

Plants, Planting Rates, and Planting Dates For Temporary Cover Or Companion Crops						
Species	Rates per Acre	Rates per 1,000 sq. ft.	Planting Dates by Region			Remarks
			M-L	P	C	
Barley	3 bu.	3.3 lbs.	8/15-11/15	8/15-12/15	9/1-12/31	
Oats	4 bu.	2.9 lbs.	9/1-11/30	9/1-11/30	9/1-11/30	
Triticale	3 bu.	3.3 lbs.	---	---	9/15-1/31	
Ryegrass, Annual	40 lbs.	0.9 lb.	8/1-4/30	8/1-4/15	8/15-3/31	
Rye Grain (alone)	3.0 bu.	3.3 lb.	7/15-11/30	8/15-12/31	9/1-2/28	
Rye Grain (in mixtures)	0.5 bu.	0.8 lb.	7/15-11/30	8/15-12/31	9/1-2/28	
Lespedeza, Annual	40 lbs.	0.9 lb.	2/1-4/30	2/15-4/30	1/15-3/15	
Weeping Lovegrass	4 lbs.	0.1 lb.	3/15-8/15	3/15-8/15	2/15-8/15	
Sudangrass	60 lbs.	1.4 lb.	4/1-8/31	4/1-8/31	3/1-7/31	
Millet, Browntop	40 lbs.	0.9 lb.	4/1-8/30	4/1-7/15	4/1-7/15	
Millet, Pearl	50 lbs.	1.1 lb.	5/1-7/31	4/15-8/31	4/1-8/31	
Wheat	3 bu.	4.1 lbs.	9/1-12/31	9/1-12/31	9/15-1/31	

Fertilizer Requirements for Temporary Vegetation				
Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12	1000	---
Cool season grasses & legumes	First	6-12-12	1500	0-50
	Second Maintenance	0-10-10	1000	---
Temporary cover crops seeded alone	First	10/10/10	500	30
	Second Maintenance	6-12-12	1500	50-100
Warm season grasses	First	6-12-12	800	50-100
	Second Maintenance	6-12-12	400	30

M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MLRA
 P represents the Southern Piedmont Region MLRA
 C represents the Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coast Flatwoods MLRA

Plants, Planting Rates, and Planting Dates For Permanent Cover						
Species	Rate per Acre	Rates per 1,000 sq. ft.	Planting Dates by Region			Remarks
			M-L	P	C	
Bermuda, Common (Hulled seed) Alone	10 lbs.	0.2 lb.	---	3/1-6/30	2/15-6/30	Quick cover; low growing; sod forming; needs full sun.
With Perennials	6 lbs.	0.1 lb.	---	---	---	
Bermuda, Common (Unhulled seed) With temporary cover	10 lbs.	0.2 lb.	---	10/1-2/28	11/1-1/31	Plant with winter annuals.
With other perennials	6 lbs.	0.1 lb.	---	---	---	
Bermuda Sprigs With temporary cover	40cu.ft.	0.9cu.ft.	3/15-7/15	3/15-7/31	1/1-12/31	1 cu. ft. = 650 sprigs; 1 bu. = 1.25 cu. ft. or 800 sprigs.

Fertilizer Requirements for Permanent Vegetation				
Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	---
	Maintenance	10-10-10	400	30
Cool season grasses & legumes	First	6-12-12	1500	0-50
	Second	6-12-12	1000	---
	Maintenance	0-10-10	400	---
Ground covers	First	10-10-10	1300	---
	Second	10-10-10	1300	---
	Maintenance	10-10-10	1100	---
Fine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	---
	Second	10-10-10	700	---
Shrub Lespedeza	First	0-10-10	700	---
	Maintenance	0-10-10	700	---
Temporary cover crops seeded alone	First	10-10-10	500	30
	Second	6-12-12	1500	50-100
Warm season grasses	First	6-12-12	800	50-100
	Second Maintenance	10-10-10	400	30
Warm season grasses & legumes	First	6-12-12	1500	50
	Second Maintenance	0-10-10	1000	400

