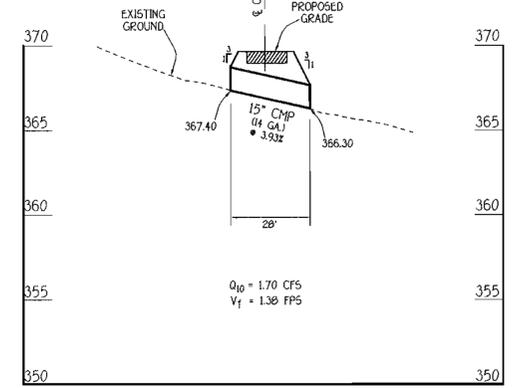
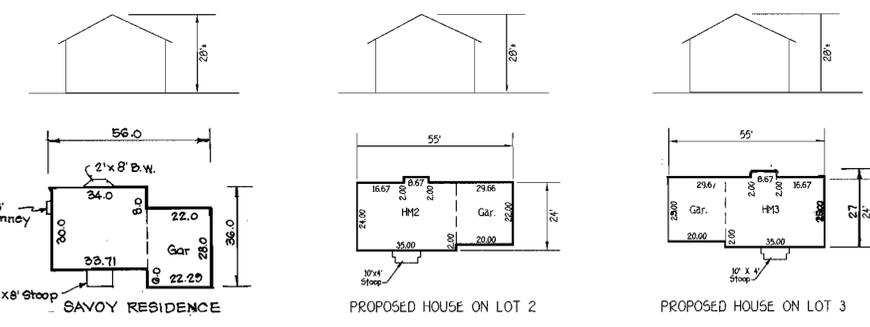
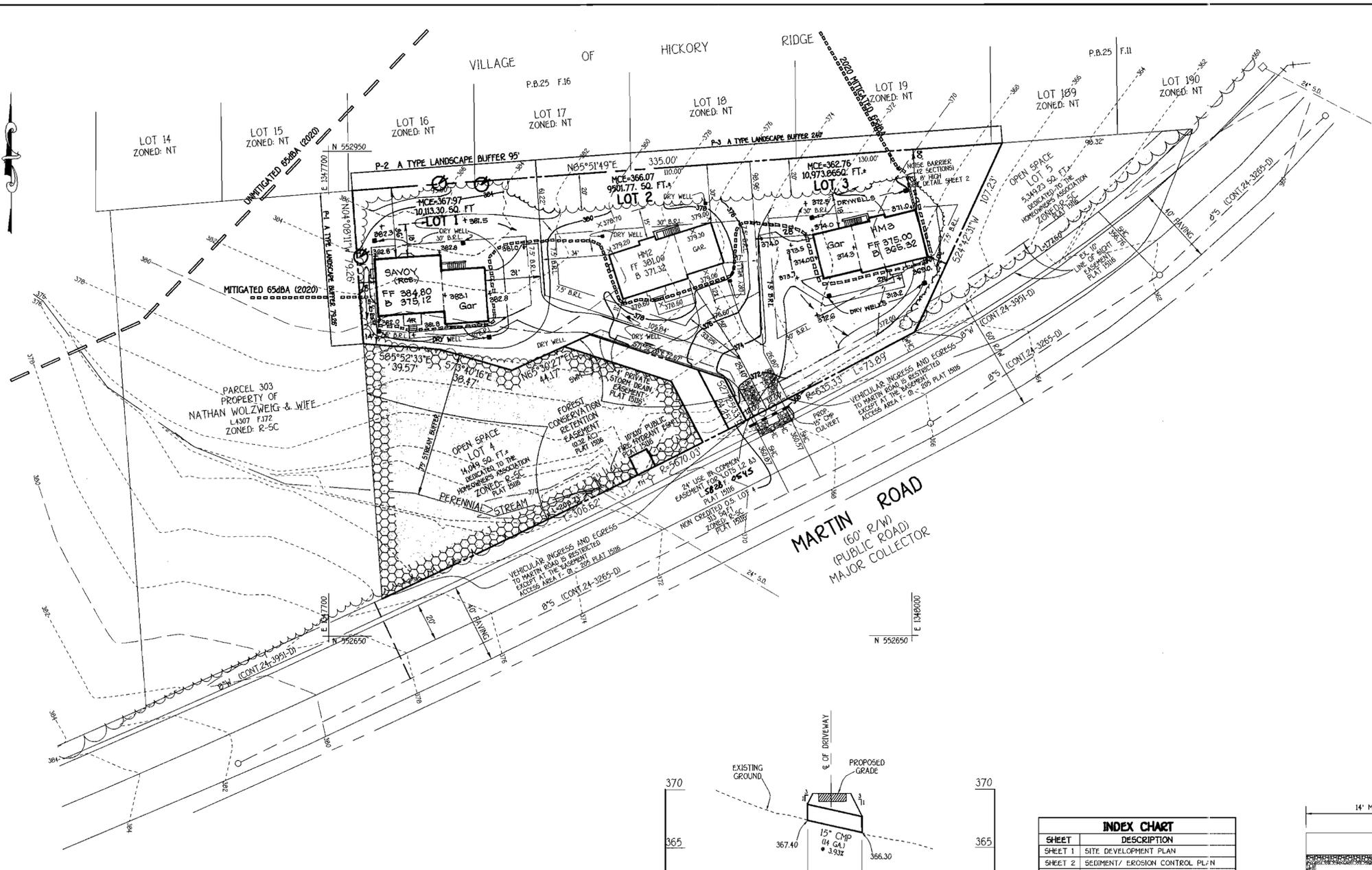


