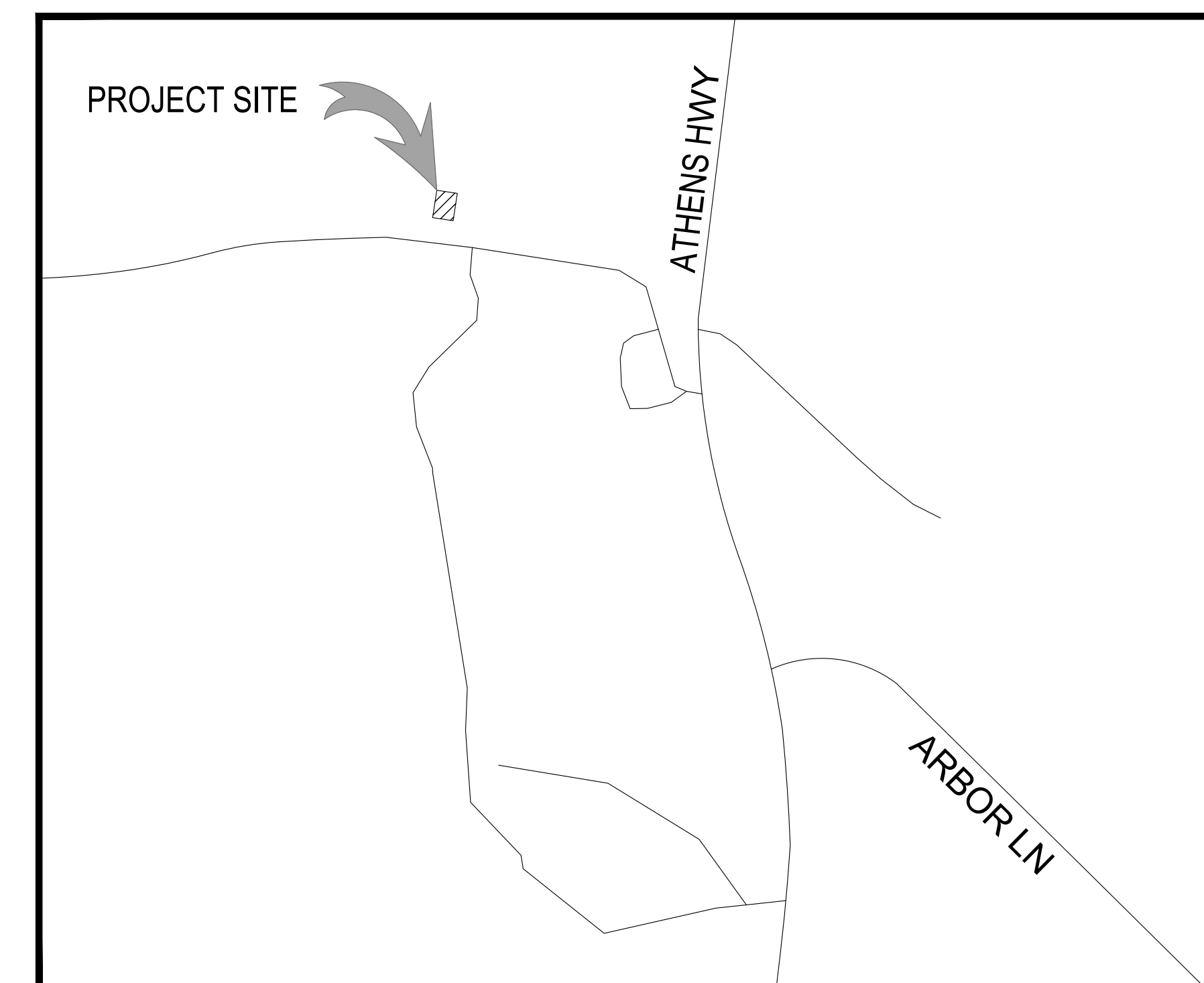


100 0 100 200 300

GRAPHIC SCALE IN FEET
SCALE: 1"=100'



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
01	COVER
02	SITE PLAN
03	GRADING PLAN
04	EROSION AND SEDIMENT CONTROL PLAN
05	EROSION AND SEDIMENT CONTROL DETAILS

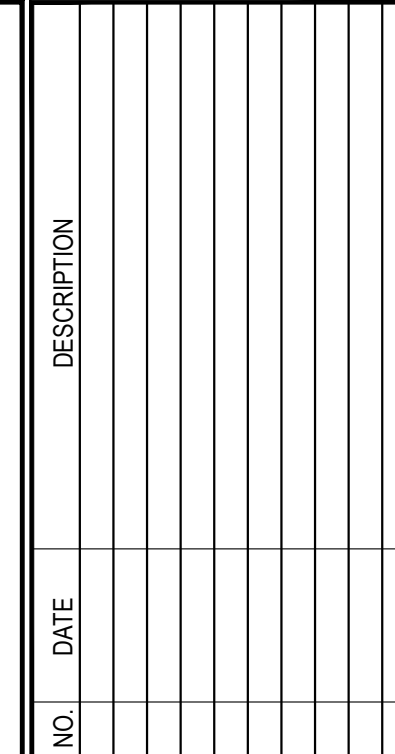
SITE ADDRESS:	ATHENS HWY, 30650
OWNER:	MORGAN COUNTY BOARD OF COMMISSIONERS
PARCEL ID:	026 079
COUNTY	MORGAN COUNTY, GA
ZONING	EXEMPT
TOTAL DISTURBED	10,900 SF (0.25 AC)

