

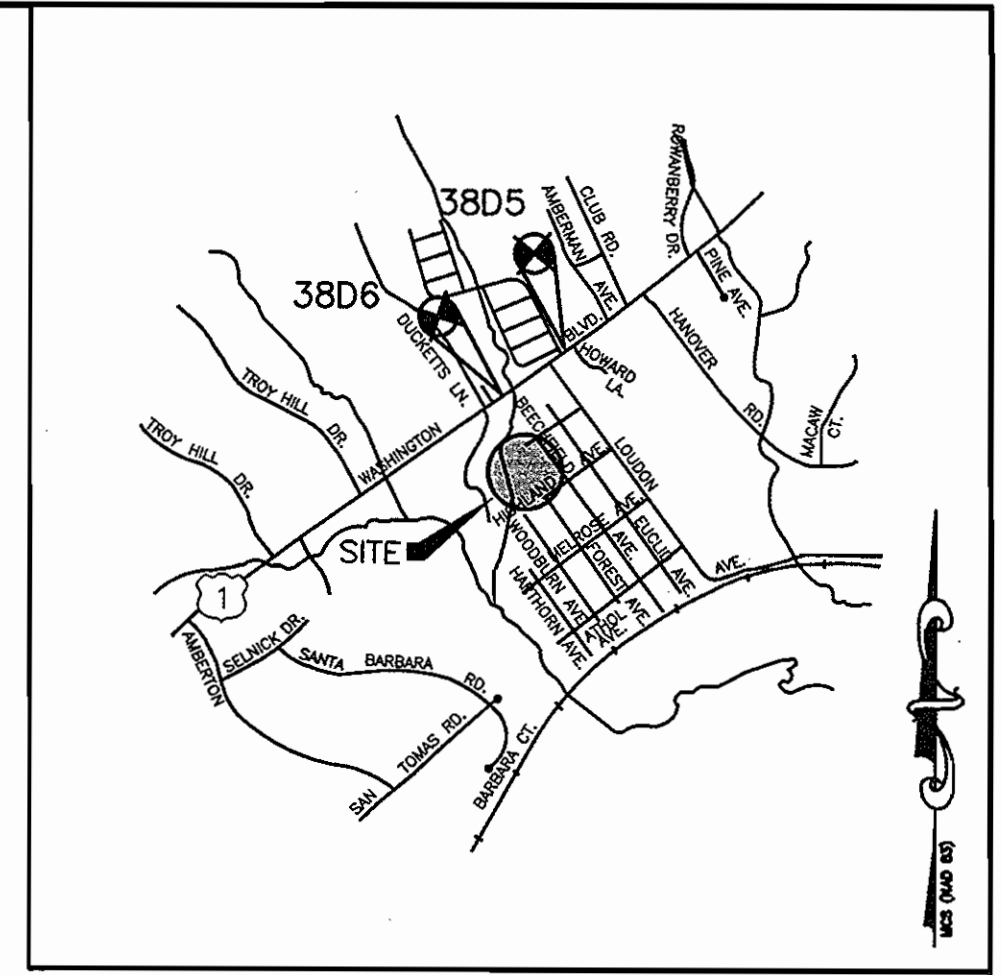
SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING PLAN
4	SEDIMENT CONTROL PLAN
5	DETAILS

