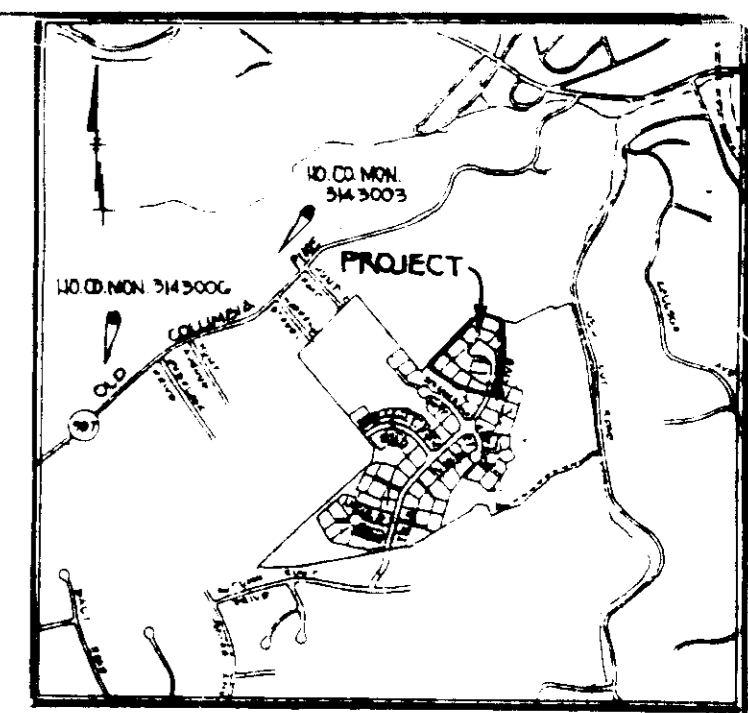


LOT NO.	LOT SIZE	HOUSE SIZE	BUILDING COVERAGE	MIN. CELLAR HL	STREET ADDRESS
79	2,688	1,048	39%	307.3	8610 TRAIL VIEW DR.
80	2,100	1,048	50%	307.3	8612 TRAIL VIEW DR.
81	2,100	1,048	50%	305.8	8614 TRAIL VIEW DR.
82	2,650	1,048	39%	309.3	8616 TRAIL VIEW DR.
83	2,700	1,048	39%	303.8	8620 TRAIL VIEW DR.
84	2,100	1,048	50%	304.1	8622 TRAIL VIEW DR.
85	2,100	1,048	50%	304.3	8624 TRAIL VIEW DR.
86	2,700	1,048	39%	304.3	8626 TRAIL VIEW DR.
87	2,700	1,048	39%	311.0	8630 TRAIL VIEW DR.
88	2,100	1,048	50%	311.0	8632 TRAIL VIEW DR.
89	2,100	1,048	50%	305.7	8634 TRAIL VIEW DR.
90	2,700	1,048	39%	309.0	8636 TRAIL VIEW DR.
91	2,960	1,048	35%	310.8	8637 TRAIL VIEW DR.
92	1,920	1,048	54%	310.3	8635 TRAIL VIEW DR.
93	1,920	1,048	54%	310.3	8633 TRAIL VIEW DR.
94	2,800	1,048	37%	306.5	8631 TRAIL VIEW DR.
95	2,880	1,048	36%	306.5	8627 TRAIL VIEW DR.
96	1,920	1,048	54%	306.7	8625 TRAIL VIEW DR.
97	1,920	1,048	54%	306.8	8623 TRAIL VIEW DR.
98	2,880	1,048	36%	307.2	8621 TRAIL VIEW DR.

ZONED R-ED
HOWARD COUNTY SANITARIUM
L.557 F.405



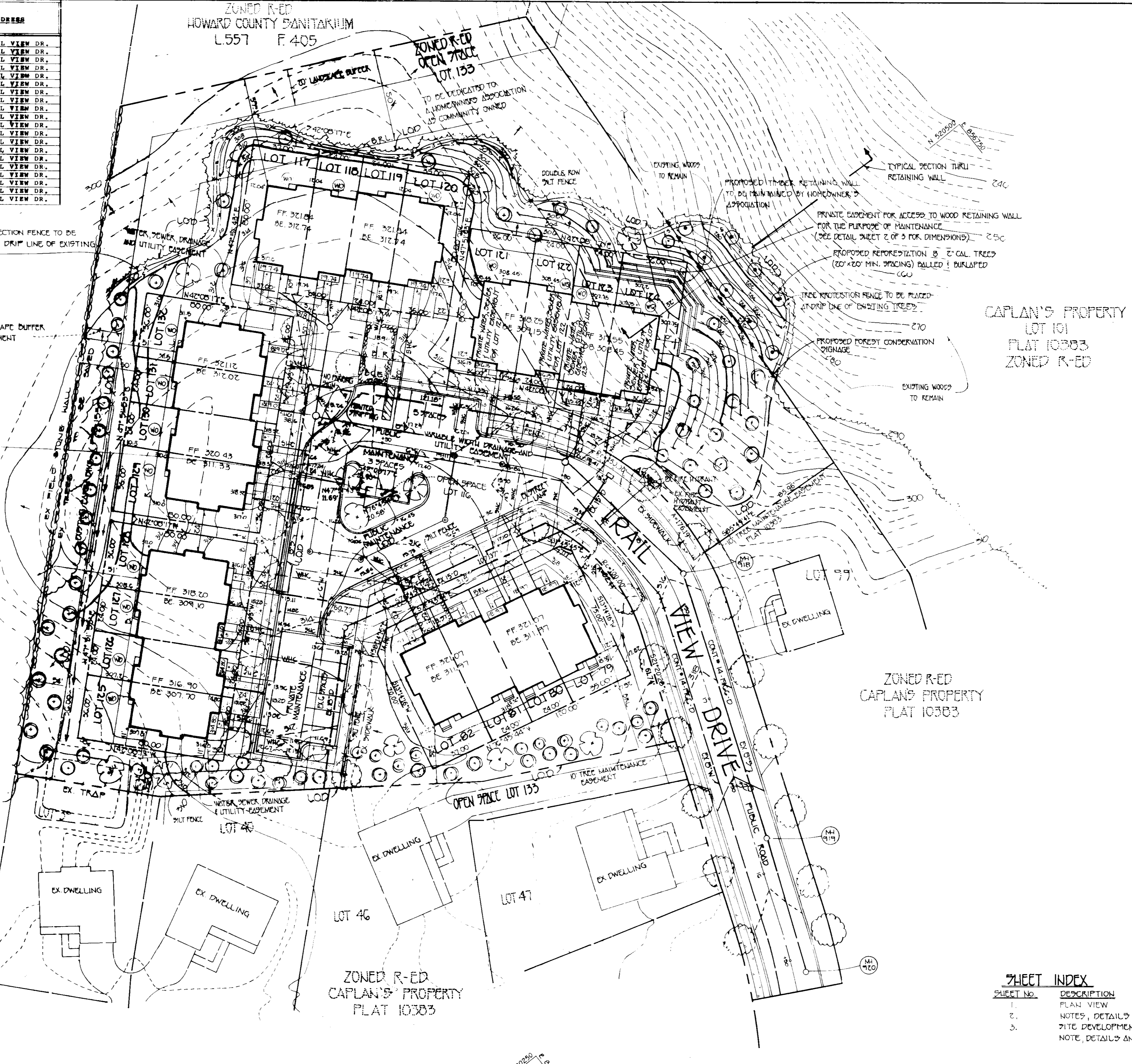
ZONED R-ED
WILLIAM H. TUTEN
L.107 F.405

NOTE:
THE 20 FOOT WIDE LANDSCAPE BUFFER SHOWN ON THIS PLAN IS REQUIRED BY SECTION 16.11G (F)(1) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. NO CLEARING OF EXISTING VEGETATION IS PERMITTED; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.