* APPLY AGRICULTURAL LIME AS PRESCRIBED BY SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE

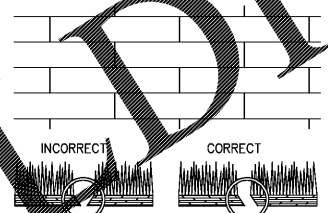
Material	Depth
Dry Straw Or Hay	2" To 4"
Wood Waste (sawdust, Bark, Chips)	2" To 3"
Curb Asphalt (slow Curing)	1200 Gal./acre (1/4 Gal./sq.yd.)
Black Polyethylene Film	Compleatly Cover Area; Hold In Place With Soil Or Outer Edge

Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq ft)	Season
13-10-10	1000	.025	Fall

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tifawn	M-L,P,C P,C P,C	warm weather
Bahia	Pensacola	P,C	warm weather
Centipede	---	P,C	warm weather
St. Augustine	Common Bitterbrush Raleigh	P,C	warm weather
Zoysia	Mermaid	P,C	warm weather
Tall Fescue	Kentucky	M-L,P	cool weather

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first	6-12-12	1500	50-100
	second maintenance	6-12-12	1000	---
warm season grasses	first	6-12-12	1500	50-100
	second maintenance	6-12-12	800	---

SOD LAYOUT AND PREPARATION

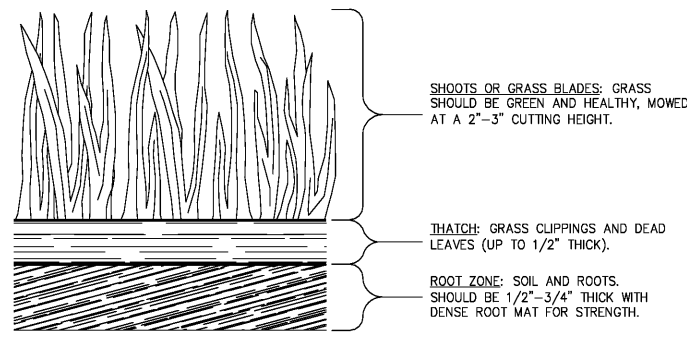


LAY SOD IN A STAGGERED PATTERN, BUT THE STRIPS MUST BE MATCHED CORRECTLY. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

DIRECTIONS FOR INITIAL MAINTENANCE

- Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL
- Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SOD MAINTENANCE AND INSTALLATION

Ds4 PERMANENT GRASSING - SOD
NO SCALE

Ds2 TEMPORARY GRASSING

- 1. ALL SEEDED AREAS WILL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2-2 1/2 TONS PER ACRE WITHIN 24 HRS. AFTER SEEDING. USE OF A TACKIFIER IS REQUIRED ON ALL SLOPES EXCEEDING 3:1.
- 2. GRASSING WILL BE ACCEPTED WHEN A 95% COVER BY PERMANENT GRASSING IS OBTAINED AND WEEDS ARE NOT DOMINANT.
- 3. GRASSING OF DISTURBED AREAS WILL COMMENCE AT COMPLETION OF EACH PHASE OF CONSTRUCTION OR IN THE SEQUENCE AS INDICATED. IN ANY CASE, GRASSING OF ANY DISTURBED AREA WILL

Ds3 PERMANENT GRASSING

- 4. IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.
- 5. TOPDRESSING WILL BE APPLIED ON ALL TEMPORARY & PERMANENT SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES.
- 6. PERMANENT GRASSING SHALL BE IRRIGATED AND MAINTAINED. BERMUDA GRASS MAY BE MOWED AS DESIRED MAINTAINING AT LEAST 4 TO 6 INCHES OF TOP GROWTH.

Ds1 MULCHING

GRASSING, FERTILIZATION & MULCH
NO SCALE

DESCRIPTION:
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE BY CONDUCTING OFF-SITE WASHOUT, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

