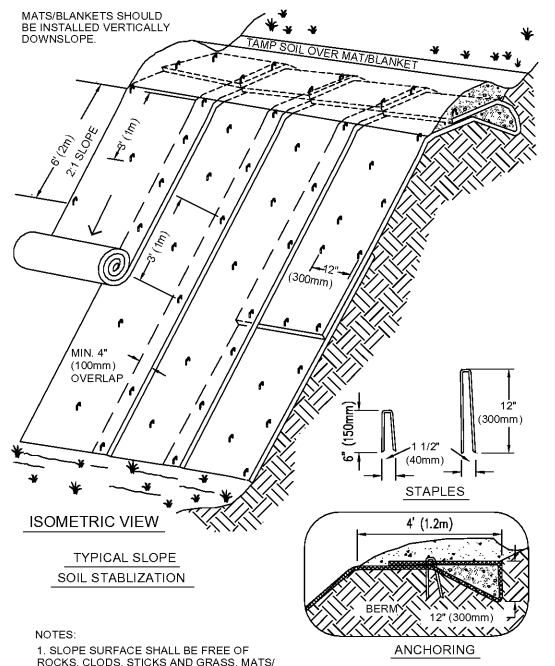
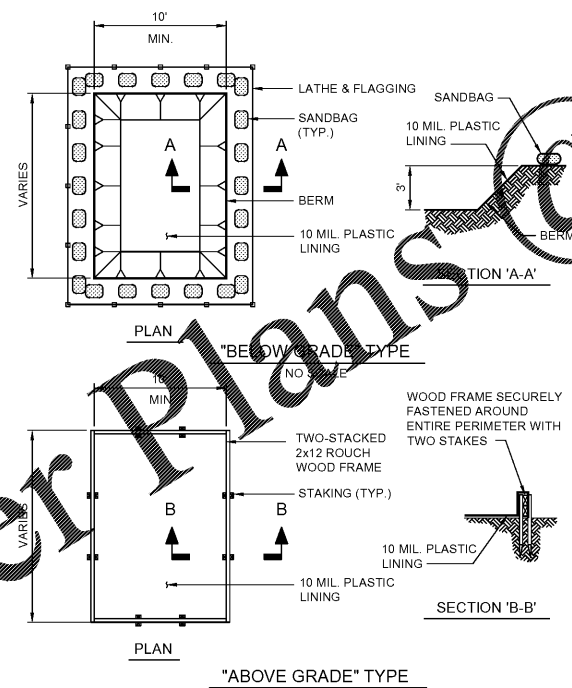


CONSTRUCTION SPECIFICATIONS:

- SITE PREPARATION:**
- * PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
 - * GRADE AND SHAPE AREA OF INSTALLATION.
 - * REMOVE ALL ROCKS, CLODS, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS, OR MATS WILL HAVE DIRECT CONTACT WITH THE SOIL.
 - * PREPARE SEEDBED BY LOOSENING 2-3 INCHES (50.8-76.2 MM) OF TOPSOIL ABOVE FINAL GRADE.
 - * INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
- SEEDING:**
- * SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND RE-VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATION. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEDED.
 - * WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.
 - ANCHORING:** U-SHAPED WIRE STAPLES, METAL GEOTEXTILE STAKE PINS, OR TRIANGULAR WOODEN STAKES CAN BE USED TO ANCHOR MATS TO THE GROUND SURFACE. WIRE STAPLES SHOULD BE A MINIMUM OF 11 GAUGE. METAL STAKE PINS SHOULD BE 3/16 INCH (4.8 MM) DIAMETER STEEL WITH A 1 1/2 INCH (38.1 MM) STEEL WASHER AT THE HEAD OF THE PIN. WIRE STAPLES AND METAL STAKES SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE. ALL ANCHORS SHOULD BE 6-8 INCHES (0.2-0.5 M) LONG AND HAVE SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED FOR LOOSE SOILS.
 - INSTALLATION ON SLOPES:**
 - * BEGIN AT THE TOP OF THE SLOPE AND ANCHOR ITS BLANKET IN A 6 INCH (0.2 M) DEEP X 6 INCH (0.2 M) WIDE TRENCH. BACKFILL TRENCH AND TAMP EARTH FIRMLY.
 - * UNROLL BLANKET DOWNSLOPE IN THE DIRECTION OF THE WATER FLOW.
 - * THE EDGES OF ADJACENT PARALLEL ROLLS MUST BE OVERLAPPED 2-3 INCHES (51-76 MM) AND BE STAPLED EVERY 3 FEET (0.9 M).
 - * WHEN BLANKETS MUST BE SPICED, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH 6 INCH (0.2 M) OVERLAP.
 - * STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12 INCHES (0.3 M) APART.
 - * LAY BLANKETS LOOSELY AND MAINTAIN DIRECT CONTACT WITH THE SOIL - DO NOT STRETCH.
 - * BLANKETS SHALL BE STAPLED SUFFICIENTLY TO ANCHOR BLANKET AND MAINTAIN CONTACT WITH THE SOIL. STAPLES SHALL BE PLACED DOWN THE CENTER AND STAGGERED WITH THE STAPLES PLACED ALONG THE EDGES. STEEP SLOPES, 1:1 TO 2:1, REQUIRE 2 STAPLES PER SQUARE YARD. MODERATE SLOPES, 2:1 TO 3:1, REQUIRE 1-2 STAPLES PER SQUARE YARD (1 STAPLE 3' O.C.). GENTLE SLOPES REQUIRE 1 STAPLE PER SQUARE YARD.
- INSPECTION AND MAINTENANCE:**
- * ALL BLANKET AND MATS SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION.
 - * INSPECT INSTALLATION AFTER SIGNIFICANT RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY.
 - * IF WASHOUT OR BREAKAGE OCCURS, RE-INSTALL THE MATERIAL AFTER REPAIRING THE DAMAGE TO THE SLOPE OR DRAINAGEWAY.