MORGAN COUNTY BOARD OF COMMISSIONERS
150 EAST WASHINGTON STREET
MADISON GA 30650

24 HOUR CONTACT:
KEVIN LITTLE
DIRECTOR OF PUBLIC WORKS
706-474-7009
KEVIN.LITTLE@MORGANCOUNTYGA.GOV

ENGINEER:
Aaron Wadley, PE
TERRA VIA ENGINEERING
1727 Greensboro Road
Madison, GA, 30650
Office: 706-3185425
Mobile: 404-326-4522
AARON@TV-ENG.COM

LANDFILL ENGINEER:
ANTHONY C. RODRIGUEZ, P.G.
93 GATEWAY DRIVE | MACON, GEORGIA 31210
PHONE 478.476.0700



DATE:	16/05/2026
DESIGNED BY:	AARON WADLEY
DRAWN BY:	A2ZCE
CHECKED BY:	AARON WADLEY

AVIA

DESIGN
BUILD
MANAGE

CIVIL & TRANSPORTATION ENGINEERING
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1727 GREENSBORO ROAD MADISON GEORGIA 30650

MORGAN COUNTY SORTING FACILITY
MORGAN COUNTY HWY 441 LANDFILL
MADISON, MORGAN COUNTY, GEORGIA
PERMIT NO. 104-007D(SL)

COVER



AARON WADLEY, PE
LEVEL II CERTIFIED
DESIGN PROFESSIONAL
#0000011490
EXPIRES 02-01-2029

SHEET NUMBER:
01 of 05



Know what's below.
Call before you dig.

BASED ON LANDFILL PERMIT DRAWINGS BY TRIPLE POINT ENGINEERING
TOPOGRAPHIC INFORMATION BASED ON LANDFILL PERMIT DRAWINGS AND NOAA LIDAR, CONTRACTOR TO VERIFY ELEVATIONS RELATIVE TO KNOWN FEATURES
CHECKDAM TO REMAIN POST CONSTRUCTION TO FILTER ESCAPED TRASH AND DEBRIS. MORGAN COUNTY TO MONITOR DAILY

1. ALL WORK WILL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, ORDINANCES, AND REQUIREMENTS. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.
2. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER, THE ARCHITECT, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE. ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. THIS WILL INCLUDE ALL STRIPING AND PARKING LOT SIGNAGE.
4. CONTRACTOR SHALL FURNISH AND MAINTAIN ANY AND ALL NECESSARY BARRICADES AROUND THE WORK AND PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
5. ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS.
6. FOR OTHER CONSTRUCTION DETAILS, SEE DETAIL SHEETS.
7. ALL WORK ON-SITE MUST CONFORM TO LOCAL STANDARDS.

8. SITE CONTRACTOR TO VERIFY EXISTING TOPOGRAPHIC AND UTILITY DATA PRIOR TO ANY CONSTRUCTION.
9. PROVIDE BOLLARDS AT LOCATIONS SHOWN, AND AROUND TRANSFORMERS, GAS METERS, AND OTHER UTILITIES IN VULNERABLE TRUCK AREAS.
10. US NOAA LIDAR AND LANDFILL METHANE PLAN UTILIZED FOR TOPOGRAPHIC INFORMATION. GRADES, INCLUDING FFE, MAY NEED TO BE ADJUSTED SLIGHTLY TO MEET FIELD CONDITIONS.

PROPERTY LINE

PROPOSED SWALE

PROPOSED CONCRETE

EXISTING TREELINE

BARRIER FENCE

00'

RECYCLING
BUILDING
60X80

2.00

BOLLARDS (TYP)

BOLLARDS (TYP)

