

MORIZONTAL STACING (H _a)	TRASH RACK CHART								
	POND #1 ORIFICE SIZE \$ TYPE	A	# OF	V ₃	5	# OF GARS	Hs	INNER FACE (I.F.) OUTER FACE (O.F.)	REMARKS
	ONIFICE	4"	1	2"	4"	/	2"	O.F.	
	2'-3"x6" 10-YR. ORIFICE	6"	1	3"	27"	5	4 1/2"	1.F.	
GALVINIZED STEEL PLATE	1-6"x 6" 50 YR. ORIFICE	6"	1	3"	18"	2	6 "	1.F .	
	2'-6" x 1-0" 100 YR.	12"	2	4"	30"	4	6"	I.F.	3 REQUIRED
3/4" & GALVANIZEO	POND #2						_		
	54"LOW FLOW ONIFICE	6	8	2"	6"	8	2	OF.	
G"LONG-1/21 GALVINIZED GOLTS AFTROX. 8" OF	15/2", 10 YR. ORIFICE	16"	3	4"	16"	3	4"	I.F.	
GALVINIZED TRASH RACK	4'x1',100 YK. ORIFICE	IE"	2	4"	48"	7	6	1.F.	4 REQUIRED
No some									
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DEVELOPER'S/BUILDER'S CERTIFICATE

"4" BALVINIZED STEEL PLATE

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by HSCD.

Welliam Kobett Signature of Developer/Builder

These Plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation

Approvad: for Public Water And Public Sawarage Systems Howard County Haolth Daportmant bird County Dept. of Planning & Zoning 5.23.4. Chief Division of Community Planning date and Land Davelopment Approvad: for Public Woter And Public Sawaraga, atomic Ditainaga Systems And Public Roads Howard Chunty Dapartment of Public Works.

4/30/90

APPROVED PLANNING BOARD of HOWARD COUNTY DATE 2-28-90

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

9-15-89

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Concrato Crodla

Dataile Notice:
Four Conc. to Undisturbed Forth Ramova Shooting Bafora Pouring Concrete or bava lower Portion of Shooting in Place. CONCRETE CRADLE

> NOTE LOW CHADLE TRENCH BEDDING 18 TO BE USED FOR 15" \$ 27" M.C.P. SEE HO. CO. DETAIL G Z.OZ FOR SPECIFICATIONS

STORM WATER MANAGEMENT POND NOTES

I. SITE PREPARATION:

A. Areas designated for borrow areas, embankment, and structural works shall be cleared grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped no steeper than 1:1.

B. Areas to be covered by pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush, logs, and stumps shall be cut approximately level with the ground surface.

C. All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other Jesignated areas.

II." EARTH FILL

A. MATERIAL: The fill material shall be taken from approved designated borrow area or oreas. It shall be free of roots, stumps, wood, rubbish, oversized stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

B. PLACEMENT: Areas or) which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

C. COMPACTION: The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired, or vibratary roller. Fill material shall contain sufficient moisture so that the required decree of compaction can be obtained with the equipment used. Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer. It is recommended that the Core be constructed in 8" thick layers, each compacted to minimum of 95% of the maximum dry density determined by the standard moisture density relationship test (ASTM D-1557).

D. CUTOFF TRENCH: Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available on-site (or from an area designated on the plans) and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

Tuturo III. STRUCTURAL BACKFILL:

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet measured horizontally, to any part of the structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS: (all pipes shall be circular in cross-section)

A. CORRUGATED METAL PIPE:

1. MATERIALS: (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specifications M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be placed with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Mexon, Plasti-Cote, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

MATERIALS: (Aluminized Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or

MATERIALS: (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, end section, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of Zinc Chromate Primer. Hot dip galvanized bolts may be used for connections. The PH of the surrounding soils shall be less than 9 and greater than 4.

2. CONNECTIONS: All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around where the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

3. BEDDING: The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. LAYING PIPE: The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.

5. Backfilling shall conform to structural backfill as shown

6. Other details (anti-seep collars, valves, etc.) shall be as

B. REINFORCED CONCRETE PIPE:

1. MATERIALS: Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. An approved equivalent is AWWA Specification C-301.

2. BEDDING: All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3", or as shown on the

3. LAYING PIPE: Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

4. Backfilling shall conform to structural backfill as shown

5. Other details (anti-seep collars, valves, etc) shall be shown on the drawings.

C. For pipes of other materials, specific specifications shall be shown on the drawings.

V. CONCRETE:

A. MATERIALS:

1. CEMENT - Normal Portland cement shall conform to latest ASTM Specification C-150.

2. WATER - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

- V. A. (continued)
- 3. SAND The sand used in concrete shall be clean, hard, strong, and durable, and shall be well graded with 100% passing a one quarter inch sieve. Limestone sand shall not
- 4. COARSE AGGREGATE The coarse aggregate shall be clean, hard, strong and durable, and free from clay and dirt. It shall be well graded with a maximum size of one-and-one-half (1-1/2)
- 5. REINFORCING STEEL The reinforcing steel shall be deformed bars of intermediate arade billet steel or rail steel conforming to ASTM Specification A-615.