# SITE DEVELOPMENT PLAN

# TIMBER RIDGE

## LOTS 683-688, 707-714, 719, 720 AND OPEN SPACE LOTS 704-A & 706-A

### 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

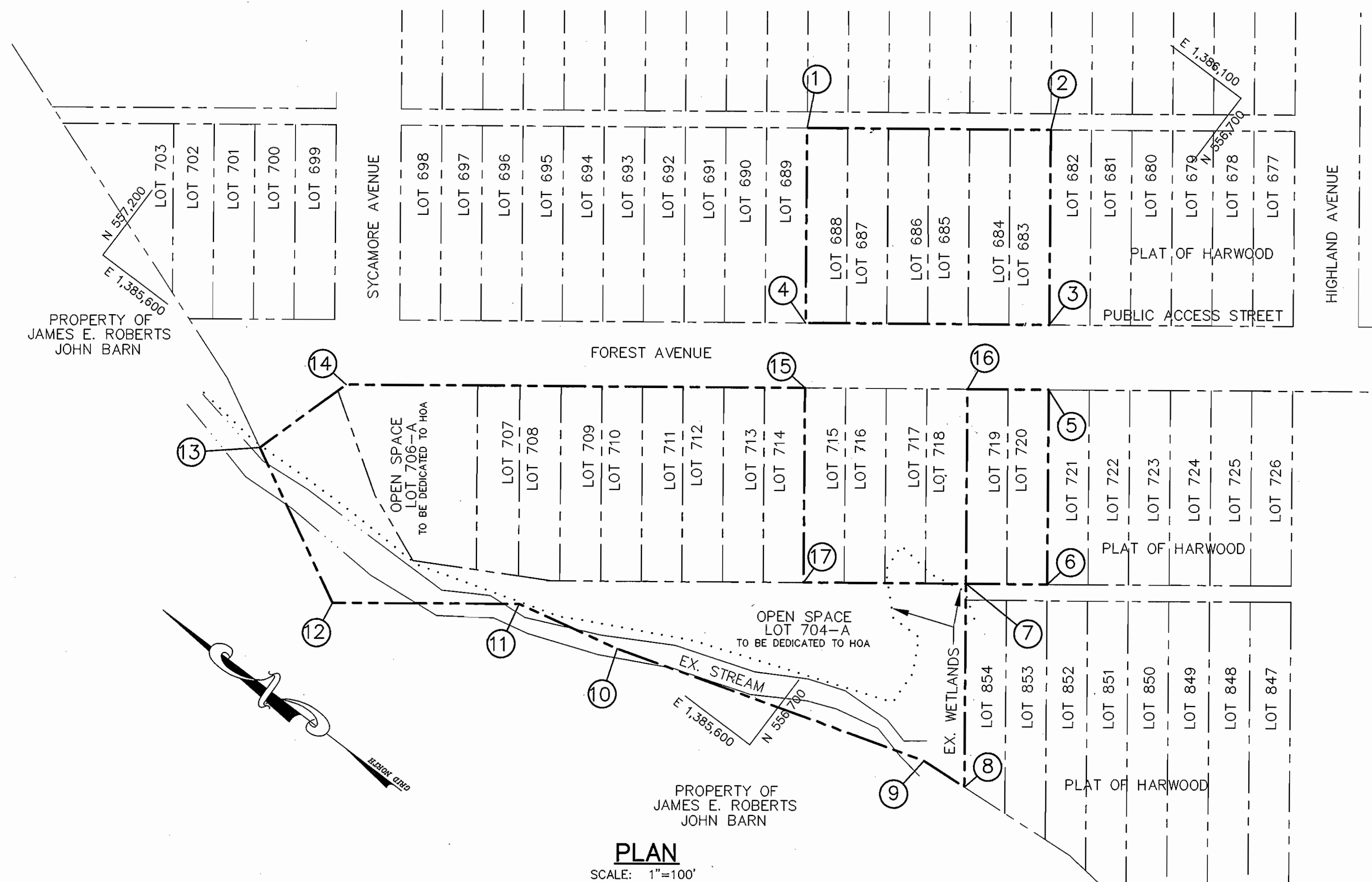


**VICINITY MAP**  
SCALE: 1"=2000'

**BENCH MARK**  
HOWARD COUNTY CONTROL  
STATION 3805  
N 558,378.575  
E 1,386,524.158  
ELEV. 193.726  
  
HOWARD COUNTY CONTROL  
STATION 3806  
N 557,155.459  
E 1,384,992.262  
ELEV. 175.228

**GENERAL NOTES**

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 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 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD STUDY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES, DATED FEBRUARY, 2003.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NO'S 3805 AND 3806 WERE USED FOR THIS PROJECT.
- THE STORM WATER MANAGEMENT GRASS CHANNEL CREDIT AND LEVEL SPREADER ARE PER F-06-133. THE HOA OWNED STORMWATER MANAGEMENT FOR THIS SITE WILL BE PROVIDED BY PRIVATELY MAINTAINED GRASS CHANNEL CREDIT AND LEVEL SPREADERS.
- EXISTING UTILITIES ARE BASED ON PUBLIC WATER AND PUBLIC SEWERAGE CONNECTIONS PROVIDED UNDER CONTRACT NO. 14-4360-D
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- FOR DRIVEWAY ENTRANCE DETAILS, REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAILS R-6.03 AND R-6.05. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENT OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12 FEET B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS D) STRUCTURES (CULVERTS/BRIDGES) - MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING) E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE F) STRUCTURE CLEARANCES - MINIMUM 12 FEET G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
- BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968.
- WETLANDS DELINEATION TAKEN FROM PREVIOUS REPORT PREPARED BY WILDMAN ENVIRONMENTAL SERVICES.
- THIS SUBDIVISION IS EXEMPT FROM FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1202(B)(1)(ii) OF THE FOREST CONSERVATION MANUAL SINCE IT HAS PRELIMINARY PLAN APPROVAL PRIOR TO 12/31/92.
- THIS SUBDIVISION IS EXEMPT FROM PERIMETER LANDSCAPING SINCE IT HAD A PRELIMINARY PLAN AND PLAT RECORDATION PRIOR TO 1993. IN ADDITION, THE SUBJECT LOTS ARE INTERIOR TO AN EXISTING SUBDIVISION, AND THIS PLAN DOES NOT PROPOSE ANY NEW BUILDING LOTS OR ADDITIONAL ACREAGE. STORM WATER MANAGEMENT PERIMETER LANDSCAPING IS NOT REQUIRED SINCE THE FORBAY HAS BEEN ELIMINATED. STREET TREE PLANTINGS WILL BE REQUIRED AND PROVIDED AS SHOWN ON THE ROAD CONSTRUCTION DRAWINGS. SURETY WILL BE POSTED WITH THE DPW DEVELOPER'S AGREEMENT UNDER THE FINAL PLAN, F-06-133.
- THIS PROJECT IS EXEMPT FROM THE 35' ENVIRONMENTAL SETBACK REQUIREMENT SINCE IT HAD A PRELIMINARY PLAN AND PLAT RECORDATION PRIOR TO 1993. HOWEVER, ENVIRONMENTAL BUFFERS AND RESTRICTIONS IN ACCORDANCE WITH SECTIONS 16.115 AND 16.116 OF THE AMENDED FIFTH EDITION OF THE SUBDIVISION REGULATIONS APPLY TO THIS PROJECT BECAUSE THESE LOTS PRE-DATE THOSE REGULATIONS. ANY IMPACT TO THESE PROTECTED AREAS FOR THE CONSTRUCTION OF HOMES WILL BE CONSIDERED ESSENTIAL, PROVIDED THAT THOSE IMPACTS ARE MINIMIZED.
- ALL FEDERAL AND STATE PERMITS FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT WILL BE APPLIED FOR AS APPLICABLE PRIOR TO ANY GRADING OR DISTURBANCE IN THE ENVIRONMENTAL AREAS AS SHOWN ON THIS PLAN.
- THE HOMEOWNERS' DOCUMENTS OF INCORPORATION HAVE BEEN RECORDED WITH THE MARYLAND STATE DEPARTMENT OF ASSESSMENTS AND TAXATION IN LIBER 0970, FOLIO 546
- PROJECT BACKGROUND INFORMATION:  
TAX MAP 38, PARCEL 873  
DEED REFERENCE: PLAT NO. 5300  
GROSS AREA: 2.17 ACRES  
AREA OF PLAN SUBMISSION: 1.89 ACRES  
ZONE: R-12  
AREA OF STEEP SLOPES: 0.74 ACRES  
AREA OF WETLANDS: 0.31 ACRES  
AREA IN ROW AND ROAD: 0.00 ACRES  
TOTAL AREA OF DISTURBANCE: 1.31 ACRES  
DPZ FILE NOS: SP9-01-93, WP-04-87, WP-05-129, SP-04-12, F06-133
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT 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 YARD SETBACK.
- THE SUBJECT PROPERTY IS ZONED R-12 PER THE 2/2/04 COMPREHENSIVE ZONING PLAN.
- GARAGES ON ALL UNITS MAY NOT BE CONVERTED TO LIVING SPACE. EACH UNIT MUST HAVE TWO OFF-STREET PARKING SPACES PER SECTION 133 OF THE ZONING REGULATIONS.
- A 2' BUFFER SHALL BE MAINTAINED BETWEEN STORM DRAIN EASEMENT AND ANY PERMANENT STRUCTURE.
- ALL OF THE STORMWATER MANAGEMENT FACILITIES WILL BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.



