PLANTING SPECIFICATIONS AND NOTES

WETLAND PLANT ESTABLISHMENT

1. Plant species required are normally unavailable from standard landscape nursery sources. The Contractor must make arrangements with competent wetlands restoration specialists to insure a supply of the required material.

2. The Contractor and/or his subcontractor should be aware of the site design conditions and should take all prudent steps to insure that the plant material specified on the plans is acclimated to wetland conditions prior to delivery to the job site. If the plant material is available from sources where wetland conditions are duplicated at the nursery, the Contractor should favor these sources as the supplier.

3. Fertilizer for wetland trees and shrubs shall be a 21 gr. tightly compressed, long lasting slow release (2 year) planting tablet with a minimum guaranteed analysis of 20-10-5.

4. Fertilizer for container grown material shall apply the following rates:

   1 gal. Container 1 ea. 21 gr. Tablets
   3 gal. Container 2 ea. 21 gr. Tablets
   5 gal. Container 3 ea. 21 gr. Tablets
   7 gal. Container 5 ea. 21 gr. Tablets

5. B&B or Container Stock shall be positioned in the planting hole. Backfill halfway up the root ball. Place tablet (s) beside the root ball approximately 1 inch from the root tips. Do not place tablets in the bottom of the hole. Complete backfill, tamp and water.

PLANTING SCHEDULE

It is recommended that planting be done early in the Spring.

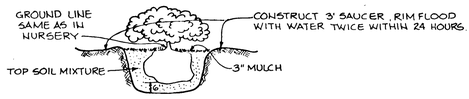
PLANTING MATERIAL

1. Rootstock of wetland plant material shall be kept moist during the transport from the source to the job site and until planted.

2. Plant material shall be planted in the soil provided with each planting pit excavated to a size sufficient to contain the entire root stock or root mass without cramping.

PEST CONTROL

1. All planted oak trees shall be protected from gypsy moth damage by using gypsy moth repellant tape or other suitable means after planting.

