





**ENGINEER'S CERTIFICATE**  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Signature of Engineer: [Signature] Date: 4/3/97

**DEVELOPER'S CERTIFICATE**  
 I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.  
 Signature of Developer: [Signature] Date: 4/3/97

**OWNER**  
 LAND DESIGN & DEVELOPMENT, INC.  
 10005 HICKORY RIDGE ROAD  
 COLUMBIA, MARYLAND 21044

**APPROVED DEPARTMENT OF PLANNING AND ZONING**  
 [Signature] Date: 4/2/97  
 [Signature] Date: 4/10/97  
 [Signature] Date: 4/14/97

**SUBDIVISION**  
 MATTHEWS WOODS  
 SECTION/AREA: 1 THRU 12  
 LOT NO.: 1 THRU 12

**SITE DEVELOPMENT PLAN NOTES & DETAILS**  
**MATTHEWS WOODS**  
 LOTS 1 THRU 12  
 TAX MAP NO: 42 PARCEL: 40, 341, 318  
 ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: NOV. 12, 1996  
 SHEET 2 OF 2

**SEQUENCE OF CONSTRUCTION**  
 1. OBTAIN GRADING PERMIT.  
 2. CONTRACTOR TO INSTALL NEW OR RESTAKE EXISTING TREE PROTECTION FENCE AS NECESSARY. (2 DAYS)  
 3. CONTRACTOR TO INSPECT AND REPAIR AS NECESSARY EXISTING SEDIMENT CONTROL MEASURES. THESE WILL REMAIN IN PLACE UNTIL THEIR REMOVAL IS APPROVED BY E.P. CONY (2)  
 4. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE PER PLAN U. DAY.  
 5. CONTRACTOR TO PREPARE SPREADINGS (100 TONS)  
 6. INSTALL PERMANENT VEGETATION AND PLANT SEEDS PER PLAN U. DAY.  
 7. ONCE VEGETATION HAS BEEN ESTABLISHED PERMANENTLY IS TO BE MAINTAINED BY E.P. CONY (INSPECTOR), REMOVE E.P. CONY. MAINTENANCE AND REPAIRS WILL BE PERFORMED PER PLAN U. DAY.

**PERMANENT SEEDING NOTES**  
 ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:  
**SEEDING PREPARATION**  
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.  
**SOIL AMENDMENTS**  
 APPLY 2 TONS PER ACRE OF 0-20-0 FERTILIZER (50 LBS./1000 SQ.FT.) AND 400 LBS. PER ACRE OF 0-20-0 FERTILIZER (50 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE OF 0-20-0 UREAFORM FERTILIZER (50 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE OF 0-15-15 FERTILIZER (50 LBS./1000 SQ.FT.) FOR 10-20-20 FERTILIZER.  
**SEEDING**  
 FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE OF 0-15-15 FERTILIZER (50 LBS./1000 SQ.FT.) IN TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JUNE 30, SEED WITH 80 LBS. PER ACRE OF 0-15-15 FERTILIZER (50 LBS./1000 SQ.FT.) IN TALL FESCUE AND 2 LBS. PER ACRE OF 0-20-0 UREAFORM FERTILIZER (50 LBS./1000 SQ.FT.) OF WEEPING. THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (D) - USE 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OPTION (D) - USE 5000 CUBIC YD. SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDING.  
**SPREADING**  
 APPLY 1 TO 2 TONS PER ACRE (60 TO 90 LBS./1000 SQ.FT.) OF UNLOTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE OF 15 GALLONS (500 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS OR SLOPES 6 FEET OR HIGHER USE 340 GALLONS PER ACRE (60 GALLONS/SQ.FT.) FOR ANCHORING.  
**MAINTENANCE**  
 INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.  
 \* FOR PUBLIC PONDS SUBSTITUTE CHROME CROWNWEED AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 150 LBS./ACRE. SEEDING REQUIREMENTS, OPTIMAL SEEDING DATE FOR THE MIXTURE IS MARCH TO APRIL 30.  
**TEMPORARY SEEDING NOTES**  
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDEVELOPED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.  
**SEEDING PREPARATION**  
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.  
**SOIL AMENDMENTS**  
 APPLY 500 LBS. PER ACRE 10-10-10 FERTILIZER (50 LBS./1000 SQ.FT.)  
**SEEDING**  
 FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 100 LBS. PER ACRE OF 0-15-15 FERTILIZER (50 LBS./1000 SQ.FT.) IN TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JUNE 30, SEED WITH 80 LBS. PER ACRE OF 0-15-15 FERTILIZER (50 LBS./1000 SQ.FT.) IN TALL FESCUE AND 2 LBS. PER ACRE OF 0-20-0 UREAFORM FERTILIZER (50 LBS./1000 SQ.FT.) OF WEEPING. THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (D) - USE 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OF USE SOIL.  
**SPREADING**  
 APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNLOTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL: 50 GALLONS PER ACRE OF 15 GALLONS (500 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS OR SLOPES 6 FEET OR HIGHER USE 340 GALLONS PER ACRE (60 GALLONS/SQ.FT.) FOR ANCHORING.  
 REFER TO THE 1986 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SEDIMENT CONTROL NOTES**  
 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (10-10-95).  
 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.  
 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DEVELOPMENT, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 DAYS. CALIBRATE DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DEES, PERIMETER SLOPES AND ALL SLOPES OTHER THAN 3:1, 3:1 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.  
 4. ALL SEDIMENT TRAPS/BORROW PITS MUST BE FENCED AND MAINTAINED AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.  
 5. SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOLL CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.  
 6. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. PERMANENT SEEDING (SEC. 501, 500 (SEC. 5A), TEMPORARY SEEDING (SEC. 501, 500) AND MULCHING (SEC. 501, 500) SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER GRADING AND ESTABLISHMENT OF GRASSES.  
 7. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMSSION FOR THESE STRUCTURES HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
 8. SITE ANALYSIS:  
 TOTAL AREA OF SITE: 4.67 ACRES  
 AREA TO BE ROOFED OR PAVED: 2.4 ACRES  
 AREA TO BE VEGETATIVELY STABILIZED: 1.14 ACRES  
 TOTAL OF MULCH: 1236 ACRES  
 TOTAL FILL: 1000 CUYD.  
 OFFSITE TRAIL/BORROW AREA LOCATION: CUYD.  
 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.  
 11. TRAPPING OF CONSTRUCTION UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION**  
 DEFINITION  
 All seed must meet the requirements of the Maryland Seed Law. All seed shall be subject to testing by a recognized seed laboratory. (All seed used shall have been tested within the 6 months immediately preceding the date of sowing each material on the site.)  
 Note: Seed shall be made available to the inspector to verify type and rate of seed used.  
 1. Seed Selection  
 a. The seed must be suitable for the species. Seedlings shall not be used that are more than 100 days old.  
 b. The seed must be of a type that is suitable for the species.  
 c. The seed must be of a type that is suitable for the species.  
 2. Method of Seeding  
 a. Seeding shall be done by hand or by machine.  
 b. Seeding shall be done by hand or by machine.  
 c. Seeding shall be done by hand or by machine.  
 3. Soil Preparation  
 a. Seeding shall be done by hand or by machine.  
 b. Seeding shall be done by hand or by machine.  
 c. Seeding shall be done by hand or by machine.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10775 BELTWAY NATIONAL FEE  
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