

MU	TEMPORARY MULCHING
MU?	PERMANENT MULCHING

MULCHING APPLICATION REQUIREMENTS

MATERIAL	RATE	DEPTH
Straw or hay	2 1/2 ton/Acre	6" to 10"
Wood waste, chips, sawdust, bark	6 to 9 ton/Acre	2" to 3"
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	

TS	TEMPORARY SEEDING
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PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	BROADCAST Rates PLS per 1000 SF	RESOURCE	REMARKS
SUDANGRASS			
ALONE	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	NORTH CENTRAL SOUTH	
WHEAT			
ALONE	3 bu. 3.9 lb. (168 lb.)	NORTH CENTRAL SOUTH	
MULTI BROWNTOP (Panicum fasciculatum)			
ALONE	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	NORTH CENTRAL SOUTH	101,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPACTNESS IN MIXTURES IF SEEDS AT HIGH RATES
RYE (Secale cereale)			
ALONE	3 bu. 3.9 lb. (168 lb.)	NORTH CENTRAL SOUTH	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER HARDY
IN MIXTURES	1/2 bu. 0.6 lb. (28 lb.)		
RYEGRASS, ANNUAL (Lolium temeratum)			
ALONE	30 lbs. 0.7 lb.	NORTH CENTRAL SOUTH	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES
COMMON BERMUDAGRASS			
ALONE	10 lbs. 0.25 lb.	NORTH CENTRAL SOUTH	
CRimson CLOVER			
ALONE	10 lbs. 0.25 lb.	NORTH CENTRAL SOUTH	

SOIL PREPARATION
BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF BRUSH, WOODY DEBRIS, STONES AND CLOSERS LARGER THAN 1". APPLY SOIL TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOIL. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A SAND, DO NOT USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS. MIX FERTILIZER INTO SOIL SURFACE BASED ON TABLE BELOW.

Fertilizer Type	Fertilizer Rate (lb/1000 sq ft)	Season
10-10-10	1000	0.025 Fall

INSTALLATION (STEP 1) LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD. ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOIL AND SOD. (STEP 2) THE BUTTING/ANGLE ENDS CAUSE BY THE AUTOMATIC SOD CUTTING MUST BE WEDGED CORRECTLY. (STEP 3) WEDGE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.

LAY SOD IN A STAGGERED PATTERN. BUT THE STRIPS TIGHTLY AGAINST EACH OTHER AND DO NOT OVERLAP.

ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAIN.

MOW WHEN THE SOD IS ESTABLISHED. MOW SET THE MOWER HIGH (2" - 3").

MAINTENANCE
SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF PROJECT IS PREFERRED.