8" CONCRETE APRON, REINFORCED
12"X12" OC #4 REBAR, 12"
TURNDOWN AT EDGES

GWA-1

EXIST GRAVEL

```
· EXIST ASPHALT
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EASTERN BUFFER ZONE

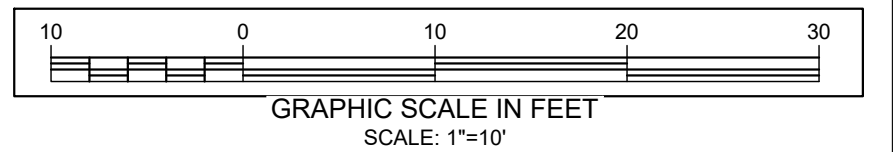
5511
0.00
COR

EASTERN BUFFER ZONE
D.B. 452, p. 597; D.B. 453, p. 12
P.B. 9, p. 54; P.B. 40, p. 109
3.97 ACRES



Know what's **below**.
Call before you dig.

SITE PLAN
SCALE: 1"=10'



DATE:	16/05/2026
DRAWN BY:	AARON WADLEY
CHECKED BY:	AARON WADLEY

TERRANIA

CIVIL & TRANSPORTATION ENGINEERING
706.318.5425 | WWW.TV-ENG.COM
11727 GREENSBORO ROAD MADISON GEORGIA 30650

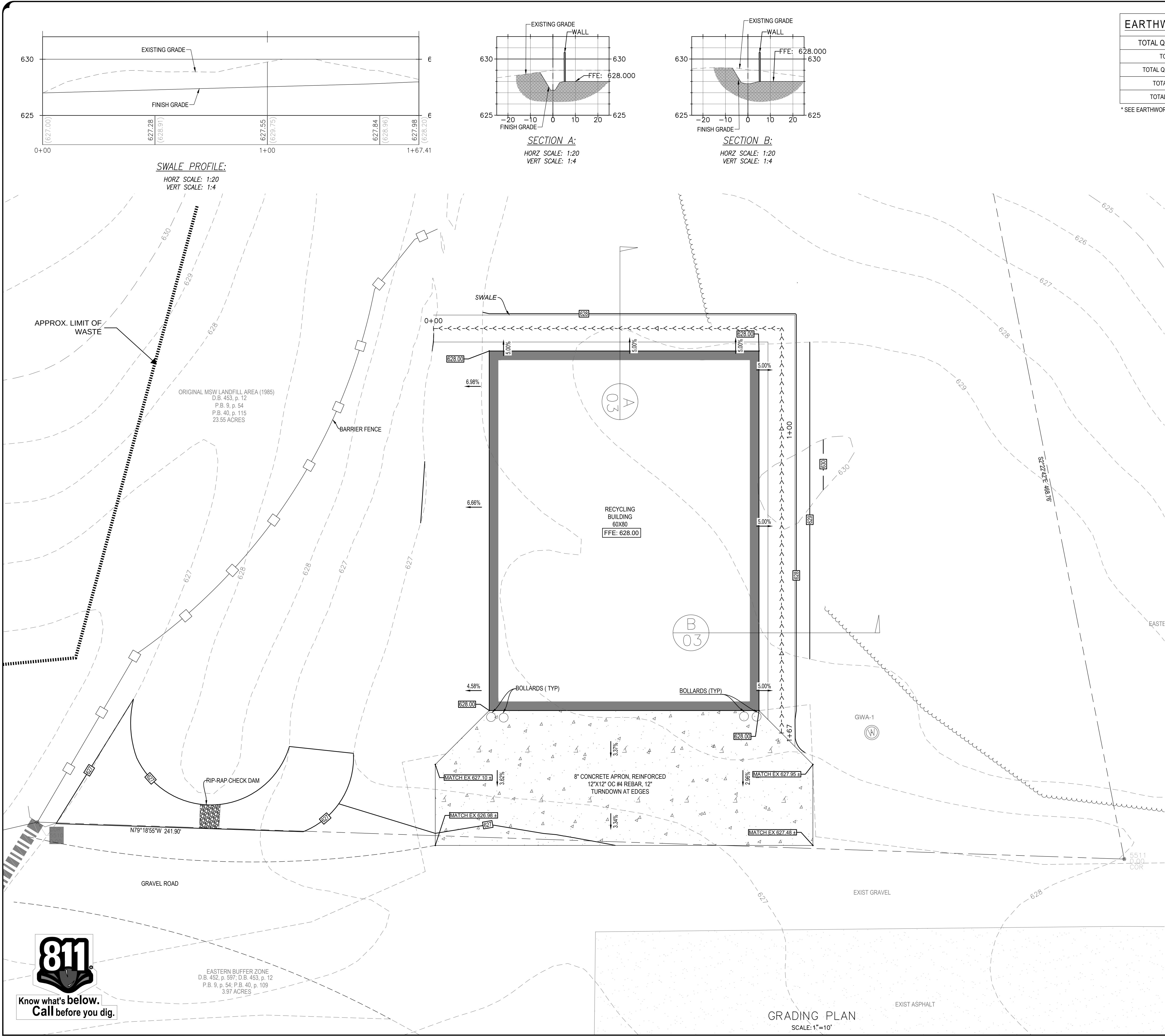
MORGAN COUNTY SORTING FACILITY
MORGAN COUNTY HWY 441 LANDFILL
MADISON, MORGAN COUNTY, GEORGIA
PERMIT NO. 104-007D(SL)

SITE PLAN



HARON WADLEY, PE
LEVEL II CERTIFIED
SIGN PROFESSIONAL
#0000011490
EXPIRES 02-01-2029

02 of 05



EASTERN BUFFER ZONE
D.B. 452, p. 597; D.B. 453, p. 12
P.B. 9, p. 54; P.B. 40, p. 109
3.97 ACRES

ORIGINAL MSW LANDFILL AREA (1985)
D.B. 453, p. 12
P.B. 9, p. 54
P.B. 40, p. 115
23.55 ACRES

EARTHWORK SUMMARY*		
TOTAL QUANTITIES & AREAS	CUT (CY)	FILL (CY)
TOTAL QUANTITY	193.67 ± CY	14.21 ± CY
TOTAL QUANTITY DIFFERENCE	179.45 ± CY NET CUT/FILL (EXPORT/IMPORT)	
TOTAL PROJECT AREA	1,025,838 SF (23.55 AC)	
TOTAL DISTURBED AREA	11,485 SF (0.272 AC)	

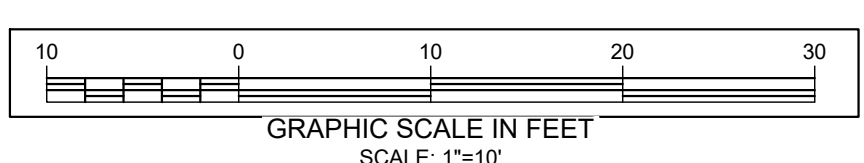
* SEE EARTHWORK SUMMARY NOTES (THIS SHEET)

GRADING AND DRAINAGE NOTES

- CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC DATA, LOCATIONS OF EXISTING UTILITIES, AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER (SEE PLANS).
- ALL FINISHED GRADES SHOWN ARE TO THE TOP OF THE PAVEMENT SECTION OR BOTTOM OF CURB UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CONFINE HIS OFF-SITE ACTIVITIES TO EXISTING RIGHTS OF WAY AND EASEMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL IMPROVEMENTS PER LOCAL COUNTY JURISDICTION SPECIFICATIONS AND REQUIREMENTS. THE CONTRACTOR MUST OBTAIN A COPY OF THE LOCAL STANDARDS PRIOR TO BIDDING THIS PROJECT. IF THESE PLANS ARE FOUND TO BE OUT OF SPEC, THE CONTRACTOR SHALL CEASE WORK IMMEDIATELY AND SHALL NOTIFY THE OWNER WITHIN 24 HOURS.
