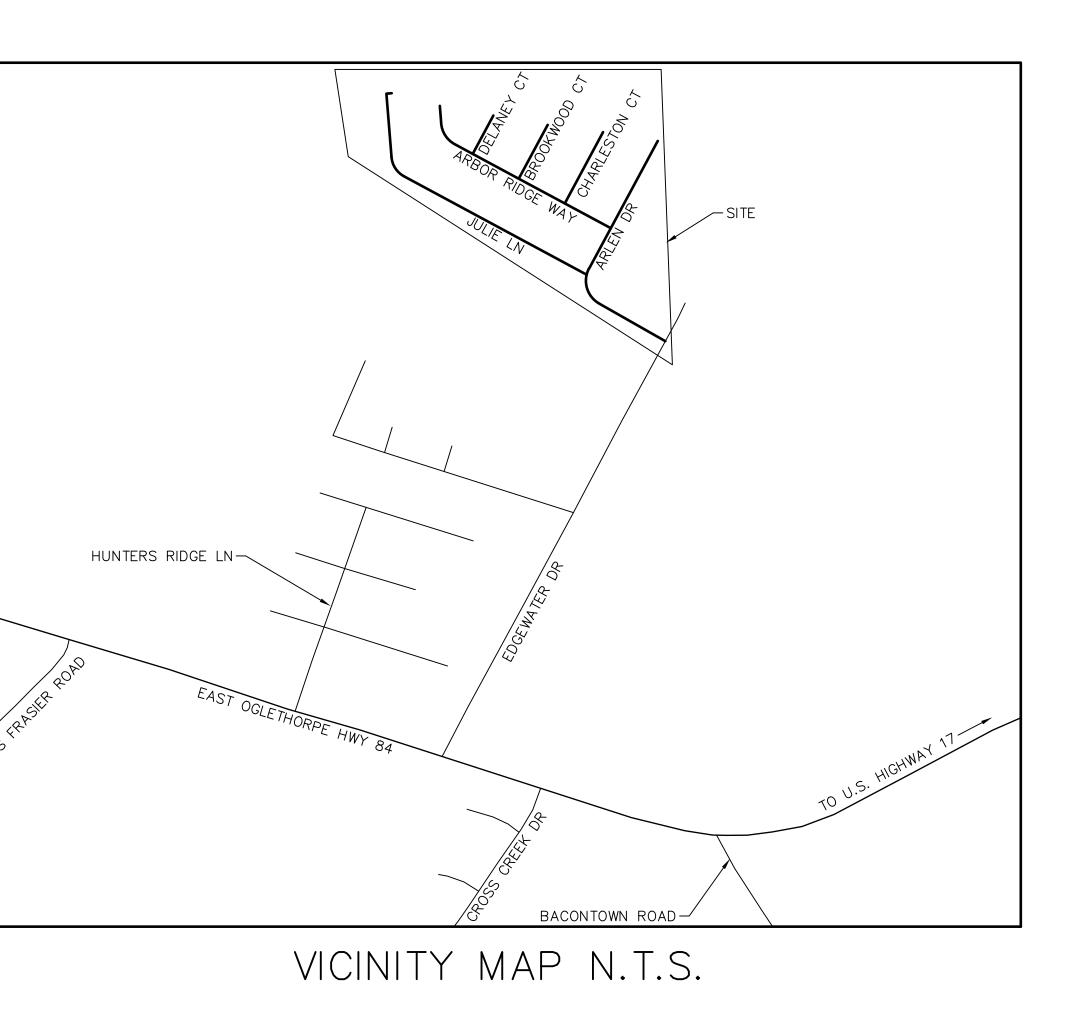
ARLEN OAKS S/D SIDEWALK IMPROVEMENTS FOR CITY OF MIDWAY

