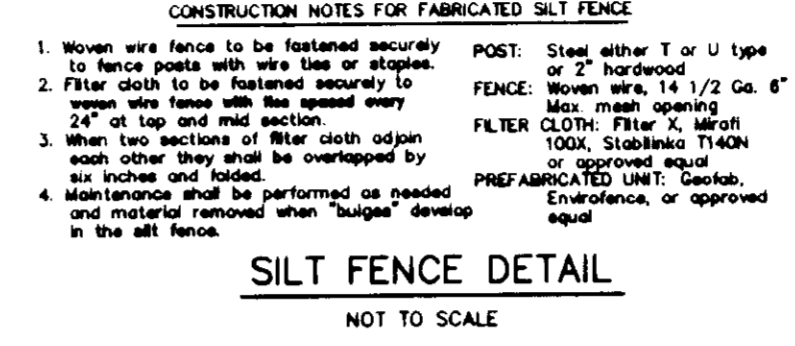
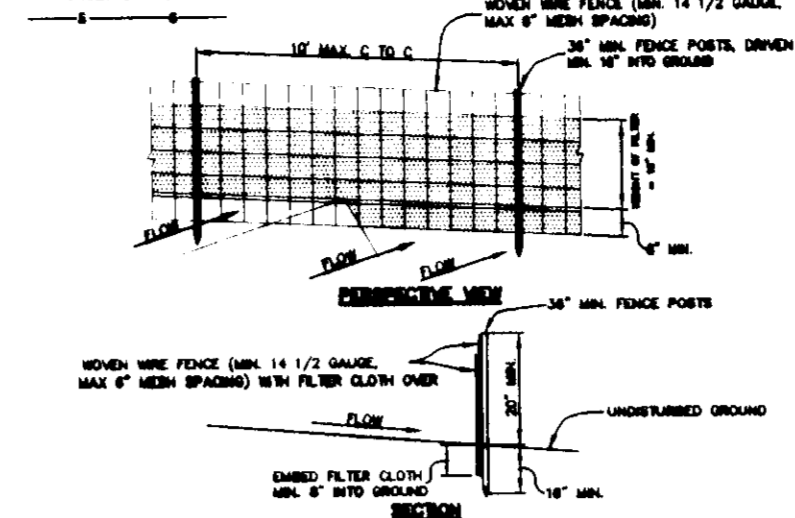


SHEET INDEX	
NO	DESCRIPTION
1	GRADINGS/EROSION AND SEDIMENT CONTROL PLAN
2	RESTORATION PLAN

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1850)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," REVISIONS THERETO.
- 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 SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS 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.
- 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.
- 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.
- SITE ANALYSIS:

TOTAL AREA OF SITE	2.50 ACRES
AREA TO BE ROOFED OR PAVED	0.00 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.17 ACRES
TOTAL CUT	0.00 CY YDS
TOTAL FILL	10000 CY YDS
OFFSITE WASTE/BORROW AREA LOCATION	N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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.



SEQUENCE OF CONSTRUCTION

- DAY 1
OBTAIN A GRADING PERMIT
- DAY 2-6
INSTALL STABILIZED CONSTRUCTION ENTRANCE, CLEAR AND GRUB AS REQUIRED TO INSTALL EARTH DIKE, SILT FENCE AND RIPRAP OUTLET SEDIMENT TRAP AND INSTALL SOD CONTROLS. INSTALL TREE PROTECTION DEVICES AND CLEAR AND GRUB SITE.
- DAY 7-21
COMMENCE FILL AND GRADING OPERATIONS, STABILIZE ACCORDING TO TEMPORARY SEEDING NOTES.
- DAY 22-28
UPON APPROVAL TO THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE AND FILL SEDIMENT TRAP TO FINAL GRADE, REMOVE REMAINING CONTROLS AND STABILIZE SITE ACCORDING TO WARM-SEASON SEEDING NOTES, LANDSCAPE SITE.
- NOTES:
1.) CONTRACTOR SHALL EXERCISE EXTREME CARE WHILE OPERATING IN THE AREA OF THE EXISTING WATER LINE SO AS NOT TO DISTURB EXISTING STRUCTURES.
2.) FOR SEEDING NOTES SEE SHEET NO. 2