- CONTRACTOR MUST ENSURE THAT ALL DOWNSTREAM DRAINAGE WAYS ARE CLEAR OF DEBRIS PRIOR TO FINAL INSPECTION BY THE ENGINEER. COORDINATE WITH NEIGHBORS OR APPROPRIATE RIGHT-OF-WAY AUTHORITY PRIOR TO BEGINNING WORK OUTSIDE THE BOUNDARY OF THIS SITE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO OFF-SITE PROPERTIES.

LEGENDS:

- PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- SPOT ELEVATION
- PROPOSED SWALE
- PROPOSED CONCRETE
- EXISTING TREELINE



DESCRIPTION

DATE

NO.

DATE: 16/05/2026

DESIGNED BY: AARON WADLEY

DRAWN BY: A2ZCE

CHECKED BY: AARON WADLEY

DESIGN

BUILD

MANAGE

TERRANIA

CIVIL & TRANSPORTATION ENGINEERING

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1727 GREENSBORO ROAD MADISON GEORGIA 30650

MORGAN COUNTY SORTING FACILITY

MORGAN COUNTY HWY 441 LANDFILL

MADISON, MORGAN COUNTY, GEORGIA

PERMIT NO. 104-007D(SL)

GRADING PLAN

GEORGIA REGISTERED

No. P237241

AARON MICHAEL WADLEY ENGINEER

AARON WADLEY, PE

LEVEL II CERTIFIED

DESIGN PROFESSIONAL

#000011490

EXPIRES 02-01-2029

SHEET NUMBER:

03 of 05

SLOPES OR 4:1 OR GREATER (HORIZONTAL : VERTICAL)

SLOPES SHALL BE HYDROSEEDING WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2,000 LBS./ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY RoLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

GENTLE SLOPE AND FLAT AREAS

AREA SHALL BE SEEDED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS./ACRE. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. AREAS SEEDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PAVED PRIOR TO PLACING MULCH.

AREAS REMAINING DISTURBED FOR 14 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:

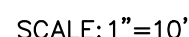
SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS./ACRE. 5-10-10 FERTILIZER IF REQUIRED. SEED WITH SPECIES AND RATE SHOWN BELOW. MULCH WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

<u>SPECIES</u>	<u>APPLICATION RATE</u>
RYEGRASS (ANNUAL OR PERENNIAL)	30 LBS./ACRE