OWNER CITY OF MIDWAY P.O. BOX 125 MIDWAY, GEORGIA 31320 (912)884-3344

24-HOUR CONTACT MAYOR LEVERN CLANCY (912)884-3344

CIVIL ENGINEERING PLANS SHEET C1.1 SHEET C1.2 SHEET C2.1

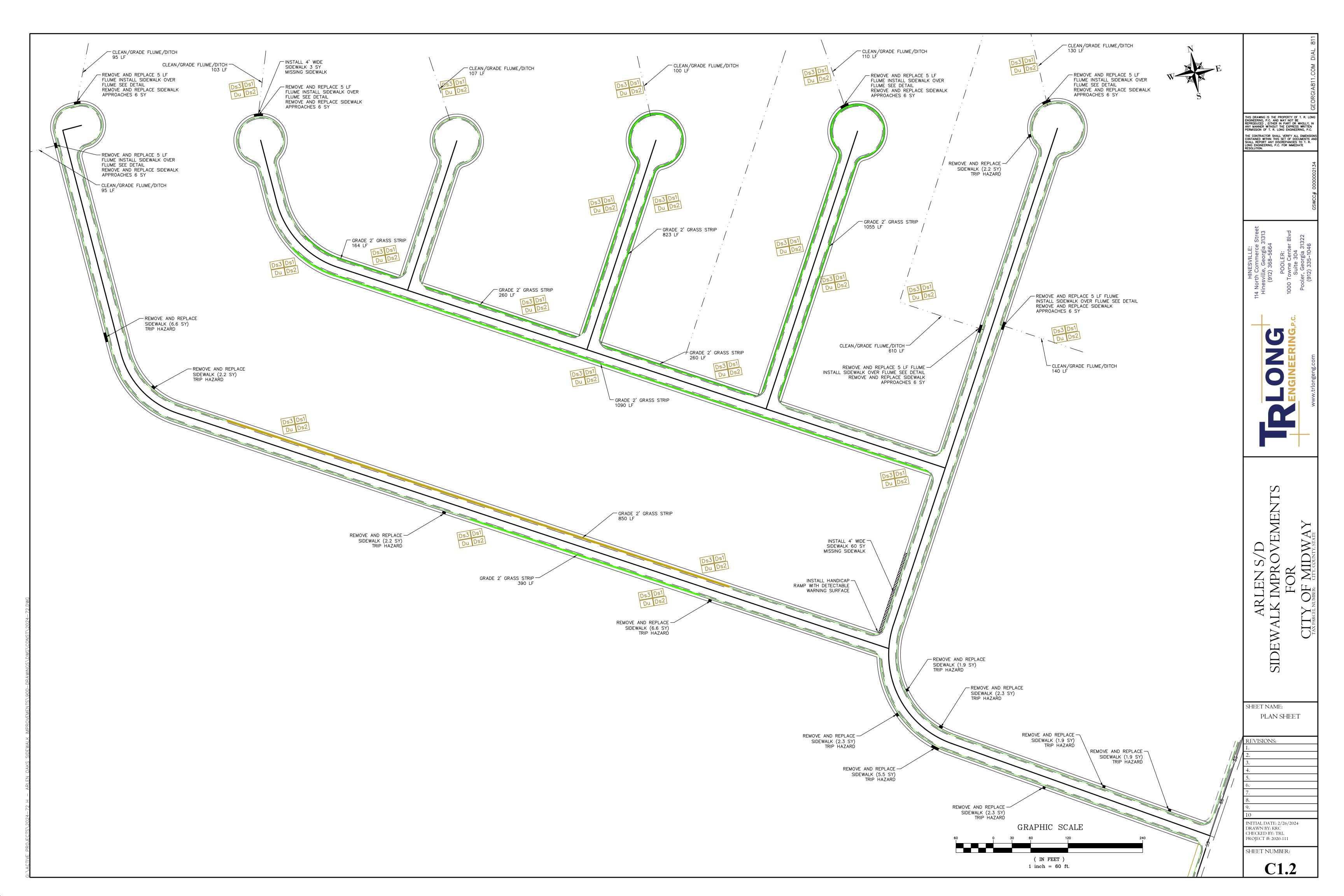
TITLE SHEET PLAN SHEET DETAILS

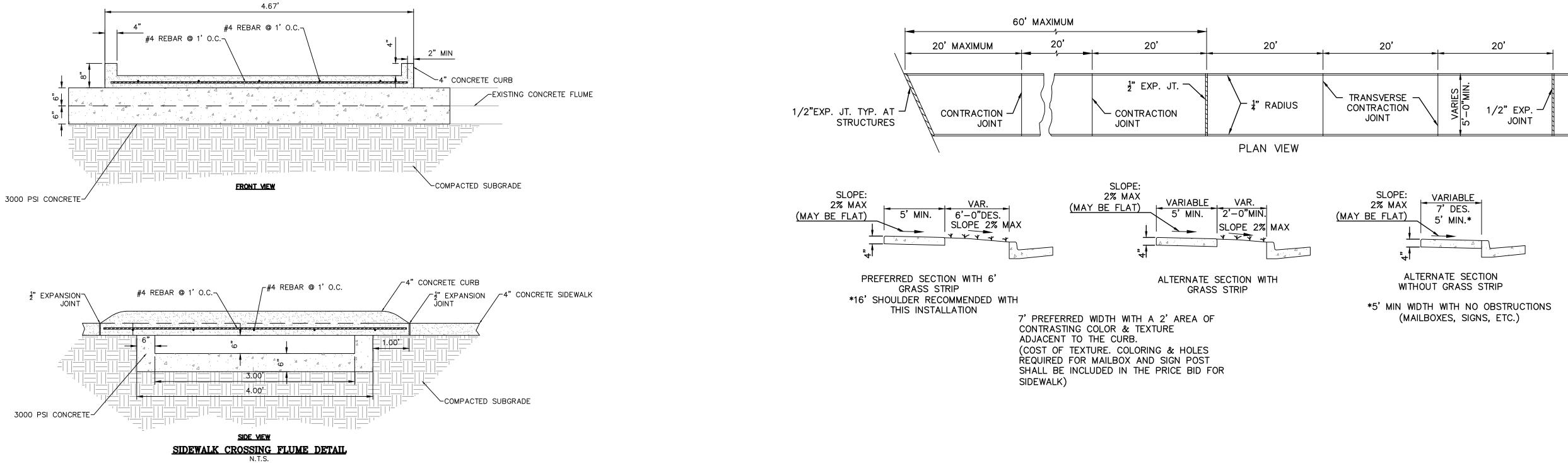


LOCATION: N31° 47' 51.70", W81° 24' 30.53" (31.797695, -81.408482) DISTURBED ACREAGE: 0.19 AC. TOTAL SITE ACREAGE: 30.50 AC.

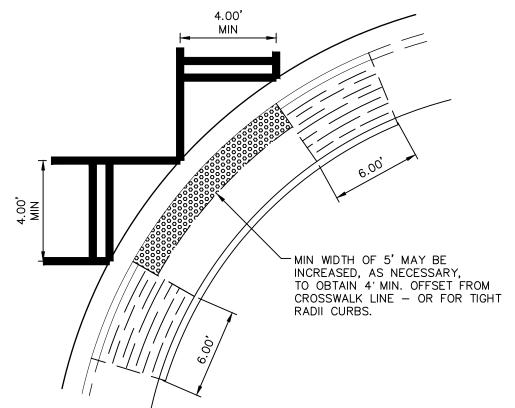
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	GSWCC# 0000002134
HINESVILLE: 114 North Commerce Street Hinesville, Georgia 31313 (912) 368-5664 POOLER: 1000 Towne Center Blvd Suite 304 Pooler, Georgia 31322	(912) 335-1046
	www.trlongeng.com
ARLEN S/D SIDEWALK IMPROVEMENTS FOR	TAX PARCEL NUMBER: CITY, COUNTY, STATE
SHEET NAME: COVER SHEET	
REVISIONS: I. 2. 3. 4. 5.	
6. 7. 8. 9. IO	
INITIAL DATE: 2/26/2024 DRAWN BY: KRC CHECKED BY: TRL PROJECT #: 2020-111 SHEET NUMBER:	
C1.1	

DRAWING LEGEND						