VICINITY MAP  
SCALE: 1" = 2000'

**GENERAL NOTES**

- SUBJECT PROPERTY ZONED R-SC PER 10/18/93 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF SITE: 0.7022 ACRES.
- TOTAL NUMBER OF LOTS SUBMITTED: 3
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410)333-1800 AT LEAST 24 HOURS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: WAS CONT. \*24-3991-D, F 01-205
- THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT JANUARY, 2001 BY JOHN C. HELLEMA, SR., INC.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
- HOWARD COUNTY MONUMENT 3833 N 552573.697 E 1346098.120 ELEV. = HOWARD COUNTY MONUMENT 41CC N 552494.250 E 1347062.414 ELEV. =
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THIS PLAN IS FOR HOUSE SITING AND GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHT-OF-WAYS OF THIS SDP ARE NOT USED FOR CONSTRUCTION.
- FOR CONSTRUCTION SEE APPROVED ROAD CONSTRUCTION PLANS F-01-205 AND/OR APPROVED WATER AND SEWER PLANS CONTRACT NO. 24-3991-D.
- CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE PRIOR TO CONSTRUCTION.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLAND OR STREAM BUFFERS UNLESS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY, MARYLAND.
- STORMWATER MANAGEMENT WILL BE PROVIDED BY DRYWELLS ON ALL LOTS.
- THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.2200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.2200 OF HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL FOR THIS SITE HAVE BEEN FULFILLED BY THE PLACEMENT OF 0.331 ACRES OF EXISTING FOREST INTO A RETENTION EASEMENT AREA AND THE PAYMENT OF A FEE-IN-LIEU OF \$2,369.00 TO THE FOREST CONSERVATION FUND FOR 0.20 ACRES OF REFORESTATION. THIS OBLIGATION WAS ADDRESSED WITH F-01-205.
- AS A CONSEQUENCE OF THIS SUBMISSION, ON NOVEMBER 30, 2001 THIS SDP IS SUBJECT TO THE 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- IN ACCORDANCE WITH SECTION 12B(4)(D) OF THE HO. CO. ZONING REGS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY NOT PROJECT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR SETBACKS.
- OPEN SPACE FOR THIS DEVELOPMENT HAS BEEN DEDICATED TO THE HOMEOWNER'S ASSOCIATION FOR THE RESIDENTS OF THIS SUBDIVISION, THE ARTICLES OF INCORPORATION AND RESTRICTIONS WERE RECORDED OCTOBER 8, 2001 REFERENCE: 43465.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
  - WIDTH- 12 FEET (4 FEET SERVING MORE THAN ONE RESIDENCE).
  - SURFACE- SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
  - GEOMETRY- MAXIMUM 10% GRADE CHANGE AND MIN. 45 FOOT TURNING RADIUS.
  - STRUCTURES (CULVERTS/BRIDGES)- CAPABLE OF SUPPORTING 25 GROSS TONS (GROSS-LOADING).
  - DRAINAGE ELEMENTS- CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
  - STRUCTURE CLEARANCES- MINIMUM 12 FEET.
  - MAINTENANCE- SUFFICIENT TO INSURE ALL WEATHER USE.
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE, HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, PLANTS MATERIALS, BERRIES, FENCES AND WALLS. ALL PLANTS MATERIALS, SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACE WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIR OR REPLACE.



PROFILE OF CULVERT AT DRIVEWAY ENTRANCE  
SCALE: VERT: 1" = 5'  
HOR: 1" = 30'

**INDEX CHART**

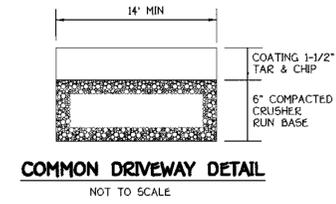
SHEET	DESCRIPTION
SHEET 1	SITE DEVELOPMENT PLAN
SHEET 2	SEDIMENT/ EROSION CONTROL PLAN
SHEET 3	SEDIMENT/ EROSION CONTROL NOTES & DETAILS

**MINIMUM LOT SIZE CHART**

LOT NO.	GROSS AREA SQ. FT.	PIPE STEM AREA SQ. FT.	MINIMUM LOT SIZE SQ. FT.
1	10,113.30	1,224.49	8,888.81
2	9,501.77	321.57	9,180.20
3	10,973.08	-	10,973.08