RIPRAP OUTLET SEDIMENT TRAP DATA

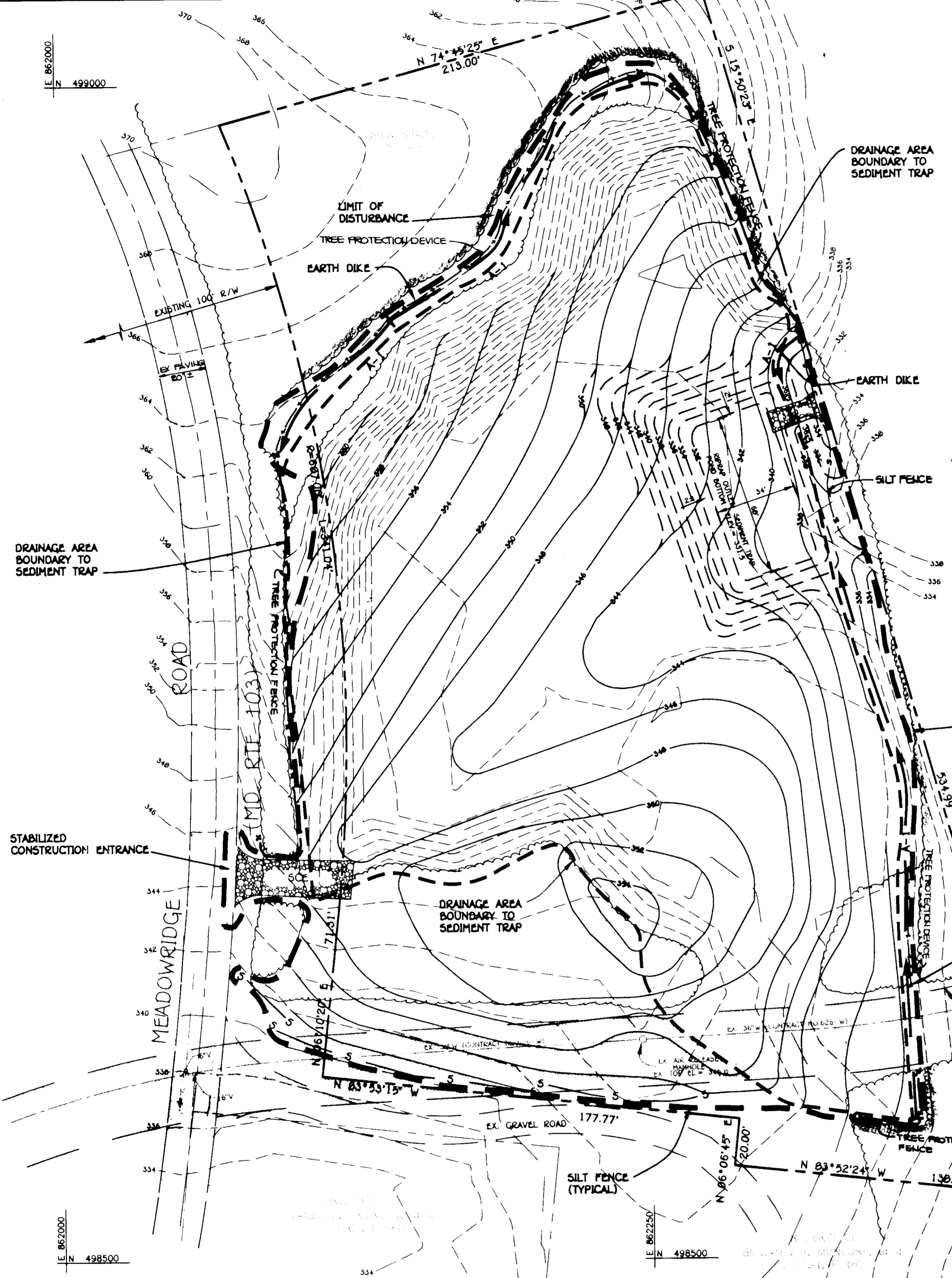
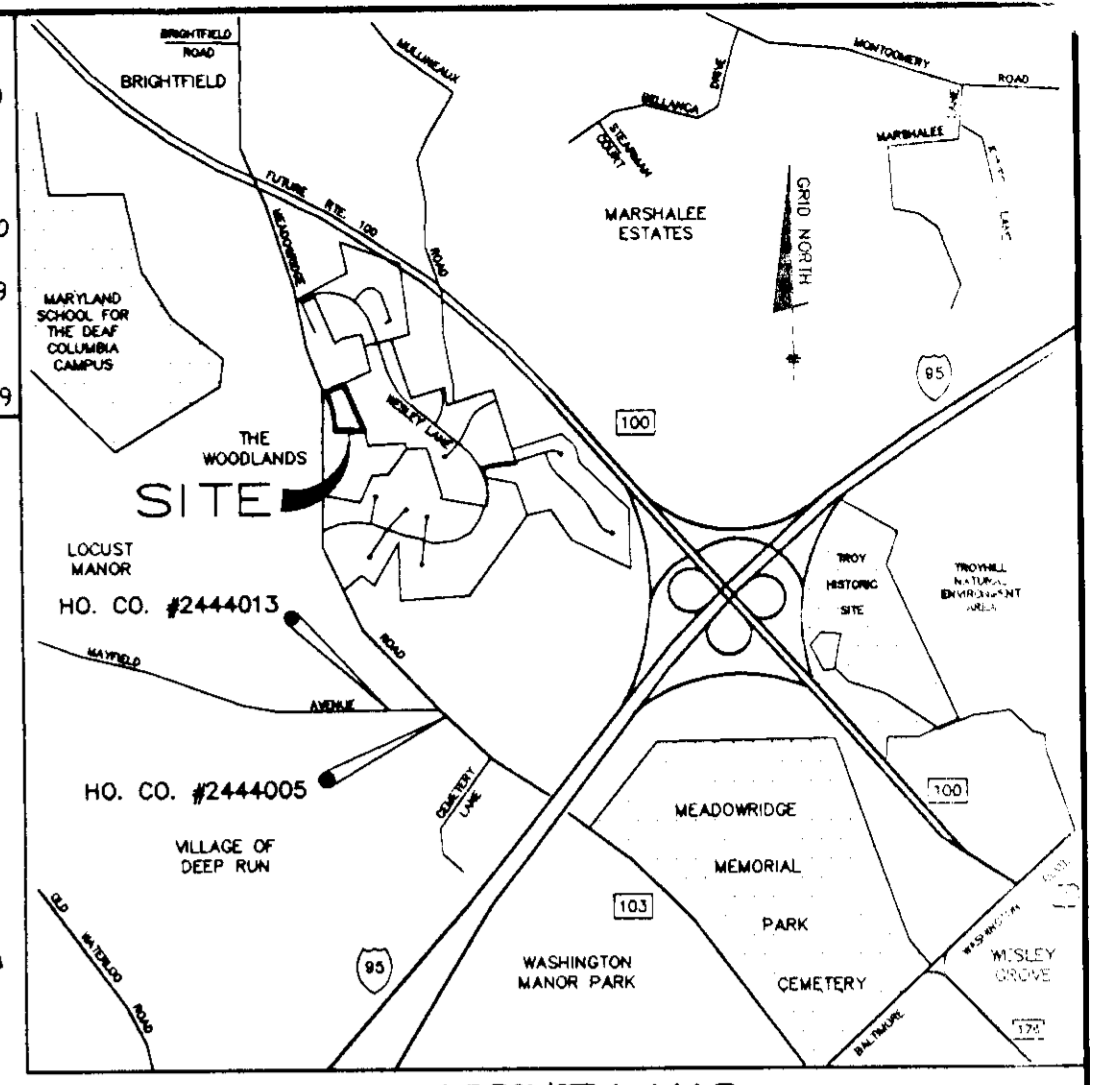
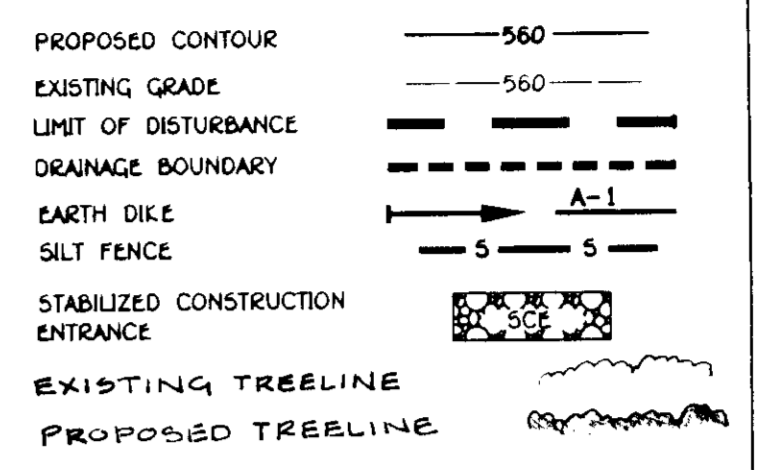
DRAINAGE AREA	1.8 AC
STORAGE REQUIRED	6480 CF
STORAGE PROVIDED	7200 CF
BOTTOM DIMENSIONS	68'x34'
DEPTH	2.5'
SIDE SLOPES	2:1
BOTTOM ELEVATION	331.5
EMBANKMENT ELEVATION	336.5
CREST ELEVATION	334.0
CLEAN OUT ELEVATION	332.8
WEIR LENGTH	5.0'

