

**GENERAL NOTES**

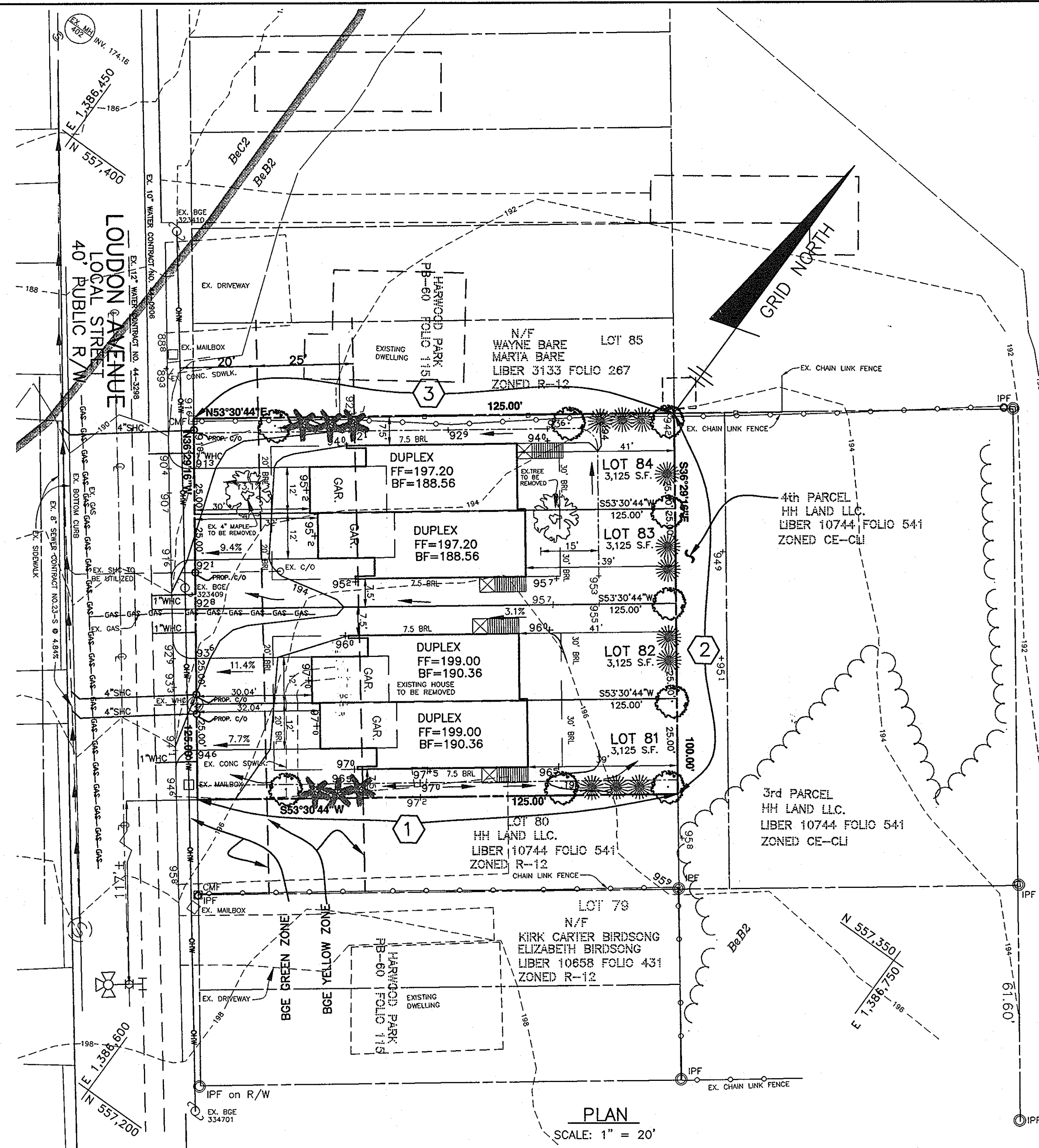
- THE SUBJECT PROPERTY IS ZONED R-12 PER THE 2-2-2004 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING AMENDMENTS EFFECTIVE 7-28-2006.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/ BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)13-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR 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.
- EXISTING TOPOGRAPHY SHOWN WITHIN PROJECT BOUNDARY WAS FIELD SURVEYED BY BENCHMARK ENGINEERING, INC. IN JULY, 2007, CONTOUR INTERVAL IS 2 FEET.
- HORIZONTAL AND VERTICAL DATUM ARE NAD '83 - MONUMENTS 3805 AND 3806.
- EXISTING UTILITIES SHOWN ARE SHOWN FROM APPROVED CONTRACT DRAWINGS AND FIELD RUN LOCATIONS. IF NECESSARY, CONTRACTOR SHALL ADJUST ANY OR ALL STRUCTURE TOP ELEVATIONS TO MATCH SDP GRADES.
- THERE ARE NO STREAMS, STREAM BUFFERS, WETLANDS, WETLANDS BUFFERS, 100-YR FLOODPLAIN OR STEEP SLOPES LOCATED ON THIS SITE.
- 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.
- THERE ARE NO BURIAL GROUNDS, CEMETARY SITES OR HISTORICAL STRUCTURES ON THIS PROPERTY.
- PREVIOUS HOWARD COUNTY FILE NUMBERS: N/A
- THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE.
- BRL INDICATES BUILDING RESTRICTION LINE.
- FOR DRIVEWAY ENTRANCE DETAIL REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.05.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE);
  - SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.);
  - GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADII;
  - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (425 LOADINGS);
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
  - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- THIS PLAN CONFORMS WITH THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER SHALL APPLY FOR BUILDING PERMITS FOR ALL LOTS AS SHOWN ON THIS SITE DEVELOPMENT PLAN WITHIN ONE YEAR OF SIGNATURE APPROVAL OF THIS PLAN.
- THIS SUBDIVISION IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1202(b)(1)(i) OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE THE LOTS ARE LESS THAN 40,000 S.F. IN SIZE.