**ADDRESS CHART**

LOT NUMBER	STREET ADDRESS
1	6808 MARTIN ROAD
2	6804 MARTIN ROAD
3	6800 MARTIN ROAD



**LEGEND**

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
+362.5	SPOT ELEVATION
---S---S---	SILT FENCE
---SF---SF---	SUPER SILT FENCE
[WALK]	PROPOSED WALKOUT
•••••	EROSION CONTROL MATTING
L.O.D.	LIMIT OF DISTURBANCE
[Hatched]	FOREST CONSERVATION RETENTION EASEMENT

**DEVELOPER'S/BUILDER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THIS PLAN, SECTION 16.24 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Stephen F. Forney* 1-31-02  
NAME STEVE FORNEY DATE

G1660

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
410-480-9105

**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: *Charles J. Crovo, Sr.* 1-31-02  
Date

**OWNER/DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan, for sediment and erosion control 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: *Stephen F. Forney* 1-31-02  
Date

**REVISION**

DATE	REVISION
7-1-02	Rev hso fard, Lots 1 & 3, rev hse type MHA 1 Savoy Res.

**ENGINEER'S CERTIFICATE**  
Reviewed for HOWARD SCD and meets Technical Requirements.  
*Jim Mayers* 4/14/02  
Date  
USDA-Natural Resources Conservation Service  
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.  
*John R. Robertson* 4/14/02  
Date  
Howard SCD

**OWNER/DEVELOPER**  
ELLCOTT CITY LAND HOLDING, INC.  
8000 MAIN STREET  
ELLCOTT CITY, MARYLAND 21043  
410-480-9105

**BUILDER**  
HAMILTON REED  
C/O LAND DESIGN AND DEVELOPMENT, LLC  
8000 MAIN STREET  
ELLCOTT CITY, MARYLAND 21042  
410-480-0387

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Candy Bennett* 4/9/02  
Date  
Chief, Division of Land Development  
*John S. Forney* 4/9/02  
Date  
Chief, Development Engineering Division MK  
*John S. Forney* 4/11/02  
Date  
Director - Department of Planning and Zoning

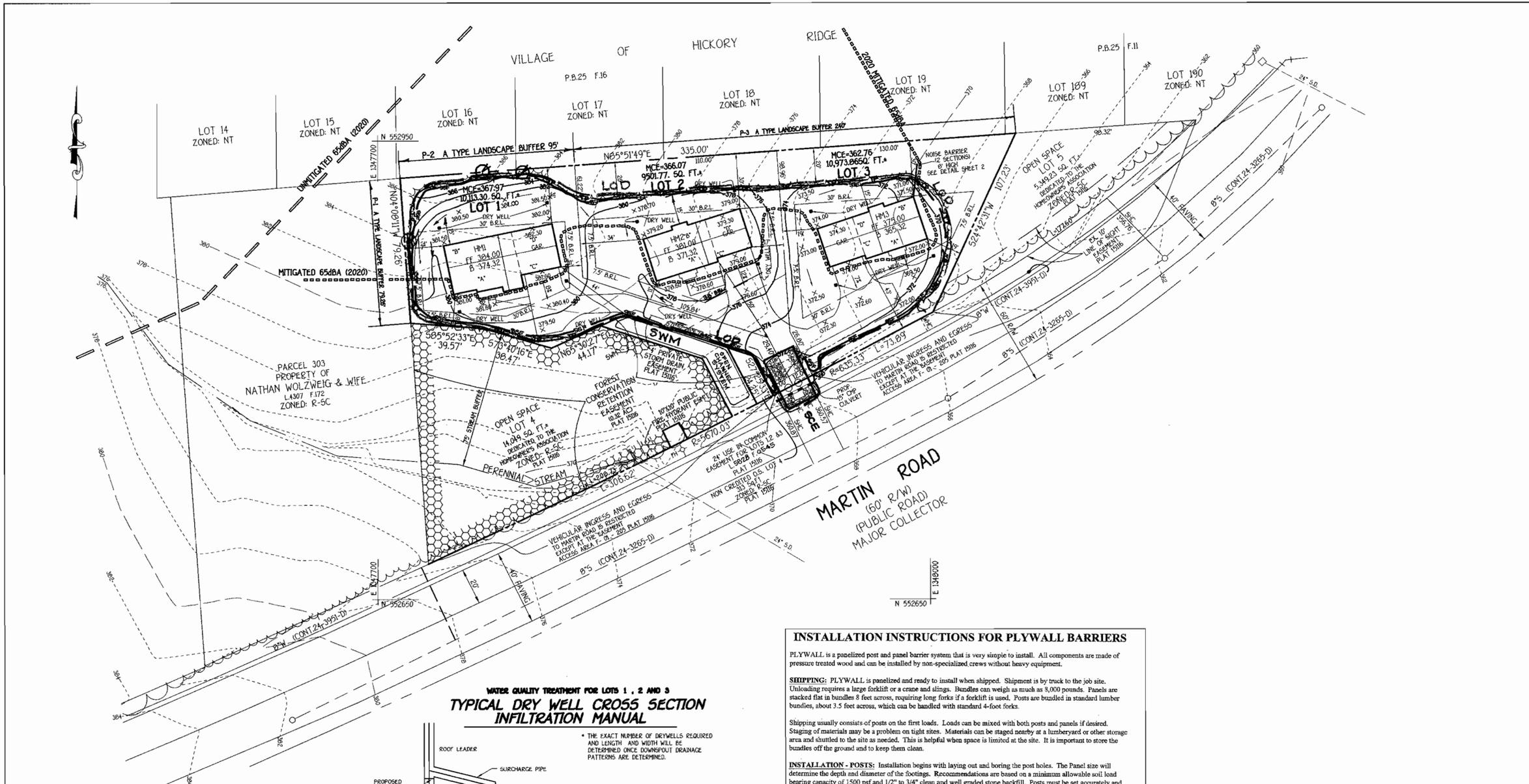
**SITE DEVELOPMENT PLAN**  
MINOR SUBDIVISION  
**MARTIN MANOR**  
LOTS 1, 2 & 3  
TAX MAP NO: 41 PARCEL 215 GRID 6  
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: JANUARY, 2001  
SHEET 1 OF 3

