene blankets
en. Polyethylene blankets
eo. Polypropylene blankets
ep. Polyethylene blankets
eq. Polypropylene blankets
er. Polyethylene blankets
es. Polypropylene blankets
et. Polyethylene blankets
eu. Polypropylene blankets
ev. Polyethylene blankets
ew. Polypropylene blankets
ex. Polyethylene blankets
ey. Polypropylene blankets
ez. Polyethylene blankets
fa. Polypropylene blankets
fb. Polyethylene blankets
fc. Polypropylene blankets
fd. Polyethylene blankets
fe. Polypropylene blankets
ff. Polyethylene blankets
fg. Polypropylene blankets
fh. Polyethylene blankets
fi. Polypropylene blankets
fj. Polyethylene blankets
fk. Polypropylene blankets
fl. Polyethylene blankets
fm. Polypropylene blankets
fn. Polyethylene blankets
fo. Polypropylene blankets
fp. Polyethylene blankets
fq. Polypropylene blankets
fr. Polyethylene blankets
fs. Polypropylene blankets
ft. Polyethylene blankets
fu. Polypropylene blankets
fv. Polyethylene blankets
fw. Polypropylene blankets
fx. Polyethylene blankets
fy. Polypropylene blankets
fz. Polyethylene blankets
ga. Polypropylene blankets
gb. Polyethylene blankets
gc. Polypropylene blankets
gd. Polyethylene blankets
ge. Polypropylene blankets
gf. Polyethylene blankets
gg. Polypropylene blankets
gh. Polyethylene blankets
gi. Polypropylene blankets
gj. Polyethylene blankets
gk. Polypropylene blankets
gl. Polyethylene blankets
gm. Polypropylene blankets
gn. Polyethylene blankets
go. Polypropylene blankets
gp. Polyethylene blankets
gq. Polypropylene blankets
gr. Polyethylene blankets
gs. Polypropylene blankets
gt. Polyethylene blankets
gu. Polypropylene blankets
gv. Polyethylene blankets
gw. Polypropylene blankets