(USE WINTER RYE IF SEEDING IN OCT./NOV.)	(0.7 LBS./1,000 SF)

SEDIMENT STORAGE CALCULATIONS

67 CY X 1.1 ACRES DISTURBED= 73.7 CY ALL
SEDIMENT STORAGE WILL BE PROVIDED BY
LOW AREAS IN THE PERIMETER SILT FENCE .
THESE AREAS ARE TO BE CLEANED OUT
WHEN HALF FULL. ALL CALCULATIONS ARE
BASED ON 1/2 FULL VOLUME.

PERIMETER: 87.22 CY
TOTAL STORAGE: 87.22 CY

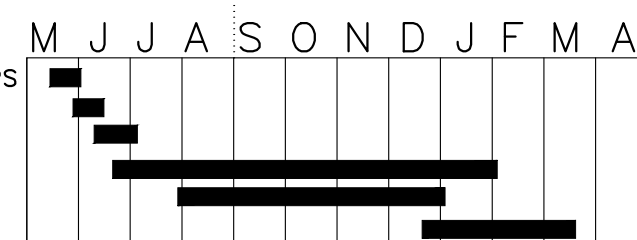


GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL



PROPOSED SCHEDULE

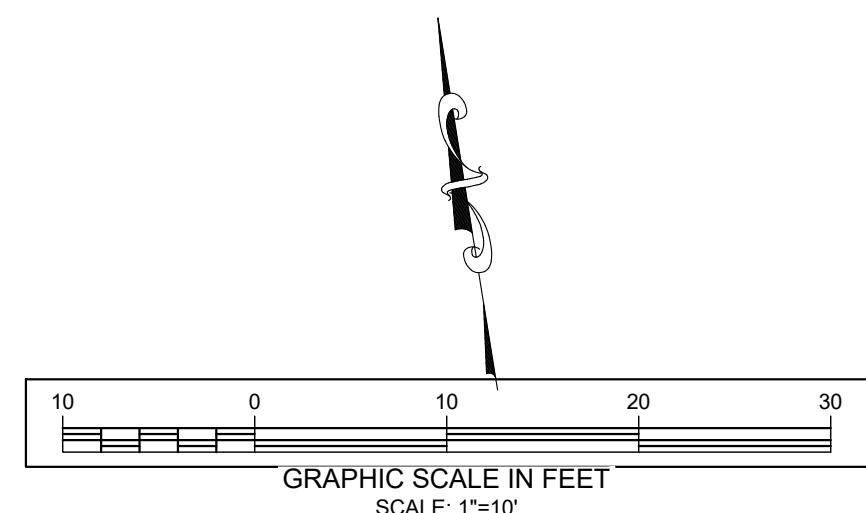
PERIMETER AND SEDIMENT STORAGE BMPS
CLEARING AND GRUBBING
EXCAVATION
UTILITIES AND HOME CONSTRUCTION
TEMPORARY STABILIZATION
FINAL STABILIZATION



1. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND GASPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25- FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
3. NO VARIANCES ARE REQUESTED AT THIS TIME
4. AMENDMENTS/REVISIONS TO THE ES&P PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
5. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
6. FUEL AND PETROLEUM PRODUCTS AND CONTAINERS MAY NOT BE KEPT ON-SITE, EXCEPT DURING ACTIVE WORK. RE-FUELING SHOULD BE PERFORMED SAFELY AND AVOID SPILLING OR OVER-TOPPING. IF ANY FUEL IS SPILLED, THE AFFECTED SOIL MUST BE REMOVED AND DISPOSED OF IN AN APPROPRIATE MANNER.
7. ALL DISTURBED AREAS THAT HAVE NOT BEEN VEGETATED WITH PERENNIAL GRASS WILL BE SOODED UPON FINAL COMPLETION TO MINIMIZE AND CONTROL FUTURE POLLUTANTS INTO THE RECEIVING WATERS.
8. POTENTIAL POLLUTANT SOURCES INCLUDE, BUT ARE NOT LIMITED TO: PORTABLE TOILET, FUEL, FERTILIZER, CONCRETE WASHOUT, PESTICIDE, AND VARIOUS CHEMICALS USED IN CONSTRUCTION AND CLEANING. THESE SHOULD NEVER BE LEFT UNATTENDED AND NEVER USED IN A LOCATION THAT COULD DIRECTLY IMPACT A STATE WATER. A DOUBLE ROW, TYPE C SILT FENCE IS BEING UTILIZED TO CAPTURE ANY SOIL. EXISTING GRASSING SHOULD BE CUT HIGH TO FURTHER CAPTURE ANY POLLUTANTS.
9. ALL CONSTRUCTION AND LANDSCAPE MATERIAL MUST REMAIN COVERED WHEN NOT IN ACTIVE USE. IF PLASTIC OR OTHER LIGHTWEIGHT MATERIAL IS USED, IT MUST BE WEIGHED DOWN OR STRAPPED.