PROJECT	SECTION	LOTS NO.
MARTIN MANOR		1, 2 & 3

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
1516	6	R-SC	41	FIFTH	6051.02

WATER CODE	SEWER CODE
E-29	5322500

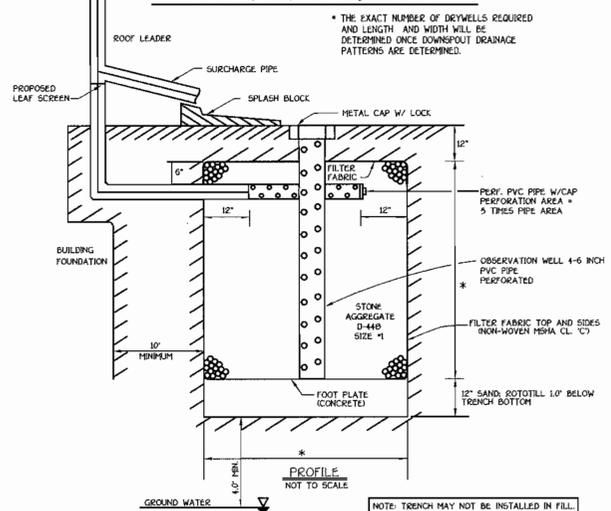
**SDP 02-058**



**STORMWATER MANAGEMENT NOTES:**

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES 1 & II.
2. CREDITS ARE GIVEN FOR DISCONNECTION OF IMPROVED COVERS.
3. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWN SPOUT SHALL BE LESS THAN 500 SF.
4. DRY WELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% SLOPE AND CONSTRUCTION OF THE DRY WELL SHALL BE IN ACCORDANCE WITH FIGURE 5.2 OF THE MANUAL.
5. THE FINAL GRADING IS PROVIDED AS SHOWN ON THIS PLAN.

**TYPICAL DRY WELL CROSS SECTION INFILTRATION MANUAL**



**INSTALLATION INSTRUCTIONS FOR PLYWALL BARRIERS**

**PLYWALL** is a panelized post and panel barrier system that is very simple to install. All components are made of pressure treated wood and can be installed by non-specialized crews without heavy equipment.

**SHIPPING:** PLYWALL is panelized and ready to install when shipped. Shipment is by truck to the job site. Unloading requires a large forklift or a crane and slings. Bundles can weigh as much as 3,000 pounds. Panels are stacked flat in bundles 8 feet across, requiring long forks if a forklift is used. Posts are banded in standard lumber bundles, about 3.5 feet across, which can be handled with standard 4-foot forks.

Shipping usually consists of posts on the first loads. Loads can be mixed with both posts and panels if desired. Staging of materials may be a problem on tight sites. Materials can be staged nearby at a lumberyard or other storage area and skittled to the site as needed. This is helpful when space is limited at the site. It is important to store the bundles off the ground and to keep them clean.

**INSTALLATION - POSTS:** Installation begins with laying out and boring the post holes. The panel size will determine the depth and diameter of the footings. Recommendations are based on a minimum allowable soil bearing capacity of 1500 psf and 1/2" to 3/4" clear and well graded stone backfill. Posts must be set accurately and plumb so that the panels will fit neatly between the posts with a construction allowance determined by the panel size (see drawing). Posts are supplied with one foot extra length so that they can be set without having to have the top at a precise elevation. They can be easily trimmed to the proper elevation later. Additional length can be supplied on request.

