

CRITICAL AREA VEGETATIVE PLAN

GENERAL
THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, DRAINAGES AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO PREVENT SOIL SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREAS.

SOIL CONDITIONS
DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATA. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIALS ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS
CONVENTIONAL SEEDING EQUIPMENT:

GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LINE AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDING PREPARATION. A SECOND WILL BE SPREAD BY SCATTERING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDS MUST BE WELL PLANKED, SMOOTHED AND FINISHED. SEEDING WILL BE DONE WITH CONVENTIONAL SEEDER, DRILL, STRIP OR OTHER MECHANICAL OR HAND SEEDER. SEEDS WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRIP OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL HARROW THAT MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

- A. SEEDING WITH MULCH: (CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)
 - AGRICULTURAL LIMESTONE 4000 LBS./ACRE
 - FERTILIZER, 5-10-15 1500 LBS./ACRE
 - MULCH, STRAW OR HAY 5000 LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
MULLED COMMON BERMUDA GRASS	10 LBS.	3/1 - 6/15
FESCUE	50 LBS.	6/1 - 10/31
FESCUE	50 LBS.	11/1 - 2/28
RYE GRASS	50 LBS.	6/15 - 8/31
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	

- B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL
 - FERTILIZER (AMMONIUM NITRATE 33.0%) 300 LBS./ACRE
- C. SECOND-YEAR FERTILIZER: (5-10-15 OR EQUIVALENT) 800 LBS./ACRE

HYDRAULIC SEEDING EQUIPMENT:

WHEN HYDRAULIC SEEDING AND FERTILIZER EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDING PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH MIXED WITH WATER WILL BE PUMPED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS Mixture AND SPREAD UNIFORMLY OVER THE AREA WITHIN AN HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH SEPARATE MACHINERY. THE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

- A. SEEDING WITH MULCH: (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)
 - FERTILIZER, 5-10-15 1500 LBS./ACRE
 - AGRICULTURAL LIMESTONE #75 4000 LBS./ACRE
 - MULCH (STRAW OR HAY) OR WOOD CELLULOSE FIBER MULCH 5000 LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
SERICEA LESPEDEZA, SCARIFIED	60 LBS.	
WEeping LOVEGRASS OR COMMON BERMUDA, MULLED	4 LBS.	3/1 - 6/15
FESCUE	40 LBS.	6/1 - 10/31
SERICEA LESPEDEZA, UNSCARIFIED	60 LBS.	
FESCUE	40 LBS.	6/1 - 10/31
SERICEA LESPEDEZA, UNSCARIFIED	75 LBS.	11/1 - 2/28
RYE	50 LBS.	6/15 - 8/31
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	

- B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL
 - FERTILIZER (AMMONIUM NITRATE 33.0%) 300 LBS./ACRE
- C. SECOND-YEAR FERTILIZER: (5-10-15 OR EQUIVALENT) 800 LBS./ACRE

Disturbed Area Stabilization (with Mulching Only)

GENERAL
MULCH OF TEMPORARY GRASS SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A TEMPORARY EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH DEPENDING ON THE MATERIAL USED, HYDROLOGY, AND HAVE A BOX COVER OR GREATER OF THE SOIL SURFACE. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED. THIS STANDARD APPLIES TO GRASSES OR LEGUMES UNLESS SPECIFICALLY NOTED. A NUTRIENT SOURCE SHALL BE USED TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

MAINTENANCE
MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND BOX COVER.

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 DICES, OVERDROPS, BERMS, TERRACES AND SEDIMENT BARRIERS.
- 3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

- 1. DRY STRAW OR HAY: SHALL BE APPLIED AT A DEPTH OF 3 TO 4 INCHES.
- 2. WOOD WASTE (CHIPS, SAWDUST OR BARK): SHALL BE APPLIED AT A DEPTH OF 3 TO 5 INCHES.
- 3. CUTBACK ASPHALT: SHALL BE APPLIED AT 1200 GALLONS PER ACRE.
- 4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILES SOIL MATERIAL FOR TEMPORARY PROTECTION.