LEGEND:
LOD - LIMITS OF DISTURBANCE
--- EXISTING CONTOUR 2' INTERVAL
--- EXISTING CONTOUR 10' INTERVAL
--- PROPOSED CONTOUR 2' INTERVAL
--- PROPOSED CONTOUR 10' INTERVAL
+CE4 SPOT ELEVATION
PROPOSED WALKOUT
PROPOSED TREE PROTECTION FENCE
FF FIRST FLOOR ELEVATION
DE BASEMENT ELEVATION
DE DOUBLE ROW SILT FENCE

KEY	TYPE	QUANTITY	SIZE	COND.
(Symbol)	WASHINGTON WAXTHORN (CRETAEGUS PHENOXYLUM)	21	3" CAL	DB
(Symbol)	STREET TREE: SUGAR MAPLE (AGROSCACCHARUM) SEE F 10-155	EXISTING	TREES	
(Symbol)	WHITE PINES (PINUS STROBUS)	75	6"-7" HT.	DB

EXISTING TRAP DATA
#4 F 10-155
1. DRAINAGE AREA = 1.50 AC
2. STORAGE REQ'D = 2700 CFS
3. STORAGE PROVIDED = 2808 CF
4. BOTTOM ELEV. = 216.00
5. CREST ELEV. = 200.00
6. CLEANOUT ELEV. = 217.50
7. CREST WIDTH = 60 FT
8. BOTTOM DIM. = 30" X 20" X 3
9. SIDE SLOPES = 2:1



- SITE ANALYSIS
- TOTAL AREA OF BUILDABLE LOTS: 1.10 AC±
 - TOTAL AREA OF DISTURBANCE: 2.20 AC±
 - PRESENT ZONING: R-ED
 - PROPOSED USE OF STRUCTURES: SINGLE FAMILY ATTACHED
 - TOTAL NUMBER OF DWELLING UNITS:
 - TOTAL IMPERVIOUS AREA: 0.55 AC±
 - TOTAL REVEGETATED AREA: 1.65 AC±

- PARKING DATA
- UNITS 79 THROUGH 117, 119, 124 AND 125 TO UTILIZE GARAGE UNITS. ONE CAR WILL BE PARKED INSIDE, THE SECOND CAR WILL BE OUTSIDE IN FRONT OF THE UNIT.
 - UNITS 121, 122, 117 AND 118 ARE TO UTILIZE PARKING SPACES. PARKING REQUIRED IS 8 SPACES
4 DU X 2 SPACES PER UNIT
PARKING PROVIDED IS 14 SPACES

NOTE: PRIVATE MAINTENANCE WITHIN COUNTY RIGHT-OF-WAY SHALL INCLUDE ROUTINE MAINTENANCE SUCH AS LITTER REMOVAL, RESTRICTIONS, ETC. THE COUNTY SHALL BE RESPONSIBLE FOR PAVEMENT RESURFACING AND STRUCTURAL (E.G. CURB, DRAIN) REPAIR.

- GENERAL NOTES
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES S 89-23, P 89-71, P 90-155 AND CONTRACT 14-1966 D WARD S.
 - SURVEY WAS PREPARED BY DEWBERRY AND DAVIS ON OR ABOUT MARCH, 1990.
 - HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON IS BASED ON HOWARD COUNTY GEODETIC CONTROL STATIONS.
 - STORMWATER MANAGEMENT CONTROL WAS APPROVED UNDER F 90-155.
 - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
 - EXISTING UTILITIES WERE LOCATED FROM EXISTING ROAD CONSTRUCTION DRAWINGS AND EXISTING WATER AND SEWER CONTRACT.
 - TOTAL NUMBER OF PROPOSED LOTS: 20
 - SUBMISSION AREA = 18.0 AC±.
 - THIS SITE DEVELOPMENT PLAN IS SUBJECT TO PLANNING BOARD CASE 249 AS GRANTED THE 14 DAY OF APRIL, 1989.
 - GARAGES SHALL BE FOR PARKING PURPOSES ONLY IN ACCORDANCE WITH SECTION 127.B.2b(18) OF THE ZONING REGULATIONS.
 - MAXIMUM ALLOWABLE COVERAGE BY STRUCTURES IS 60% MINIMUM LOTS SIZE TO ACCOMMODATE THE STRUCTURES FOR THIS SITE IS = 1,825 SF.

SHEET INDEX

SHEET No.	DESCRIPTION
1.	PLAN VIEW
2.	NOTES, DETAILS AND SITE DEVELOPMENT PLAN
3.	NOTE, DETAILS AND REFORESTATION

OWNER/DEVELOPER
MULTI HOME CORPORATION
BALTIMORE OPERATIONS
SUITE K, 1501 SOUTH EDGEWOOD STREET
BALTIMORE, MARYLAND 21227

ENGINEER'S CERTIFICATE
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
917 BALTIMORE NATIONAL PKE., SUITE 100
ELLCOTT CITY, MARYLAND 21042
410 461 - 2895

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: [Signature]
DATE: 10/27/93

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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Signature: [Signature]
DATE: 10/26/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Signature: [Signature]
DATE: 11/1/93
DISTRICT APPROVED
Signature: [Signature]
DATE: 11/1/93
HOWARD SOIL CONSERVATION DISTRICT

APPROVED DEPT. OF PLANNING AND ZONING
Signature: [Signature]
DATE: 12/20/93
Signature: [Signature]
DATE: 12/20/93
APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
Signature: [Signature]
DATE: 12/17/93

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
Signature: [Signature]
DATE: 12/14/93
Signature: [Signature]
DATE: 12/14/93
PROPERTY/SUBDIVISION: CAPLAN PROPERTY
SECTION/AREA: 71-80 (S-182) 117-124
LOT NO.: 79-124
PLAT NO.: 10383-10742
BLOCK NO.: 15
ZONE: R-ED
TAX/ZONE: 25
ELEC. DIST.: 2
CENSUS TR.: 602B
WATER CODE: F-04
SEWER CODE: 1400500

SITE DEVELOPMENT PLAN
CAPLAN'S PROPERTY
LOTS 79 THROUGH 82, LOTS 125 THROUGH 132 AND LOTS 117 THROUGH 124
TAX MAP 25 PARCELS 80, 82 PART OF 210 ZONED R-ED
ELEC. DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30'
DATE: OCTOBER 19, 1993
F 07-11
SHEET 1 OF 3
SDP 73-45

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) 500 (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	2.20 ACRES
AREA TO BE ROOFED OR PAVED	0.55 ACRES
AREA TO BE VEGETATIVELY STABILIZED	1.65 ACRES
TOTAL CUT	1000 CU. YDS.
TOTAL FILL	1000 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	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, ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES.
- 10) 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.