B. DESIGN MIX - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U.S. Gals. of water/94-pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of the aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the

C. MIXING - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixture and of the introduction of the materials including water, into the mixer. Water shall be added prior to, during, and following the mixer-changing operations. Excessive overmixing requiring the addition of water to preserve concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

D. FORMS - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping and vibration without deflection from the prescribed lines. They should be mortar-tight and constructed so they can be removed without hammering or prying against the concrete. The inside of the forms shall be oiled with a nonstaining mineral oil or thoroughly wetted before concrete is placed. Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

E. REINFORCING STEEL - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

F. CONSOLIDATION - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners and around embedded items.

G. FINISHING - Defective concrete, honey combed greas, voids left by removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry patching mortar.

H. PROTECTION AND CURING - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least three days. All concrete shall be kept continuously moist for at least ten days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compound may also be used.

I. PLACING TEMPERATURE - Concrete may not be placed at temperature below 37°F with temperature falling, or 34°F with the temperature rising.

VI. STABILIZATION

All borrow areas shall be graded to provide drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing, and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction

4.30.40 STORWWATER MANAGEMENT NOTES & DETAILS G.L.W. FILE No ZONING SCALE PREPARED FOR Jand, 190 1 Add Trosh Rock Detail & Dimensions Fb.5. 70 A Revised Trash Rock Dimensions And Fond #1
Anti-Seep Collar Dimensions. GUTSCHICK LITTLE &WEBER, PA. AS SHOWN Newtown 69-035 Banson Business Center Howard Rascorch and Development Land Company ENGINEERS, PLANNERS, SURVEYORS AS-BUILT Saction 1 DATE TAX MAP No. SHEET The Rouse Building 43/Por. 567 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866 1000 10275 Little Potuxant Parkway Phasa 202 40F5 37/Bc-3649 Columbia, Maryland 21044 Howard County, Maryland TELEPHONE: (301) 421-4024 6th Elaction District DES. DEV DRN. HK CHK.CKG APP'R. REVISION BY DATE

SEQUENCE OF CONSTRUCTION , Obtain Grading Permit. Place orange plastic anow fencing along wetland buffer. Only the areas adjacent to proposed grading Arrange an on-site pre-construction meeting with a sediment control imagestor on-site in order to sheck placement of snow

Before any clearing and/or grubbing takes place on the site, only the work necessary to install earth dikes going to Sumps 1 and 2, along with the excavation of Sumps 1 and 2 shall be performed. Silt fence shall be placed downgrade of any disturbed area at the end of each work day. Earth dikes along tark Brown Road will be placed as shown on this plan as labeled "initial location of dike".

Begin the excevation and installation of Sediment Basin 2. Install 33" CMP from Sump 1 to Sump 2, and 33" CMP from Sump Install Trap 1 and earth dikes directing runoff to Trap 1 at this time. Also install earth dike along southern property

Clear, grub and rough grade site according to these plans. The perimeter dike along the Soreey Rum (northeast property) shell be constructed in the "final legation" as shown on Sheet

miso install remaining milt fence mlong Lark Brown Road en

Stabilise all centributing arage in accordance to the Standards and Specifications. Upon approval of the sediment control inspector, remove all sediment quatrol devices. The sediment become and sediment two will paper.

DEVELOPER'S/BUILDER'S CERTIFICATE

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William & Roberto Signature of Developer/Builder

3/16/90

ENGINEER'S CERTIFICATE

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11/11/

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, sail erosion and sediment control.

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APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT

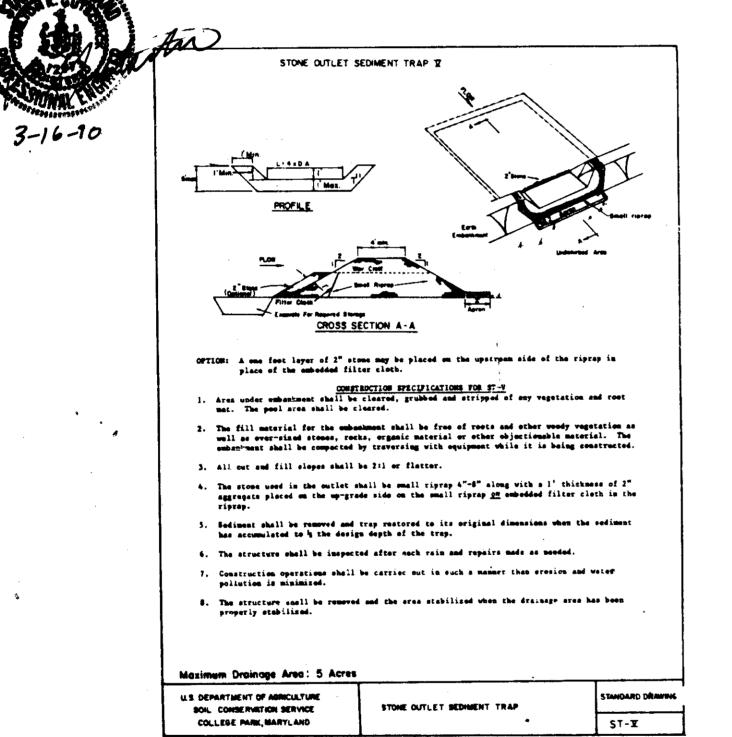
> STORM DRAINAGE SYSTEMS AND PUBLIC ROADS WARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPREVED WARD COUNTY CERNSE OF PLANNING & ZONING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,

APPROVED
PLANNING BOARD
of HOWARD COUNTY

DATE 2 - 28 - 90



SILT FENCE

PERSPECTIVE VIEW

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

SILT FENCE

- 34" MINL PENCE POST

EMBED FILTER CLOTH

MOVEN WIRE PENCE TO BE FASTENED SECURELY TO PENCE POSTS WITH WIRE TIES OR STAPLES

2. FILTER CLOTH TO BE FASTENED SECURELY TO MOVEN HIRE FENCE WITH TIES SPACED EVERY 24 AT TOP AND HID SECTION.

Went the sections of filter cloth abusin each other they shall be over-lapped by six inches and polded.

. MAINTENANCE SHALL BE PERFORMED AS MEEDED AND MATERIAL REMOVED WHEN "BIAGES" DEVELOP IN THE SILT PENCE.

SOLL CONSERVATION SERVICE

- WOMEN WHILE PRICE BANK IN VE GAMEE, MAKE 6" MESH SPECIMO!

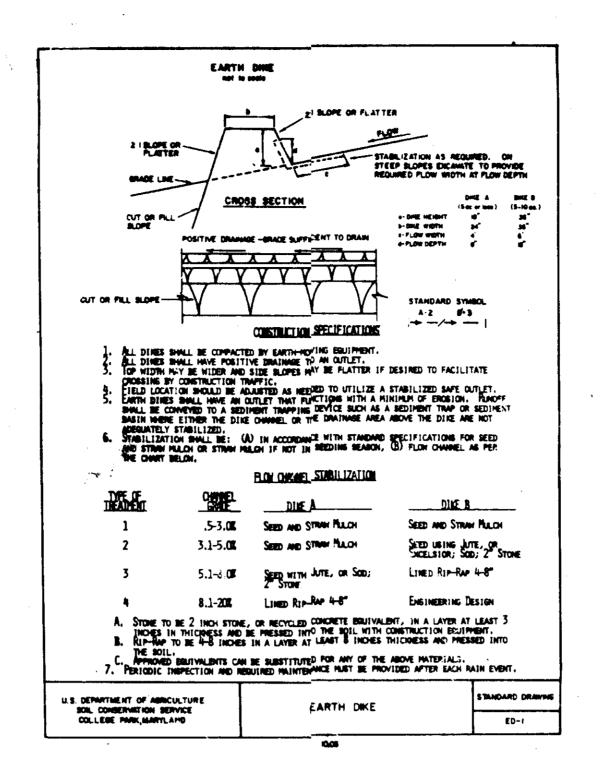
POSTS: STEEL EITHER T OR LETTYPE OR 2" HARDHOOD

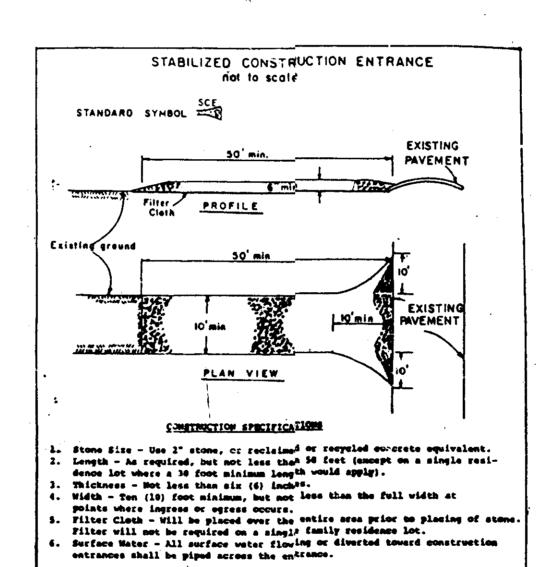
FENCE: Noven wire, 14: Ga. 6" hax. hesh opening