**PLAN**  
SCALE: 1"=100'

COORDINATE LIST		
1	N 556,901.59	E 1,385,924.05
2	N 556,781.40	E 1,386,013.80
3	N 556,709.60	E 1,385,917.65
4	N 556,829.79	E 1,385,827.90
5	N 556,685.67	E 1,385,885.60
6	N 556,613.87	E 1,385,789.45
7	N 556,653.93	E 1,385,759.54
8	N 556,579.08	E 1,385,659.29
9	N 556,608.58	E 1,385,657.01
10	N 556,800.93	E 1,385,598.03
11	N 556,865.69	E 1,385,583.49
12	N 556,957.84	E 1,385,514.70
13	N 557,051.06	E 1,385,563.75
14	N 557,032.30	E 1,385,626.76
15	N 556,805.86	E 1,385,795.85
16	N 556,725.73	E 1,385,855.69
17	N 556,734.06	E 1,385,699.70

ADDRESS CHART			
LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS
683	6851 FOREST AVENUE	711	6330 FOREST AVENUE
684	6849 FOREST AVENUE	712	6332 FOREST AVENUE
685	6847 FOREST AVENUE	713	6334 FOREST AVENUE
686	6845 FOREST AVENUE	714	6336 FOREST AVENUE
687	6841 FOREST AVENUE	719	6348 FOREST AVENUE
688	6839 FOREST AVENUE	720	6350 FOREST AVENUE
707	6822 FOREST AVENUE		
708	6824 FOREST AVENUE		
709	6826 FOREST AVENUE		
710	6828 FOREST AVENUE		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
*Mark D. Taylor* 1/20/07  
1/19/08  
CHIEF, DIVISION OF LAND DEVELOPMENT  
*John J. V...* 12/24/07  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE	NO.	REVISION

OWNER/DEVELOPER: MEADOWLARK, LLC  
ATTN: MARK PRITCHETT  
P.O. BOX #34  
HANOVER, MARYLAND 21076  
410-796-6505

PROJECT: **TIMBER RIDGE**  
DUPLICATE UNITS LOTS 683-688, 707-714, 719, 720 AND OPEN SPACE LOTS 704-A & 706-A

AREA: TAX MAP #38 PARCEL 873 ZONED R-12  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **TITLE SHEET**

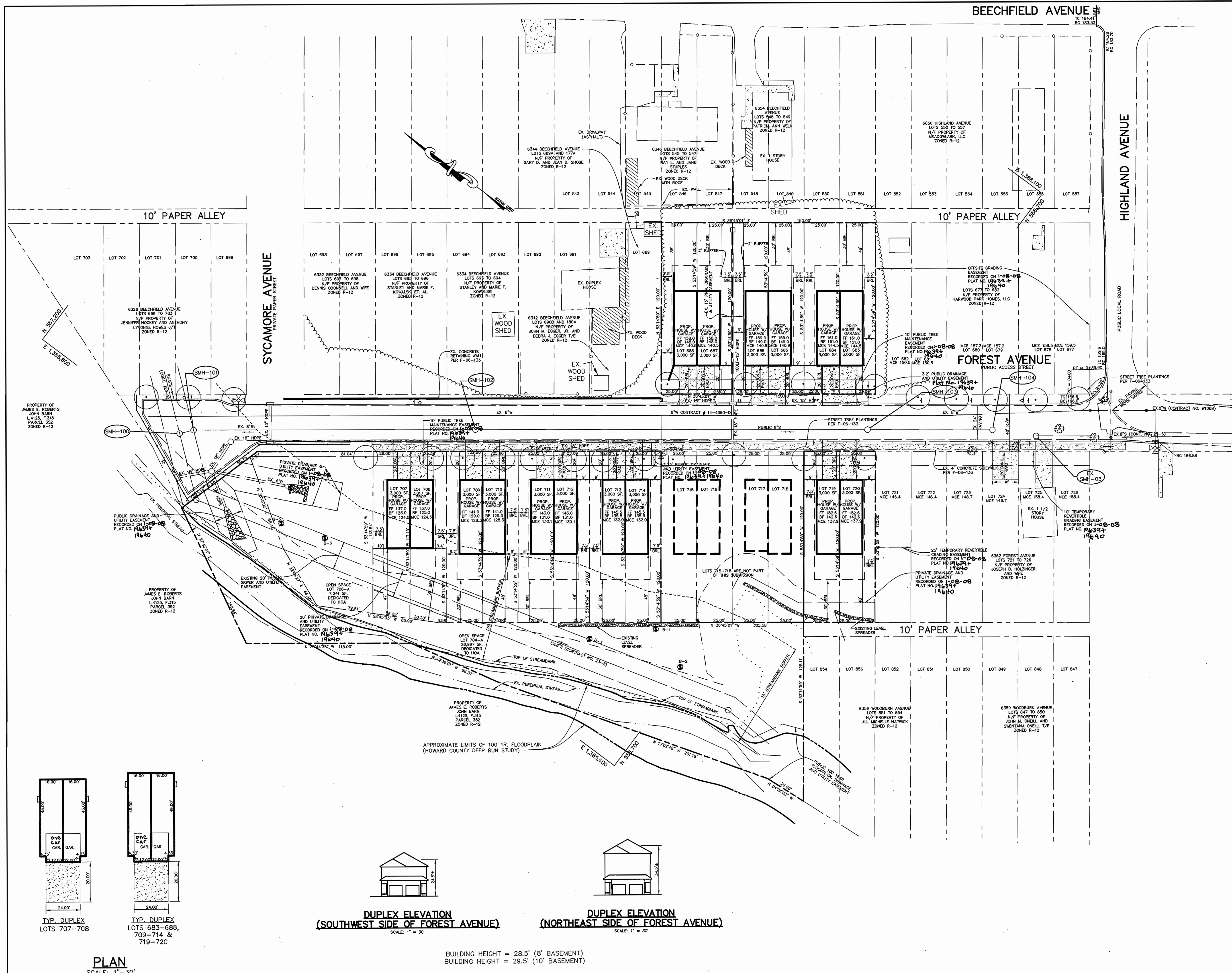
**Patton Harris Rust & Associates, pc**  
Engineers, Surveyors, Planners, Landscape Architects.  
8818 Centre Park Drive  
Columbia, MD 21045  
T 410.997.8900  
F 410.997.9282

DESIGNED BY: ACR  
DRAWN BY: ACR  
PROJECT NO: 11563-1-0-ENGR PLAN  
DATE: DECEMBER 11, 2007  
SCALE: AS SHOWN  
DRAWING NO. 1 OF 5

SDP-01-93

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**LEGEND**

PROPERTY LINE AND RIGHT OF WAY	---
EXISTING STORM DRAIN	EX-15"D
PROPOSED STORM DRAIN	15"D
OVERHEAD WIRES	OHW
EXISTING TREELINE	~~~~~
EXISTING TREE	⊗
PROP.SPOT ELEVATION	13'±
SETBACK LINES	---
EXISTING WATER	====
EXISTING SEWER	⊖
EXISTING CURB	=====
EXISTING BUILDING	▭
PROPOSED BUILDING	▭
FUTURE BUILDING	▭

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
*Michelle W. Matlock* 1/10/08  
 CHIEF, DIVISION OF LAND DEVELOPMENT 1/9/08 DATE  
*John J. Pritchett* 12/24/07  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE NO.	REVISION