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by treading with equipment while it is being constructed. Maximum height of embankment shall be 4', measured at centerline of embankment.
- All cut and fill slopes shall be 2:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of trap embankment.
- Storage area provided shall be figured by computing the volume measured from top of excavation. (For storage requirements see Table 10).
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Section of fabric must overlap at least 1' with section nearest the entrance placed on top. Fabric shall be embedded at least 6" into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be 4" - 12" placed 18" thick.
- Outlet - An outlet shall be provided, which includes a means of conveying the discharge in an erosion free manner to an existing stable channel. Protection against scour of the discharge and shall be provided as necessary.
- Outlet channel must have positive drainage from the trap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/4 of the weir storage depth of the trap (1350 CF/50). Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected periodically after each rain and repaired as needed.
- Construction of traps shall be carried out in such a manner that sediment pollution is avoided. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentrated inflow shall be protected in accordance with Grass Stabilization Structure criteria. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the trap.
- The structure shall be dewatered by approved methods, removed and the area stabilized when the drainage area has been properly stabilized.

BENCH MARKS-NAD 27

HO. CO. #2444005	ELEV. 271.249
CONC. MONUMENT 0.5' BELOW SURFACE, ON THE WEST SIDE OF MEADOWRIDGE RD. SOUTH OF HAYFIELD RD.	E 863126.170
N 495580.271	
HO. CO. #2444013	ELEV. 268.109
CONC. MONUMENT AT SURFACE, 17.1' NORTH OF CENTERLINE OF HAYFIELD AVE.	E 862542.349
N 495646.964	

LEGEND



CONSTRUCTION SPECIFICATIONS

- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area of a non-erodible velocity.
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

EARTH DIKE DETAIL



PLAN

SCALE: 1" = 30'

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT (410)313-1860 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A FIELD SURVEY BY T.S.A. GROUP, INC. ON OR ABOUT MARCH 1995.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDER'S EXPENSE.
- EXISTING UTILITIES SHOWN HAVE BEEN TAKEN FROM CONTRACT DRAWINGS 626-W.
- ALL ROADWAYS ARE PUBLIC AND EXISTING.
- NO WETLANDS EXIST WITHIN THE LOTS IN THIS SUBDIVISION.
- PREVIOUS HOWARD COUNTY FILE NO'S F-01-071, F-01-047, F-01-018, P-00-010, S-80-024.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
CHIEF, BUREAU OF HIGHWAYS, ANDREW BANERJEE	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
CHIEF, DEVELOPMENT ENGINEERING DIVISION, CHARLES DAMMERS	7/1/95 DATE
APPROVED: DIVISION OF LAND DEVELOPMENT AND RESEARCH, GINA TRINNANZ	
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH, GINA TRINNANZ	7/28/95 DATE
APPROVED: DIRECTOR, JOSEPH RUTTER, JR.	
DIRECTOR, JOSEPH RUTTER, JR.	8/1/95 DATE

NO	DATE	REVISION

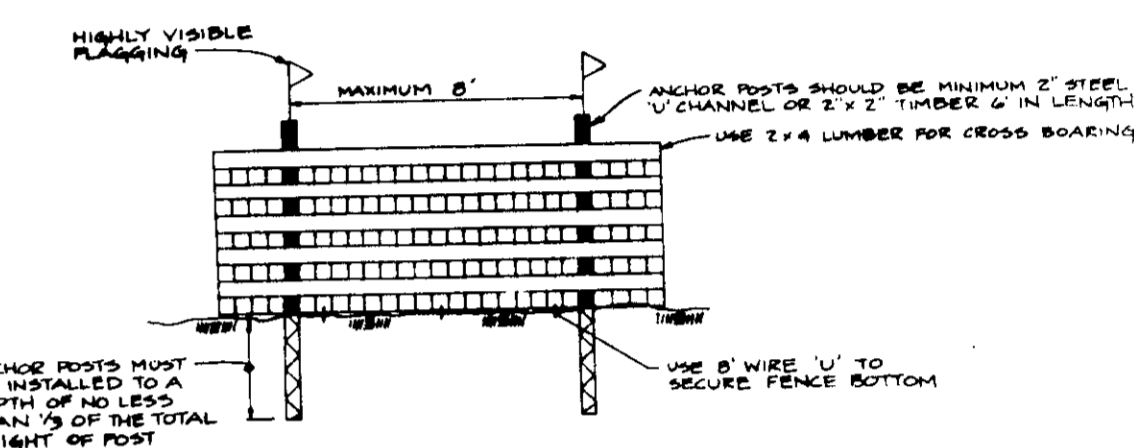
TSA GROUP, INC.
planning • architecture • engineering • surveying
8680 Baltimore National Pike • Elliott City, Maryland 21043 • (410)460-8108

OWNER: TRAFALGAR HOUSE PROPERTY, INC. 8965 GUILFORD ROAD SUITE 290 COLUMBIA, MD 21046 (410)-621-8151	PROJECT: WILLOWOOD SECTION 2 - AREA 3 OPEN SPACE LOT 355
DEVELOPER: SOC GROUP, INC. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21041 (410)-465-4244	LOCATION: TAX MAP 37 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: APRIL 12, 1995	PROJECT NO. 0601
DE: GWF	DRN: JR
SCALE: AS SHOWN	DRAWING NO. 01

PLANTING LIST			
SYMBOL	QUANTITY	NAME	REMARKS
CF	17	CERCIS CANADENSIS (American Redbud)	3'-4" WHIP 5 & 6 11' c.c.
CO	8	CARYA OVATA (Shagbark Hickory)	2 1/2" CAL. 5 & 6 20' o.c.
JV	15	JUNIPERUS VIRGINIANA (Eastern Red Cedar)	2 1/2" MIN. CAL. 5 & 6 15' o.c.
NS	10	NYSSA SYLVATICA (Black gum)	3'-4" WHIP 11' c.c.