1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR, STREETS SHALL BE CLEANED DAILY.
2. INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS.
3. SEDIMENT AND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. PREVIOUS EARTHWORK SHALL BE STABILIZED AS SPECIFIED BEFORE ADDITIONAL AREA IS EXPOSED.
4. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. REMOVE TOPSOIL FROM EXISTING PLYWALKS, PLYWALKS COVERED WITH SPECIFIED BELOW (SEE NOTE 8), AND ERECT A SILT FENCE AROUND THE STOCKPILE.
5. PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS.
6. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED FINISH.
7. INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
8. TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR MORE THAN 14 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION FOR VEGETATIVE ESTABLISHMENT.
9. IF CONSTRUCTION IS SUSPENDED OR COMPLETED, ALL DISTURBED AREAS SHALL BE SEEDDED AND MULCHED IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (1/3) SHALL BE REINFORCED WITH TEMPORARY EMBANKMENTS SHALL ON COMPLETION BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING.
10. AFTER COMPLETION OF SITE CONSTRUCTION, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR FOR VEGETATIVE ESTABLISHMENT ON THIS SHEET.
11. DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
12. AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED, REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
13. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
14. STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER.
15. DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION.
16. AFTER CONSTRUCTION IS COMPLETED, PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.



DESCRIPTION	DATE	NO.	
	16/05/2026		
DESIGNED BY:	AARON WADLEY		
DRAWN BY:	A22CF		
CHECKED BY:	AARON WADLEY		

TERRANIA

DESIGN
BUILD
MANAGE

CIVIL & TRANSPORTATION ENGINEERING
706.318.5425 | WWW.TV-ENG.COM
1727 GREENSBORO ROAD MADISON, GEORGIA 30650

MORGAN COUNTY SORTING FACILITY

MORGAN COUNTY HWY 441 LANDFILL
