STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			Aerated temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Protecting, constructing or stabilizing an open channel, existing or new, or ditch.
Cd	CONSTRUCTION ROAD			An access stone pad for areas of the construction site next to paved public roads for reducing mud from the site tracked onto public roads.
Cr	CONSTRUCTION ROAD STABILIZATION			A driveway, constructed as part of the construction plan including access roads, subdivision roads, parking areas, and other on-site vehicle transportation routes.
Dc	DIVERSION CHANNEL			A temporary channel constructed as necessary that directs a specified flow while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit or heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is a temporary and non-permanent.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A ring of filter material placed around an inlet drop inlet or curb inlet.
Ga	GABION			Wire mesh baskets which are filled with stone and used to construct walls, dams, and channel linings.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structure installed to prevent rills and gullies or head cutting in natural drainage ways or waterways. Also sometimes called a grade stabilization structure.
Lv	LEVEL SPREADER			A depression or ridge constructed across the slope at zero grade. It is designed to release runoff as sheet flow from a concentrated source.
Rd	ROCK PERCOLATION DAM			A small temporary check dam constructed across a swale or drainage ditch to reduce the velocity of concentrated flow and to promote sedimentation.
Re	RETAINING WALL			A permanent wall constructed to stabilize soil or rock areas. Sometimes required for steep slopes.
Rt	RETROFITTING			A device or structure added to an existing facility to provide water quality treatment.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. This may be sandbags, bales of straw or hay, brush, rock or poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating or by placing an earth dam and/or a barrier around an inlet. The excavated area will be filled and stabilized on completion of construction activities.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The outflow water consists of a perforated riser allowing the bulk of the sediment to drop out.
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert type structure protecting a stream or watercourse from damage by jumping construction equipment.
St	STORM DRAIN OUTLET PROTECTION			A paved or short section of open channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or other loose soil surface. Also sometimes called tillage grooving.
Tp	TOPSOILING			Preservation of stripping of the most fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Wl	VEGETATED WATERWAYS OR DIVERSIONS (GRASSED CHANNEL)			Planted or vegetated water courses for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE MEASURES

Bf	BUFFER ZONE			A strip of undisturbed vegetation, enhanced or planted existing vegetation or the establishment of vegetation surrounding an area of disturbance or bordering a stream.
Cs	COASTAL DUNE STABILIZATION (SEE VEGETATIVE)			Planting vegetation on dunes that are beautiful, aesthetically considered, or ecosystem.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings do not form adequate growing season to produce an erosion preventing cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings and/or mulches.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or vegetation described areas.
Ds4	DISTURBED AREA STABILIZATION (WITH BUILDING)			Applying an vegetative cover using sod on higher or older or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction sites roadways and border sites.
Mb	MISCELLANEOUS CONSTRUCTION AND BLANKETS			The installation of a protective covering (mulch) or soil stabilizer over a graded planting area of a steep slope, channel, or shoreline.
Pm	POLYACRYLAMIDE (PAM)			The uncontaminated amount corresponding sediment pollution control practices as temporary soil binding agents to reduce soil erosion.
Sb	SODDING (GRASS, GRASS-LEGUME MIXTURE)			The use of locally available sodding seed material on stabilized and complete areas where, or to provide, of stabilize and repair small disturbances erosion problems.
Tb	TACKIFIERS AND BINDERS			Substances used to assist storm or hay mulch in securing the organic material to bind together.

Sd1 MAINTENANCE

- Inspect barriers at the end of each working day, or after each rain, and repair or clean as necessary.
- Remove sediment from barrier when one-half full.
- Dispose of sediment and stabilize it with vegetation.
- Replace filter fabric when deteriorated.
- Design life of a synthetic silt fence is approximately 6 months.
- Maintain until the project is vegetated or otherwise stabilized.
- Remove barriers and accumulated sediment and stabilize the exposed area when the project is stabilized.
- Approved silt fence fabrics are listed in the Georgia Department of Transportation Qualified Products List #36 (QPL-36).

Table 1. Criteria for Sediment Barrier Placement

Land Slope (percent)	Maximum Slope Length behind Fence (feet)
<2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20	15

Table 1. Criteria for Sediment Barrier Placement

Land Slope (percent)	Maximum Slope Length behind Fence (feet)
<2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20	15

Figure 2. Type "A" Silt Fence

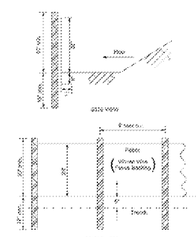
Figure 1. Straw Bale Barrier Installation Requirements

- Bags (Sd1-S)
- Gap under or between bags should be minimal.
- Anchoring with steel rods may be required if height exceeds two bags.