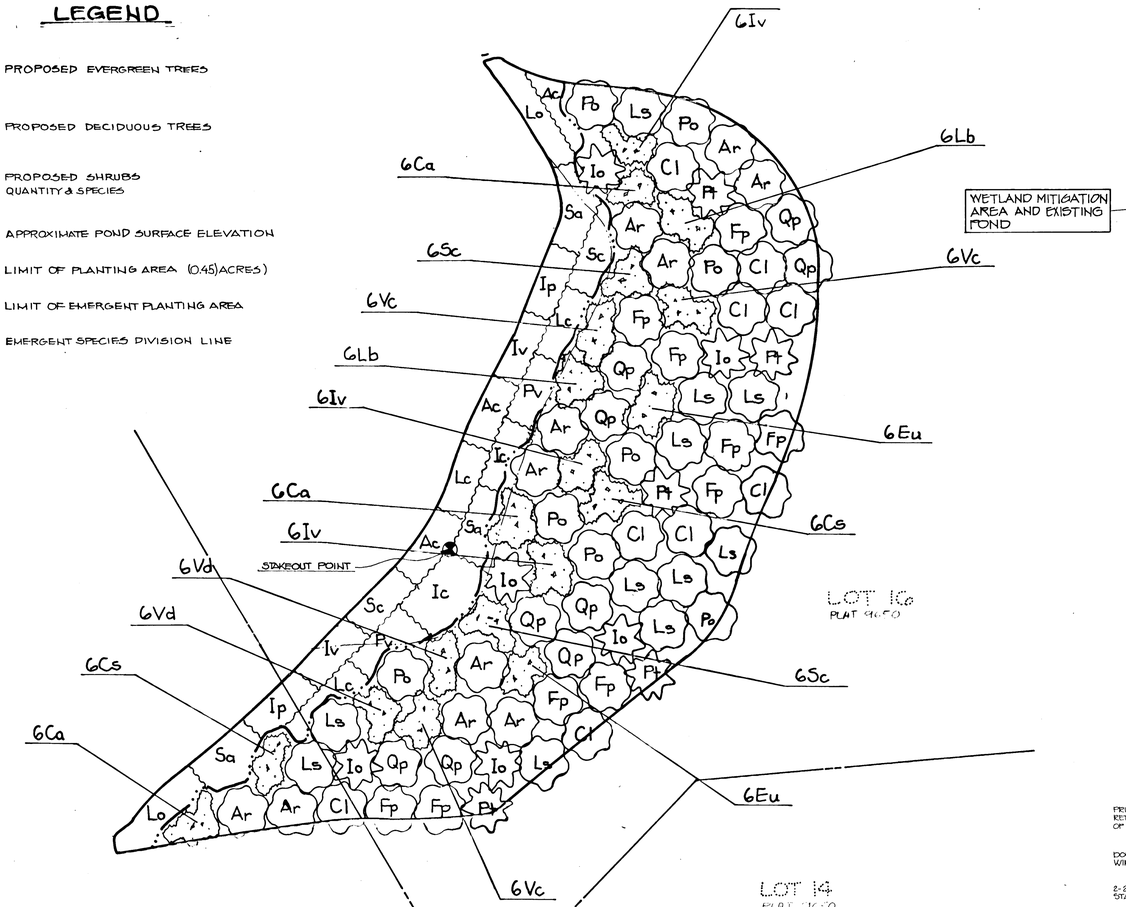


SHRUB PLANTING DETAIL

NO SCALE

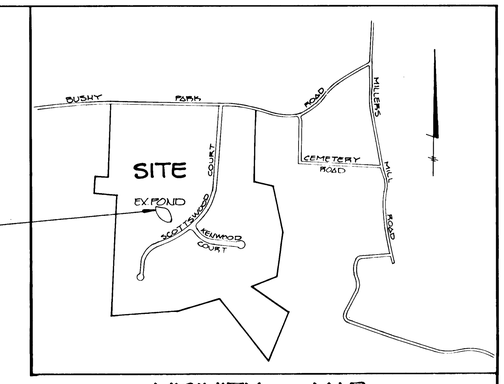
LEGEND

- Io — PROPOSED EVERGREEN TREES
- Ar — PROPOSED DECIDUOUS TREES
- 6Vd — PROPOSED SHRUBS QUANTITY & SPECIES
- APPROXIMATE POND SURFACE ELEVATION
- LIMIT OF PLANTING AREA (0.45) ACRES)
- LIMIT OF EMERGENT PLANTING AREA
- EMERGENT SPECIES DIVISION LINE



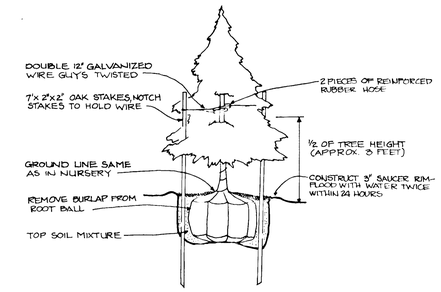
PLANTING PLAN

SCALE 1" = 20'



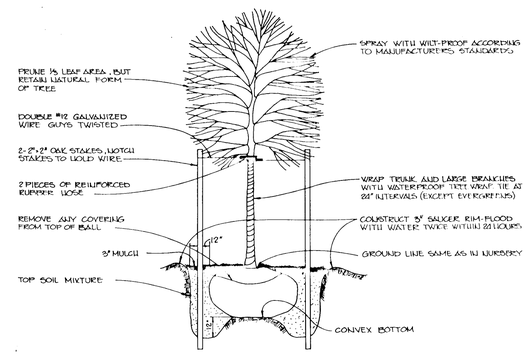
VICINITY MAP

SCALE 1" = 1000'



