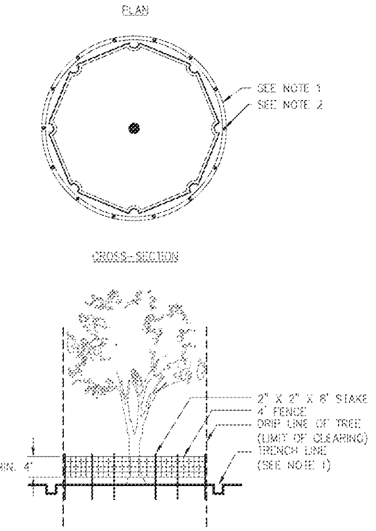
TREE PROTECTION

"SNOW" FENCE



NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES)
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

Figure 6-38.1

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TREE PROTECTION (Tr)
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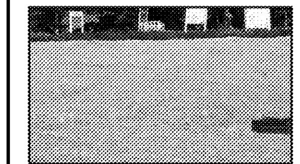
Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE
- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 - Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).**

SPECIFICATIONS
Mulching Without Seeding
This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifiers.** Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

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DISTURBED AREA STABILIZATION (Ds1)
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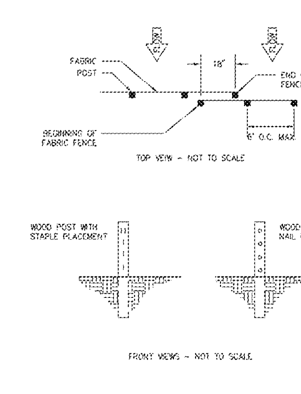
FASTENERS FOR SILT FENCES

Table 6-27.2 Post Size			
Type	Min. Length	Type of Post	Size of Post
NS	4'	Soft wood Oak Steel	3"dia or 2x4 1.5" x1.5" 1.15lb./ft. min
S	4'	Steel Oak	1.15-1.25 lb./ ft. min 2"x2"

Table 6-27.3 Fasteners for Wood Posts				
	Gauge	Crown	Legs	Staples / Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/ Post
Nails	14 min.	1"	3/4"	4 min.
Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.				

OVERLAP AT FABRIC ENDS



NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER.

Figure 6-27.5

FASTENERS FOR SILT FENCES
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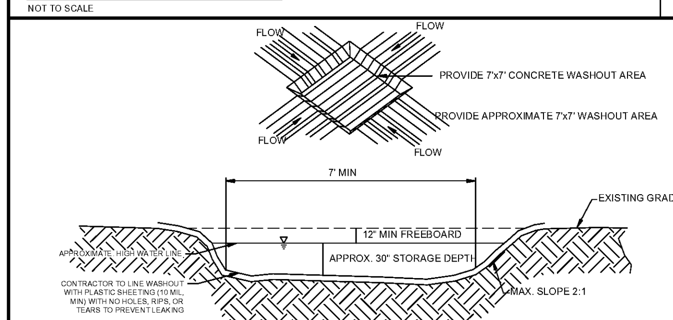
3



NOTES:
1.) CONCRETE WASHOUT FACILITIES TO BE CHECKED DAILY TO DETERMINE IF THEY HAVE BEEN FILLED TO 75 PERCENT CAPACITY, WHICH IS WHEN MATERIALS NEED TO BE REMOVED.
2.) SELF-INSTALLED WASHOUTS SHOULD BE INSPECTED DAILY TO ENSURE THAT PLASTIC LININGS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES.
3.) IF STORED LIQUIDS HAVE NOT EVAPORATED AND THE WASHOUT IS NEARING CAPACITY, VACUUM OR PUMP AND DISPOSE OF THEM IN AN LOCAL, STATE AND FEDERALLY LEGAL MANNER
4.) REMOVE LIQUIDS OR COVER THE WASHOUT AREA BEFORE PREDICTED RAINSTORMS TO PREVENT OVERFLOWS.
5.) HARDENED SOLIDS CAN BE REMOVED WHOLE OR BE BROKEN FIRST. CONTRACTOR TO REUSE THE SOLIDS ONSITE OR HAUL THEM AWAY FOR RECYCLING/DISPOSAL IN A LEGAL MANNER.