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS WANTED.

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW. OR UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 238 GALLONS PER ACRE (3 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:

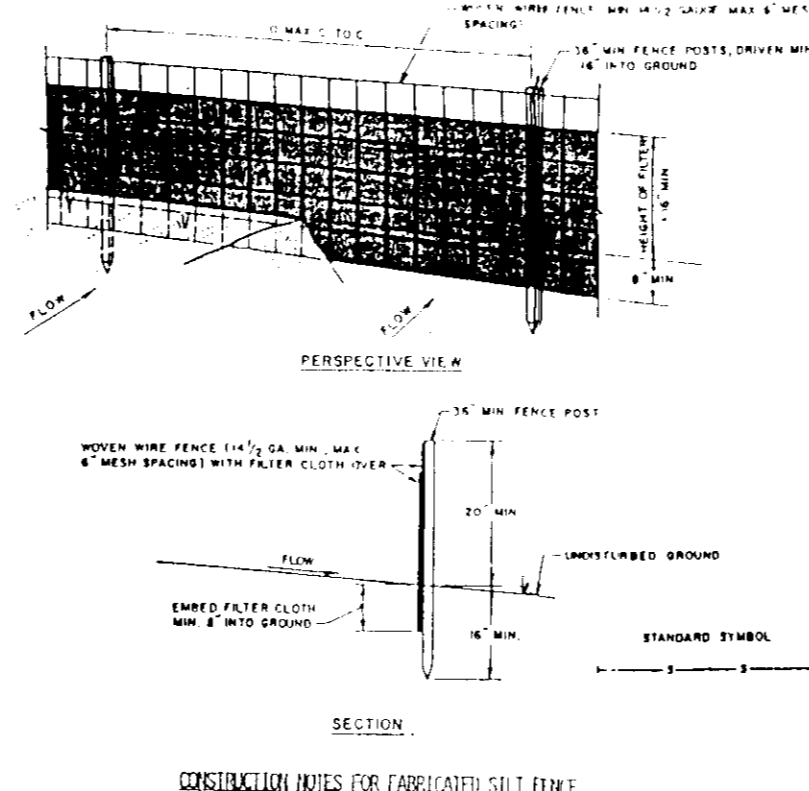
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

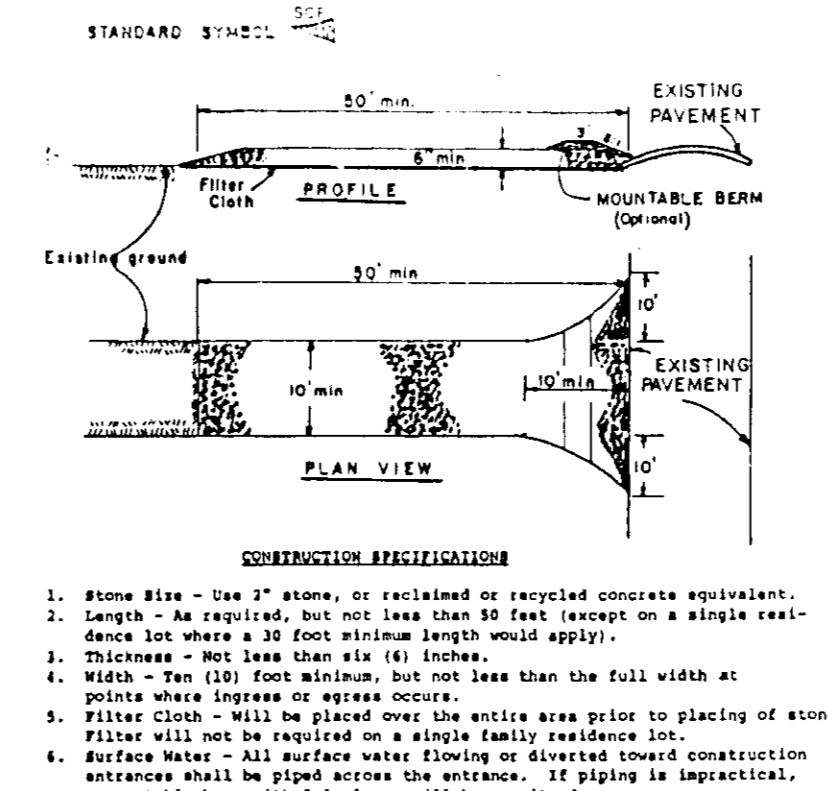
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 278 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

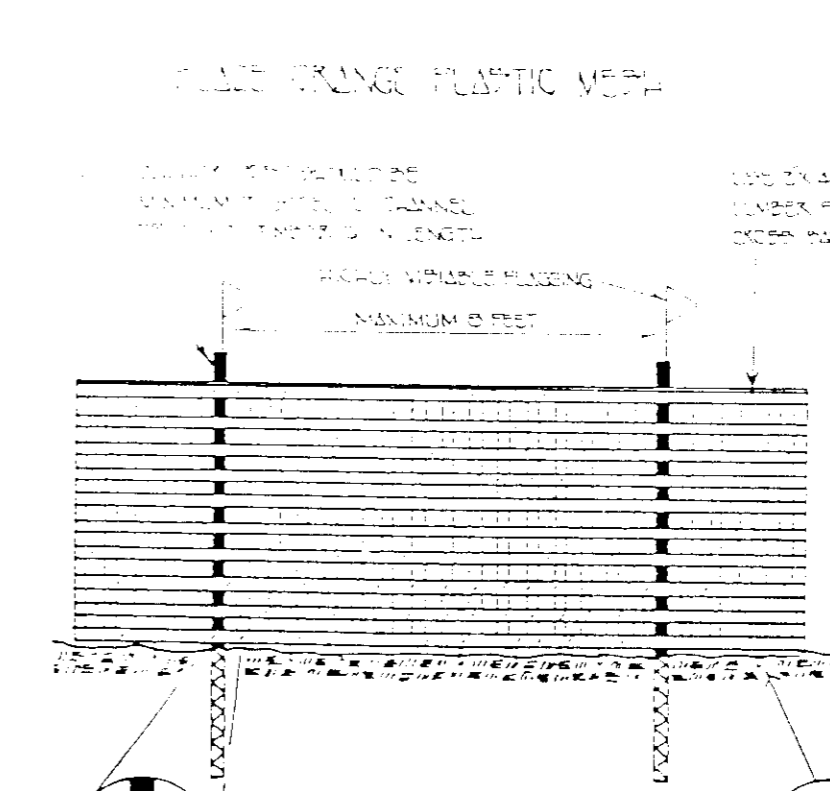
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