EVERGREEN PLANTING DETAIL

NO SCALE



TREE PLANTING DETAIL

NO SCALE

PLANT LIST — EMERGENTS

QTY.	SYMBOL	NAME	SIZE	REMARKS
100	Lo	LEERSIA ORYZOIDES Rice Cutgrass	Field Clump	Cont. 2' O.C.
80	Ic	IMPATIENS CAPENSIS Jewelweed	1 Qt.	Cont. 2' O.C.
120	Sa	SCIRPUS AMERICANUS American Threesquare	1 Qt.	Cont. 2' O.C.
120	Ac	ACORUS CALAMUS Sweet Flag	1 Qt.	Cont. 2' O.C.
120	Lc	LOBELIA CARDINALIS Red Cardinal Flower	1 Qt.	Cont. 2' O.C.
80	Pv	PANICUM VIRGATUM Switchgrass	1 Qt.	Cont. 2' O.C.
80	Ip	IRIS PSEUDACORUS Yellow Water Iris	1 Qt.	Cont. 2' O.C.
80	Iv	IRIS VERSICOLOR Blue Flag	1 Qt.	Cont. 2' O.C.
80	Sc	SCIRPUS CYPERINUS Woolgrass	Field Clump	Cont. 2' O.C.

PLANT LIST — SHRUBS

QTY.	SYMBOL	NAME	SIZE	REMARKS
18	Ca	CORNUS AMOMUM Silky Dogwood	36"-48" Ht.	B&B or Cont. 6' O.C.
12	Cs	CORNUS STOLINIFERA Red-Osier Dogwood	36"-48" Ht.	B&B or Cont. 6' O.C.
18	Iv	ILEX VERTICILLATA Winterberry	36"-48" Ht.	B&B or Cont. 6' O.C.
12	Sc	SAMBUCUS CANADENSIS Elderberry	36"-48" Ht.	B&B or Cont. 6' O.C.
12	Eu	ELAEAGNUS UMBELLATA Autumn Olive	36"-48" Ht.	B&B or Cont. 6' O.C.
18	Vc	VACCINIUM CORYMBOSUM Highbush Blueberry	36"-48" Ht.	B&B or Cont. 6' O.C.
12	Vd	VIBURNUM DENTATUM Arrowwood	36"-48" Ht.	B&B or Cont. 6' O.C.
12	Lb	LINDERA BENZOIN Spicebush	36"-48" Ht.	B&B or Cont. 6' O.C.

PLANT LIST — TREES

QTY.	SYMBOL	NAME	SIZE	REMARKS
11	Ls	LIQUIDAMBAR STYRACIFLUA Sweet Gum	1½-2" Cal. 8-10'	B&B Full Head
10	Fp	FRAXINUS PENNSYLVANICA Green Ash	1½-2" Cal. 8-10'	B&B Full Head
11	Ar	ACER RUBRUM Red Maple	1½-2" Cal. 8-10'	B&B Full Head
10	Qp	QUERCUS PALUSTRIS Pin Oak	1½-2" Cal. 8-10'	B&B Full Head
8	Po	PLATANUS OCCIDENTALIS American Sycamore	1½-2" Cal. 8-10'	B&B Full Head
9	Cl	CARYA LACINOSA Shellbark Hickory	1½-2" Cal. 8-10'	B&B Full Head
6	Io	ILEX OPACA American Holly	1½-2" Cal. 6-8'	B&B Full Head
5	Pt	PINUS TAEDA Loblolly Pine	1½-2" Cal. 8-10'	B&B Full Shape

APPROVED DEPT. OF PLANNING AND ZONING

Emma J. Hilbrecht 11/30/92
CHIEF, DIVISION COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS • LAND PLANNERS • LAND SURVEYORS
9171 BALTIMORE NATIONAL PIKE, SUITE 100
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

OWNER & DEVELOPER
CARMAN ASSOCIATES
P.O. BOX 122
ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — RICHARD B. WILDMAN — No. 11858

M.A. DIRCKS & CO., INC.
- WETLANDS DELINEATION
- PERMIT NEGOTIATION
- MITIGATION
- ENVIRONMENTAL ASSESSMENTS

(301) 750-2058
2986 PEBBLE BEACH DRIVE
ELLICOTT CITY, MD. 21043
MARY DIRCKS, PRESIDENT

DESIGNED BY R.B. WILDMAN & M.A. DIRCKS

MITIGATION POND
COUNTRY SPRINGS
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
DATE: NOVEMBER, 21, 1991
SUPPLEMENTAL INFORMATION SHEET 1 OF 2