MADISON, MORGAN COUNTY, GEORGIA

EROSION AND SEDIMENT CONTROL PLAN

PERMIT NO. 104-007D(SL)

AARON WADLEY, PE
LEVEL I CERTIFIED
DESIGN PROFESSIONAL
#0000011490
EXPIRES 02-01-2029

SHEET NUMBER:

04 of 05

DEFINITION

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

CONDITIONS

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 an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

SPECIFICATIONS

MULCHING WITHOUT SEEDING

This standard applies to grades 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

- Grade to permit the use of equipment for applying and anchoring mulch.
- Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
- 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.



DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

ESTABLISHING TEMPORARY VEGETATIVE COVER WITH QUICK GROWING GROUND COVER ON DISTURBED OR BARE LAND



ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH

SITE PREPARATION

- GRADING AND SHAPING
- SEEDBED PREPARATION
- APPLY LIME AND FERTILIZER
- PLANT SEEDING, AS SPECIFIED BY REGION AND SEASON
- APPLY MULCHING MATERIAL IF NEEDED
- IRRIGATE IF NEEDED WITHOUT CAUSING EROSION

- * PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL.)

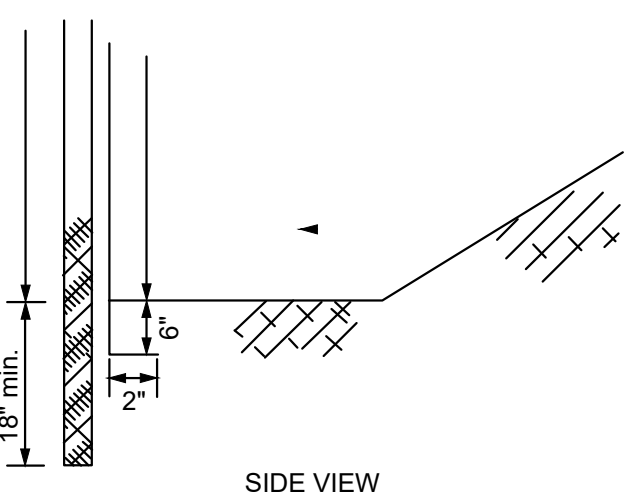
* ALL SEEDING NUMBERS ARE ALONE FOR MIXTURE NUMBER SEE MANUAL FOR EROSION AND SEDIMENT TABLE 6-24.1 PAGES 6-134 - 6-136

^ UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.

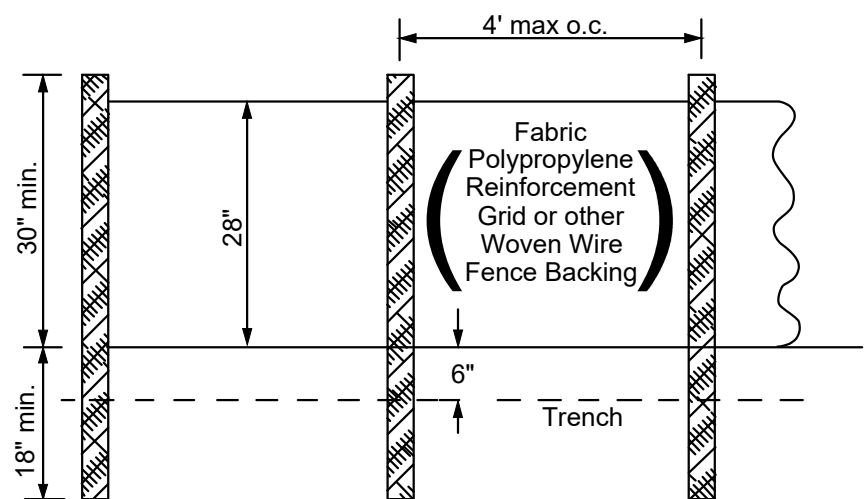
SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

TEMPORARY SEEDING DETAIL

NTS



SIDE VIEW



FRONT VIEW

SILT FENCE - TYPE C-POP

NTS

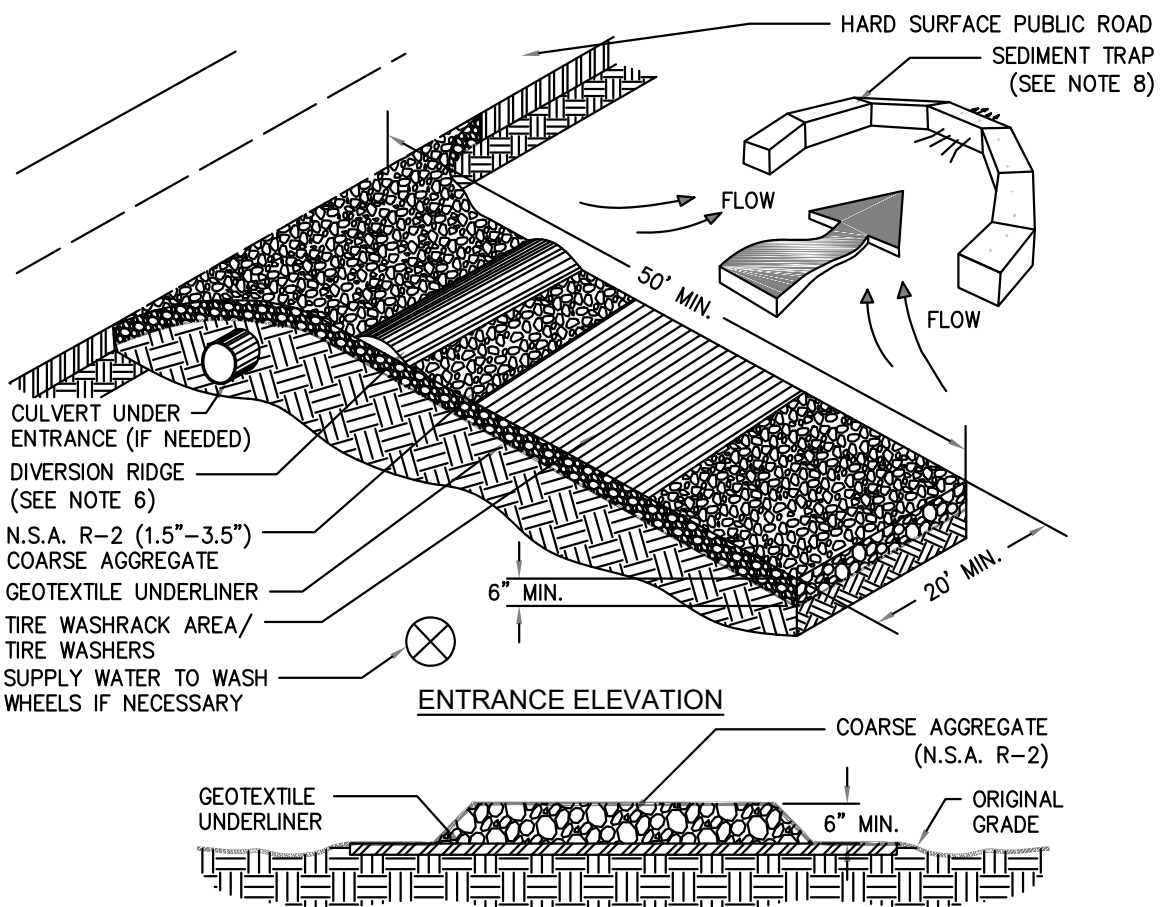


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CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND GROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2X.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Figure 6-14.1

MAINTENANCE

The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

DEFINITION

The establishment of temporary vegetative cover with fast growing seedlings for seasonal protection on disturbed or denuded areas.