*CONTRACTOR MAY SUBSTITUTE AN APPROVED PREFABRICATED CONTAINER

CONCRETE WASHDOWN DETAIL
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INITIAL PHASE - SHEET C-2.0

A. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE CITY AND/OR COUNTY OFFICIALS PRIOR TO ANY LAND DISTURBING ACTIVITY.
B. LIMIT DISTURBED AREAS TO ONLY THE AREA NECESSARY TO INSTALL THE FOLLOWING: CONSTRUCTION EXIT, WASHOUT AREA, PERIMETER SILT FENCE, INLET PROTECTION BMPS, TEMPORARY SEDIMENT TRAP AND DIVERSION AS SHOWN ON THE SHEET C-2.0.
C. PROVIDE NOTICE TO DESIGN ENGINEER THAT THE INITIAL BMPS ARE READY TO BE INSPECTED. BEGIN INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES.
D. BEGIN CLEARING, DEMOLITION AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE CONSTRUCTION IS PLANNED TO COMMENCE WITHIN 13 DAYS AFTER CLEARING AND GRUBBING. CONTRACTOR TO UTILIZE EXISTING PARKING AREAS DURING INITIAL PHASE AS PRACTICAL TO MINIMIZE THE AMOUNT OF EXPOSED SOIL.

INTERMEDIATE PHASE - SHEET C-2.1

A. BEGIN CUT/FILL ONSITE TO BRING SITE TO SUBGRADE AND STABILIZED ANY SLOPES WITH TEMPORARY MATTING, MULCH AND/OR GRASSING AS PROPOSED GRADE IS ACHIEVED.
B. INSTALL INLET/OUTLET PROTECTION CONCURRENT WITH THE INSTALLATION OF ANY DROP INLETS, CURB INLETS, CATCH BASIN, HEADWALLS AND PIPES.
C. INSTALL OTHER SITE UTILITIES; I.E. STORMWATER, SANITARY SEWER, WATER, POWER, GAS AND TELEPHONE.

FINAL PHASE - SHEET C-2.2

A. INSTALL IRRIGATION AND SITE LIGHTING.
B. COMPLETE FINE GRADING TO FINALIZE PAVEMENT SUB-GRADE PREPARATION.
C. CONSTRUCT ALL SIDEWALKS, CURB, GUTTER AND STORM INLET TOPS AS SHOWN ON THE GRADING PLAN. CONVERT SEDIMENT TRAPS TO INLET PROTECTION AS SOIL EXPOSURE IS REDUCED WITH PAVING AND LANDSCAPING ACTIVITIES.
D. INSTALL BASE COURSE AS REQUIRED FOR PAVEMENT AND REMOVE INLET PROTECTION TEMPORARILY AS BASE COURSE IS BEING INSTALLED.
E. INSTALL ASPHALT BINDER, CONCRETE PAVEMENT AND DUMPSTER PAD(S), REMOVE CONSTRUCTION EXIT PRIOR TO PAVEMENT INSTALLATION IN THESE AREAS (AREA OF CONSTRUCTION EXIT SHOULD BE PAVED LAST).
F. INSTALL FINAL SEEDING AND/OR SODDING AND PLANTING PER THE FINAL PHASE PLAN AND THE LANDSCAPE PLAN.
G. INSPECT AND CLEAN STORM DRAINAGE SYSTEM.
H. UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE-OF-OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES (PERIMETER SILT-FENCE, TREE SAVE FENCE AND INLET PROTECTION MEASURES), ENSURE THAT THE SITE HAS BEEN PROPERLY STABILIZED PER THE PERMIT REQUIREMENTS AND FILE AN NOT ON THE BEHALF OF THE OWNER/DEVELOPER.

PHASING DETAIL
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GSWCC Georgia Soil and Water Conservation Commission

Timothy Kyle Sharpe
Level II Certified Design Professional
Certification Number 0000065749
Issued: 01/17/2015 Expires: 02/17/2021

EROSION CONTROL CERTIFICATION
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PREPARED IN THE OFFICE OF:
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REV. #		DATE	DRAWN BY:	CHECKED BY:
A	COUNTY COMMENTS	09/28/18	FDE	TKS

PROJECT
BOJANGLES' - STOCKBRIDGE
HUDSON BRIDGE ROAD & WILLIS DRIVE
LAND LOT 21, DISTRICT 6, PARCEL 032-01012001
HENRY COUNTY, GA

SEAL:

DESIGN TEAM:

DRAWN BY:	FDE
DESIGNED BY:	FDE
REVIEWED BY:	TKS

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EROSION CONTROL DETAILS - 3

C-2.6

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