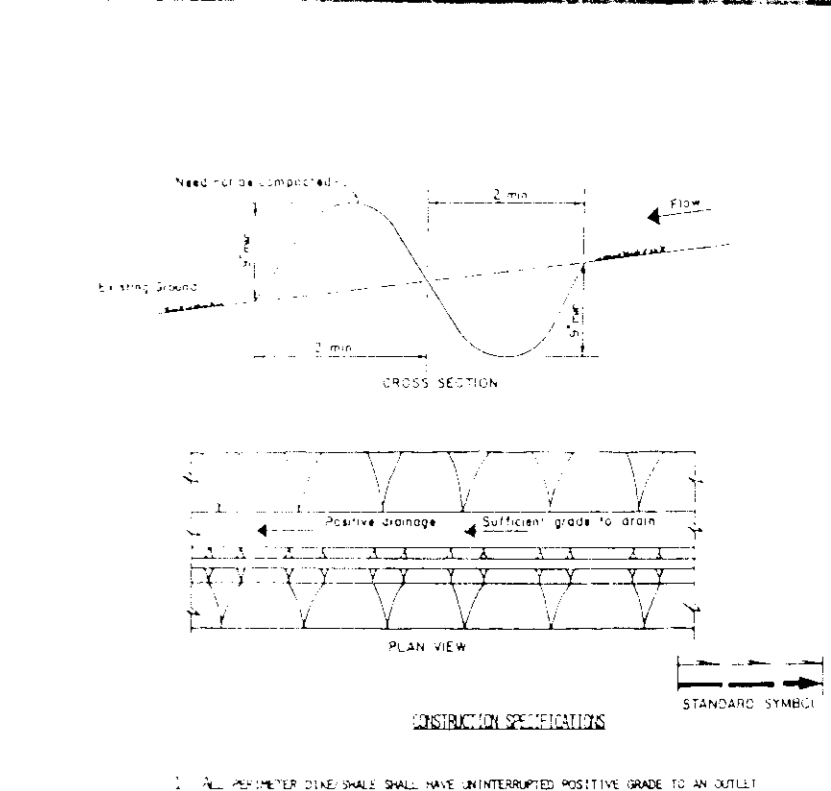
- CONSTRUCTION NOTES FOR CALCULATED SILT FENCE:**
1. WHEN WIRE FENCE IS FASTENED TO WOODEN PILES WITH NAILS, USE 16 D. GALV. NAILS.
 2. FILTER CLOTH IS FASTENED TO WOODEN PILES WITH NAILS SPACED EVERY 4\"/>



- CONSTRUCTION SPECIFICATION:**
1. Stone Size - Use 3\"/>



- CONSTRUCTION SPECIFICATION:**
1. All perimeter dikes shall have an interrupted positive grade to an outlet.
 2. Dikes shall be installed in a manner which will prevent them from being washed away.
 3. Dikes shall be installed in a manner which will prevent them from being washed away.
 4. Dikes shall be installed in a manner which will prevent them from being washed away.
 5. Dikes shall be installed in a manner which will prevent them from being washed away.
 6. Dikes shall be installed in a manner which will prevent them from being washed away.



- CONSTRUCTION SPECIFICATION:**
1. All perimeter dikes shall have an interrupted positive grade to an outlet.
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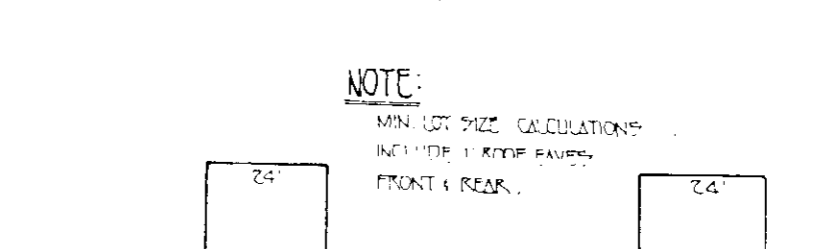
SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT
2. INSTALL TREE PROTECTION FENCE
3. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN
4. INSTALL TEMPORARY SEEDING
5. EXCAVATE FOR FOUNDATIONS AND ROUGH GRADE
6. CONSTRUCT STRUCTURES, SIDEWALKS AND DRIVEWAYS
7. FINE GRADE AND INSTALL PERMANENT SEEDING
8. REMOVE SEDIMENT AND EROSION CONTROL DEVICES AS PERMITS ARE GRANTED BY SEDIMENT CONTROL INSPECTION.