PLANTING / SOIL SPECIFICATION

- PLANTING OF NURSERY STOCK SHALL TAKE PLACE BETWEEN MARCH 15TH AND APRIL 30TH.
- A TWELVE(12) INCH LAYER OF TOPSOIL SHALL BE SPREAD OVER ALL REFORESTATION AREAS IMPACTED BY SITE GRADING TO ASSURE A SUITABLE PLANTING AREA. DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS PER GENERAL CONSTRUCTION PLAN FOR PROJECT.
- PLANTING AREAS NOT IMPACTED BY SITE GRADING SHALL HAVE NO ADDITIONAL TOPSOIL INSTALLED.
- ALL BAREFOOT PLANTING STOCK SHALL HAVE THEIR ROOT SYSTEMS DIPPED INTO AN ANTI-DISCANT GEL PRIOR TO PLANTING.
- PLANTS SHALL BE INSTALLED SO THAT THE TOP OF ROOT MASS IS LEVEL WITH THE TOP OF EXISTING GRADE BACKFILL IN THE PLANTING PITS SHALL CONSIST OF 3 PARTS EXISTING SOIL TO 1 PART PINE FINES OR EQUIVALENT.
- FERTILIZER SHALL CONSIST OF AGRIFORM 22-8-2, OR EQUIVALENT, APPLIED AS MANUFACTURER'S SPECIFICATIONS.
- A TWO(2) INCH LAYER OF HARDWOOD MULCH SHALL BE PLACED OVER THE ROOT AREA OF ALL PLANTINGS.
- PLANT MATERIAL SHALL BE TRANSPORTED TO THE SITE IN A TARPED OR COVERED TRUCK. PLANTS SHALL BE KEPT MOIST PRIOR TO PLANTING.
- ALL NON-ORGANIC DEBRIS ASSOCIATED WITH THE PLANTING OPERATION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.



- FOREST PROTECTION DEVICE ONLY
- RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLATION
- ROOT DAMAGE SHOULD BE AVOIDED
- PROTECTIVE SIGNAGE MAY ALSO BE USED
- DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION

TREE PROTECTION FENCE

LEGEND

- PROPOSED CONTOUR ——— 560
- EXISTING GRADE ——— 560
- EXISTING TREE LINE ———
- PROPOSED TREE LINE ———
- SEED MIX-1

SITE DATA

GROSS AREA	2.55 Acres
NET TRACT AREA	2.55 Acres
EXISTING FOREST	0.28 Acres
AFFORESTATION THRESHOLD	0.51 Acres
AFFORESTATION REQUIRED	0.23 Acres

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
CHIEF, BUREAU OF HIGHWAYS, ANDREW DANIEL	DATE
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
CHIEF, DEVELOPMENT ENGINEERING DIVISION, CHARLES DAMMERS	7/10/95 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH, GINA TRINNANZ	7/28/95 DATE
DIRECTOR, JOSEPH RUTTER, JR.	DATE

NO	DATE	REVISION
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TSA GROUP, INC.
 planning • architecture • engineering • surveying
 8600 Baltimore National Pike • Ellicott City, Maryland 21043 • (410)465-8105

OWNER: TRAFALGAR HOUSE PROPERTY, INC. 8965 GUILFORD ROAD SUITE 290 COLUMBIA, MARYLAND 21046 (410)621-8151	PROJECT: WILLOWOOD SECTION 2 - AREA 3 OPEN SPACE LOT 355
DEVELOPER: SOC GROUP, INC. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21041 (410)-465-4244	LOCATION: 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DES: GWF	DRN: JR
DATE: APRIL 12, 1995	PROJECT NO: 6801
SCALE: AS SHOWN	DRAWING 2 OF 2

TEMPORARY SEEDING NOTES

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

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 800 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 BUSHELS 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, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOU.

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 218 GALLONS PER ACRE (5 GALLONS/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GALLONS/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1981 MARITIME STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEGMENT CONTROL FOR RATE AND METHODS NOT COVERED.

WARM SEASON SEEDBED PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LINE OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ FT) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (8 LBS/1000 SQ FT).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 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: SEEDING DATES SHALL RANGE BETWEEN APRIL 15TH TO JUNE 15TH.

SEEDING METHODS: EXCEPT FOR SWITCHGRASS THESE SPECIES SHOULD BE PLANTED USING A SPECIALIZED WARM-SEASON OR RANGE-LAND GRASS BOX OR A CONVENTIONAL OR NO-TILL DRILL. IF "DE-BEARED" GRASS SEED IS AVAILABLE THIS CAN BE DRILLED WITHOUT THE SPECIALIZED BOX. CONSULT YOUR SEED SUPPLIER ABOUT THE AVAILABILITY OF DE-BEARED SEED.

NOTE: HOWEVER, THAT ALL SPECIES SHOULD BE DRILLED AS SHALLOW AS POSSIBLE, 1/4 TO 1/2" OR AN INCH. BURYING SEED ANY DEEPER THAN THIS WILL PREVENT ADEQUATE GERMINATION. IF A DRILL IS NOT AVAILABLE SEED CAN BE BROADCAST AT SLIGHTLY HIGHER RATES ONTO A FIRM SEED-BED (FLOW, DISC, CULTIPACK).

APPLICATION RATE:

MIX 1: APPLY PER ACRE: 5 LBS ANNUAL RYE, 3 LBS LITTLE BLUE-STEM, 3 LBS SIDE-OTS GRAMA WITH LEGUMES, FORBS 8 OZ EACH OF PARTRIDGE PEA, KOREAN LESPEDEZA AND 1 OZ OF BLACK EYED SUSAN.