DESCRIPTION	PROPOSED	EXISTING				
RIGHT OF WAY	——————————————————————————————————————					
EDGE OF PAVEMENT						
DITCH CENTERLINE	· · · · · ·	· · · · · ·				
SANITARY SEWER						
WATER LINE	10"W	— — —10"₩— — —				
FORCE MAIN	FM ——	——— FM———				
UNDERGROUND GAS LINE	8"G	8"G				
CONTOURS	81					
STORM DRAINAGE PIPE		====				
ELEVATION	- - FG: 78.15	X 81.90				
SILT FENCE NON-SENSITIVE	Sd1-NS					
SILT FENCE SENSITIVE	(Sd1-S)					
INLET PROTECTION	(Sd2-F)					
CHECK DAM- HAY BALE	Cd-Hb					
CHECK DAM – RIP RAP	Cd-Rp					
CONSTRUCTION EXIT	C 0					
STORM OUTLET PROTECTION	St					
SILT FENCE	>>>> >>>> >>>>					
MULCHING	Ds1					
TEMPORARY GRASSING	Ds2					
PERMANENT GRASSING	Ds3					
FIRE HYDRANT						
SEWER MANHOLE		S S S S S S S S S S S S S S				
WATER VALVE	w M	wv W				
DRAINAGE FLOW	$ \rightarrow $	$ $ \Rightarrow				
WATER METER		\bowtie				
BENCHMARK	\bullet	•				
WELL	W	I				
GUY POLE		- •				
IRON PIN	SET OI.P.S	FOUND OI.P.F				
TELEPHONE PEDESTAL		TEL				
POWER POLE	വ	ص				