APPLYING MULCH

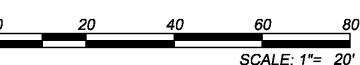
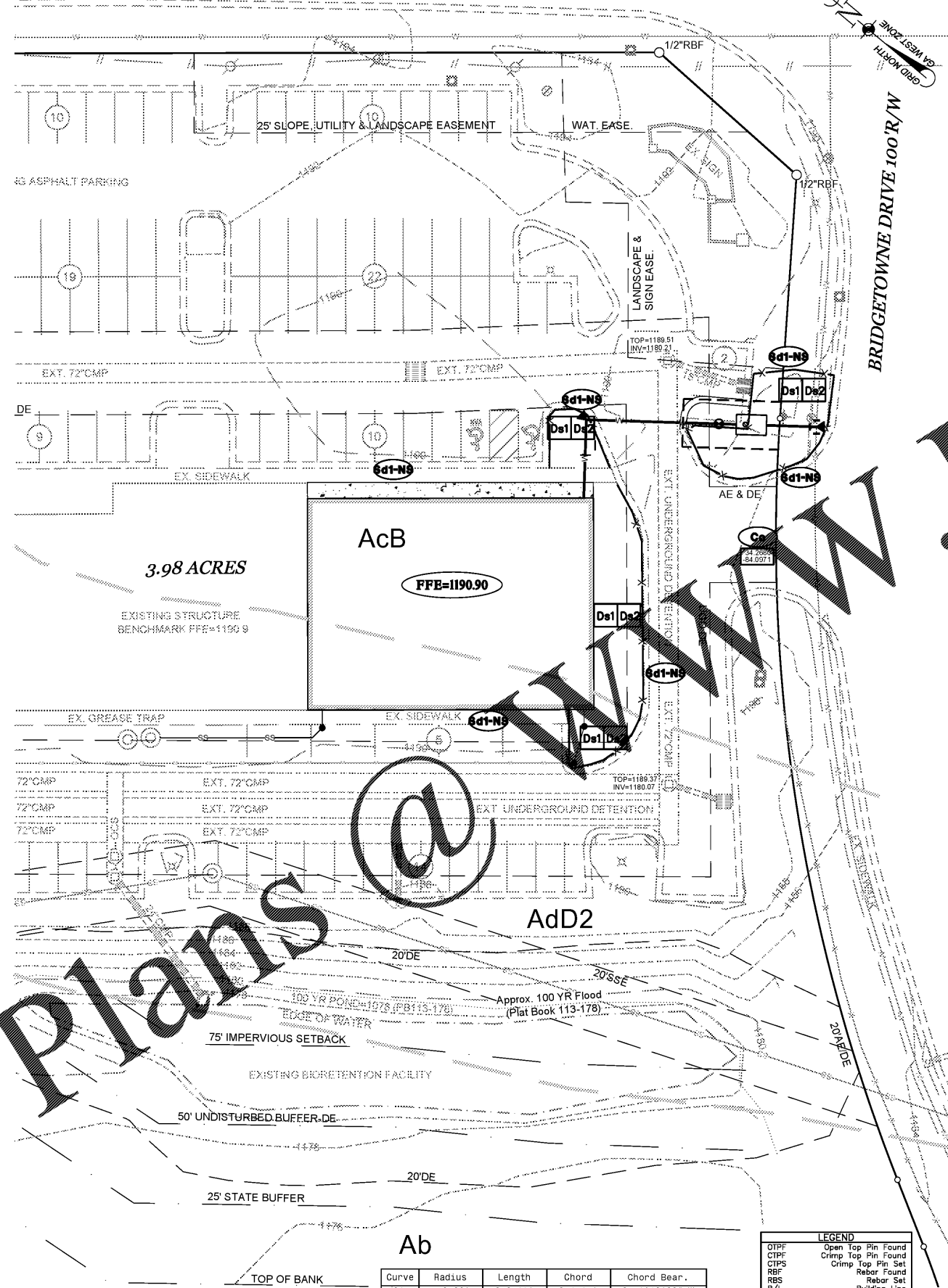
- 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
- 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERMANENT VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED.
- 3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY.
- 4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

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 SCRIBED AND SHOULD BE 30 INCHES OR MORE IN DIAMETER AND 4 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 MULCH OF AN EVEN THICKNESS. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
- 2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE APPLICABLE SIZE OF THE WOOD WASTE CHIPS.
- 3. POLYETHYLENE FILM SHALL BE ANCHORED THROUGHOUT AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

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**AKA - BROWNS BRIDGE ROAD
GEORGIA HIGHWAY 369 - 100'R/W**