**INSTALLATION - PANELS:** Panels are fabricated in modules that are a maximum of either 8 feet high or 8 feet wide. Two built-in nylon web lifting loops are provided at the top of each panel for lifting by crane with two hooks. Before lifting and positioning the panel between posts, attach the rear, pre-drilled, long 4x4 cleats vertically to each post, then swing the panel into position. When the panel is in position against the rear 4x4 cleats, spike or lag the front 4x4 cleats to the post through the pre-drilled holes in the 4x4's, "squeezing" the panel between the rear and front 4x4 attachment members. The panels are not nailed to the 4x4 attachment members or the posts, and they bear directly on earth at the bottom. After securing the panels, the lifting loops may be cut off with a sharp utility knife or folded and tacked to the top framing member for possible future use if the wall might need to be relocated.

**INSTALLATION - STACKABLE PANELS:** Stacking panels between posts is accomplished by lowering the top panel down onto the lower panel, guiding the plywood edges over the protruding, beveled "tongue" formed by the lower panel's topmost framing member. It is not necessary to slide the panels all the way down from the top of the posts as would be the case with steel or concrete beams. After setting the panels, the lifting loops may be cut off with a sharp utility knife or folded and tacked to the top framing member for possible future use if the wall might need to be relocated. The horizontal panel joint is not designed for the plywood edges to meet due to the difficulty of assuring a perfect joint. A gap of about 1/4" is normal between the plywood butts.

Smaller panels are stacked on top to achieve the desired top elevation. The size and number of panels are determined in advance by the panel size.

To finish off the wall, trim the posts to the desired height, bevel, or slope with a chain saw after setting panels. Be sure to order extra post length if the normal one foot is determined inadequate for your desired post finishing method. No finishing or maintenance of the panels or posts is necessary.

LOT NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQ'D	AREA OF STORAGE	AREA OF TREATMENT	NO. OF DRY WELLS	REQ'D DRY WELL SIZE
LOT 1	A= 390 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
	B= 350 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
	C= 460 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
LOT 2	A= 300 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
	B= 300 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
	C= 320 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
LOT 3	A= 300 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
	B= 300 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'
	C= 320 Sq.Ft.	40 cf	100%	0%	1	4' x 4' x 3'

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK • 10272 BALTIMORE NATIONAL FREE  
 ELLICOTT CITY, MARYLAND 21114  
 (410) 486 - 2855



**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: *Charles J. Crovo*  
 Date: 1-31-02

**OWNER/DEVELOPER'S CERTIFICATE**  
 I/we certify that all development and construction will be done according to this plan, for sediment and erosion control 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: *Stephen F. Forney*  
 Date: 1-31-02

Approved for HOWARD SCD and meets Technical Requirements.

Signature of *John K. Crovo* Date: 4/9/02  
 Signature of *John K. Crovo* Date: 4/9/02

**OWNER/DEVELOPER**  
 ELLICOTT CITY LAND HOLDING, INC.  
 8000 MAIN STREET  
 ELLICOTT CITY, MARYLAND 21043  
 410-480-9105

**BUILDER**  
 HAMILTON REED  
 C/O LAND DESIGN AND DEVELOPMENT, LLC  
 8000 MAIN STREET  
 ELLICOTT CITY, MARYLAND 21042  
 410-480-0387

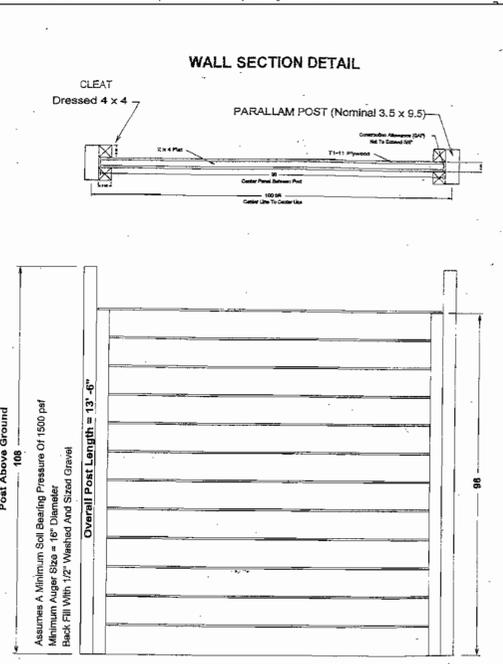
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature of *Chris Hancock* Date: 4/9/02  
 Signature of *William...* Date: 4/9/02  
 Signature of *...* Date: 4/11/02

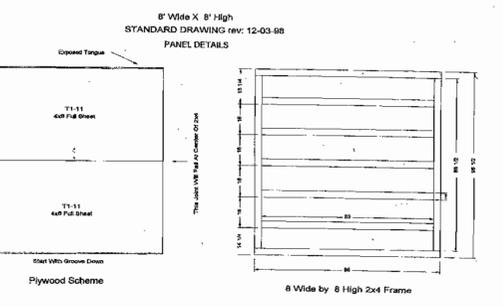
PROJECT: MARTIN MANOR SECTION: 1, 2 & 3 LOTS NO.: 1, 2 & 3

PLAT: 15116	BLOCK NO.: 6	ZONE: R-SC	TAX/ZONE: 41	ELEC. DIST.: FIFTH	CENSUS TR.: 6051.02
WATER CODE: E-29	SEWER CODE: 5322500				

