

PAVEMENT MARKINGS

- 1.01 QUALIFICATIONS
A. MANUFACTURER, COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH A MINIMUM 5 YEARS OF EXPERIENCE.
B. APPLICATION, COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH A MINIMUM 5 YEARS OF EXPERIENCE.

- 2.01 PAINTED PAVEMENT MARKINGS
A. ACCEPTABLE MANUFACTURERS
1. EMULSION PAINT CO. (EMULSIONPAINT.COM)
2. FRANKLIN PAINT COMPANY (FRANKLINPAINT.COM)
3. EZ-LINER INDUSTRIES (EZLINER.COM)
4. TAPCO, INC. (TAPCONET.COM)
5. PERVO PAINT COMPANY (PERVO.COM)
6. US SPECIALTY COATINGS (USSPECIALTY.COM)

- 2.02 EQUIPMENT
A. ROADWAY APPLICATION FOR CONTINUOUS LONGITUDINAL LINES USE EQUIPMENT WITH FOLLOWING CAPABILITIES:
1. DUAL NOZZLE PAINT GUN TO SIMULTANEOUSLY APPLY PARALLEL LINES OF INDICATED WIDTH IN SOLID OR BROKEN PATTERNS OR VARIOUS COMBINATIONS OF THOSE PATTERNS.
2. MEASURING DEVICE TO AUTOMATICALLY AND CONTINUOUSLY MEASURE LENGTH OF EACH LINE PLACED, TO NEAREST FOOT.

- 3.01 GENERAL
A. DO NOT APPLY PAINT TO NEW CONCRETE SURFACES UNTIL THE CONCRETE HAS CURED FOR 90 CALENDAR DAYS. DO NOT APPLY PAINT TO NEWLY INSTALLED ASPHALT SURFACES UNTIL THE ASPHALT HAS CURED FOR A MINIMUM OF 14 CALENDAR DAYS. INSTALLING A SMALL TEST PATCH IS RECOMMENDED TO MAKE SURE THE PAINT ADHERES ACCEPTABLY.

- 3.02 PREPARATION
A. MAINTENANCE AND PROTECTION OF TRAFFIC
1. PREVENT TRAFFIC FROM INTERRUPTING THE APPLICATION OF THE MARKINGS. PROHIBIT TRAFFIC FROM THE PAINTED AREAS UNTIL THE MARKINGS ARE ACCEPTABLY DRY.

- 3.03 APPLICATION
A. AGITATE PAINT FOR 10 - 15 MINUTES PRIOR TO APPLICATION TO ENSURE EVEN DISTRIBUTION OF PAINT PIGMENT.
B. DISPENSE PAINT AT TEMPERATURE RECOMMENDED BY MANUFACTURER TO THE THICKNESSES NOTED BELOW.

Table with 4 columns: APPLICATION, CONCRETE, ASPHALT, SURFACE TREATMENTS. Rows for 1, 2, 3 applications with thicknesses in MILS.

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- 3.04 APPLICATION TOLERANCES
A. MAXIMUM VARIATION FROM WET PAIN THICKNESS: 1 MIL.
B. MAXIMUM VARIATION FROM WET PAINT LINE WIDTH: PLUS OR MINUS 1/8 INCH.
C. MAXIMUM VARIATION FROM SPECIFIED APPLICATION TEMPERATURE: PLUS OR MINUS 5 DEGREES F.

- 3.05 EXISTING WORK
A. REMOVE EXISTING MARKINGS IN AN ACCEPTABLE MANNER. DO NOT REMOVE EXISTING PAVEMENT MARKINGS BY PAINTING OVER WITH BLACK PAINT. REMOVE BY METHODS THAT WILL CAUSE LEAST DAMAGE TO PAVEMENT STRUCTURE OR PAVEMENT SURFACE. SATISFACTORILY REPAIR ANY PAVEMENT OR SURFACE DAMAGE CAUSED BY REMOVE METHODS.

- 3.06 FIELD QUALITY CONTROL
A. INSPECT FOR INCORRECT LOCATION, INSUFFICIENT THICKNESS, LINE WIDTH, COVERAGE, RETENTION, UNCOURED OR DISCOLORED MATERIAL, AND INSUFFICIENT BONDING.
B. ALL AREAS SCHEDULED TO RECEIVE PAINTED MARKINGS SHALL BE COMPLETELY COVERED; NO PORTION OF THE PAINTED AREA SHALL SHOW ASPHALT OR CONCRETE FOLLOWING THE PAINT CURING.