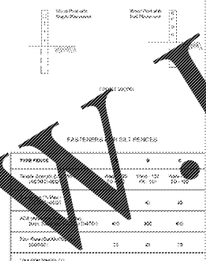
Figure 3. Type "B" Silt Fence (Sd1-b)

Figure 4. Type "C" (Sd1-C) Wire-Reinforced Silt Fence

Figure 5. Typical Type "C" Silt Fence



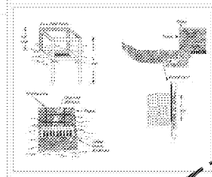
SILT FENCE - TYPE B

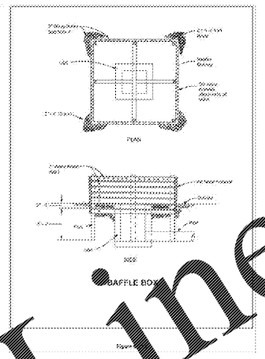


SILT FENCE - TYPE B

Sd2 MAINTENANCE

- Inspect, clear, and/or repair trap at the end of each working day.
- Do not remove inlet protection and wash sediment into the storm drain.
- Remove sediment from the trap and stabilize it with vegetation.
- Remove all materials and any unstable soil once the contributing drainage area has been adequately stabilized.
- Appropriately stabilize all bare areas around the inlet.





BAFFLE BOX

Ds2

Re-seed areas where an adequate stand of temporary vegetation fails to emerge or where a good stand exists.

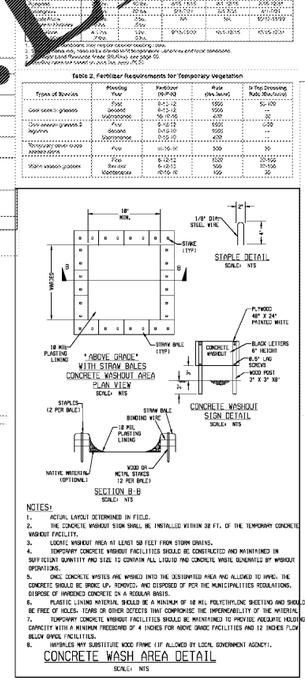
Table 1. Some Temporary Cover Species, Seeding Rates, and Planting Dates (continued)

Species	Pure Live Seed (PLS) Rate per 1,000 sq. ft.	Pure Live Seed (PLS) Rate per Acre	Planting Dates by Region		
			P	C	M
Cool season grasses:					
Rye (Secale cereale)	2 lbs.	90 lbs.	8/15-11/15	8/15-11/15	8/15-11/15
Annual ryegrass (Lolium multiflorum)	1 lb.	45 lbs.	8/1-12/15	8/1-12/15	8/1-12/15
Oats (Avena sativa)	2 lbs.	90 lbs.	8/15-12/15	8/15-12/15	8/15-12/15
Wheat (Triticum aestivum)	2 lbs.	90 lbs.	8/15-12/15	8/15-12/15	8/15-12/15
Barley (Hordeum vulgare)	2 lbs.	90 lbs.	8/15-12/15	8/15-12/15	8/15-12/15
Triticale (Triticum secale)	2 lbs.	90 lbs.	8/15-12/15	8/15-12/15	8/15-12/15
Tall fescue (Festuca arundinacea)	1 lb.	45 lbs.	8/15-12/15	8/15-12/15	8/15-12/15
Warm season grasses:					
Bermudagrass (Cynodon dactylon)	1/4 lb.	10 lbs.	4/15-6/15	4/15-6/15	4/15-6/15
Bahiagrass (Paspalum notatum)	1 lb.	45 lbs.	4/15-6/15	4/15-6/15	4/15-6/15
Weeping lovegrass (Eragrostis curvula)	1/4 lb.	10 lbs.	4/15-6/15	4/15-6/15	4/15-6/15
Sericea lespedeza (Lespedeza cuneata)	1/2 lb.	20 lbs.	4/15-6/15	4/15-6/15	4/15-6/15
Annual lespedeza (Lespedeza striata)	1/2 lb.	20 lbs.	4/15-6/15	4/15-6/15	4/15-6/15
Browntop millet (Panicum ramosum)	1/2 lb.	20 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Pearl millet (Pennisetum glaucum)	1/2 lb.	20 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Sudangrass (Sorghum sudanense)	1 lb.	45 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Grain sorghum (Sorghum bicolor)	1 lb.	45 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Corn (Zea mays)	1 lb.	45 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Cowpea (Vigna unguiculata)	1 lb.	45 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Lespedeza sericea (Lespedeza cuneata)	1/2 lb.	20 lbs.	5/1-7/15	5/1-7/15	5/1-7/15
Soybean (Glycine max)	1 lb.	45 lbs.	5/1-7/15	5/1-7/15	5/1-7/15