EROSION CONTROL BLANKETS & MATS
NO SCALE



CONCRETE WASTE MANAGEMENT
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:

- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.

FOR ON-SITE WASHOUT:

- 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.
- WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, DRAIN THE WATER TO A BERMED, DIKED OR LEVEL AREA.
- AVOID WASHING SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE TO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.
- TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

MAINTENANCE:

- 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 75% FULL.
- IF USING A TEMPORARY PIT, DISPOSE HARDENED COI ON A REGULAR BASIS. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT SHALL BE BACKFILLED AND REPAIRED.

Plants, Planting Rates, And Planting Dates For Temporary Cover Or Companion Crops

Species	Rates per Acre	Planting Dates
Millet, Browntop (alone)	40 lbs	4/15-8/30
Millet, Browntop (in mixtures)	40 lbs	4/15-8/30
Ryegrass, Annual (alone)	50 lbs	9/1-11/15
Ryegrass, Annual (in mixtures)	8 lbs	9/1-11/15
Rye Grain (alone)	55 lbs	9/7-12/15, 2/1-4/15
Rye Grain (in mixtures)	10 lbs	9/7-12/15, 2/1-4/15
Weeping Lovegrass (alone)	4 lbs	4/7-8/1
Weeping Lovegrass (in mixtures)	2 lbs	4/7-8/1

- Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily.
- Reduce seeding rates by 50% when drilled.
- Unusual site conditions may require heavier seeding rates.
- Seeding rates may need to be altered to fit temperature variations and local conditions.

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	30
Cool season grasses & legumes	First	6-12-12	1500	0-50
	Second Maintenance	0-10-10	400	30
Temporary cover crops seeded alone	First	10/10/10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12	800	50-100

TS TEMPORARY GRASSING

- NOTES:**
- 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.
 - GRASSING WILL BE ACCEPTED WHEN A 100% COVER BY PERMANENT GRASSING IS OBTAINED AND WEEDS ARE NOT DOMINANT.
 - GRASSING OF DISTURBED AREAS WILL CONTINUE A COMPLETION OF EACH PHASE OF CONSTRUCTION OR IN SEQUENTIAL PHASES AS INDICATED. IN ANY CASE, GRASSING OF ANY DISTURBED AREA WILL BEGIN AT EARLIEST POSSIBLE DATE.

Plants, Planting Rates, And Planting Dates For Permanent Cover

Species	Rate per Acre	Planting Dates	Remarks
Bermuda, Common (Hulled seed)	10 lbs 6 lbs	5/15-8/21 5/21-8/31	Quick cover, low growing, sod forming, needs full sun.
Bermuda, Common (Unhulled seed)	10 lbs 6 lbs	10/1-2/28	Plant with Winter annuals.
Bermuda Sprigs	40cu ft Sod plugs 3' x 3'	4/15-6/15	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 Maintenance	6-12-12	1000	30
Cool season grasses & legumes	First	6-12-12	1500	0-50
	Second Maintenance	0-10-10	400	30
Ground covers	First	10-10-10	1300	30
	Maintenance	10-10-10	1100	30
Pine seedlings	First	20-10-5	one 21-grain pellet per seedling	30
Shrub Lespedeza	First	0-10-10	1000	30
	Maintenance	0-10-10	400	30
Temporary cover crops seeded alone	First	10/10/10	500	30
	Maintenance	10/10/10	400	30
Warm season grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12	800	50-100
Warm season grasses & legumes	First	6-12-12	1500	0-50
	Second Maintenance	0-10-10	400	30

PS PERMANENT SEEDING

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

GRASSING FERTILIZATION AND MULCH
NO SCALE

M MULCHING

- MULCHING WILL BE EMPLOYED FOR DISTURBED AREAS LAID BARE FOR MORE THAN 14 DAYS AND NO GREATER THAN 45 DAYS PRIOR TO CONSTRUCTION RECOMMENCEMENT.
- MULCHING & TEMPORARY GRASSING WILL BE EMPLOYED FOR DISTURBED AREAS LAID BARE FOR MORE THAN 45 DAYS AND NO GREATER THAN 180 DAYS PRIOR TO CONSTRUCTION RECOMMENCEMENT.
- TEMPORARY & PERMANENT GRASSING SHALL BE EMPLOYED FOR DISTURBED AREAS LAID BARE FOR MORE THAN 180 DAYS PRIOR TO CONSTRUCTION RECOMMENCEMENT.

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

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PROJECT LOCATION:
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SEAL OF THE STATE OF SOUTH CAROLINA
Professional Engineer
No. 28810
08/26/20
J. LASCHOBER
Professional Engineer

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