OWNER/DEVELOPER  
 MEADOWLARK, LLC  
 ATTN: MARK PRITCHETT  
 PO BOX 4134  
 HANOVER, MARYLAND 21076  
 410-796-6505

PROJECT  
**TIMBER RIDGE**  
 DUPLEX UNITS LOTS 683-688, 707-714,  
 719, 720 AND OPEN SPACE LOTS 704-A & 706-A

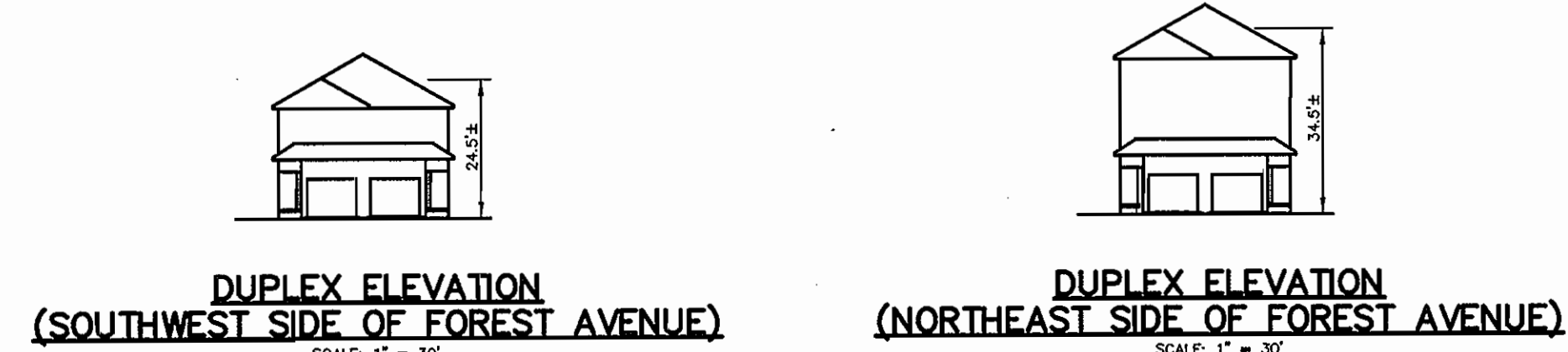
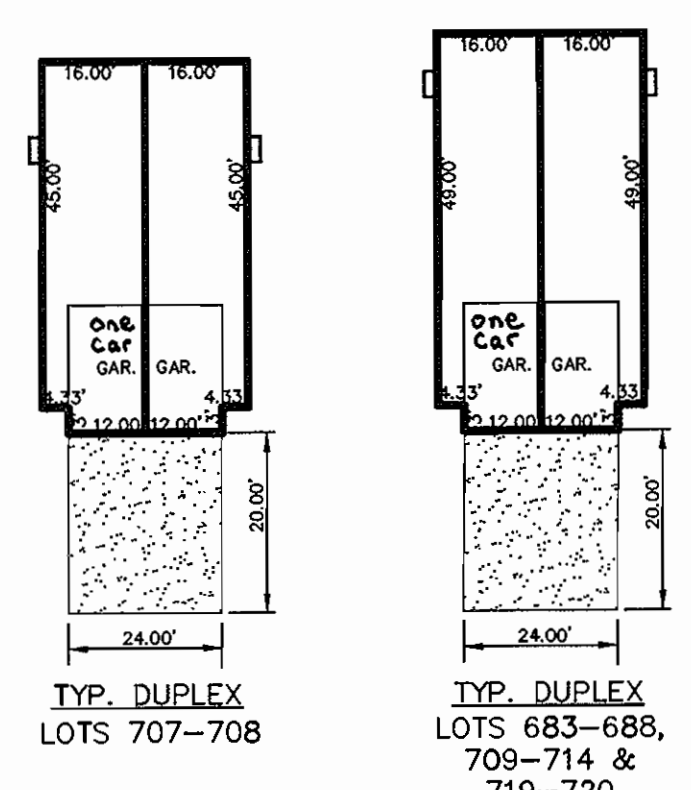
AREA TAX MAP #38 PARCEL 873 ZONED R-12  
 1st ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE  
**SITE DEVELOPMENT PLAN**

**Patton Harris Rust & Associates, p.c.**  
 Engineers, Surveyors, Planners, Landscape Architects.  
 8818 Centre Park Drive  
 Columbia, MD 21045  
 T 410.997.8900  
 F 410.997.9282

SEAL  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 JOHN J. PRITCHETT  
 12/16/07

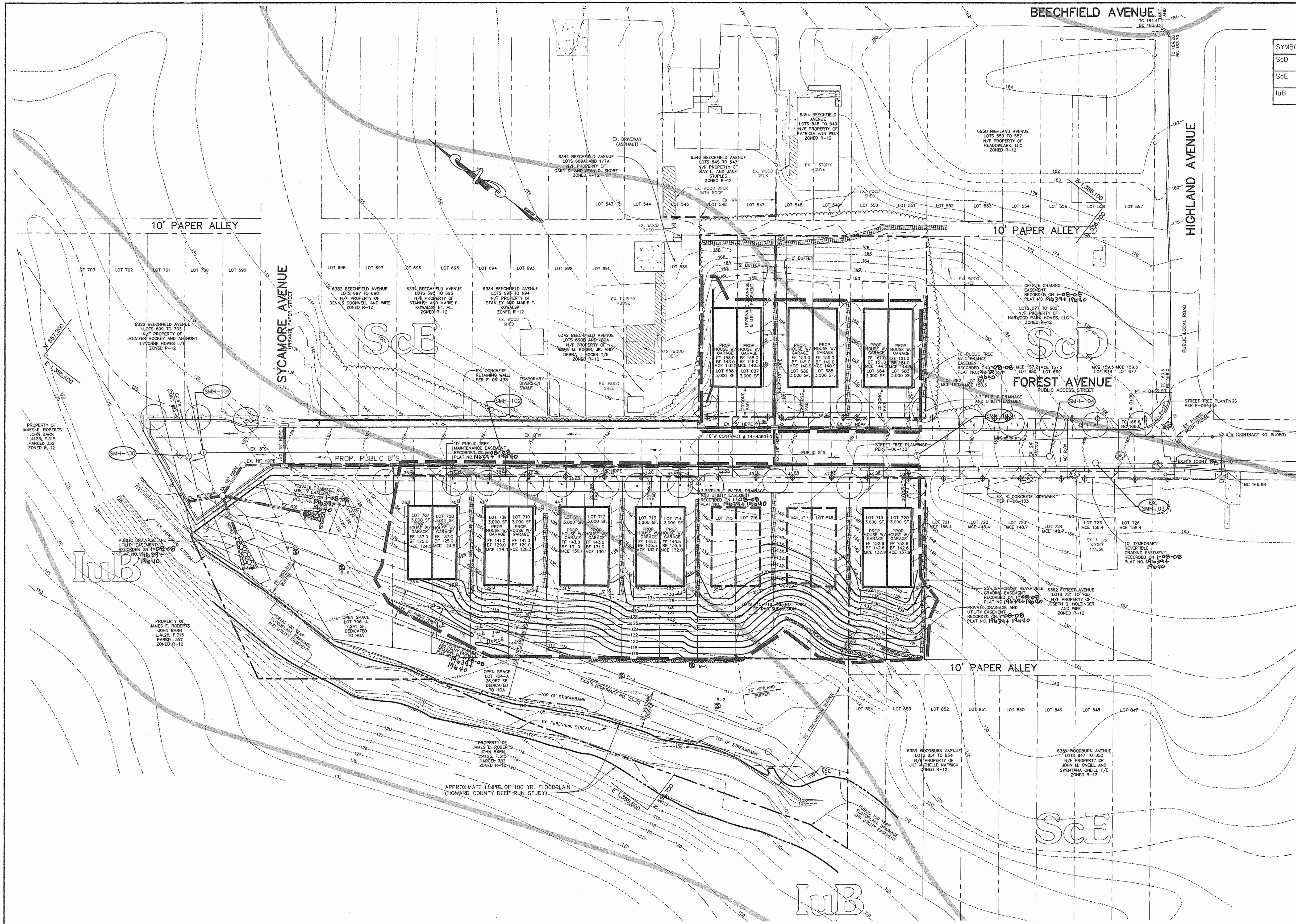
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 FINAL SDP C400SDP  
 DATE: DECEMBER 11, 2007  
 SCALE: 1" = 30'  
 DRAWING NO. 2 OF 5