- 3.07 PROTECTION OF FINISHED WORK
PROTECT PAINTED PAVEMENT MARKINGS FROM VEHICULAR AND PEDESTRIAN TRAFFIC UNTIL PAINTS ARE DRY AND TACK FREE. FOLLOW MANUFACTURER'S RECOMMENDATIONS OR USE MINIMUM OF 30 MINUTES FOR DRYING TO SCHEDULES.

Table with 2 columns: MARKING DESCRIPTION, MARKING LOCATION. Lists 4 inch white paint, 4 inch yellow paint, 24 inch solid white thermoplastic, 12 inch solid white thermoplastic, 4 inch yellow thermoplastic, 4 inch white thermoplastic.

END OF SECTION

EROSION AND SEDIMENTATION CONTROLS

- 1.01 SCOPE
A. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF PROVIDING AND MAINTAINING TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROLS AS SHOWN ON THE DRAWINGS. THIS SECTION ALSO SPECIFIES THE SUBSEQUENT REMOVAL OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

- 2.01 ACCEPTABLE MANUFACTURERS
A. TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROLS INCLUDE GRASSING AND MULCHING OF DISTURBED AREAS AND STRUCTURAL BARRIERS AT THOSE LOCATIONS WHICH WILL ENSURE THAT EROSION DURING CONSTRUCTION WILL BE MAINTAINED WITHIN ACCEPTABLE LIMITS. ACCEPTABLE LIMITS ARE AS ESTABLISHED BY THE GEORGIA EROSION AND SEDIMENTATION CONTROL ACT OF 1975, AS AMENDED, SECTION 402 OF THE FEDERAL CLEAN WATER ACT, AND APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS AND LAWS OF LOCAL AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.

- 2.02 CONSTRUCTION EXIT STONE
USE SOUND, TOUGH, DURABLE STONE RESISTANT TO THE ACTION OF AIR AND WATER. SLABBY OR SHALEY PIECES WILL NOT BE ACCEPTABLE. AGGREGATE SIZE SHALL BE ACCORDANCE WITH THE NATIONAL STONE ASSOCIATION SIZE R-1 (2-1/2 TO 3-5/8 INCH STONE) OR TYPE 3 RIP RAP STONE CONFORMING TO SECTION 805.01 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
A. PLASTIC FILTER FABRIC SHALL CONFORM TO THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 881.06 FOR WOODEN FENCINGS.

- 3.01 GENERAL
A. TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES SHALL PREVENT EROSION AND SEDIMENTATION FROM OCCURRING. IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR'S TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ARE INADEQUATE, THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL MAINTENANCE FOR EXISTING MEASURES OR ADDITIONAL DEVICES TO CONTROL EROSION AND SEDIMENTATION ON THE SITE AT NO ADDITIONAL COST TO THE OWNER.

- 3.02 SEDIMENT CONTROL
A. CONSTRUCTION EXIT
1. CONSTRUCTION EXITS SHALL BE PLACED AS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER. A CONSTRUCTION EXIT SHALL BE LOCATED AT ANY POINT TRAFFIC WILL BE LEAVING A DISTURBED AREA TO A PUBLIC RIGHT-OF-WAY, FEET, ALL-STATE HIGHWAY OR PARKING AREA.

- 3.03 EROSION CONTROL
A. GRASSING
1. GRASSING SHALL MEET THE REQUIREMENTS OF THESE SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
2. SEED RATE, FERTILIZATION AND OTHER REQUIREMENTS SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS.

- 3.04 CLEAN-UP
A. DISPOSE OF ALL EXCESS EROSION AND SEDIMENTATION CONTROL MATERIALS IN A MANNER SATISFACTORY TO THE ENGINEER.
B. UPON COMPLETION OF THE WORK OF THIS SECTION, REMOVE ALL RUBBISH, TRASH AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS. REMOVE SURPLUS EQUIPMENT AND TOOLS. LEAVE THE SITE IN A NEAT AND ORDERLY CONDITION ACCEPTABLE TO THE ENGINEER.

- 3.05 ACCEPTANCE
A. ACCEPTANCE OF THE PROJECT'S FINAL STABILIZATION SHALL BE PROVIDED BY THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING FINAL PAYMENT TO THE CONTRACTOR.
B. FINAL STABILIZATION SHALL BE PROVIDED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT SEDIMENT CONTROL STRUCTURES, 100 PERCENT OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70 PERCENT OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED.