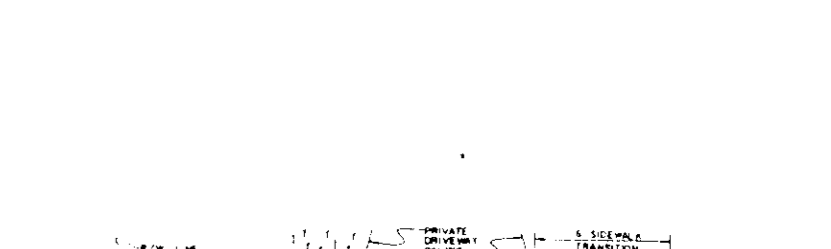
STABILIZED CONSTRUCTION ENTRANCE



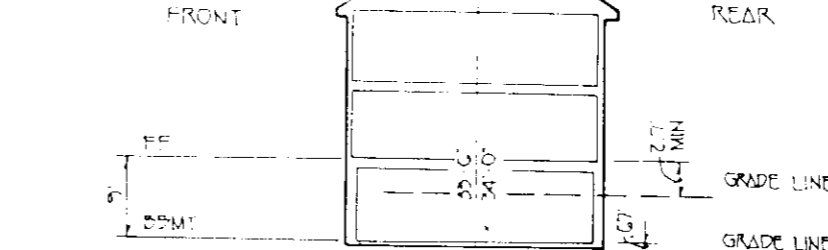
TREE PROTECTION DETAIL



EARTH DIKE DETAIL



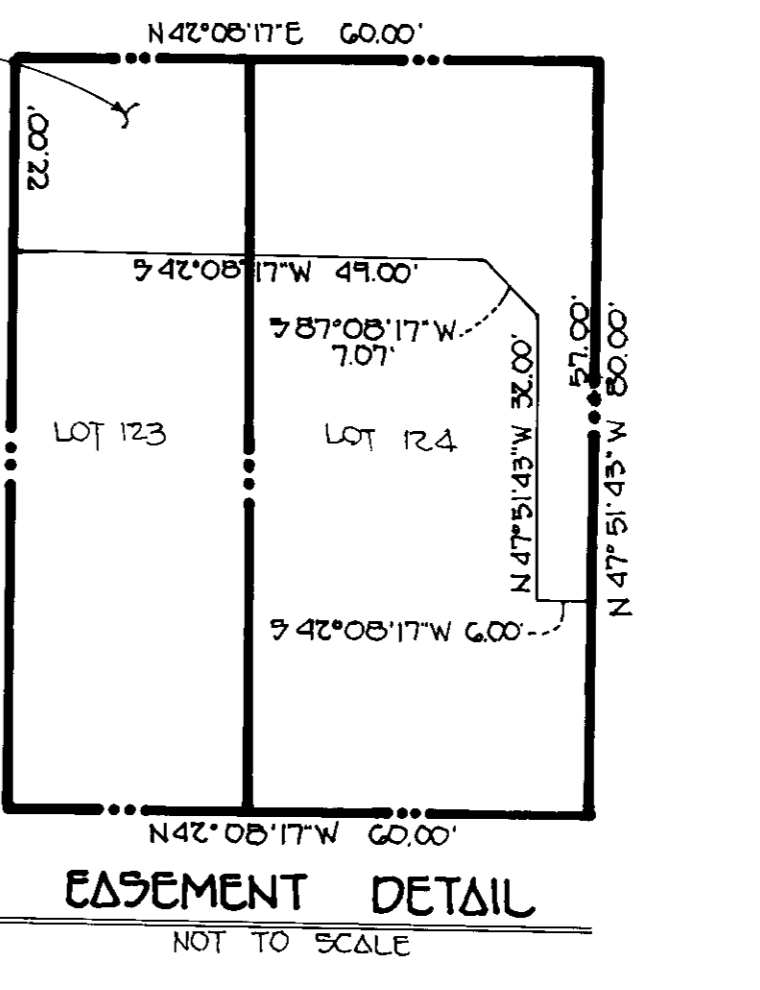
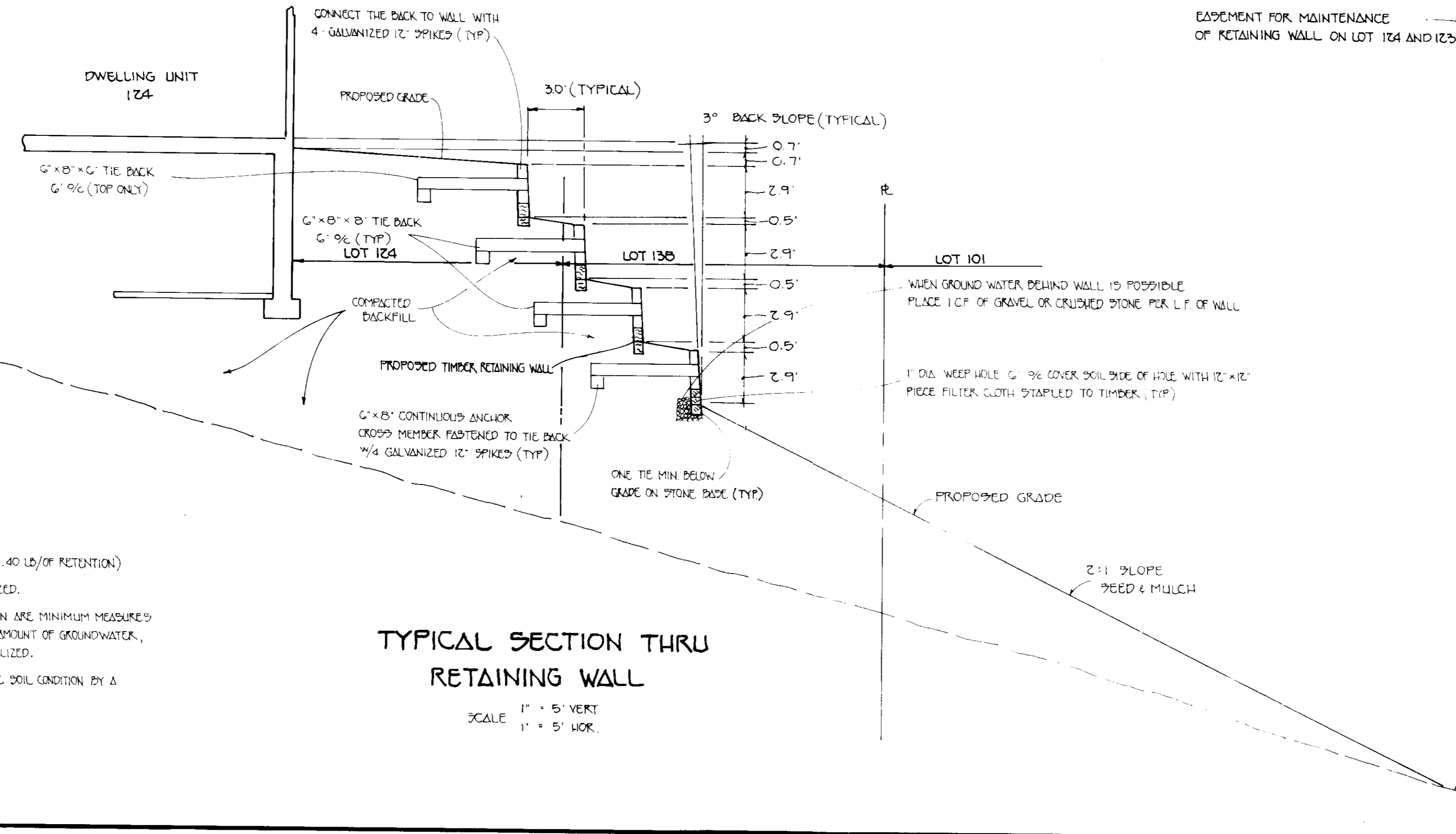
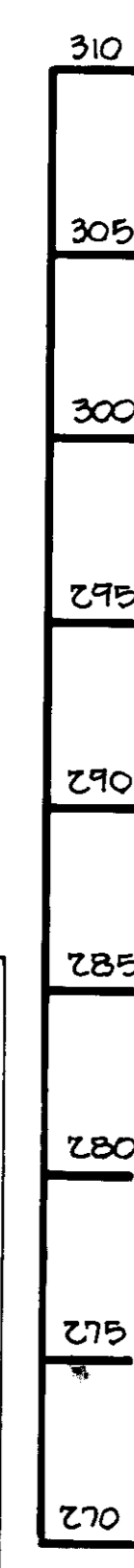
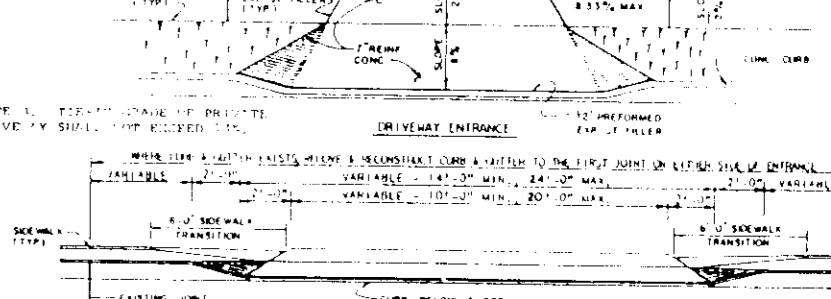
TYPICAL BUILDING PROFILE



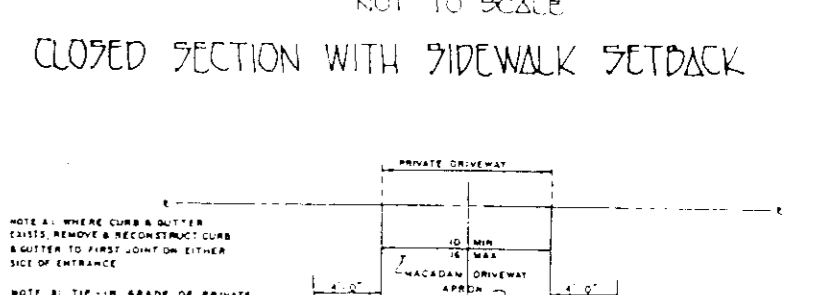
NOTE:

1. MIN. LOT SIZE CALCULATIONS
2. FRONT & REAR
3. INT. UNIT
4. FRONT LOAD

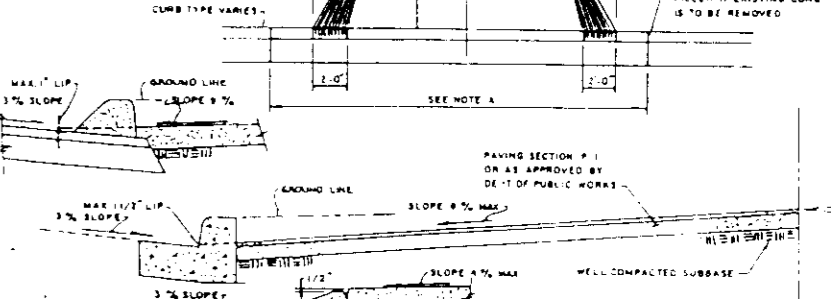
RESIDENTIAL DRIVEWAY ENTRANCE



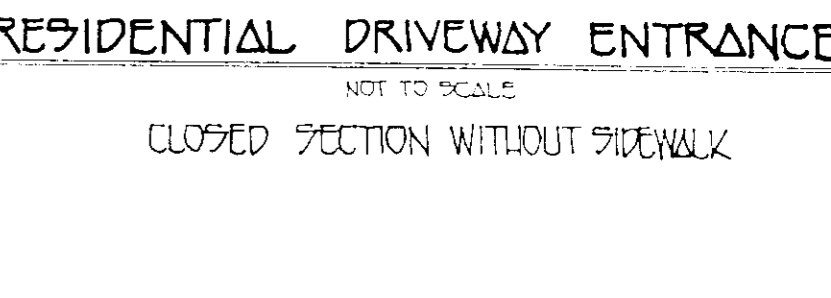
RESIDENTIAL DRIVEWAY ENTRANCE



RESIDENTIAL DRIVEWAY ENTRANCE



RESIDENTIAL DRIVEWAY ENTRANCE



OWNER / DEVELOPER

FULTE HOME CORPORATION
BALTIMORE OPERATIONS
SUITE K, 1501 SOUTH EDGEWOOD STREET
BALTIMORE, MARYLAND 21227



NOTE:

1. TIMBERS SHALL BE EITHER:
 - A) CRACKED TREATED RAILROAD TIES
 - B) CCA TREATED LANDSCAPING TIMBERS (.40 LB/OF RETENTION)
2. HARDWARE SHALL BE HOT DIPPED GALVANIZED.
3. WEEDHOLES WITH OR WITHOUT GRAVEL DRAIN ARE MINIMUM MEASURED FOR GROUNDWATER. FOR ANY SUBSTANTIAL AMOUNT OF GROUNDWATER, A DRAIN SYSTEM SHOULD BE DESIGNED AND UTILIZED.
4. DESIGN SHALL BE VERIFIED FOR SITE SPECIFIC SOIL CONDITION BY A PROFESSIONAL GEOTECHNICAL ENGINEER.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS AND SURVEYORS
1971 BALTIMORE NATIONAL PIKE SUITE 100
ELLSWORTH CITY, MARYLAND 21042
TELEPHONE (410) 461-2555
FAX (410) 750-3784

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: [Signature]
DATE: 10/27/93

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 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: [Signature]
DATE: 10/27/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Signature: [Signature]
DATE: 11/1/93

Signature: [Signature]
DATE: 11/1/93

APPROVED DEPT OF PLANNING AND ZONING

Signature: [Signature]
DATE: 12/20/93

Signature: [Signature]
DATE: 12/20/93

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

Signature: [Signature]
DATE: 12/14/93

Signature: [Signature]
DATE: 12/14/93

CAPLAN'S PROPERTY
LOTS 79 THROUGH 82, LOTS 125 THROUGH 132 AND LOTS 117 THROUGH 124

TAX MAP 25 PARCELS 30, 32 & PART OF 210 ZONED R-10
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 19, 1973
SHEET 2 OF 3

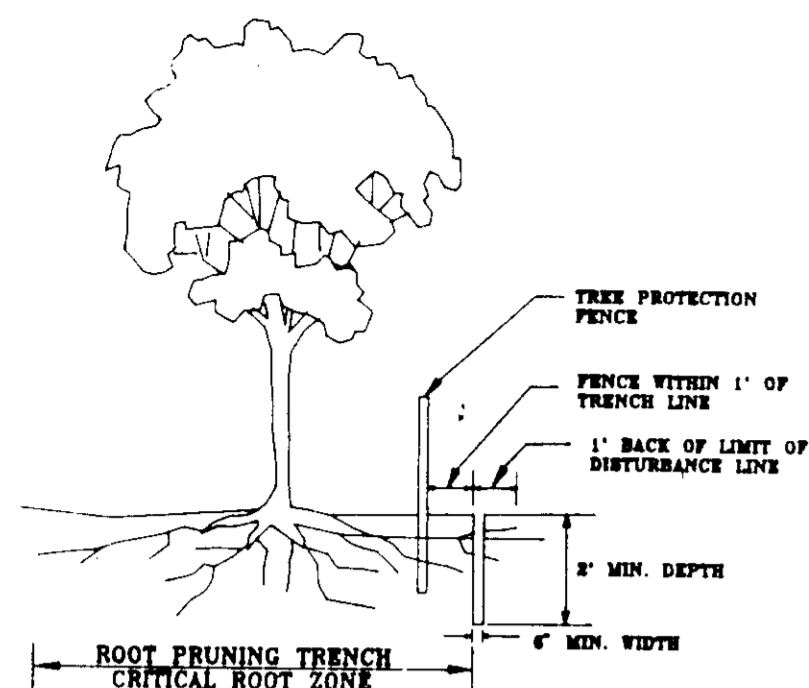
Reforestation and Afforestation Area Protection Signage