BUILDING HEIGHT = 28.5' (8' BASEMENT)  
 BUILDING HEIGHT = 29.5' (10' BASEMENT)

PLAN  
 SCALE: 1"=30'





SOIL CHART		
SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GROUP
ScD	SANDY AND CLAYEY LAND, MODERATELY SLOPING	C
ScE	SANDY AND CLAYEY LAND, MODERATELY STEEP	C
IuB	IUKA LOAM, LOCAL ALLUVIUM, 1 TO 5 PERCENT SLOPES	C

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Mark A. Pritchett* 12/7/07  
 DEVELOPER DATE

BY THE ENGINEER :

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.

*D. W. C. H.* 12/7/07  
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*John R. Pritchett* 12/20/07  
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Matthew S. England* 1/10/08  
 DIRECTOR DATE

*Colleen M. Brubaker* 1/9/08  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*John R. Pritchett* 12/24/07  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION
OWNER/DEVELOPER		
MEADOWLARK, LLC ATTN: MARK PRITCHETT PO BOX 434 HANOVER, MARYLAND 21076 410-796-6505		
PROJECT		
TIMBER RIDGE DUPLIX UNITS LOTS 683-688, 707-714, 719, 720 AND OPEN SPACE LOTS 704-A & 706-A		
AREA		
TAX MAP #38 PARCEL 873 ZONED R-12 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE		
GRADING PLAN		

Patton Harris Rust & Associates, pc  
 Engineers, Surveyors, Planners, Landscape Architects.  
 8818 Centre Park Drive  
 Columbia, MD 21045  
 T 410.997.8900  
 F 410.997.9282

SEAL 12/7/07

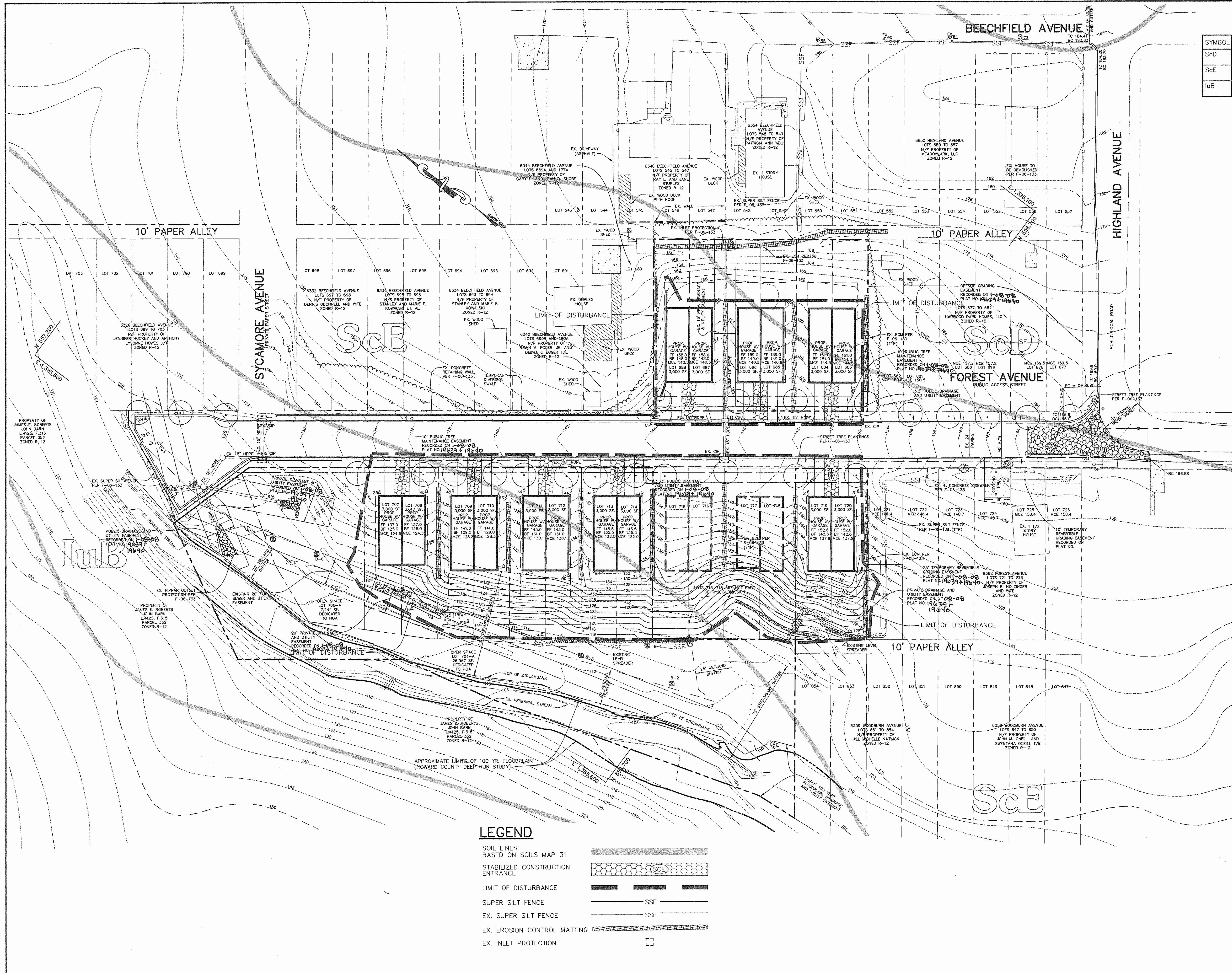
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 FINAL/SDP/C60DESC  
 DATE : DECEMBER 11, 2007  
 SCALE : 1" = 30'  
 DRAWING NO. 3 OF 5