END OF SECTION

SEEDING

- 1.01 SCOPE
A. THE WORK COVERED BY THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED TO PLACE TOPSOIL, SEED, COMMERCIAL FERTILIZER, AGRICULTURAL LIMESTONE AND MULCH MATERIAL, INCLUDING SEEDBED PREPARATION, HARROWING, COMPACTING AND OTHER PLACEMENT OPERATIONS ON GRADED EARTHEN AREAS AS DESCRIBED HEREIN AND/OR SHOWN ON THE DRAWINGS. IN GENERAL, SEEDING OPERATIONS SHALL BE CONDUCTED ON ALL NEWLY GRADED EARTHEN AREAS NOT COVERED BY STRUCTURES, PAVEMENT OR SIDEWALKS, ALL CLEARED OR GRUBBED AREAS WHICH ARE TO REMAIN AS PAVED OR GRADED SURFACES, AND ON ALL EXISTING GRASS-COVERED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS AND ARE NOT SCHEDULED TO CHANGE (including new pavement, new structures, etc.). AREAS DISTURBED BY BROWNGROW ACTIVITIES SHALL ALSO BE SEEDBED ACCORDING TO THESE SPECIFICATIONS.

- 2.01 TOPSOIL
A. UTILIZING DESIGNATED STOCKPILES OR APPROVED BORROW AREAS (ON SITE OR OFFSITE), THE CONTRACTOR SHALL PLACE A MINIMUM OF 8 INCHES OF TOPSOIL OVER ALL GRADED EARTHEN AREAS AND OVER ANY OTHER AREAS SCHEDULED TO BE SEEDBED. SOURCES OF TOPSOIL SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTURBANCE. IMPORTING TOPSOIL FROM OUTSIDE THE COUNTY SHALL BE AT THE DISCRETION OF THE ENGINEER AND SHALL BE SUBSTITUTION FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. A CHANGE ORDER PROPOSED WITHOUT THE ENGINEER'S SIGNATURE SHALL BE SUBJECT TO IMPORTING OFF-SITE TOPSOIL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SPREADING OF TOPSOIL.

- 2.02 SEED
A. SEED SHALL BE DELIVERED IN NEW BAGS OR BAGS THAT ARE SOUND AND LABELED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE FEDERAL SEED ACT.
B. ALL SEED SHALL BE FROM THE LAST CROP AVAILABLE AT TIME OF PURCHASE AND SHALL BE MET AND MET OR BETTER, DAMAGED IN TRANSIT OR STORAGE.

- 2.03 FERTILIZER AND LIMING MATERIALS
A. FERTILIZER AND LIMING MATERIALS SHALL BE APPLIED WITH APPLICABLE STATE AND LOCAL LAWS CONCERNED WITH THEIR PRODUCTION AND USE.
B. COMMERCIAL FERTILIZERS SHALL HAVE RECEIVED MATERIAL CERTIFICATION FROM THE QUALITY OF GRADERS SPECIFIED IN THE SEEDING SCHEDULE SHOWN ON THE DRAWINGS OR AS RECOMMENDED BY THE SOIL ANALYSIS TEST RESULTS. COMMERCIAL FERTILIZERS SHALL HAVE THE NAME AND ADDRESS OF THE MANUFACTURER, THE BRAND NAME, NET WEIGHT AND CHEMICAL COMPOSITION.

- 2.04 MULCH MATERIAL
A. ALL MULCH MATERIALS SHALL BE APPLIED AND READY TO BE USED FOR NOODUS WEEDS AND WEED SEEDS OR OTHER MATERIALS DETRIMENTAL TO PLANT GROWTH.
B. MULCH SHALL BE CONTROLLED MATERIAL, STRAW OR STALKS, AS SPECIFIED ABOVE, WHICH SHALL BE SUITABLE FOR SPRINGING WITH STANDARD MULCH BLOWING EQUIPMENT.

- 2.05 WATER
A. WATER SHALL BE CLEAN, CLEAR WATER FREE FROM ANY OBJECTIONABLE OR HARMFUL CHEMICAL QUALITIES OR ORGANISMS, AND SHALL BE FURNISHED BY THE CONTRACTOR.