Table 2. Fertilizer Requirements for Temporary Vegetation

Types of Species	Planting Time	Fertilizer (N-P-K)	Rate (lbs./acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	Fall (seeded)	6-12-12	1000	50-100
	Spring (maintenance)	10-10-10	1000	50
Spring cereal grasses	Fall (seeded)	6-12-12	1000	100
	Spring (maintenance)	10-10-10	1000	50
Temporary cover crops (legumes)	Prior to seeding	10-10-10	500	50
Warm season grasses	Fall (seeded)	6-12-12	1000	50-100
	Spring (maintenance)	6-12-12	500	50-100
		10-10-10	500	50

SILT FENCE - TYPE B



STAPLE DETAIL
SCALE: NTS

CONCRETE WASHOUT SIGN DETAIL
SCALE: NTS

SECTION B-B
SCALE: NTS

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS.
4. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARD, THE CONCRETE SHOULD BE BROKE UP, REMOVED, AND DISPOSED OF PER THE MUNICIPALITIES REGULATIONS. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
6. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
7. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 INCHES FOR ABOVE GRADE FACILITIES AND 12 INCHES FLOW BELOW GRADE FACILITIES.
8. WHENEVER MAY SUBSTITUTE WOOD FRAME (IF ALLOWED BY LOCAL GOVERNMENT AGENCY).

CONCRETE WASH AREA DETAIL
SCALE: NTS

Ds3 Table 1. Mulching Application Requirements

Material	Rate	Depth
Straw or hay	-	2" to 4"
Wood waste chips, sawdust, bark	-	2" to 3"
Cutback asphalt	1200 gal./acre, 1/4 gal./sq. yd. or See manufacturer's recommendations	---
Polyethylene film	Secure with soil, anchors, weights	---
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	---

Ds3 MAINTENANCE

- Add mulch as needed to maintain the suggested depth.
- If organic mulch is to be left and incorporated into the soil, apply 20-30 pounds of Nitrogen in addition to the fertilizer required for vegetation.

Figure 3. Curb Inlet Filter Installation Requirements (Sd2-IF)

Co MAINTENANCE

- Periodically dress with 1.5"-3.5" stone.
- Maintain in a condition that will prevent tracking or flow of mud onto public rights-of way.
- Immediately remove mud and debris tracked or spilled onto roadways.

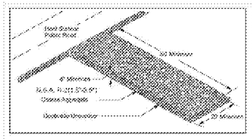


Figure 1. Crushed Stone Construction Exit Installation Requirements

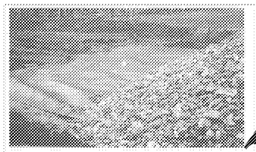


Figure 2. Geotextile Underliner Under Gravel Pad

SURFACE ROUGHENING (Su)
SCALE: NTS

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

MD BLANKET AND MATTING CROSS-SECTIONS

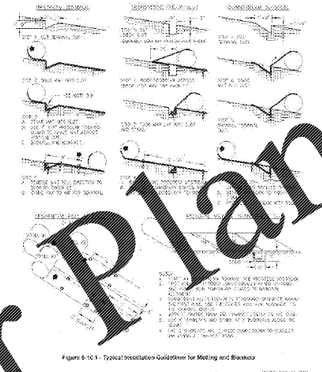
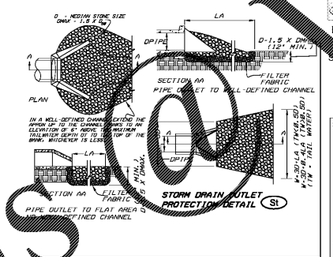


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets



STORM DRAIN OUTLET PROTECTION DETAIL (St)

DUST CONTROL ON DISTURBED AREAS (Du)

Method and Materials:

A. TEMPORARY METHODS

Mulches. See standard Ds1- Disturbed Area Stabilization (with mulching only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb - Tackifiers and Binders. Resins such as Curasol or Terratack should be used according to manufacturer's recommendation.

Vegetative Cover. See standard Ds2- Disturbed Area Stabilization (with temporary seeding). Tackifiers and adhesives. These are used on mineral soils (not spray on adhesives). Refer to standard Tb - Tackifiers and Binders.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind starts. Begin plowing on windward side of site. Chisel type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are example of equipment which may produce the desired effect. Irrigation. This is generally done as an emergency treatment. Soil must be thoroughly wet with water until the surface is moist. Repeat as needed.

Barriers. Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion. Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHOD

Permanent Vegetation. See Standard Ds3 Disturbed Area Stabilization (with permanent vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See standard Tp Topsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See standard Cr - Construction Road Stabilization.

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GEORGIA REGISTERED No. 031249 PROFESSIONAL ENGINEER PAUL K. HAMMON

Project Name: WISE AVENUE PARK
Project Number:
Drawn By: Ck'd By:
Date: Scale: As shown

Rev:	Description:	Date:
1.	SUBMITTED TO COUNTY	11/16/17
2.	REVISED PER COUNTY COMMENTS	03/12/18

EROSION CONTROL DETAILS

D-01

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