REFORESTATION AREA NOTES

PLANTING METHODOLOGY NOTES

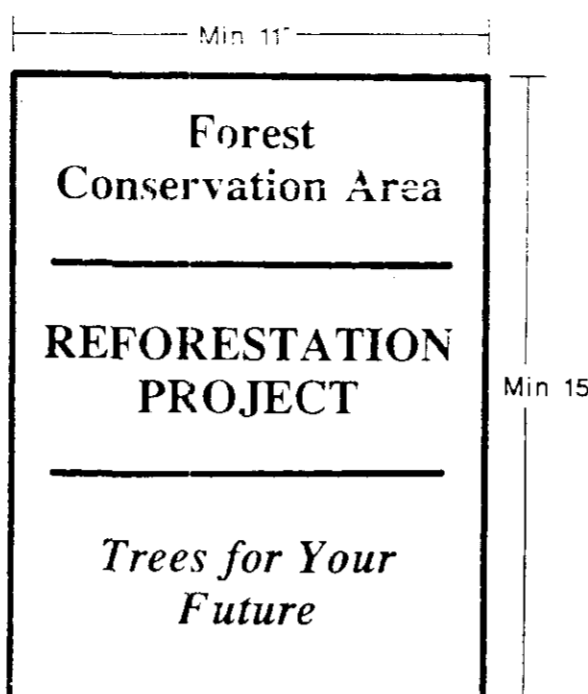
- TOTAL AREA TO BE REFORESTED: 2000 SQ. FT. (2000 SQ. YDS.) PROVIDED: 1000 2" CAL. STOCKS BY 0000 ACRES. PLANTING: 1000 2" CAL. STOCKS BY 0000 ACRES. PROPOSED TREES: 0
- SOIL AMENDMENT AND FERTILIZATION RECOMMENDATIONS WILL BE MADE BASED UPON THE RESULTS OF SOIL ANALYSES FOR NITROGEN, PHOSPHORUS, POTASSIUM, ORGANIC MATTER CONTENT AND PH. WOODLAND REPLACEMENT AREAS WILL BE PREPARED BY BROADCASTING OR CHISEL-BROADCASTING TO A DEPTH NOT LESS THAN 4" FROM THE SURFACE. IF REQUIRED TO INCREASE TILTH AND WATER HOLDING CAPACITY, ORGANIC MATTER WILL BE INCORPORATED AT THE TIME OF SURFACE PREPARATION. IF NEEDED, LIME AND FERTILIZER WILL BE APPLIED AS A BROADCAST SIX TO TEN INCHES (6-10") FROM THE CENTERLINE OF THE PLANTING ROWS. THESE MATERIALS WILL BE WORKED INTO THE SOIL USING A DISC OR CHISEL BROADCAST OR OTHER MORE SPECIALIZED EQUIPMENT. APPLY FOOD CROPS OR HARDWOOD BARK MULCH IN A 2' MIN. RADIUS AROUND EACH TREE AS SHOWN IN THE DETAIL PROVIDED.
- PLANT MATERIALS WILL CONSIST OF 2" CAL. STOCK. HARDWOOD PLANTING WILL CONSIST OF A RANDOMIZED MIX OF FOUR MAJOR SPECIES: TULIP POPLAR, PINEET GUM, MIXED OAKS AND RED MAPLE, AND ONE MINOR SPECIES: FLOWERING DOGWOOD.

- STOCK WILL BE HAND-PLANTED. TYPICAL PLANTING DETAILS FOR PLANTING IS SHOWN IN PLANTING DETAIL.
- HOLE SHOULD BE DEEP ENOUGH TO PLACE PLANTS WITHOUT RE-CURVING THE ROOT SYSTEM (I-BOOTING) BUT SHALLOW ENOUGH THAT THE SOIL SURFACE IS JUST ABOVE THE PLANT ROOT COLLAR.
- SEED OR SEED FERTILIZER-MULCH MIXTURES WILL BE SPREAD BY THE MOST EFFICIENT AND PRACTICAL METHOD AVAILABLE. ALL SEEDS REQUIRING PRE-TREATMENT WILL BE THOROUGHLY PREPARED ACCORDING TO THE INSTRUCTIONS OF THE SUPPLIER PRIOR TO INCORPORATION INTO THE SEEDING MIXTURE. ALL SEEDING MIXES OR GRASS-FOR MIXTURES SHALL LEAVE A MULCHED, UNDEGRADED AREA OF NO LESS THAN TWO FEET ADJACENT TO ALL TREE PLANTINGS.
- MULCH MAY BE APPLIED BY HAND OR BY SUITABLE EQUIPMENT.
- GRASS-FOR SEEDING MIXTURE OR HERBACEOUS STRIPS IS INCLUDED IN DETAIL.



- NOTES:
- RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS
 - BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED FLAGGED PRIOR TO TRENCHING
 - EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.
 - TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH ORGANIC SOIL
 - ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
- SOURCE: CITY OF GAITHERSBURG, MARYLAND

ROOT PRUNING DETAIL NOT TO SCALE



SIGNAGE DETAIL NOT TO SCALE

MONITORING PLAN NOTES

- MONTHLY VISITS DURING THE FIRST GROWING SEASON (YEAR 1) ARE TO ASSESS THE SUCCESS OF THE PLANTING AND TO DETERMINE IF SUPPLEMENTAL WATERING OR OTHER ACTIONS ARE NECESSARY. EARLY SPRING VISITS WILL DETERMINE WINTER KILL AND AUTUMN VISITS WILL DETERMINE SUMMER KILL.
- STOCK SURVIVAL IS ESTIMATED TO BE 80% THREE YEARS AFTER TWO YEARS IF SURVIVAL FALLS BELOW 80% THE AREA WILL BE REPLANTED TO MEET AN AVERAGE DENSITY OF 200 TREES PER ACRE OVER THE ENTIRE AFFORESTATION AREA.
- SURVIVAL WILL BE DETERMINED BY A STRATIFIED RANDOM SAMPLING OF THE PLANTING. SAMPLE LOCATIONS WILL BE CHOSEN PRIOR TO PLANTING. THE SPECIES COMPOSITION OF THE SAMPLE POPULATION SHOULD BE PROPORTIONATE TO THE AMOUNT OF EACH SPECIES IN THE ENTIRE PLANTING TO BE PLANTED.

FOREST MANAGEMENT NOTES

PRECONSTRUCTION
CONDUCT A PRECONSTRUCTION MEETING WITH CONTRACTOR TO ENSURE FOREST PROTECTION MEASURES ARE FOLLOWED.

DURING CONSTRUCTION
PROVIDE MAINTENANCE TO TREE PROTECTION DEVICES.
WATER TREES HAVING CRITICAL ROOT ZONE IMPACTS ON A BI-WEEKLY BASIS OR AS NEEDED.
MONITOR CONDITIONS OF REMAINING TREES, I.E. INSECT INFESTATIONS, LEAF DISCOLORATION, EARLY LEAFDROOP, ETC.

POST CONSTRUCTION TWO (2) YEAR MINIMUM
INSPECT EXISTING TREES AROUND THE PERIMETER OF DISTURBED LIMITS FOR SIGNS OF VOLT OR TRUNK DAMAGE AND SOIL COMPACTION.
EVALUATE REMAINING TREES FOR SIGNS OF STRESS AND CONDUCT APPROPRIATE CULTEVAL MANAGEMENT, CROWN REDUCTION, PRUNING, WATERING, SOIL AERATION, FERTILIZING, ETC. REMOVE DEAD OR DYING TREES AND EVALUATE FOR HAZARD TREES.

* A LICENSED ARBORIST OR FORESTER SHOULD BE RETAINED FOR THESE SERVICES.

FENCING AND SIGNAGE NOTES

- WOODLAND CONSERVATION/TREE SAVE AREAS AND LIMITS OF CLEARING WILL BE CLEARLY MARKED PRIOR TO THE BEGINNING OF ANY ACTIVITIES.
- IF DETERMINED TO BE NECESSARY, THE AFFORESTATION AREA WILL BE ENCLOSED BY A POST AND RMOOTH WIRE FENCE, SUITABLY MARKED TO IDENTIFY THE AREA. THE FENCE SHALL BE OF SUFFICIENT CONSTRUCTION TO PREVENT ENTRY AND MARKED AT SUITABLE FREQUENCY WITH CONSPICUOUS MARKERS AND SIGNAGE.