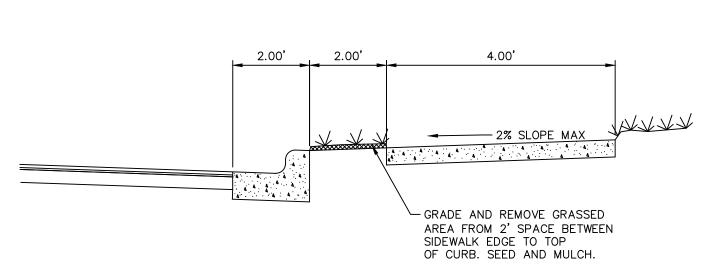




CONCRETE SIDEWALK DETAILS



HANDICAP RAMP DETAIL N.T.S.



<u>GRASS STRIP GRADING DETAIL</u> N.T.S.

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C2.1

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.

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.

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

HYDRAULIC SEEDING

PLANTING

SEPTEMBER.

- 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 ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR
- 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
- 2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT. 3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE. 4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN
- 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

BROADCAST PLANTINGS

WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS. SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET.

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.

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, SPECIFICATIONS

FILLS, DAMS, AND OTHER DENUDED AREAS.

FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

FURROWS, OR DIBBLE PLANTING.

NOT TO SCALE

MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS. 6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCHING IS NOT REQUIRED.

4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE. 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3" FOR BEDDING PURPOSES, OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITIES

3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OF WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES GREATER THAN 3/4.1 OR STEEPER

- ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE. 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT A RATE OF 500 LBS PER ACRE. DRY STRAW R DRY HAY SHALL BE APPLIED AFTER HYDRAULIC SEEDING.
- MULCHING: MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCHING APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER
- SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.

APPLICATION RATE FOR EACH TYPE OF SOIL ENCOUNTERED ON THE SITE.

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

TO MANUFACTURER'S SPECIFICATIONS. SIZE OF THE WOOD WASTE CHIPS. 3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

BINDERS AND HYDRAULIC MULCH WITH TACKIFIERS SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULISFIED ASPHALT. PLEASE REFER TO SPECIFICATION TACKIFIERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING 2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE

ANCHORING MULCH 1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS,

3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.

APPLYING MULCH WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA. 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.

2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT

AND REUSED.

COSTS 3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED

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

2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR

SITE PREPARATION 1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. 2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS. 3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

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.

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.

3. TO PREVENT SURFACE COMPACTION OR CRUSTING 4. TO CONTROL UNDESIRABLE VEGETATION 5. TO INCREASE BIOLOGICAL ACTIVITY IN THE SOIL.

1. TO REDUCE RUNOFF EROSION . TO CONSERVE MOISTURE

REQUIREMENT FOR REGULATORY COMPLIANCE

APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

DEFINITION

MULCHING MATERIALS

EASY APPLICATION.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

4. TO IMPROVE AESTHETICS

REQUIREMENT FOR REGULATORY COMPLIANCE: MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTUR- BANCE. CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS I THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEM BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APP CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

CONDITIONS

SPECIFICATIONS

GRADING AND SHAPING EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTIC DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STA HYDRAULIC SEEDING EQUIPMENT IS TO BE USED. SEEDBED PREPARATION

LIME AND FERTILIZER

SEEDING

MULCHING

IRRIGATION

NDIVIDUAL PLANTS BE SET IN THE HOLE.

APPLYING MULCH

COVER 75% OF THE SOIL SURFACE.