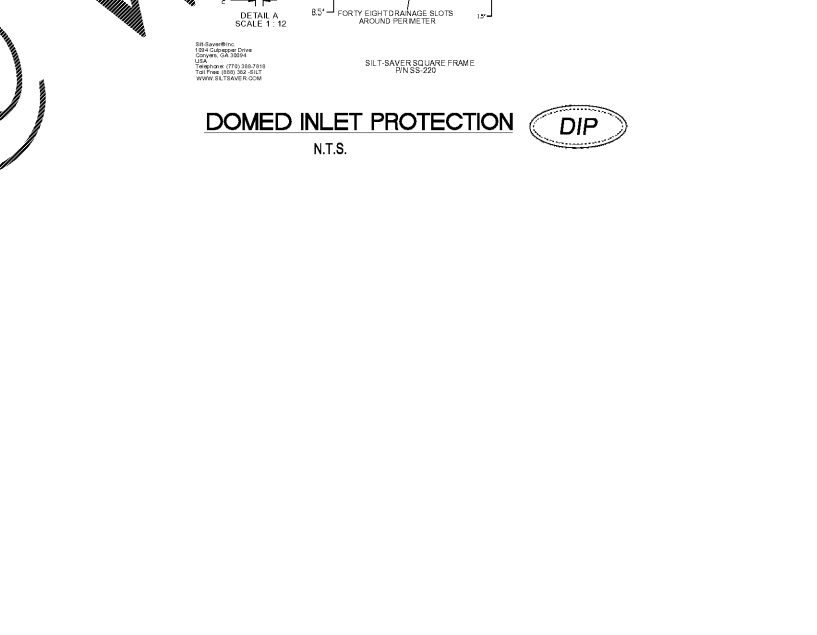
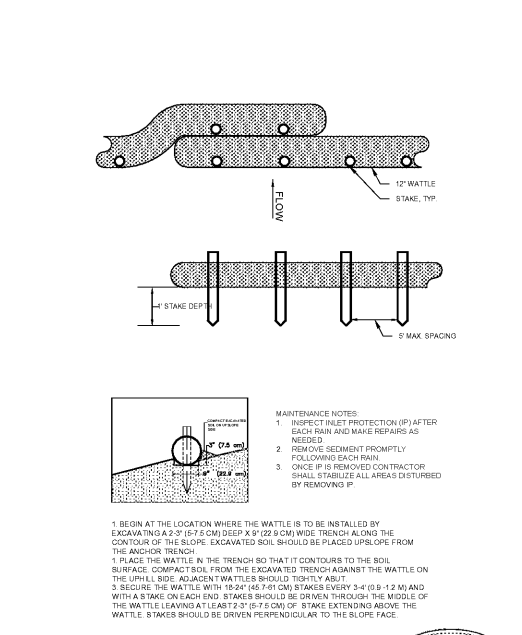
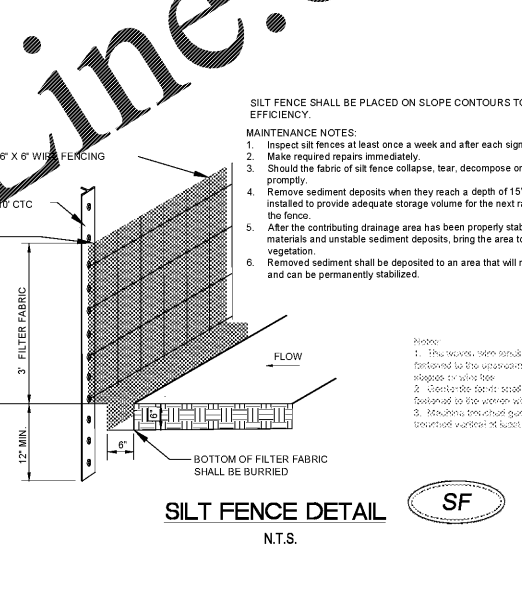
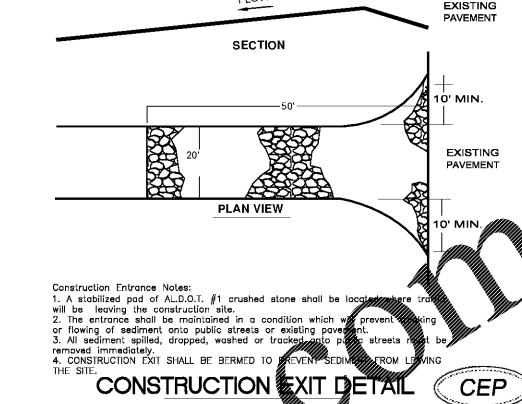
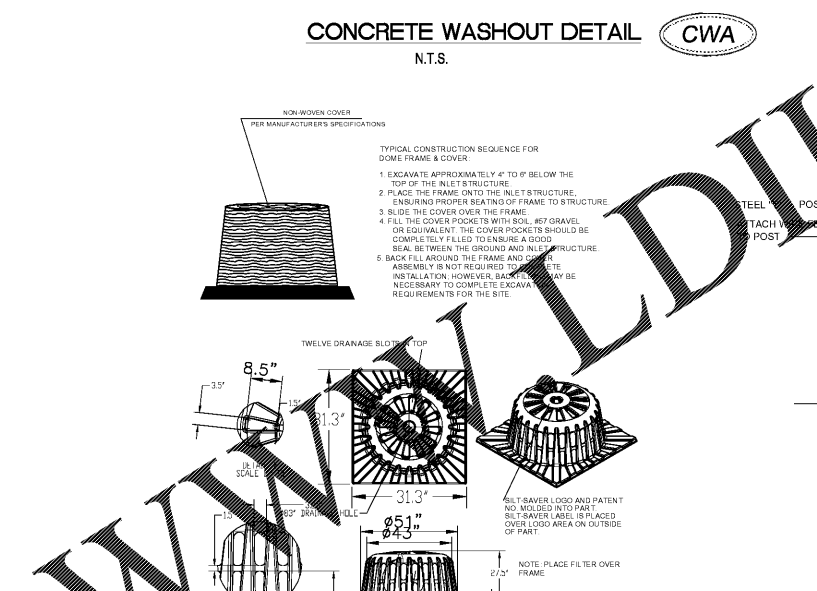
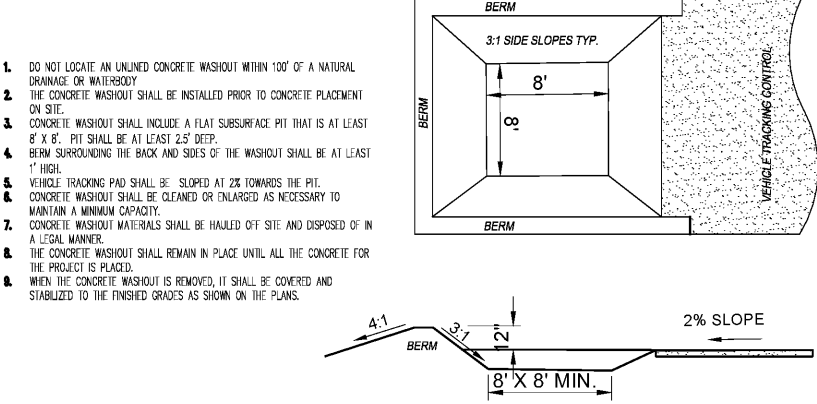
- SOD SHOULD BE MOWED CUT AND CONTAIN 2" - 1 1/2" OF SOIL INCLUDING SOD ROOTS.
- SOD SHOULD BE CUT TO THE DESIRED SIZE WITH A MOWER OR MOWER PRESSURE AND BE INSTALLED.
- SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF MOWING.
- AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR ICE WATER IF IRRIGATION IS AVAILABLE.
- THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INDICATED ACCORDING TO THE PRACTICES BELOW FOR YOUR RESOURCE AREA.