NOTE: 2 LBS OF LADINO CLOVER MAY BE SUBSTITUTED FOR PARTRIDGE PEA AND LESPEDEZA.

IMPORTANT: ALL SEEDING RATES ARE PER ACRE OF "PURE LIVE SEED" (PLS). PLEASE SPECIFY PLS WHEN ORDERING SEED.

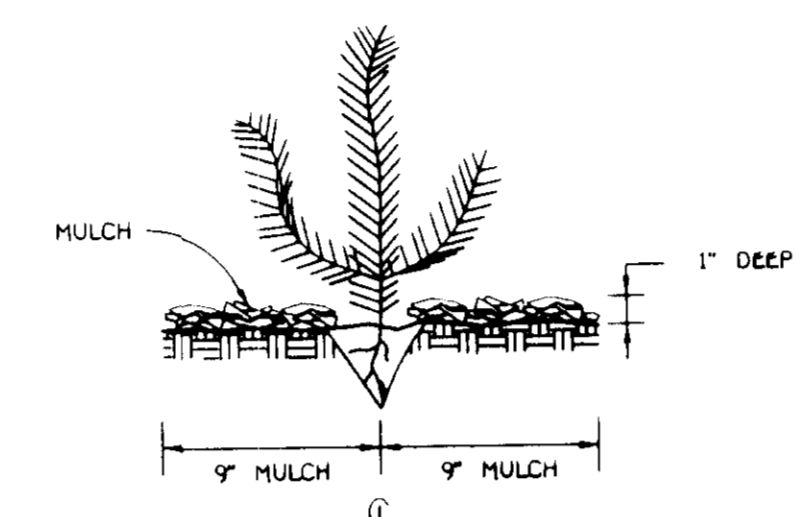
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MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEED REPAIRS, REPLACEMENTS AND RESEEDING.

SEED SUPPLIERS

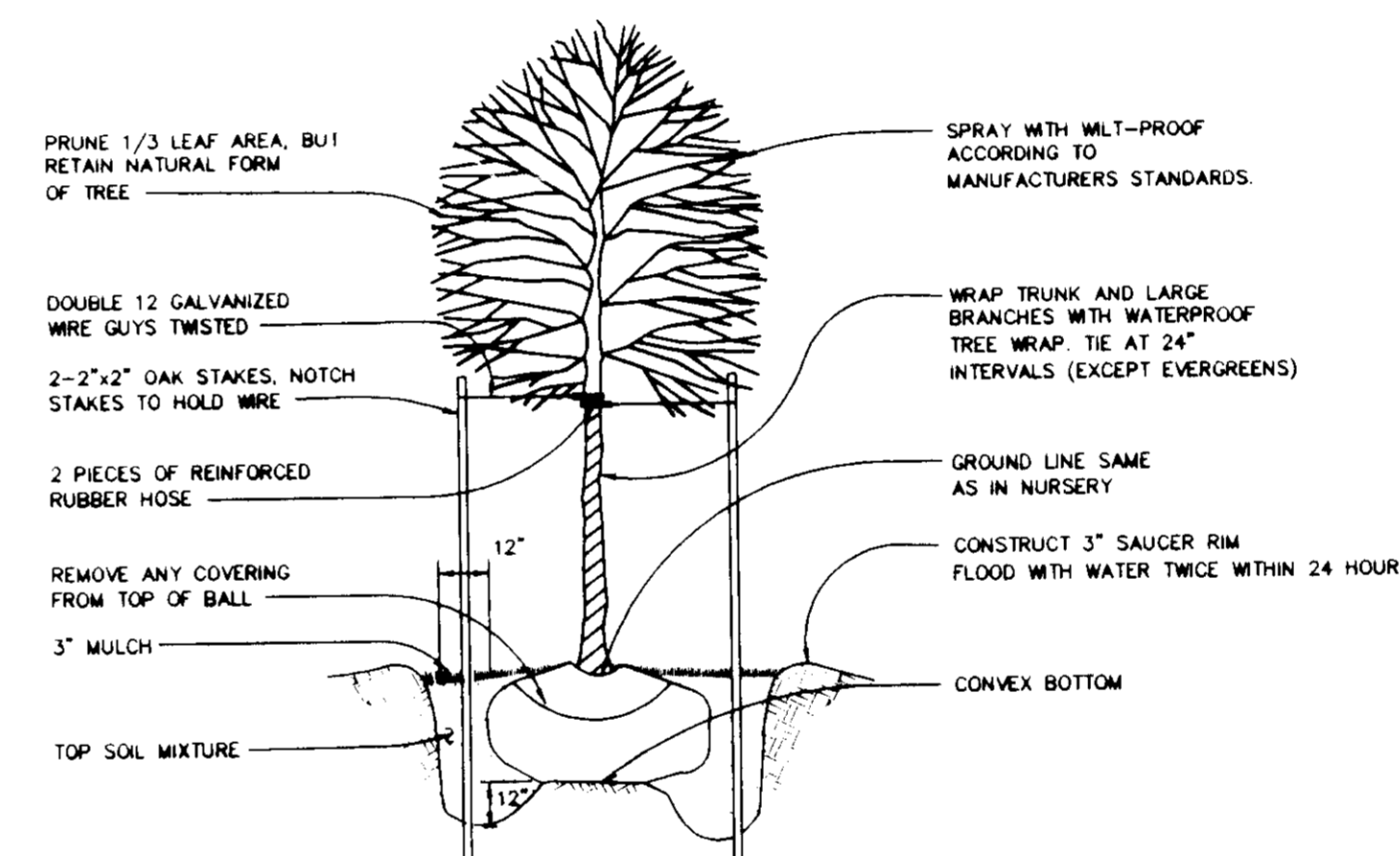
THE FOLLOWING IS A LIST OF COMPANIES THAT SHOULD BE ABLE TO SUPPLY YOU WITH THE SEED OR MIXTURES RECOMMENDED. THE MORE COMMON SPECIES SHOULD BE AVAILABLE AT YOUR LOCAL AGRICULTURAL DEALER OR COOPERATIVE.