AFTER HYDRAULIC SEEDING.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DEFINITION: THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION

PURPOSE: 1. TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF DOWN STREAM RESOURCES TO PROTECT THE SOIL SURFACE FROM EROSION

. TO IMPROVE WILDLIFE HABITAT

5. TO IMPROVE TILTH, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FO VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECT TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISH

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAN REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRE A PLACE FOR SEED TO LODGE AND GERMINATE.

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVA SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, I

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER), DRILL OR PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED D TO COVER SEED WITH SOIL IF SEEDED BY HAND.

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

GRASSING TEMPORARY

NOT TO SCALE

SPECIES	RATE PER 1,000 SQ.FT.	RATE PER ACRE.*	PLANTING DATES**		
RYE	3.9 LBS. 3 BU		9/1 – 3/1		
RYE GRASS	0.9 LBS.	40 LBS.	8/15 - 4/1		
ANNUAL LESPEDEZA	0.9 LBS.	40 LBS.	1/15 -9/15		
WEEPING LOVEGRASS	0.1 LBS.	4 LBS.	2/15 - 6/15		
SUNDANGRASS	1.4 LBS.	60 LBS.	3/1 – 8/1		
BROWN MILLET	0.9 LBS.	40 LBS.	4/1 - 7/15		
WHEAT	4.1 LBS.	3 BU	9/15 - 2/1		
 UNUSUAL SITE CONDTIONS MAY REQUIRE HEAVIER SEEDING RATES. ** SEEDING DATES MAY NEED TO BE ALTERED TO FIT 					

TMPERA

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

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED: 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 ½ TONS PER ACRE. 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) 3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER

SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES. IN DITCHES OR DRY WATERWAYS TO

PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

1. EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT.

THE COMBINATION F ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.

CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.

2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK." OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. 3. SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY

AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO TB-TACKIFIERS AND BINDERS. 4. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE HALF BUSHEL PER ACRE.