SEEDING (PS)

Construction Specifications:
Timing:
Apply permanent seeding on areas left dormant for 1 year or more.
Apply permanent seeding when no further disturbances are planned.
To determine optimum seeding schedule, consult a local agronomist or erosion control specialist.
Apply permanent seeding before seasonal rains or freezing weather is anticipated.
Use dormant seeding for late fall or winter seeding schedules.
Seed Mixes:
Use seeds appropriate to the season and site conditions.
Consult local agronomist or erosion control specialists for seed mix.
Use a seed blend to include annuals, perennials and legumes.
Use seed rates based on pure live seed (PLS) of 100%. When PLS is below 100% adjust rates accordingly.
Site Preparation:
Bring the planting area to final grade and install the necessary erosion control practices.
Divert concentrated flows away from the seeded area.
Conduct soil test to determine pH and nutrient content. Roughen the soil by harrowing, tracking, grooving or furrowing.
Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.
Prepare a 3-5 inch (76-127 mm) deep seedbed, with the top 3-4 inches (76-102 mm) consisting of topsoil.
The seedbed should be firm but not compact. The top three inches of soil should be loose, moist and free of large clods and stones.
The topsoil surface should be in reasonably close conformity to the lines, grades and cross sections shown on the grading plans.
Planting:
Seed to soil contact is the key to good germination.
Seed should be applied immediately after seedbed preparation while the soil is loose and moist. If the seedbed has been idle long enough for the soil to become compact, the topsoil should be harrowed with a disk, spring tooth drag, spike tooth drag, or other equipment designed to conditions the soil for seeding.
Harrowing, tracking or furrowing should be done horizontally across the face of the slope.
Seed to soil contact is the key to good germination.
Always apply seed before applying mulch.
Apply seed at the rates specified using calibrated seed spreaders, cyclone seeders, mechanical drills, or hydroseeder so the seed is applied uniformly on the site.
Broadcast seed should be incorporated into the soil by raking or chain dragging, and then lightly compacted to provide good seed-soil contact.
Apply fertilizer as specified.
Apply mulch or erosion control blanket, as specified, over the seeded areas. Inspection and Maintenance:
Newly seeded areas need to be inspected frequently to ensure the grass is growing.
If the seeded area is damaged due to runoff, additional stormwater measures may be needed.
Spot seeding can be done on small areas to fill in bare spots where grass did not grow properly.

NOTE: DURING "HIGH FAILURE" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.