- SHARP BROS. SEED CO.
ROUTE 4 BOX 377A
CLINTON, MO. 64735
1-800-451-3779
- BLUESTREAM SEED CO.
4045 SOMERSET DR.
PRAIRIE VILLAGE, KS. 66208
816-786-2401
- BAMERT SEED CO.
ROUTE 1 BOX 1120
MULSHOE, TX 79347
806-272-5006
- C.P. DANIEL'S SONS, INC.
P O BOX 119
WAYNESBORO, GA 30830
404-354-2448



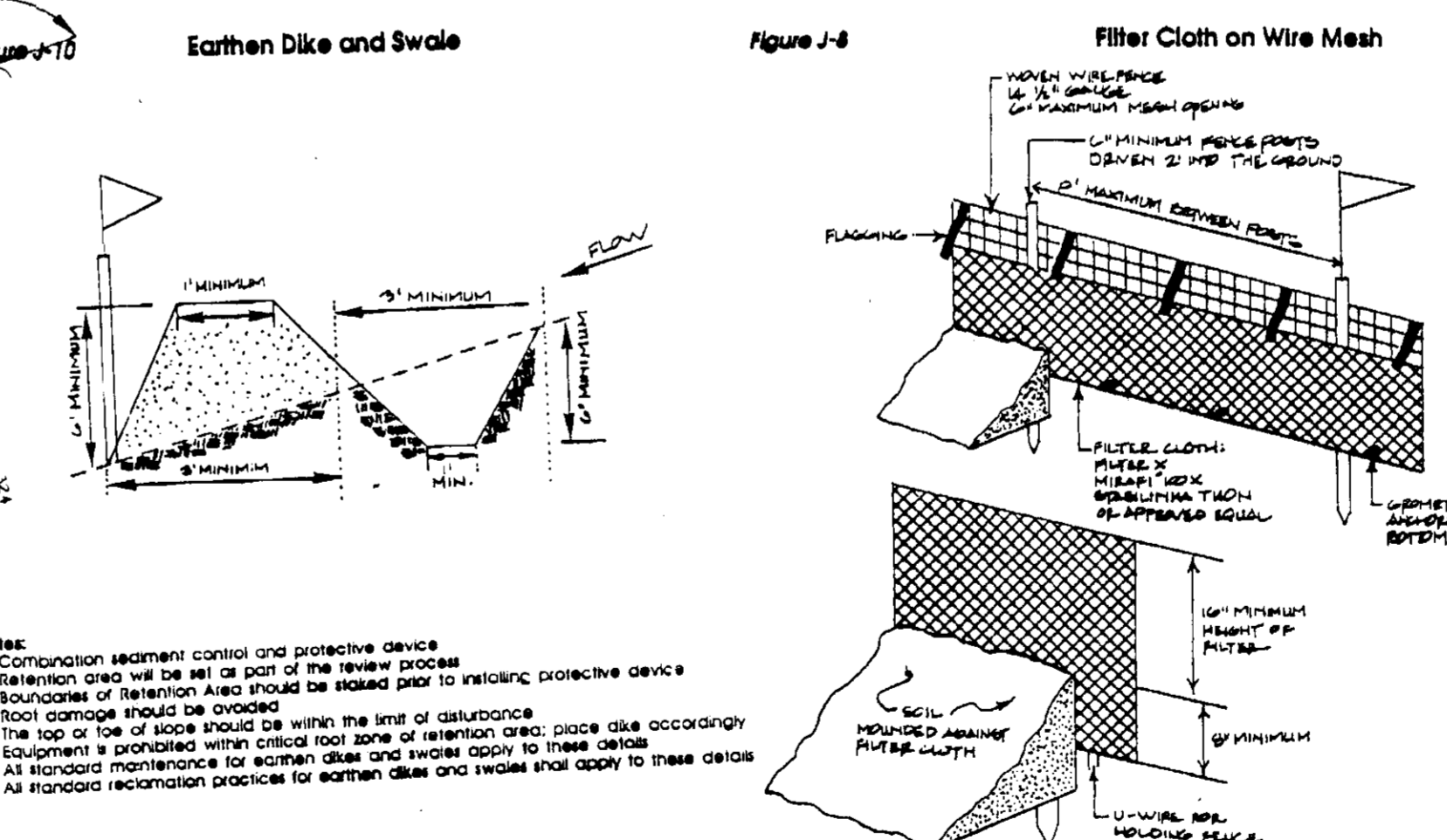
SEEDING AND WHIP PLANTING SPECIFICATIONS