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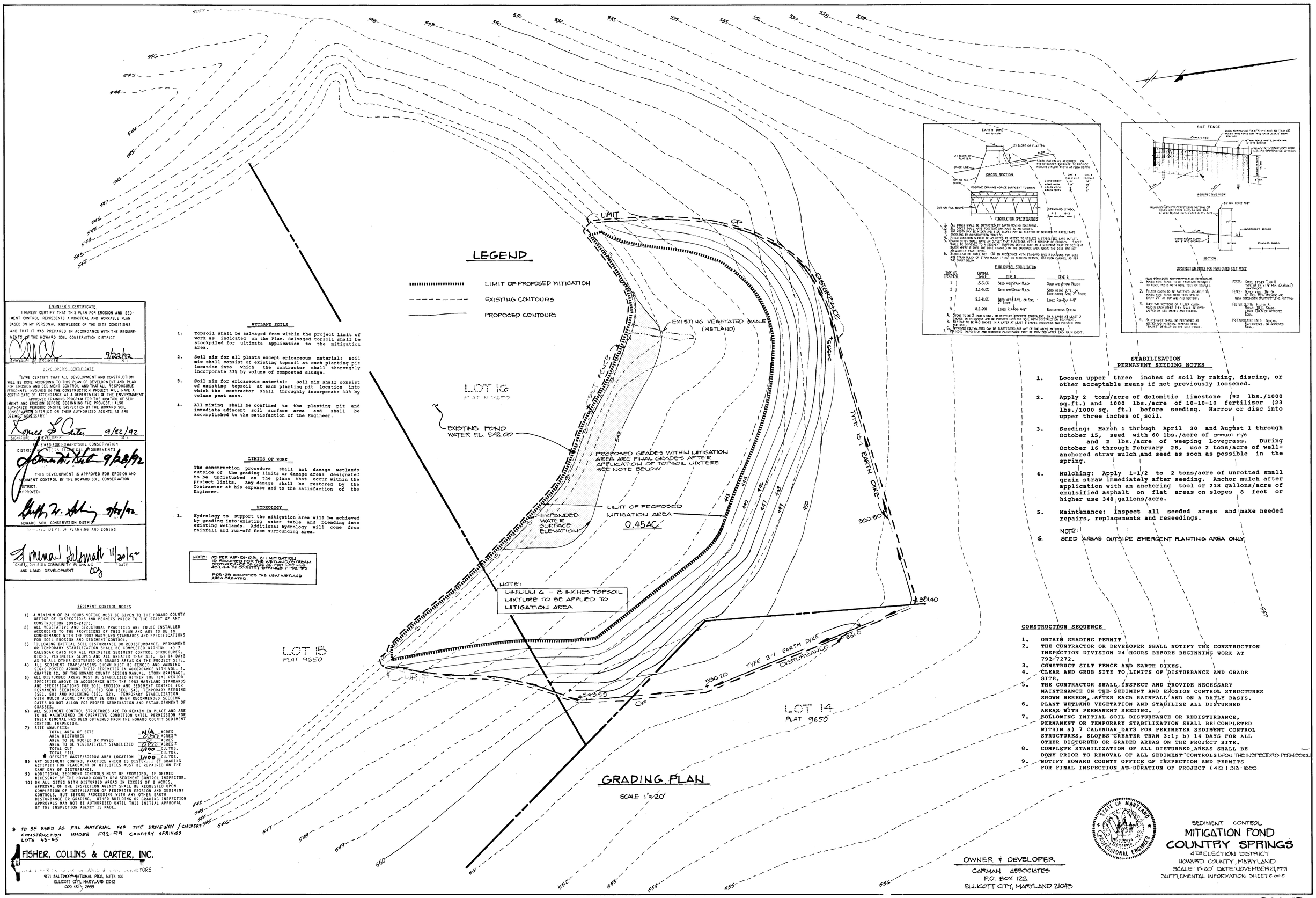

ENGINEER'S CERTIFICATE

I HEREBY 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 — DATE 9/22/92

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 9/22/92

PLAN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT TECHNICAL REQUIREMENTS — DATE 9/28/92

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED:
HOWARD SOIL CONSERVATION DISTRICT — DATE 9/28/92

APPROVED: DEPT. OF PLANNING AND ZONING

CHIEF, DIVISION COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 11/20/92

WETLAND SOILS

1. Topsoil shall be salvaged from within the project limit of work as indicated on the Plan. Salvaged topsoil shall be stockpiled for ultimate application to the mitigation area.