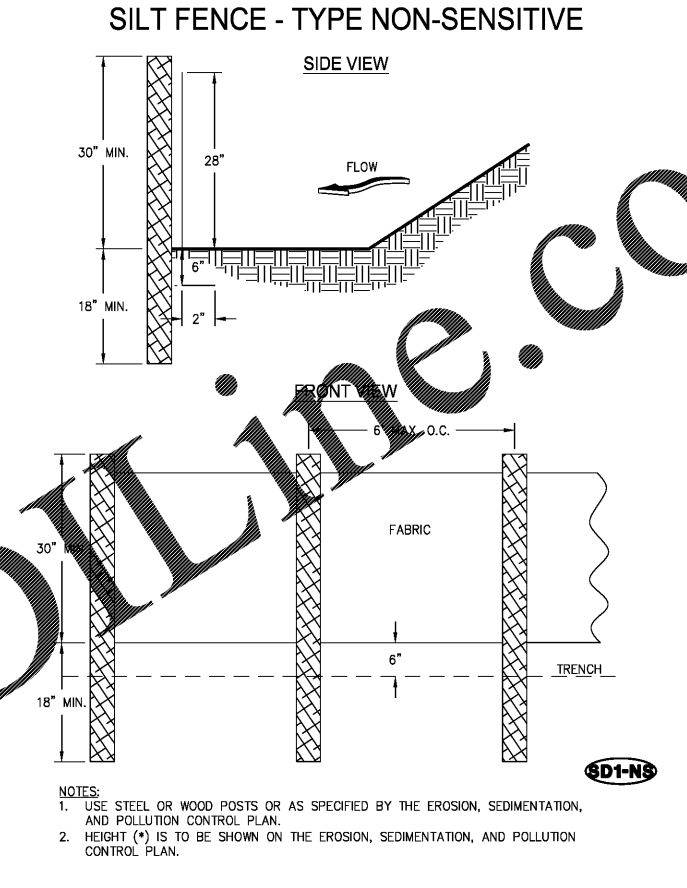


Curve	Radius	Length	Chord	Chord Bear.
C1	550.00'	243.11'	241.14'	S 41°13'32\" W
C2	250.00'	48.00'	47.93'	S 34°03'46\" W

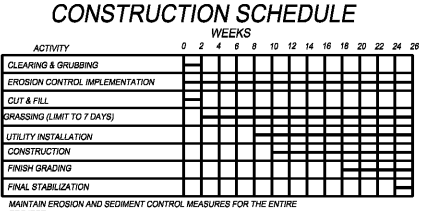
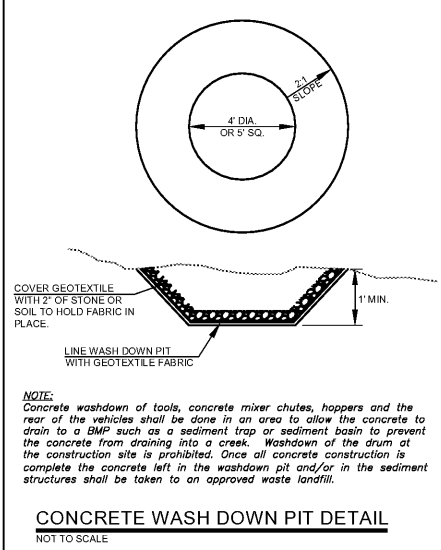
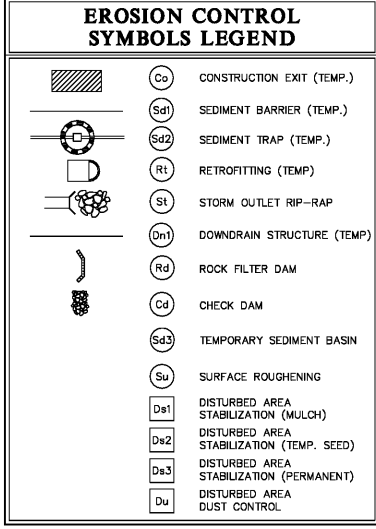
Course	Bearing	Distance
L1	S 28°33'44\" W	22.47'

LEGEND

- OTPF Open Top Pin Found
- CTPF Crimp Top Pin Found
- CIPFS Crimp Top Pin Set
- RFB Rebar Found
- RBS Rebar Set
- B/L Building Line
- UP Utility Pole
- N or F Now or Formerly
- *—*— Fence
- *—*— Overhead Wire
- *—*— Not to Scale
- Δ Calculated Point



- NOTES:**
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 - HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.



Ab - Alluvial land, moderately well drained, Permeability 2.0-6.0 in./hr. Erosion Factors K-0.20 T-5

AcB - Altivista fine sandy loam, very gently sloping phase, Permeability 0.6-2.0 in./hr. Erosion Factors K-0.20 T-5

AdD2 - Appling sandy clay loam, eroded sloping phase, Permeability 0.6-2.0 in./hr. Erosion Factors K-0.15 T-5

Site Development Plans for:
CANVAS CHRISTIAN CHURCH
Land Lot #100, 14th Dist., 1st Section
Forsyth County, Georgia
04-01-2017

Mchworter & Anderson
LAND SURVEYING &
416 Pickle Ferry Road
Building H, Unit 300
Cumming, GA 30040
(770) 889-9430
www.mga-se.com

SHEET TITLE:
INTERMEDIATE
EROSION
SEDIMENT &
POLLUTION
CONTROL
PLAN

SHEET:
C-4.1

GSWCC LEVEL II
CERTIFICATION #16,729

Impact
DESIGN-BUILD
Contractors

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