Height	Wind Load (PSF)						
	20	25	28	30	33	35	40
6'	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75
8'	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75	3.5 x 9.75
10'	3.5 x 9.75	3.5 x 9.75	5.25 x 9.75	5.25 x 9.75	5.25 x 9.75	5.25 x 9.75	5.25 x 9.75
12'	5.25 x 9.75	5.25 x 9.75	5.25 x 12				
14'	5.25 x 12	5.25 x 12	5.25 x 12	5.25 x 12	5.25 x 12	5.25 x 12	5.25 x 14
16'	5.25 x 14	5.25 x 14	5.25 x 14	5.25 x 14	5.25 x 14	5.25 x 14	7 x 14
18'	7 x 14	7 x 14	7 x 14	7 x 14	7 x 14	7 x 14	7 x 14
20'	7 x 14	7 x 14	7 x 14	7 x 14	7 x 14	7 x 16	7 x 16
22'	7 x 16	7 x 16	7 x 16	7 x 16	7 x 16	7 x 16	11 x 14
24'	11 x 12	11 x 12	11 x 14	11 x 14	11 x 14	11 x 14	11 x 16
26'	11 x 16	11 x 16	11 x 16	11 x 16	11 x 16	11 x 16	11 x 19
28'	11 x 19	11 x 19	11 x 19	11 x 19	11 x 19	11 x 19	11 x 19
30'	11 x 19	11 x 19	11 x 19	11 x 19	11 x 19	11 x 19	11 x 19



STANDARD 8' Wide X 8' High rev: 03-30-01



8' Wide by 8' High STANDARD DRAWING rev: 12-03-00 PANEL DETAILS

**SEDIMENT AND EROSION CONTROL**

**MINOR SUBDIVISION**  
**MARTIN MANOR**  
 LOTS 1, 2 & 3

TAX MAP No: 41 PARCEL 215 GRID 6  
 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 SCALE: 1"= 30' DATE: JANUARY, 2001  
 SHEET 2 OF 3

**SDP 02-058**

## 20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

### PURPOSE

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

### CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding to quickly establish vegetative cover for short duration (Up to one year), and Permanent Seeding for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary soil stockpiles, areas being used for construction activities, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

### EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation and groundwater recharge. Vegetation over time will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assisting those substances present within the root zone.

Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

## SECTION 1 VEGETATIVE STABILIZATION METHODS AND MATERIALS

- Site Preparation**
  - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
  - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
  - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
- Soil Amendment (Fertilization)**
  - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.
  - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall be delivered to the site fully banded according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
  - Lime material shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total oxide (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 90-100% will pass through a #20 mesh sieve.
  - Incorporate lime and fertilizer into the top 3-5" of soil by disk or other suitable means.
- Temporary Seeding**
  - Seeding preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should be rolled or disped smooth, but left in the roughened condition if the slope is greater than 3:1 should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
  - Apply fertilizer and lime as prescribed on the plans.
  - Seed shall be broadcast into the top 3-5" of soil by disk or other suitable means.
- Permanent Seeding**
  - Minimum soil conditions required for permanent vegetative establishment:
    - Soil pH shall be between 6.0 and 7.0.
    - Soluble salts shall be less than 500 parts per million (ppm).
    - The soil shall contain less than 40% clay, but enough fine grained material (30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. In exception to (i) above, or where a landscape is to be planted, then a sandy soil (50% silt plus clay) would be acceptable.
    - Soil shall contain 1.5% minimum organic matter by weight.
    - Soil must contain sufficient pore space to permit adequate root penetration.
    - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 standard and specification for topsoil.
  - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
  - Apply soil amendments as per soil test or as included on the plans.
  - Mix soil amendments into the top 3-5" of topsoil by disk or other suitable means. Lawn areas should be rolled to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application, where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Strip slopes steeper than 3:1 should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-2" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.
- Seed Specifications**
  - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.
  - Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
  - Inoculant** - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria produced specifically for the species. Inoculant shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when broadcasting. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75-80° F. can weaken bacteria and make the inoculant less effective.
- Methods of Seeding**
  - Hydroseeding** - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seed.
    - If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: Nitrogen maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous) 200 lbs/acre; K2O (potassium) 200 lbs/acre.
    - Lime - use one half recommended rate. Up to 1 ton per acre may be applied by hydroseeding. Normally, not more than 2 tons per acre may be hydroseeded at any one time. Do not use burnt or hydrated lime when hydroseeding.
    - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
  - Dry Seeding** - This includes use of conventional drop or broadcast spreaders.
    - Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summary or Tables 205 or 206. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
    - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
  - Catclodder Seeding** - Mechanized seeders that apply and cover seed with soil.
    - Catclodder seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil contact. Seeding must be firm after planting.
    - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
- Mulch Specifications** (in order of preference)
  - Straw shall consist of thoroughly threshed wheat, rice or oat straw, reasonable bright in color, and shall be mostly, moist, clean, free of excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
  - Wood Cellulose Fiber Mulch (WCFM)**
    - WCFM shall consist of specially prepared wood cellulose processed into a uniform (fibrous fibrous) state.
    - WCFM shall be dried green or contain a green dye in the package that will provide an appropriate color to facilitate identification of the uniform green slurry.
    - WCFM, including dye, shall contain no germination or growing inhibiting factors.
    - WCFM material shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a batter-like ground cover, on application, having moisture absorption and permeation properties and shall cover and hold grass seed in contact with the soil without restricting the growth of the grass seedlings.
    - WCFM material shall contain no elements or compounds at concentrations levels that will be phytotoxic.
    - WCFM must conform to the following physical requirements: fiber length to approximately 10 mm, diameter approximately 1 mm, range of fiber to 0.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.
- Mulching Seeded Areas** - Mulch shall be applied to all seeded areas immediately after seeding.
  - If grading is completed outside of the seeding season, mulch shall be applied by broadcast in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
  - When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch churning tool is to be used, the rate should be increased to 2.5 tons/acre.
  - Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