2. Soil mix for all plants except ericaceous material: Soil mix shall consist of existing topsoil at each planting pit location into which the contractor shall thoroughly incorporate 33% by volume of composted sludge.

3. Soil mix for ericaceous material: Soil mix shall consist of existing topsoil at each planting pit location into which the contractor shall throughly incorporate 33% by volume peat moss.

4. All mixing shall be confined to the planting pit and immediate adjacent soil surface area and shall be accomplished to the satisfaction of the Engineer.

LIMITS OF WORK

The construction procedure shall not damage wetlands outside of the grading limits or damage areas designated to be undisturbed on the plans that occur within the project limits. Any damage shall be restored by the Contractor at his expense and to the satisfaction of the Engineer.

HYDROLOGY

1. Hydrology to support the mitigation area will be achieved by grading into existing water table and blending into existing wetlands. Additional hydrology will come from rainfall and run-off from surrounding area.

NOTE: AS PER WP-91-125, 2:1 MITIGATION IS REQUIRED FOR THE WETLAND/STREAM DISTURBANCE OF 0.22 AC. FOR LOT NOS. 45 & 46 OF COUNTRY SPRINGS F-92-99

FOX 22 IDENTIFIES THE NEW WETLAND AREA CREATED.

STABILIZATION
PERMANENT SEEDING NOTES

1. Loosen upper three inches of soil by raking, discing, or other acceptable means if not previously loosened.

2. Apply 2 tons/acre of dolomitic limestone (92 lbs./1000 sq.ft.) and 1000 lbs./acre of 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

3. Seeding: March 1 through April 30 and August 1 through October 15, seed with 60 lbs./acre of annual rye and 2 lbs./acre of weeping Lovegrass. During October 16 through February 28, use 2 tons/acre of well-anchored straw mulch and seed as soon as possible in the spring.

4. Mulching: Apply 1-1/2 to 2 tons/acre of unrotted small grain straw immediately after seeding. Anchor mulch after application with an anchoring tool or 218 gallons/acre of emulsified asphalt on flat areas on slopes 8 feet or higher use 348 gallons/acre.

5. Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

NOTE:
6. SEED AREAS OUTSIDE EMERGENT PLANTING AREA ONLY

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT
2. THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION 24 HOURS BEFORE BEGINNING WORK AT 792-7272.
3. CONSTRUCT SILT FENCE AND EARTH DIKES.
4. CLEAR AND GRUB SITE TO LIMITS OF DISTURBANCE AND GRADE SITE.
5. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
6. PLANT WETLAND VEGETATION AND STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING.
7. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN a) 7 CALENDAR DAYS FOR PERIMETER SEDIMENT CONTROL STRUCTURES, SLOPES GREATER THAN 3:1; b) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
8. COMPLETE STABILIZATION OF ALL DISTURBED AREAS SHALL BE DONE PRIOR TO REMOVAL OF ALL SEDIMENT CONTROLS UPON THE INSPECTOR'S PERMISSION.
9. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT (410) 313-1880.

SEDIMENT CONTROL NOTES

1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1. CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7) SITE ANALYSIS:

TOTAL AREA OF SITE	N/A	ACRES
AREA DISTURBED	0.80	ACRES ±
AREA TO BE ROOFED OR PAVED		ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.80	ACRES ±
TOTAL CUT	1,400	CU.YDS.
TOTAL FILL		CU.YDS.
* OFFSITE WASTE/BORROW AREA LOCATION	1,400	CU.YDS.

8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW 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.

* TO BE USED AS FILL MATERIAL FOR THE DRIVEWAY / CULVERT CONSTRUCTION UNDER F92-99 COUNTRY SPRINGS LOTS 43-45

FISHER, COLLINS & CARTER, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
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P.O. BOX 122
ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — W.J. NOVA — No. 19604

SEDIMENT CONTROL
MITIGATION POND
COUNTRY SPRINGS
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=20' DATE: NOVEMBER 21, 1991
SUPPLEMENTAL INFORMATION SHEET 2 OF 2

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