GRASS-FOR SEEDING MIXTURE

SPECIES	AMOUNT (LBS/AC)
PERENNIAL RYEGRASS	5
ORCHARDGRASS	4
KORLAN LESPEDEZA	10

MIXTURE TO BE SPRUNG SOVN
SOURCE: VOGAL 1980

PRESERVATION AREA NOTES

- ALL PROPOSED ACTIVITIES SHALL CONFORM TO THE TERMS, CONDITIONS AND SCHEDULES OF AN APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- BLAZE ORANGE PLASTIC FENCE SHALL BE INSTALLED ALONG ALL TREE SAVE AREAS THAT ARE WITHIN FIFTY FEET (50') OF PROPOSED CONSTRUCTION ACTIVITIES. THE TREE PROTECTIVE DEVICES SHALL BE IN PLACE AT THE TIME CONSTRUCTION ACTIVITIES COMMENCE. NO PROTECTIVE DEVICES SHALL BE INSTALLED ALONG TREE SAVE AREAS THAT ARE GREATER THAN FIFTY (50) FEET FROM CONSTRUCTION ACTIVITY. THE LOCATION OF ALL TREE PROTECTION DEVICES ARE SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN DRAWINGS WHICH WILL BE INCORPORATED INTO THIS TREE CONSERVATION PLAN BY REFERENCE.

SOIL EROSION AND SEDIMENT CONTROL NOTES

SOIL EROSION AND SEDIMENT CONTROL NOTES

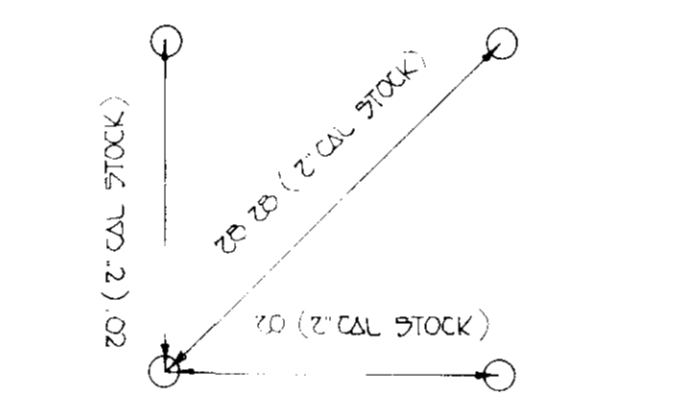
- ALL ACTIVITIES SHALL CONFORM TO THE TERMS, CONDITIONS, AND SCHEDULES OF A SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- ALL FENCES & PRACTICAL EROSION AND SEDIMENT CONTROL DEVICES WILL BE INTEGRATED INTO THE TREE CONSERVATION PLAN.
- ALL ACTIVITIES SHALL BE DESIGNED TO MINIMIZE SEDIMENTATION AND EROSION INTO AND ADJACENT TO TREE PRESERVATION AREAS.

PLANTING MATERIALS & HANDLING NOTES

- PLANTING MATERIALS WILL CONSIST OF DIALLED AND DULF 2" CAL. STOCK WITH MINIMUM HEIGHT AS SHOWN IN PLAN DETAIL. ALL STOCK WILL BE PLANTED AS RECEIVED. NO ROOT OR TOP PRUNING WILL BE DONE AT THE SITE. STOCK NOT MEETING SPECIFICATIONS SHALL BE RETURNED TO THE SUPPLIER.
- ALL SEED USED FOR THE HERBACEOUS STRIPS SHALL BE CERTIFIED AS TO PURITY, PERCENT LIVE SEED, AND GERMINATION PERCENTAGE BY THE SUPPLIER. ALL SEED SHALL BE CERTIFIED AS FREE OF WEED LISTED NOxious WEEDS. SEEDING VARIETIES MAY BE ALTERED IF AVAILABILITY OR SITE CONDITIONS WARRANT.
- ALL PLANTING STOCK SHALL BE PROTECTED FROM FUNGICAL DISEASE, AND STRUCTURAL DAMAGE DURING SHIPMENT TO THE SITE. DELIVERY OF MATERIALS WILL BE NO SOONER THAN ONE WEEK PRIOR TO PLANTING. MATERIALS HELD FOR PLANTING WILL BE MOISTURED AND PLACED IN COOL SHADING AREAS UNTIL READY FOR PLANTING DURING PLANTING ALL MATERIALS WILL BE KEPT MOIST WITH THE ROOTS PROTECTED FROM DISEASE.

PLANTING SCHEDULE NOTES

- AREAS WILL BE PLANTED IN LATE WINTER AND EARLY SPRING. PLANTING MAY BEGIN AS SOON AS THE GROUND IS NO LONGER FROZEN AND THE DANGER OF KILLING FROSTS IS MINIMAL. EARLIEST PLANTING DATES WILL VARY FROM YEAR TO YEAR.
- GRASS-FOR SEEDING MAY BE CONCURRENT WITH OR AFTER THE COMPLETION OF THE TREE PLANTING BUT MULCHING SHOULD BE COMPLETED BEFORE THE HERBACEOUS STRIPS ARE SOVN.



TREE PLANTING DETAIL NOT TO SCALE



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.

Michael J. Adipal
SIGNATURE OF ENGINEER
10/27/93
DATE

DEVELOPER'S CERTIFICATE

I HEREBY 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 AKE DEEMED NECESSARY.

Michael Adipal
SIGNATURE OF DEVELOPER
10/27/93
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. H. Warfield
J. H. WARFIELD
DISTRICT
11/1/93
DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED:

John R. Robertson
JOHN R. ROBERTSON
DISTRICT
11/1/93
DATE

APPROVED: DEPT. OF PLANNING AND ZONING

Joseph B. Smith
PLANNING DIRECTOR
12/20/93
DATE

Aina Armonio
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
12/20/93
DATE

APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
Joyce M. Boyd
HEALTH OFFICER
12/17/93
DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

James J. Shum
DIRECTOR, PUBLIC WORKS
12/14/93
DATE

Paul M. Johnson
CHIEF, BUREAU OF ENGINEERING M.K.
12/14/93
DATE

PROPERTY/SUBDIVISION: CAPLAN'S PROPERTY
SECTION/AKEA: 74-02-102-117-124
PARCEL/LOT NO.: 10333-10417
PLAT NO./LF: 10
BLOCK NO.: 10
ZONE: R-ED
TAX/ZONE: 25
ELEC. DIST.: 2ND
CENSUS TR.: 602B
WATER CODE: F-04
SEWER CODE: 1400500

REFORESTATION NOTES & DETAILS

CAPLAN'S PROPERTY
LOT 77 THROUGH 82, LOT 125 THROUGH 132 AND LOT 117 THROUGH 124

TAX MAP 25 PARCELS 30, 62, PART OF 210 ZONED R-ED
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30'
DATE: OCTOBER 19, 1993
SHEET 3 OF 3

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
971 BALTIMORE NATIONAL PLE. SUITE 100
ELICOTT CITY, MARYLAND 21043
301 461-2855