NOT TO SCALE



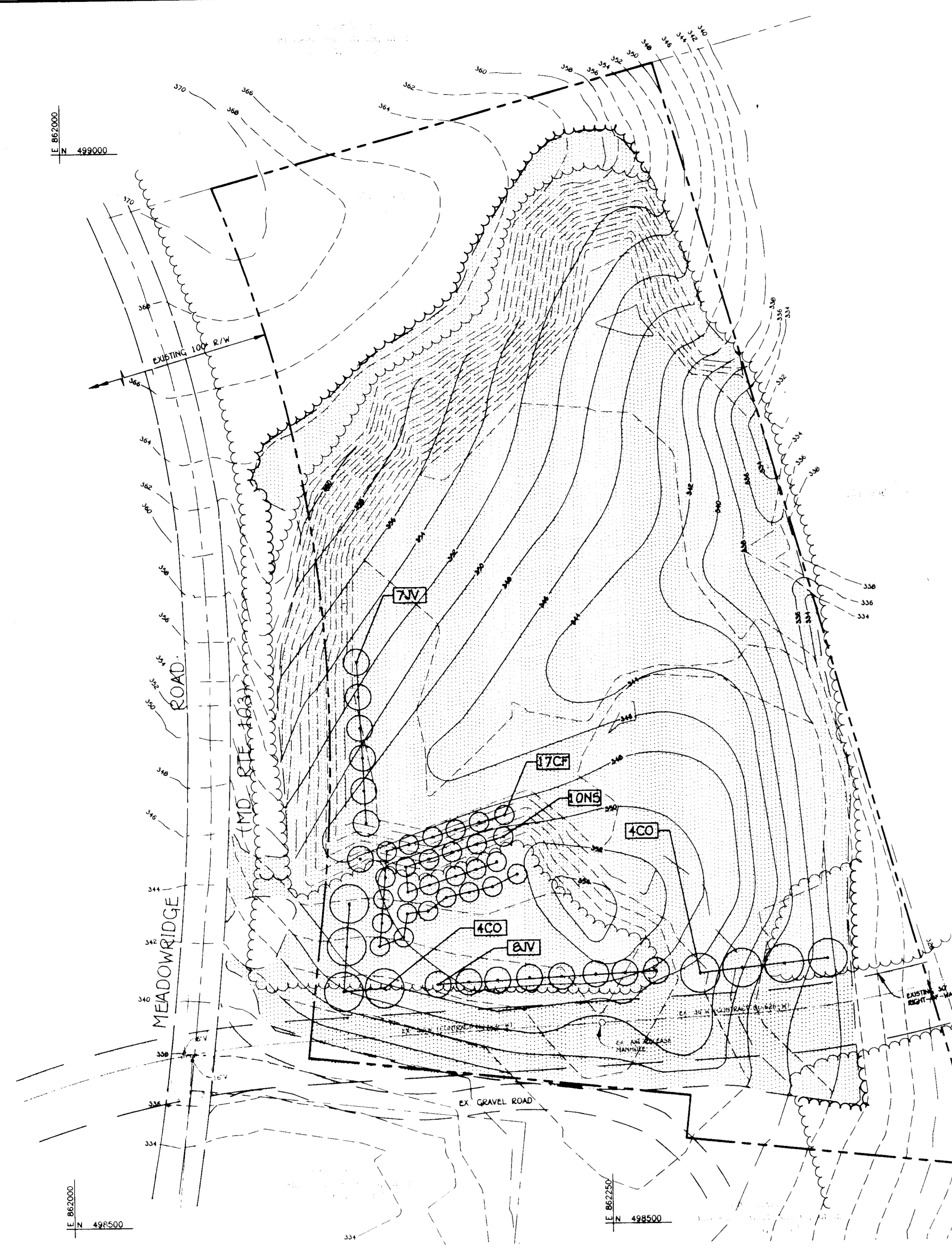
TREE PLANTING DETAIL

NOT TO SCALE



TREE PROTECTION DEVICES INSTALLATION INCORPORATED WITH SEDIMENT CONTROL DEVICES

NO SCALE



PLAN

SCALE: 1" = 30'

- NOTE:**
- Combination sediment control and protective device
 - Retention area will be set as part of the review process
 - Boundaries of Retention Area should be staked prior to installing protective device
 - Root damage should be avoided
 - The top or low of slope should be within the limit of disturbance
 - Equipment is prohibited within critical root zone of retention area; please dial accordingly
 - As standard maintenance for earthen dikes and swales shall apply to these details
 - All standard maintenance practices for earthen dikes and swales shall apply to these details

Source: Prince George's County, Maryland, Willowood Conservation Manual