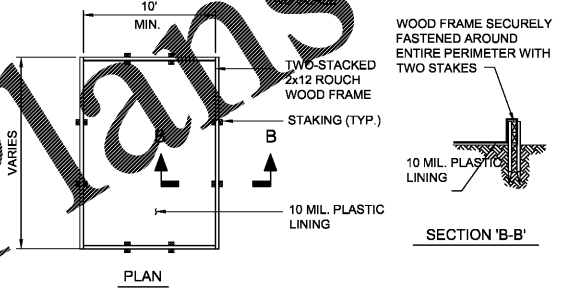
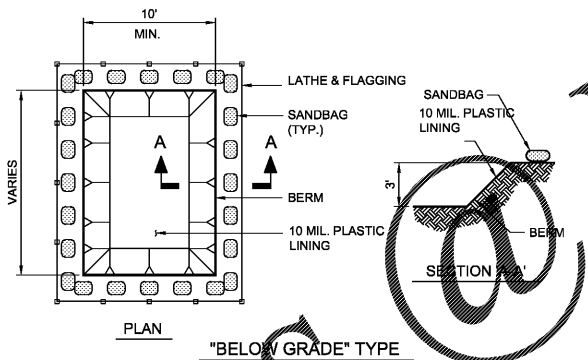
TARGETED POLLUTANTS: CONCRETE WASTE

CONSTRUCTION GUIDELINES:

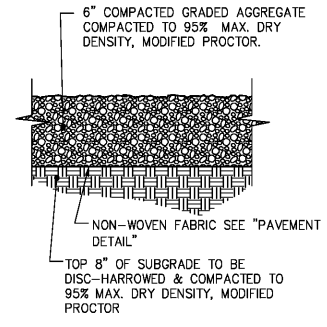
- 1. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON SITE.
 - 2. PERFORM WASHOUT OF CONCRETE TRUCKS OFF SITE OR IN DESIGNATED AREAS ONLY.
 - 3. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
 - 4. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
- FOR ON-SITE WASHOUT:**
- 1. LOCATE WASHOUT AREA AT LEAST 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. CONSTRUCT A TEMPORARY PIT OR BERMED/DIked AREA WITH A PAVED OR GRAVEL APPROACH TO CAPTURE LIQUID AND SOLID WASTE.
 - 2. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE TRUCK SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
 - 3. WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, DRAIN THE WATER TO A BERMED, DIKED OR LEVEL AREA.
 - 4. AVOID WASHING SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.
 - 5. TRAIN EMPLOYEES AND SUBCONTRACTORS IN CONCRETE WASTE MANAGEMENT.

MAINTENANCE:

- 1. INSPECT SUBCONTRACTORS TO ENSURE THAT CONCRETE WASTES ARE BEING PROPERLY MANAGED. TEMPORARY WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITY MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS FULL.
- 2. IF USING A TEMPORARY PIT, DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT SHALL BE BACKFILLED AND REPAIRED.



- NOTES:**
- 1. CONTRACTOR MUST PROVIDE A DESIGNATED AREA FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A CONCRETE WASHOUT FACILITY AND SHALL BE CONSTRUCTED PER THE DETAIL SHOWN ABOVE.
 - 2. THE CONCRETE WASHOUT FACILITY SHALL BE LOCATED AT A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
 - 3. WASHOUT DISCHARGE FROM THE CLEANING OF CONCRETE TRUCKS, TOOLS AND OTHER EQUIPMENT SHALL BE TRANSPORTED OFF-SITE AND DISPOSED OF PROPERLY.
 - 4. IT IS PROHIBITED TO WASH OUT THE MIXING DRUM OF CONCRETE TRUCKS ON-SITE.
 - 5. ACTUAL LAYOUT CAN BE DETERMINED IN FIELD OR AS SHOWN IN PLAN.
 - 6. CONCRETE WASHOUT SIGN SHALL BE PROVIDED WITHIN 30' OF THE CONCRETE WASHOUT FACILITY.



Cr CONSTRUCTION ROAD STABILIZATION
NO SCALE

CWM CONCRETE WASTE MANAGEMENT
NO SCALE

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

WILLIAM T. BUCHANAN
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000065516
ISSUED: 1/25/2018 EXPIRES: 1/25/2021

REV	DATE	BY	DESCRIPTION
0	1/25/2018	WTB	ISSUED FOR BID

PROJECT NO: 3042.1604
 DRAWN BY: DRWN
 CHECKED BY: CHK
 DATE: 10/18/17
 SHEET TITLE: E.S.P.C. NOTES & DETAILS - 2 OF 5

SCALE: AS NOTED
 DRAWING NO: C-505
 REV: 0

CLIENT: AUGUSTA, GA
 535 TELFAIR STREET, AUGUSTA, GA 30901

PROJECT NAME: FIRE STATION #3

PROJECT LOCATION: 2648 GORDON HWY., AUGUSTA, GA 30909

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