- 3.01 GENERAL
A. TOPSOIL SHALL BE SECURED FROM AREAS FROM WHICH TOPSOIL HAS NOT BEEN PREVIOUSLY REMOVED, EITHER BY EROSION OR MECHANICAL METHODS. TOPSOIL SHALL NOT BE REMOVED TO A DEPTH IN EXCESS OF THE DEPTH APPROVED BY THE ENGINEER.

- 3.02 SEEDBED PREPARATION
A. BEFORE FERTILIZING AND SEEDING, THE TOPSOIL SURFACES SHALL BE TRIMMED AND WORKED TO TRUE LINE FROM UNSIGHTLY VARIATIONS, BUMPS, RIDGES AND DEPRESSIONS AND ALL DETRIMENTAL MATERIAL, ROOTS AND STONES LARGER THAN 3 INCHES IN ANY DIMENSION SHALL BE REMOVED FROM THE SOIL.

- 3.03 FERTILIZATION AND LIMING
A. FOLLOWING SEEDBED PREPARATION, FERTILIZER SHALL BE APPLIED TO ALL AREAS TO BE SEEDBED SO AS TO ACHIEVE THE APPLICATION RATES SHOWN ON THE DRAWINGS OR AS RECOMMENDED BY THE SOIL ANALYSIS TEST RESULTS.

- 3.04 SEEDING
A. SEED OF THE SPECIFIED GROUP SHALL BE SOWN AS SOON AS PREPARATION OF THE SEEDBED HAS BEEN COMPLETED. NO SEED SHALL BE SOWN DURING HIGH WINDS, NOR UNTIL THE SURFACE IS SUITABLE FOR WORKING AND IS IN A PROPER CONDITION. SEEDING SHALL BE PERFORMED DURING THE DATES SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEED MIXTURES MAY BE SOWN TOGETHER PROVIDED THEY ARE KEPT IN A THOROUGHLY MIXED CONDITION DURING THE SEEDING OPERATION.

- 3.05 MULCHING
A. ALL SEEDED AREAS SHALL BE UNIFORMLY MULCHED IN A CONTINUOUS BLANKET IMMEDIATELY AFTER SEEDING. THE MULCH SHALL BE APPLIED EVENLY SO AS TO PREVENT SUNLIGHT TO PENETRATE AND THE AIR TO CIRCULATE AND AT THE SAME TIME SHADE THE GROUND, REDUCE EROSION AND CONSERVE SOIL MOISTURE. APPROXIMATELY 45 PERCENT OF THE GROUND SHALL BE VISIBLE THROUGH THE MULCH BLANKET.

- 3.06 MAINTENANCE
A. UPON COMPLETION OF SEEDING OPERATIONS, THE CONTRACTOR SHALL CLEAR THE AREA OF ALL EQUIPMENT, DEBRIS AND EXCESS MATERIAL AND THE PREMISES SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. THE CONTRACTOR SHALL MAINTAIN ALL SEEDED AREAS WITHOUT ADDITIONAL PAYMENT UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER, AND ANY REGRADING, REFERTELLING, RESEEDING OR RE-MULCHING SHALL BE DONE AT CONTRACTOR'S OWN EXPENSE. SEEDING WORK SHALL BE REPEATED ON DEFECTIVE AREAS UNTIL A SATISFACTORY UNIFORM STAND IS ACCOMPLISHED. DAMAGE RESULTING FROM EROSION, GULLIES, WASHOUTS OR OTHER CAUSES SHALL BE REPAIRED BY FILLING WITH TOPSOIL, COMPACTING AND REPEATING THE SEEDING WORK AT CONTRACTOR'S EXPENSE.

- 3.07 ACCEPTANCE
A. ACCEPTANCE OF THE PROJECT'S FINAL STABILIZATION SHALL BE PROVIDED BY THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING FINAL PAYMENT TO THE CONTRACTOR.
B. FINAL STABILIZATION SHALL BE PROVIDED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT SEDIMENT MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION.

END OF SECTION

DUNWODY/BEELAND, architects, inc.

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FACILITY IMPROVEMENTS AT TOBESOFKEE PARKS FOR MACON-BIBB COUNTY

Table with 2 columns: Revision, Description. Header row: Revision, Description.

Sheet Title: CONSTRUCTION SPECIFICATIONS

Project #: 1610 Date: 01/13/20

REEVES DESIGN Services, LLC • Consulting Engineers

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