FILTER JUTH: FILTER X, HIRAFT JUTX, STABI-LINKA 1140N OR APPROVED

TANDARD DRAWN

8F-1





prevent tracking or flowing of sediment onto public rights-of-way. This me require periodic top dressing with additional stone as conditions demand

U. S. DEPARTHENT OF AGRICULTURE STABILIZED CONSTRUCTION

SOIL CONSERVATION SERVICE

SEDIMENT CONTROL NOTES

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection 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 and perimeter slopes and all slopes 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 sians posted around their perimeter in accordance with Vol. 1. Chapter 12. of the i-OWARD 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 EROSIONS AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (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: 28.7 Acres Area Disturbed: 18.8 Acres Area to be roofed or paved: O Acres Area to be vegetatively stabilized: 18.8 Acres Total Cut 74,000 Cu. Yds. Total FILL 74800 Cu. Yds. Off-Site waste/borrow area location - N/A

- 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 control must be provided, if deemed necessary by the Howard County DPW Sediment Control
- 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.

PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000) sa ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 unreaform fertilizer (9 lbs/1000 sq ft).
- 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, seed with 60 lbs per acre (1.4 lbs/1000 sa ft) of Kentucky 31 Tall Fescue. 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 spring. Option (2) Use sod. Option (3) Seed with 60 Ibs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply i-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 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 (unless previously loosened).

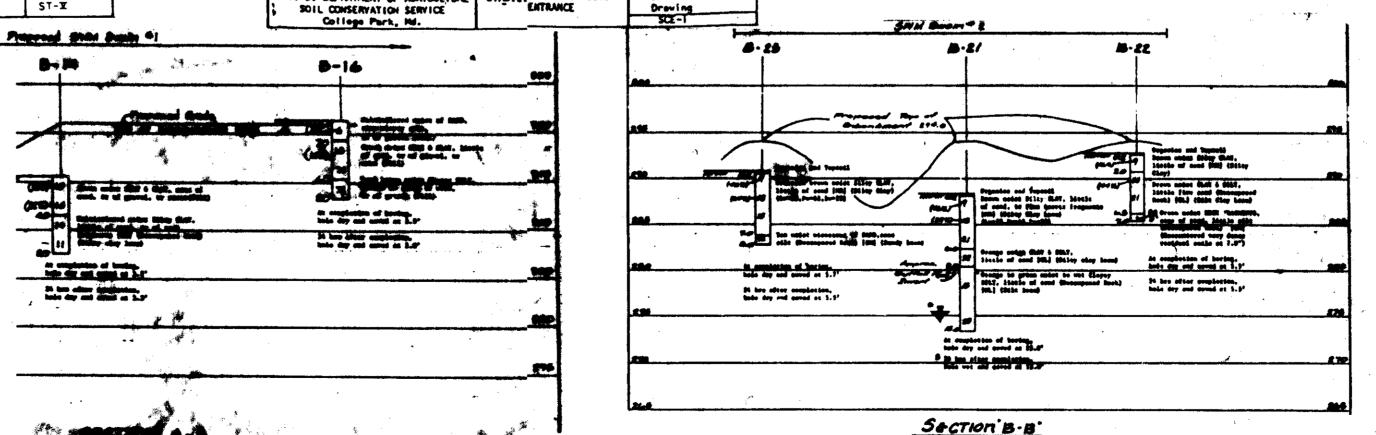
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

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, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

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 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.

Note: NO AS-BUILT INFORMATION SHOWN ON THIS SHEET.



GUTSCHICK LITTLE & WEBER, P.A. ENGINEERS, PLANNERS, SURVEYORS

4 3090

430-10

3909 NATIONAL DRIVE - SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866 TELEPHONE (301) 421-4024 DES. D.E.V DAN. HK CHK. C.K.A DATE

REVISION BY APP'R.

Jan 4:00 Revise Construction Sequence according to County comment DEV

PREPARED FOR Howard Research and Development Land Company The Rouse Building 10275 Little Patument Parkway Columbia, Maryland 21044

G拉 Election District

CONSTRUCTION SEQUENCE, SEDIMENT & EROSION NOTES & DETAILS Benson Business Center

Section 1 Phase 202 AS-BUILT

Howard County Manytons

Z CNING. G L.W FILE No SCALE SHOWN New Town 89-035 \$ M-1 MAY 1992 TAX MAP No SHEET 50F5 45/Par. 55T 57/Br 35 45.5