5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

									2 2 2
	DU DUST CONTROL ON DISTURBED AREAS								
N ON DISTURBED OR D	DENUDED AREAS.			AND AIR MOVEMENT OF D	JST ON CONST	RUCTION SITES, ROA	DS, AND DEMOLI	TION SITES.	
			<u>CONDITIONS</u> THIS PRACTICE IS APP TREATMENT.	LICABLE TO AREAS SUBJEC	T TO SURFACE	AND AIR MOVEMENT	OF DUST WHER	ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT	GEORGIA 811 COM
			METHOD AND MATERIA	<u>LS</u>					
E. TEMPORARY GRASSI			MULCHES. SEE STA	REFER TO STANDARD TB-T.	EA STABILIZATI ACKIFIERS AND	ON (WITH MULCHING BINDERS. RESINS S	ONLY). SYNTHET UCH AS CURASOI	IC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND OR TERRATACK SHOULD BE USED ACCORDING TO	THIS DRAWING IS THE PROPERTY OF T. R. LONG ENGINEERING, P.C. AND MAY NOT BE REPRODUCED, EITHER IN PART OR WHOLLY, IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION OF T. R. LONG ENGINEFERING, P.C.
S EXPECTED TO BE UN EMPORARY GRASSING PPROPRIATE DEPTH, A	IS LACKING, MUL	.CH CAN		. SEE STANDARD DS2- DIS	TURBED AREA	STABILIZATION (WITH	TEMPORARY SEI	EDING)	PERMISSION OF T. R. LONG ENGINEERING, P.C. THE CONTRACTOR SHALL VERIFY ALL DIMENSION CONTAINED WITHIN THIS SET OF DOCUMENTS AN SHALL REPORT ANY DISCREPANCIES TO T. R. LONG ENGINEERING, P.C. FOR IMMEDIATE
			 SPRAY-ON ADHESI TB-TACKIFIERS AN 		MINERAL SOILS	(NOT EFFECTIVE ON	I MUCK SOILS) K	EEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD	LONG ENGINEERING, P.C. FOR IMMEDIATE RESOLUTION.
OR LESS THAN SIX MO CTIVE STABILIZATION. M SHED.	ONTHS. TEMPORA MOST TYPES OF	\RY	WIND EROSION STA		NDWARD SIDE (OF SITE. CHISEL-TYP	PE PLOWS SPACE	N EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE D ABOUT 12 INCHES APART, SPRING—TOOTHED HARROWS,	
								ATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.	
TICES SUCH AS CLOSE TABILIZED BY HAND-S			 BARRIERS. SOLID E CURRENTS AND SC EFFECTIVE IN CONT 						
ANDSEEDING, SEEDBED		S NOT		. APPLY AT RATE THAT WIL	L KEEP SURFA	CE MOIST. MAY NEE	D RETREATMENT.		
RENCHED OR OTHERWI						REA STABILIZATION (WITH PERMANEN	VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY	Street 1313 Blvd
				PROTECTION IF LEFT IN PL ENTAILS COVERING THE SUR		S EROSIVE SOIL MA	TERIAL. SEE STAN	IDARD TP-TOPSOILING.	E: F: 564 564 564 564 564 1313 1313 146
OF ONE TON PER AC LE SOILS OR SOIL MA /ALENT PER ACRE (12	TERIAL, FERTILIZE	ER IS	• STONE. COVER SUF	RFACE WITH CRUSHED STON	E OR COARSE	GRAVEL. SEE STAND	ARD CR-CONSTR	UCTION ROAD STABILIZATION.	HINESVILLE ch Commerc ville, Georgi 912) 368-56 POOLER: POOLER: Suite 304 Suite 304 er, Georgia er, Georgia
RIPPER OR CHISEL.									
APPLIED UNIFORMLY CULTIPACKER SEEDE DIAMETER. SOIL SHOU	RS SHOULD NORM	MALLY							114 Nor Hines 1000 Poo
SEEDING R									
TEMPORAR	RATE PER	PLANTING				ST CONTROL	– Du		
5 1,000 SQ.FT 3.9 LBS.	· ACRE.*	DATES** /1 – 3/1			N	OT TO SCALE			
ASS 0.9 LBS. 0.9 LBS.		/15 – 4/1 15 –9/15							
ZA 0.1 LBS.		/15 – 6/15							
GRASS 1.4 LBS.		/1 – 8/1							
MILLET 0.9 LBS. 4.1 LBS.		′1 – 7/15 ′15 – 2/1							
SUAL SITE CONDTIONS NG RATES.									
ING DATES MAY NEED RATURE VARIATIONS A									-
TAE	<u>BLE 6-5</u>	.1 FERTILIZ	<u>zer requiren</u>	<u>MENTS</u>	Month	Temporary Cover	Rate per Acre		S
					January	Ds2 Rye grass Rye	Seeded Adde Alone To M 40 lbs 3 bu5 b	ed <u>Ds3</u> Seeded Added Alone To Mix Unbulled Bermuda 10 lbs. 6 lbs.	
TYPE OF SPECIES	YEAR	ANALYSIS FOF EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE	February	Annual Lespedeza Rye grass Rye	40 lbs. 10 ll 40 lbs 3 bu5 b	os. Unhulled Bermuda 10 lbs. 6 lbs.	A TEN