- Securing Straw Mulch (Mach Anchoring)** - Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods listed by preference, depending upon size of area and erosion hazard:
  - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This method is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
  - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a rate of 100 lbs. per acre. The binder shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
  - Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of back slopes. Vegetation should be applied under any other binder application. Synthetic binders - such as Acrylic GLS (Ago-Tack, DCA-70 Petro-Terra, Terra Tex, etc.) are not recommended. Any binder used must be approved by the manufacturer to anchor mulch.
  - Lightweight plastic netting may be staked over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.
- Incremental Stabilization - Cut Slopes**
  - All cuts slopes prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
  - Construction sequence shall be as follows:
    - Excavate and stabilize all temporary ditches, side ditches, or berms that will be used to convey runoff from the excavation.
    - Perform Phase 1 excavation, dress and stabilize.
    - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as needed.
    - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil of required and permanent seed and mulch. Any interruption in the operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization.

- Incremental Stabilization of Embankments - Fill Slopes**
  - Embankments shall be constructed in lifts as prescribed in the multiple lifts reaches
  - Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15' or when the grading operation ceases as specified on the plans.
  - At the end of each lift, temporary ditches and slope drains shall be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to sediment trapping.
  - Construction sequence: Refer to Figure 4 below.
    - Excavate and stabilize all temporary ditches, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill as shown on drawings.
    - Place Phase 1 embankment, dress and stabilize.
    - Place Phase 2 embankment, dress and stabilize.
    - Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of and placement of topsoil of required seed and mulch. Any interruption in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

## SEDIMENT CONTROL NOTES

- 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 (10:30-10:55).
- 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 AND GEOTECHNICAL DESIGN.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 DAYS.
- CALENDAR DATES FOR ALL PERMITS, SEDIMENT CONTROL STRUCTURES, DICES, PERMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPPING DEVICES 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.
- DISTURBED AREAS MUST BE STABILIZED BEFORE THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), 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.

7) SITE ANALYSIS

TOTAL AREA OF SITE	0.702 ACRES
AREA DISTURBED	0.543 ACRES
AREA TO BE ROOFED OR PAVED	0.230 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.343 ACRES
TOTAL CUT	~CU.YDS.
TOTAL FILL	~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 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 PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH 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) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

## PLANTING SPECIFICATIONS

Plants, related material and operations shall meet the detailed description as given on the plans and as described herein.

All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and slope shown on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring roots, sun scald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be frost-free and no heated-in plants from cold storage will be accepted.

Unless otherwise specified, all general conditions, planting operations, details and planting specification shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Area", hereinafter "Landscape Guidelines" approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects, latest edition, including all appendices.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and "Use Utility" a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within the growing season of completion of site construction.

bid shall be based on actual site conditions. No extra payment shall be made for work arising from site conditions differing from those indicated on drawings and specifications.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence.

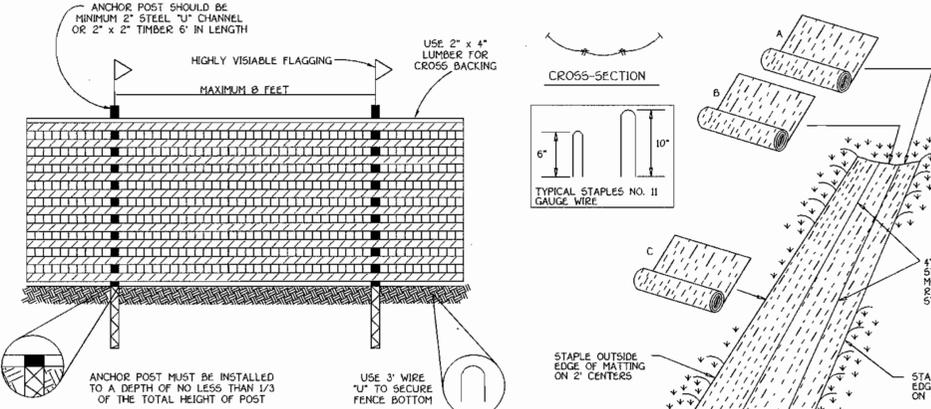
All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

Positive drainage shall be maintained in planting beds 2 percent slope.

Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen (acidic) fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded. This plan is intended for Landscape use only. See other plan sheets for more information on grading, sediment control layout, etc.



- NOTES:
- 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 INSTALLING DEVICE.
  - ROOT DAMAGE SHOULD BE AVOIDED.
  - PROTECTIVE SIGNAGE MAY ALSO BE USED.
  - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

## TREE PROTECTION DETAIL

NOT TO SCALE  
BLAZE ORANGE PLASTIC MESH

SCHEDULE A PERIMETER LANDSCAPE EDGE		
CATEGORY	PERIMETER	ADJACENT PROPERTIES
LANDSCAPE TYPE	A	A
LINEAR FEET OF PERIMETER	79.26	95.00
NUMBER OF PLANTS REQUIRED	1	2
SHADE TREES	0	0
CREDIT FOR EXISTING VEGETATION	0	0
NUMBER OF PLANTS PROVIDED	1	2
SHADE TREES	0	0

2) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

3) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

4) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

5) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

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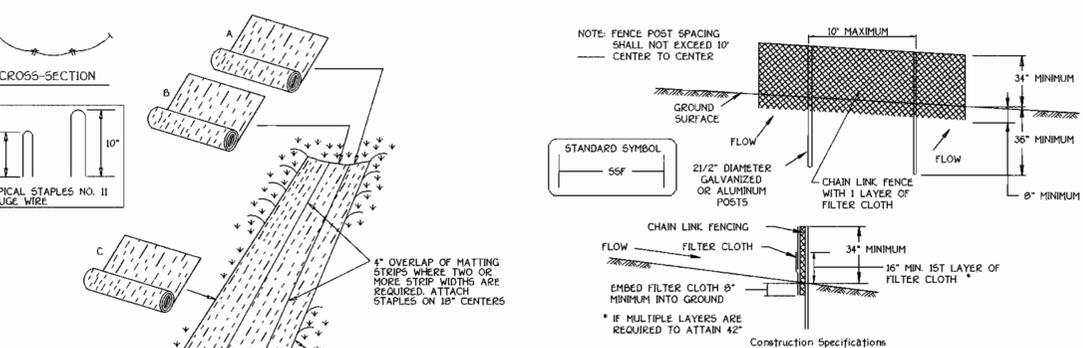
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All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded. This plan is intended for Landscape use only. See other plan sheets for more information on grading, sediment control layout, etc.



- Construction Specifications
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
  - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
  - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
  - Filter cloth shall be embedded a minimum of 8" into the ground.
  - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
  - Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
  - Filter cloth shall be fastened securely to each fence post with wire ties or staples at 10" and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal/(ft <sup>2</sup> minute) (max.)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 101	Unlimited	Unlimited
10 - 20%	101 - 51	200 feet	1,500 feet
20 - 33%	51 - 31	100 feet	1,000 feet
33 - 50%	31 - 21	100 feet	500 feet
50% +	21 +	50 feet	250 feet

Note: If flow will enter from the edge of the matting then the area affected by the flow must be keyed-in.

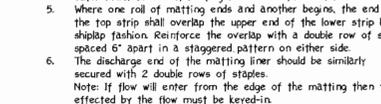
## EROSION CONTROL MATTING

NOT TO SCALE

- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2" apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

## SUPER SILT FENCE

NOT TO SCALE



## EROSION CONTROL MATTING

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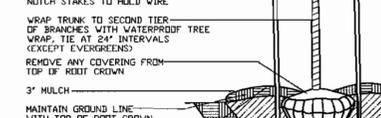
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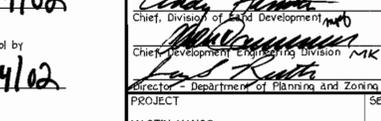
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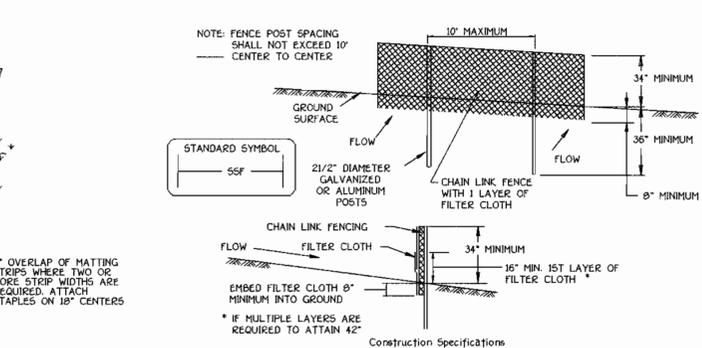
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## SUPER SILT FENCE

NOT TO SCALE



- Construction Specifications
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