- *USE A MINIMUM OF 40 LBS. SCARIFIED SEED, REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.
- *USE EITHER COMMON SERIAL OR INTERSTATE SERICAL ESP/DEZA.
- *ALL AREAS TO BE SEEDS SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 SF. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
- *ALL AREAS SEEDS SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
- *MAINTAIN 1 YEAR MINIMUM.
- *LIME: AGRICULTURAL LIME 1 TON PER ACRE (EXCEPTION ON SANDY SOILS - IF THE COVER WILL BE TALL FESCUE AND CLOVER) USE 2 TONS PER ACRE. DO NOT APPLY LIME TO ALKALINE SOILS.
- *FERTILIZER:
GRASS/ALONE - USE 400 LBS PER ACRE OF 8-24-24 OR EQUIVALENT. APPLY 30 LBS OF ADDITIONAL NITROGEN WHEN GRASS HAS EMERGED AND BEGUN GROWTH (APPROXIMATELY 0.8 LBS/1000 SF).
GRASS-LEGUME MIXTURES: USE 800 TO 1200 LBS/ACRE OF 5-10-10 OR EQUIVALENT.
LEGUME ALONE: USE 800 TO 1200 LBS/ACRE OF 0-10-10 OR EQUIVALENT.



1. DO NOT LOCATE AN UNLINED CONCRETE WASHOUT WITHIN 100' OF A NATURAL DRAINAGE OR WATERBODY.
2. THE CONCRETE WASHOUT SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
3. CONCRETE WASHOUT SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' X 8'. PIT SHALL BE AT LEAST 2.5' DEEP.
4. BERM SURROUNDING THE BACK AND SIDES OF THE WASHOUT SHALL BE AT LEAST 1' HIGH.
5. VEHICLE TRACKING PAD SHALL BE SLOPED AT 2% TOWARDS THE PIT.
6. CONCRETE WASHOUT SHALL BE CLEANED OR ENLARGED AS NECESSARY TO MAINTAIN A MINIMUM CAPACITY.
7. CONCRETE WASHOUT MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED OF IN A LEGAL MANNER.
8. THE CONCRETE WASHOUT SHALL REMAIN IN PLACE UNTIL ALL THE CONCRETE FOR THE PROJECT IS PLACED.
9. WHEN THE CONCRETE WASHOUT IS REMOVED, IT SHALL BE COVERED AND STABILIZED TO THE FINISHED GRADIS AS SHOWN ON THE PLANS.

Construction Entrance Notes:
1. A stabilized pad of ALD.O.T. #1 crushed stone shall be located where the entrance will be leaving the construction site.
2. The entrance shall be maintained in a condition which will prevent the spreading or flowing of sediment onto public streets or existing pavement.
3. All sediment spilled, dropped, washed or tracked onto public streets must be removed immediately.
4. CONSTRUCTION EXIT SHALL BE BERMED TO PREVENT SEDIMENT FROM LEAVING THE SITE.

MANTENANCE NOTES:
1. Inspect silt fences at least once a week and after each significant rain event.
2. Make required repairs immediately.
3. Should the fabric of silt fence collapse, tear, decompose or become ineffective, replace it promptly.
4. Remove sediment deposits when they reach a depth of 15' or 1/2 the height of the fence as installed to provide adequate storage volume for the next rain and to reduce pressure on the fence.
5. After the contributing drainage area has been properly stabilized, remove all barrier materials and unstable sediment deposits, bring the area to grade and stabilize it with vegetation.
6. Removed sediment shall be deposited to an area that will not contribute sediment off-site and can be permanently stabilized.

NOTE: 1. This wattle, when installed, shall be installed to the upstream side of the structure to be protected by the wattle.
2. Check for the specific stake to be used by following the manufacturer's instructions.
3. Maximum stake spacing shall be 6" maximum.

MAINTENANCE NOTES:
1. INSPECT INLET PROTECTION (PI) AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED.
2. REMOVE SEDIMENT PROMPTLY FOLLOWING EACH RAIN.
3. ONCE PI IS REMOVED CONTRACTOR SHALL STABILIZE ALL AREAS DISTURBED BY REMOVING PI.

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2" (51.8 MM) DEEP X 3" (76.2 MM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPPILE SIDE. ADJACENT WATTLES SHOULD TOUCH TIGHTLY.
3. SECURE THE WATTLE WITH 18" (457 MM) STAKES EVERY 2-4 (0.9-1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2" (51.8 MM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.



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RELEASES / DESCRIPTION / DATES	
NOT FOR CONSTRUCTION	<input type="checkbox"/>
RELEASED FOR CONSTRUCTION	<input checked="" type="checkbox"/>
DATE	06.23.2020
DRAWN	T.T.
CHECKED	DAR
APPROVED	H+HA
PROJECT NUMBER	20012.01
SHEET TITLE	EROSION CONTROL DETAILS
DRAWING NO.	C5