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 1/2/ - 30	March	Weeping Lovegrass Annual Lespedeza	4 lbs. 2 lb 40 lbs. 10 ll		
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	0-50 LBS./AC. 1/ -	April	Weeping Lovegrass Sudan Grass	4 lbs. 2 lb 60 lbs 40 lbs. 10 ll	Weeping Lovegrass 6 lbs. 6 lbs. bs. Hulled Bermuda 10 lbs. 6 lbs.	VEN WA
3. GROUND COVERS	FIRST SECOND	10-10-10 10-10-10	1300 LBS./AC. 1300 LBS./AC.	- -	Мау	Weeping Lovegrass Sudan Grass	4 lbs. 2 lb 60 lbs 40 lbs. 10 ll	Weeping Lovegrass 6 lbs. 6 lbs.	AID R R R
4. PINE SEEDLINGS	MAINTENANCE	10–10–10	1100 LBS./AC. ONE 21-GRAM PELLET PER SEEDING PLACED IN THE CLOSING HOLE	-	June	Pearl Millet Sudan Grass	50 lbs 60 lbs	Sericea Lespedeza (2) 60 lbs. Pensacola Bahia 60 lbs. 30 lbs. Hulled Bermuda 10 lbs. 6 lbs.	
5. SHRUB	FIRST FIRST	20-10-6	700 LBS./AC.	-	July	Pearl Millet Sudan Grass	40 lbs. 10 ll 50 lbs 60 lbs	os. Pensacola Bahia 60 lbs. 30 lbs.	RLE X IN FO
LESPEDEZA	MAINTENANCE	0-10-10 0-10-10	700 LBS./AC.4/	-	August	Pearl Millet Rye	40 lbs. 10 ll 50 lbs 3 bu5 b	Pensacola Bahia 60 lbs. 30 lbs.	AF LLK
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10/10/2010	500 LBS./AC.	30 LB./ACRE/ 5/	September	,	40 lbs 4 bu. 1 bu 3 bu5 b	. Sericea Lespedeza (1) 75 lbs	A WALF CITY CITY
7. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 2/6/ 50-100 LBS./AC. 2/ 30 LBS./AC.	October	Rye grass Oats Wheat	40 lbs 4 bu. 1 bu 3 bu5 b	. Sericea Lespedeza (1) 75 lbs	
8. WARM SEASON GRASSES AND	FIRST SECOND	6-12-12 0-10-10	1500 LBS./AC. 1000 LBS./AC.	50 LBS./AC./6/	November	Rye Barley Rye grass	3 bu5 b 3 bu5 b 40 lbs	u. u.	
LEGUMES	MAINTENANCE	0-10-10	400 LBS./AC.	<u> </u>		Oats Oats Rye Barley	4 bu. 1 bu 3 bu5 b 3 bu5 b 3 bu5 b 3 bu5 b	. Unhulled Bermuda 10 lbs. 6 lbs.	SII
					December	Rye grass Oats Wheat	40 lbs 4 bu. 1 bu	Sericea Lespedeza (1) 75 lbs Unhulled Bermuda 10 lbs. 6 lbs.	
		RING FOLLOWING SE	EDING. VHEN HIGH RATES ARE USE	ED.		Rye Barley	3 bu5 b 3 bu5 b 3 bu5 b 3 bu5 b	u. u.	SHEET NAME:
	3/ APPLY IN 3 4/ APPLY WHEN	SPLIT APPLICATIONS I PLANTS ARE PRUN RASS SPECIES ONLY	S. ED.			FERTILIZER:	ANALYSIS N-P-K	RATE N TOP DRESSING RATE	DETAILS
			A HEIGHT OF 2 TO 4 INCH	IES.		FIRST 6	5-12-12	1500 LBS/AC 50-100 LBS.AC	REVISIONS:
							5–12–12 0–10–10	800 LBS/AC 50–100 LBS/AC 400 LBS/AC 30 LBS/AC	1. 2.
									3. 4.
	RY HAY OF GOOD	QUALITY AND FREE		ON AGENT FOR ANALYSIS TO USED. DRY STRAW SHALL I			NS PER ACRE. D	RY HAY SHALL BE	5. 6. 7
. WOOD CELLULOSE M HALL BE APPLIED (A	ULCH OR WOOD	PULP FIBER SHALL CATED ABOVE) AFTE	R HYDRAULIC SEEDING.	SEEDING. IT SHALL BE APF UDES A TACKIFIER, SHALL E					7. 8. 9
. SERICEA LESPEDEZA . PINE STRAW OR PIN	A HAY CONTAININ NE BARK SHALL I	NG MATURE SEED SH BE APPLIED AT A T	IALL BE APPLIED AT A RA HICKNESS OF 3 INCHES FO	UDES A TACKIFIER, SHALL E TE OF THREE TONS PER AC OR BEDDING PURPOSES. OTH E FOR SEEDED AREAS. 6. W	RE. ER SUITABLE M	ATERIALS IN SUFFIC	IENT QUANTITY M	AY BE USED WHERE	9. 10 INITIAL DATE: 2/26/2024
NOT REQUIRED	REQUIRED UNLE	SS SOIL TESTS INDI	CATE OTHERWISE. APPLY A	GRICULTURAL LIME AT A RA	TE OF ONE TO	N PER ACRE. GRADE	D AREAS REQUIR	E LIME APPLICATION.	DRAWN BY: KRC CHECKED BY: TRL PROJECT #: 2020-111
OILS CAN BE TESTED	TO DETERMINE I 0-10-10 FERTILIZ	IF FERTILIZER IS NEI ZER OR THE EQUIVA	EDED. ON REASONABLY FE	RTILE SOILS OR SOIL MATER BS./1,000 SQ. FT.) SHALL E	IAL, FERTILIZER	IS NOT REQUIRED.	FOR SOILS WITH	VERY LOW FERTILITY, 500	SHEET NUMBER:
									C^{2}