CONDITIONS

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq. ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15
Wheat	4.1 pounds	3 bu.	9/15-2/1

* Unusual site conditions may require heavier seedling rates
** Seeding dates may need to be altered to fit temperature variations and conditions.

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.

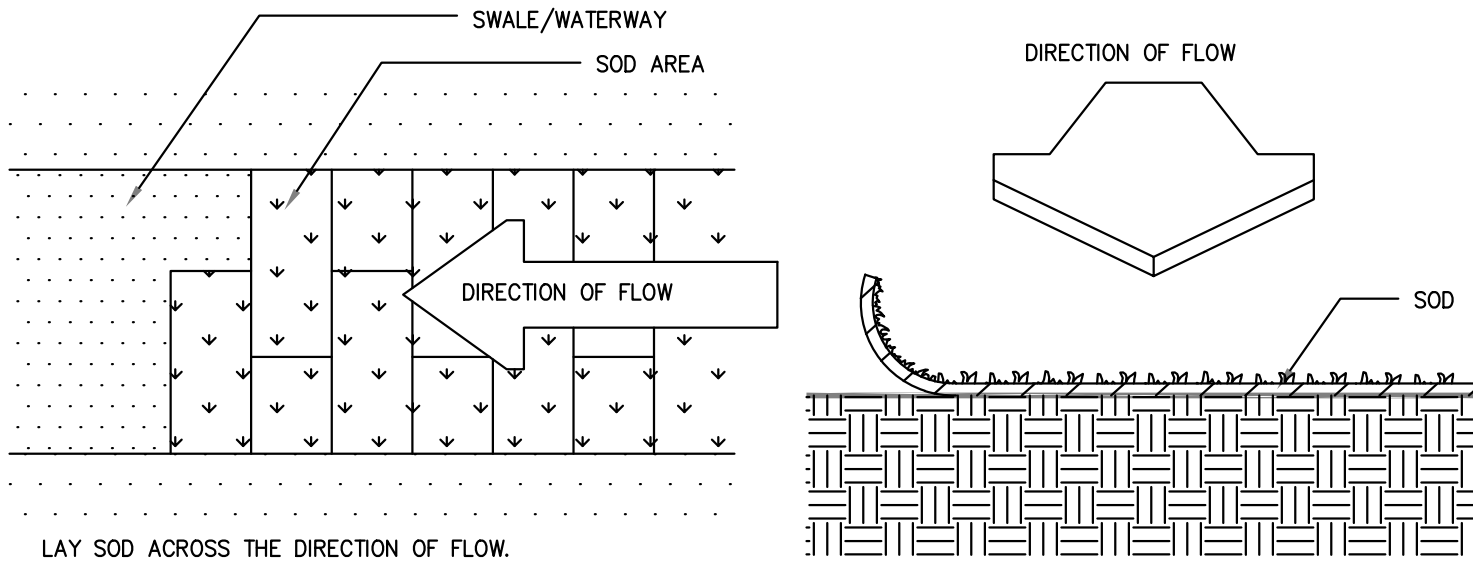


DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

SODDED WATERWAYS

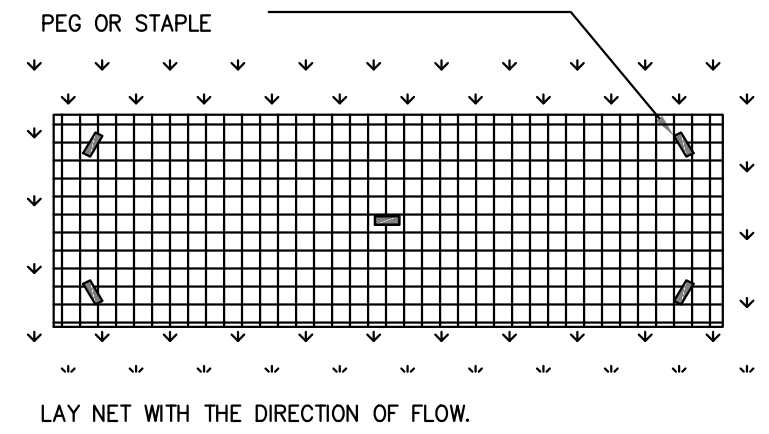
SOD DIRECTIONS

Ds4



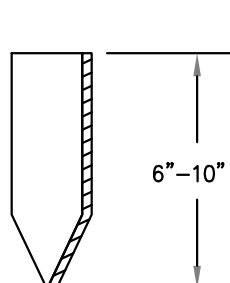
LAY SOD ACROSS THE DIRECTION OF FLOW.

NETTING DIRECTIONS



LAY NET WITH THE DIRECTION OF FLOW.

PEG DETAIL



IN CRITICAL AREAS, SECURE SOD WITH NETTING USING STAPLES.

USE PEGS OR STAPLES TO FASTEN SOD FIRMLY --- AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or handseeding, seedbed preparation should be considered for short term protection. The soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.



DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep prior to planting. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

Planting

Hydraulic Seeding

Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding

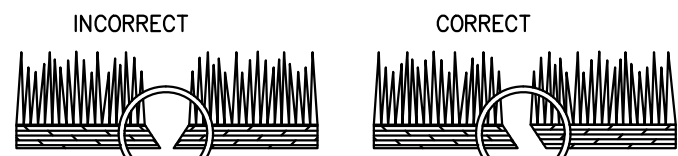
No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. 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.

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

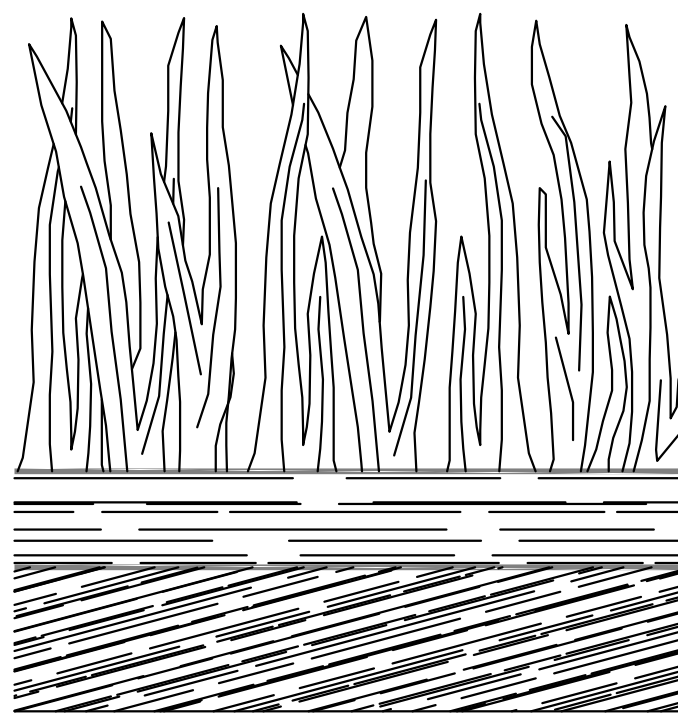
DIRECTIONS FOR INITIAL MAINTENANCE

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



SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

DESIGN
BUILD
MANAGE

TERRANIA

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MORGAN COUNTY SORTING FACILITY

MORGAN COUNTY HWY 441 LANDFILL
MADISON, MORGAN COUNTY, GEORGIA
PERMIT NO. 104-007D(S/L)

EROSION AND SEDIMENT CONTROL
DETAILS

REGISTERED
PE
NO. 12731
PROFESSIONAL
ENGINEER
AARON MICHAEL WADLEY

AARON WADLEY, PE
LEVEL II CERTIFIED
DESIGN PROFESSIONAL
#000011490
EXPIRES 02-01-2029

SHEET NUMBER:
05 of 05