**LEGEND**

SOIL LINES BASED ON SOILS MAP 31	
LIMIT OF DISTURBANCE	
EX. EROSION CONTROL MATTING	

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SOIL CHART		
SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GROUP
Scd	SANDY AND CLAYEY LAND, MODERATELY SLOPING	C
ScE	SANDY AND CLAYEY LAND, MODERATELY STEEP	C
IuB	IUKA LOAM, LOCAL ALLUVIUM, 1 TO 5 PERCENT SLOPES	C

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Mark A. Pritchett* 12/7/07  
DEVELOPER DATE

BY THE ENGINEER :

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.

*D.W. C. P.* 12/7/07  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT TO MEET THE TECHNICAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.

*[Signature]*  
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*John R. Reuter* 12/20/07  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Mark Pritchett* 1/10/08  
CHIEF, DIVISION OF LAND DEVELOPMENT 1/9/08 DATE

*[Signature]* 12/29/07  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION

OWNER/DEVELOPER  
MEADOWLARK, LLC  
ATTN: MARK PRITCHETT  
P.O. BOX 4314  
HANOVER, MARYLAND 21076  
410-796-6505

PROJECT  
**TIMBER RIDGE**  
DUPLEX UNITS LOTS 683-688, 707-714,  
719, 720 AND OPEN SPACE LOTS 704-A & 706-A

AREA TAX MAP #38 PARCEL 873 ZONED R-12  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE  
**SEDIMENT CONTROL PLAN**

Patton Harris Rust & Associates, p.c.  
Engineers, Surveyors, Planners, Landscape Architects.  
8818 Centre Park Drive  
Columbia, MD 21045  
T 410.997.8900  
F 410.997.9282

SEAL  
*[Signature]* 12/7/07  
DESIGNED BY : ACR  
DRAWN BY : ACR  
PROJECT NO.: 11583\1-0\ENGR\PLANS  
(FINAL) SDP\_C601ESC  
DATE : DECEMBER 11, 2007  
SCALE : 1" = 30'  
DRAWING NO. 4 OF 5

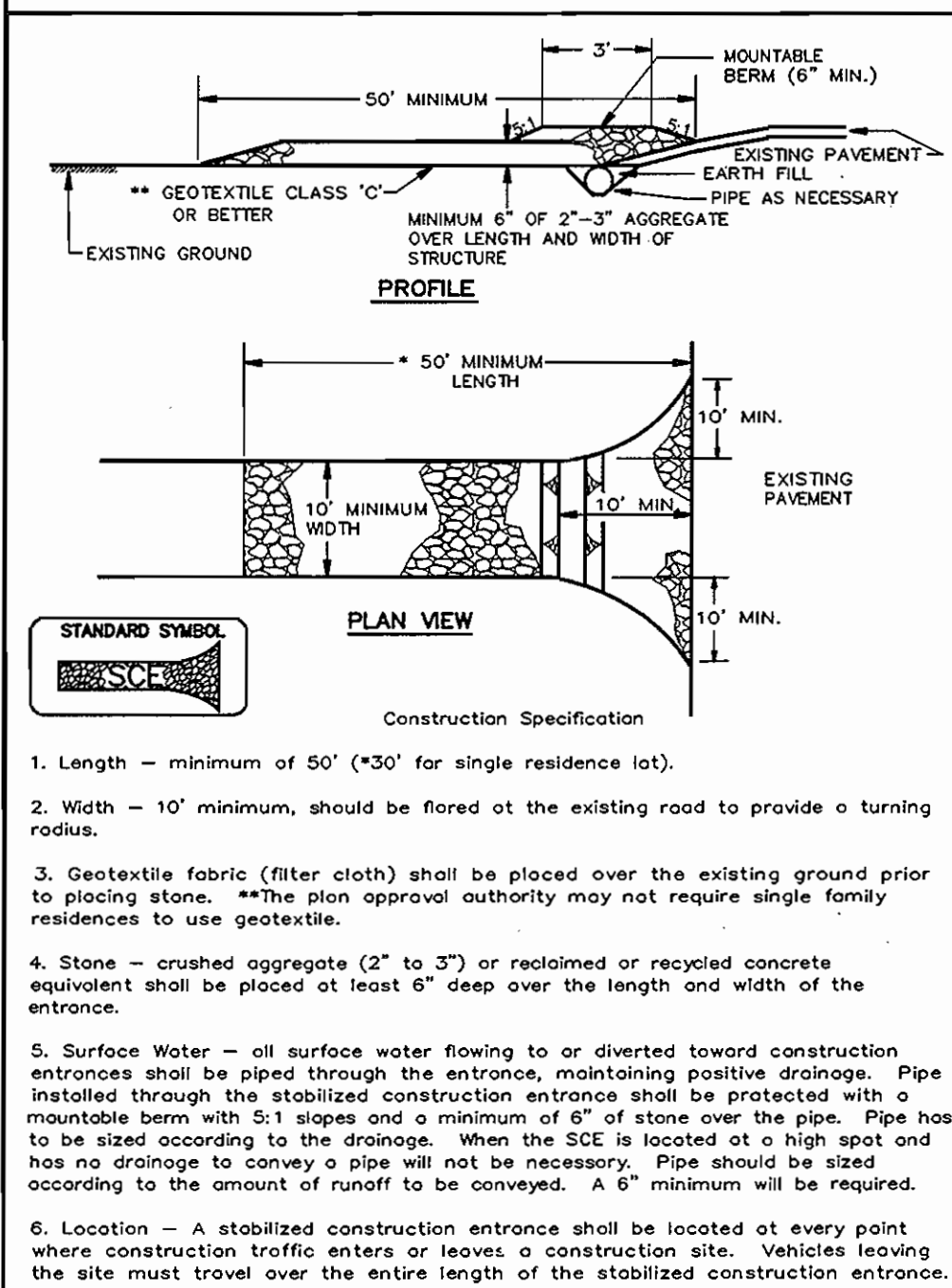
**LEGEND**

SOIL LINES BASED ON SOILS MAP 31	
STABILIZED CONSTRUCTION ENTRANCE	
LIMIT OF DISTURBANCE	
SUPER SILT FENCE	
EX. SUPER SILT FENCE	
EX. EROSION CONTROL MATTING	
EX. INLET PROTECTION	

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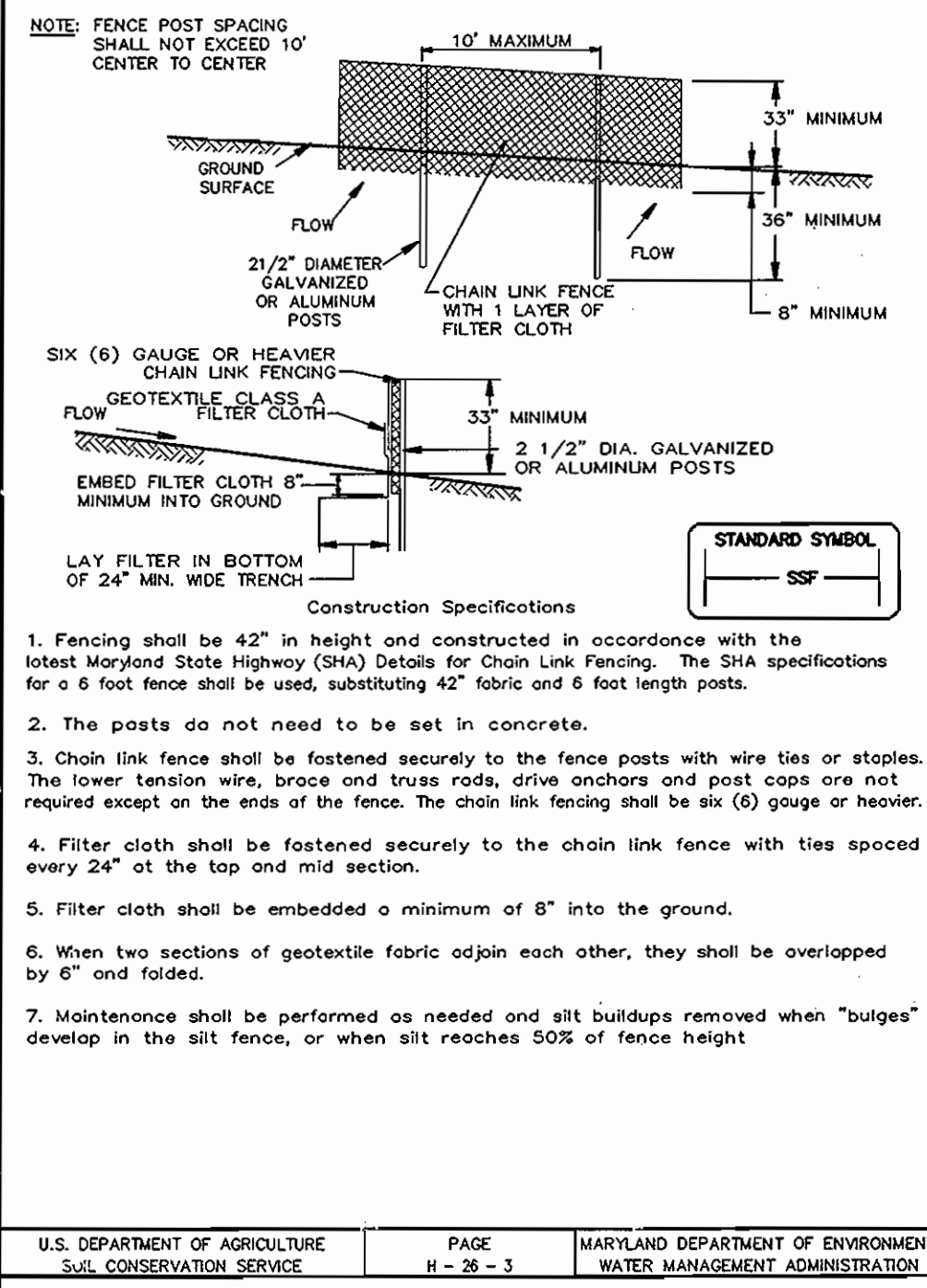
**DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE**



- Length - minimum of 50' (\*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E-17-3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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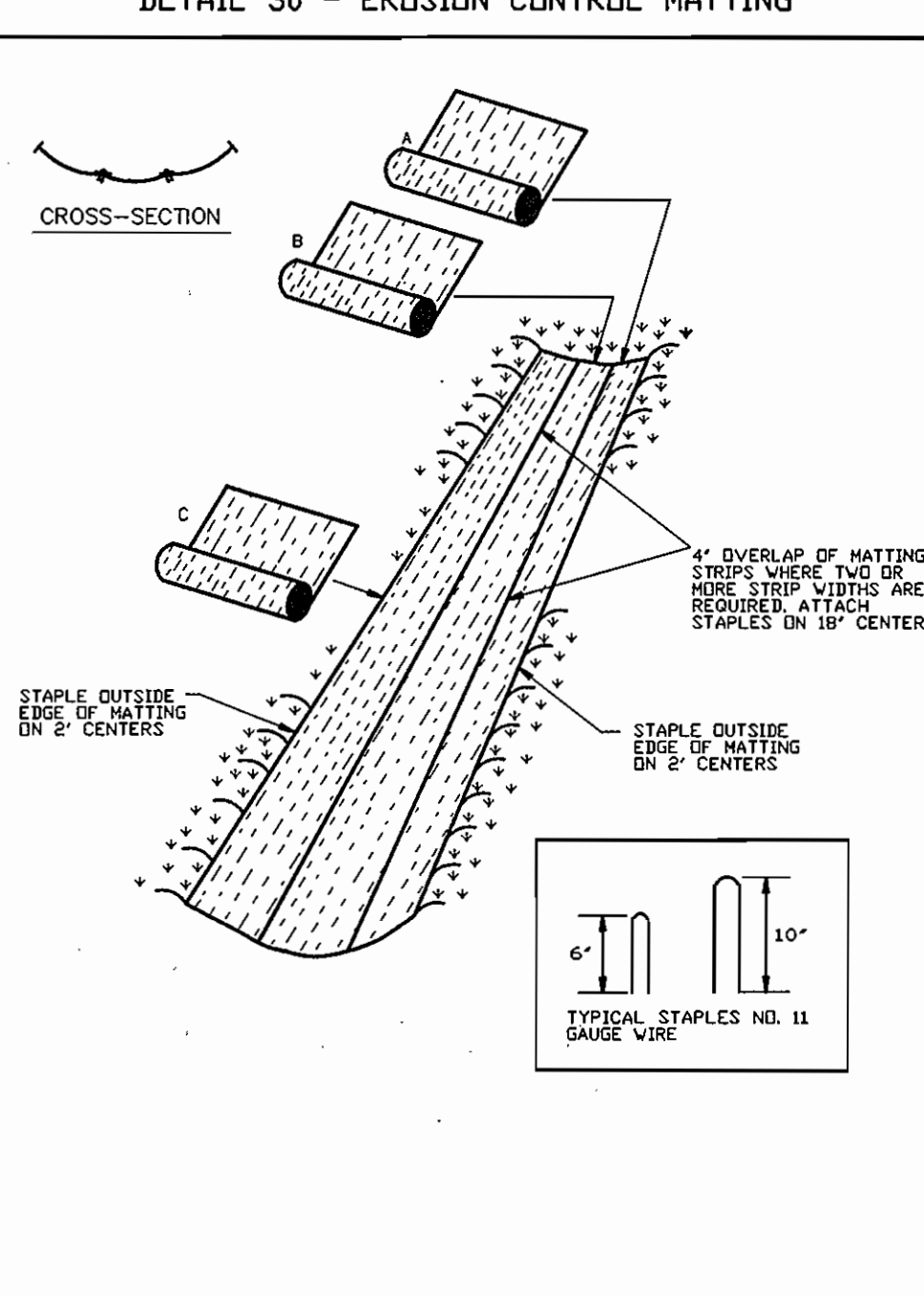
**DETAIL 33 - SUPER SILT FENCE**



- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway (SHA) Details for Chain Link Fencing. The SHA specifications for a 6 foot fence shall be used, substituting 42" fabric and 6 foot length posts.
- The posts do not need to be set in concrete.
- Chain link fence shall be fastened securely to the fence posts with wire ties or staples. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. The chain link fencing shall be six (6) gauge or heavier.
- 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 geotextile fabric 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

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H-28-3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**DETAIL 30 - EROSION CONTROL MATTING**



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE G-28-2	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**30.0 - DUST CONTROL**

**DEFINITION**  
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

**PURPOSE**  
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

**CONDITIONS WHERE PRACTICE APPLIES**  
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

**TEMPORARY METHODS**

- MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN FLOWING ON WINDWARD SIDE OF SITE. CHisel-TYPE PLOWS SPACED ABOUT 12' APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

**PERMANENT METHODS**

- PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOO. EXISTING TREES OR LARGE SHRUBS MAY AROUND VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING - COVERING WITH LESS ERODIBLE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

**REFERENCES**

- AGRICULTURE HANDBOOK 346, WIND EROSION FORCES IN THE UNITED STATES AND THEIR USES IN PREDICTING SOIL LOSS.
- AGRICULTURE INFORMATION BULLETIN 354, HOW TO CONTROL WIND EROSION, USDA-ARS.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H-30-1	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**DEFINITION**  
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**  
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTATION STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
  - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONCRETES, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1" IN DIAMETER.
  - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  - WHERE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
  - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
  - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
    - PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
    - ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
    - TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
    - NO SOO OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
  - TOPSOIL SUBSTITUTES TO AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY MAY BE USED IN LIEU OF NATURAL TOPSOIL.
- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

**REFERENCES**

GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SOODING, MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES, REVISED 1973.

**STANDARD SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOO, TEMPORARY SEEDING, AND MULCHING (SEC. G.). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED 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	2.17 ACRES
AREA OF PLAN SUBMISSION	1.89 ACRES
AREA DISTURBED	1.31 ACRES
AREA TO BE ROOFED OR PAVED	0.75 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.56 ACRES
TOTAL CUT	1000 CU. YARDS
TOTAL FILL	1000 CU. YARDS

 OFFSITE WASTE AREA LOCATION TO HAVE ACTIVE GRADING PERMIT
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITH ONE WORKING DAY, WHICHEVER IS SHORTER.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

**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. PER 1000 SQ.FT.).

**SEEDING** - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS. PER 1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS. PER 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 SOO.

**MULCHING** - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 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. PER 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (8 GAL. PER 1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED 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** - IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 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 (9 LBS. PER 1000 SQ.FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. PER 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

**SEEDING** - FOR THE PERIOD MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1000 SQ.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 (0.05 LBS. PER 1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY ONE OF THE FOLLOWING OPTIONS:

- 2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING.
- USE SOO.
- SEED WITH 80 LBS. PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

**MULCHING** - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 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. PER 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (8 GAL. PER 1000 SQ.FT.) FOR ANCHORING.

**MAINTENANCE** - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMITS FOR DUPLEX CONSTRUCTION.
- EXISTING SEDIMENT CONTROLS PER F-04-152 ARE TO BE UTILIZED FOR CONSTRUCTION. CONTRACTOR TO INSPECT EXISTING CONTROLS TO REMAIN AND REPAIR AS NECESSARY.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SUPER SILT FENCE AND BEGIN ROUGH GRADING.(2 DAYS)
- BEGIN HOUSE CONSTRUCTION.
- FINE GRADE SITE AND CONSTRUCT DRIVEWAY.(4 WEEKS)
- COMPLETE HOUSE CONSTRUCTION.(6 MONTHS)
- UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.

**BY THE DEVELOPER :**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John A. Pichard* 12/7/07  
DEVELOPER DATE

**BY THE ENGINEER :**

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.

*D. W. C. M.* 12/7/07  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*John R. Pichard* 12/30/07  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Charmaine* 1/9/08  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Marlene M. Long* 1/10/08  
DIRECTOR DATE

*John R. Pichard* 12/24/07  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION

**OWNER/DEVELOPER**  
MEADOWLARK, LLC  
ATTN: MARK PRITCHETT  
P O BOX 434  
HANOVER, MARYLAND 21076  
410-796-6505

**PROJECT**  
**TIMBER RIDGE**  
DUPLEX UNITS LOTS 683-688, 707-714,  
719, 720 AND OPEN SPACE LOTS 704-A & 706-A  
AREA TAX MAP #38 PARCEL 873 ZONED R-12  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**TITLE**  
**DETAILS**

**Patton Harris Rust & Associates, pc**  
Engineers, Surveyors, Planners, Landscape Architects.  
8818 Centre Park Drive  
Columbia, MD 21045  
T 410.997.8900  
F 410.997.9282

SEAL 12/1/07  
DESIGNED BY : ACR  
DRAWN BY: ACR  
PROJECT NO: 11563-1-0-ENG-PLANS  
FINAL/SDP/C900DET  
DATE : DECEMBER 11, 2007  
SCALE : AS SHOWN  
DRAWING NO. 5 OF 5

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 27200, EXPIRATION DATE: MARCH 28, 2008.