- LESS THAN 5,000 S.F. OF DISTURBANCE WILL OCCUR FOR THESE LOTS; THEREFORE, STORMWATER MANAGEMENT IS NOT REQUIRED. IF THE LIMIT OF DISTURBANCE FOR THIS DEVELOPMENT CHANGES AND EXCEEDS 5,000 S.F., THE DEVELOPMENT ENGINEERING DIVISION SHALL BE NOTIFIED AS STORMWATER MANAGEMENT REQUIREMENTS WILL NEED TO BE ADDRESSED.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- FINANCIAL SURETY IN THE AMOUNTS OF \$5,250.00 TO BE PAID AS PART OF THE BUILDING GRADING PERMIT. \$2,700.00 FOR 9 SHADE TREES AND \$2,550.00 FOR 17 EVERGREEN TREES.
- IN ACCORDANCE WITH SECTION 133 OF THE ZONING REGULATIONS, TWO OFF STREET PARKING SPACES SHALL BE PROVIDED FOR EACH RESIDENTIAL DWELLING. GARAGE AREAS MAY NOT BE CONVERTED TO LIVING/STORAGE SPACE.
- ALL WATER METERS WILL BE INSIDE METER SETTINGS.
- LESS THAN 10,000 SF OF DISTURBANCE (5,000 FOR LOTS 81-82 & 83-84, RESPECTIVELY) WILL OCCUR FOR THIS PROJECT; THEREFORE, STORMWATER MANAGEMENT IS NOT REQUIRED. IF THE LIMIT OF DISTURBANCE FOR THIS DEVELOPMENT CHANGES AND EXCEEDS 10,000 SF (5,000 S.F. EACH BUILDING/LOTS), THE DEVELOPMENT ENGINEERING DIVISION SHALL BE NOTIFIED AS STORMWATER MANAGEMENT REQUIREMENTS MAY NEED TO BE ADDRESSED.
- MARYLAND AVIATION ADMINISTRATION (MAA) HAS CONFIRMED THAT THIS PROJECT DOES NOT POSE A HAZARD TO THE AIR SPACE SURROUNDING BALTIMORE/WASHINGTON INTERNATIONAL THURGOOD MARSHAL (BWI) AIRPORT NOISE ZONE AND THEREFORE AIRPORT ZONING PERMIT #08-003 WAS APPROVED ON 1-22-2008.
- THERE ARE NO STREAMS, STREAM BUFFERS, WETLANDS, WETLANDS BUFFERS, 100-YR FLOODPLAIN OR STEEP SLOPES LOCATED ON THIS SITE.
- GARAGES CANNOT BE USED FOR STORAGE THAT INHIBITS THE USE OF THE GARAGE TO MEET THE MINIMUM REQUIRED PARKING OF 2 SPACES PER DWELLING UNIT.
- ASCO/MAA VEGETATIVE ESTABLISHMENT DETAILS AND SPECIFICATIONS FOR PROJECTS WITHIN 4 MILES OF THE BWI AIRPORT ARE LISTED ON SHEET 2 OF THIS PLAN SET.

SHC TABLE				
LOT NO.	INV. @ MAIN	INV. @ R/W	MIN. CELLAR ELEV.	
84	179.2	179.9	184.3	
83	180.9	181.6	186.0	
82	182.5	183.2	187.6	
81	182.7	183.4	187.8	

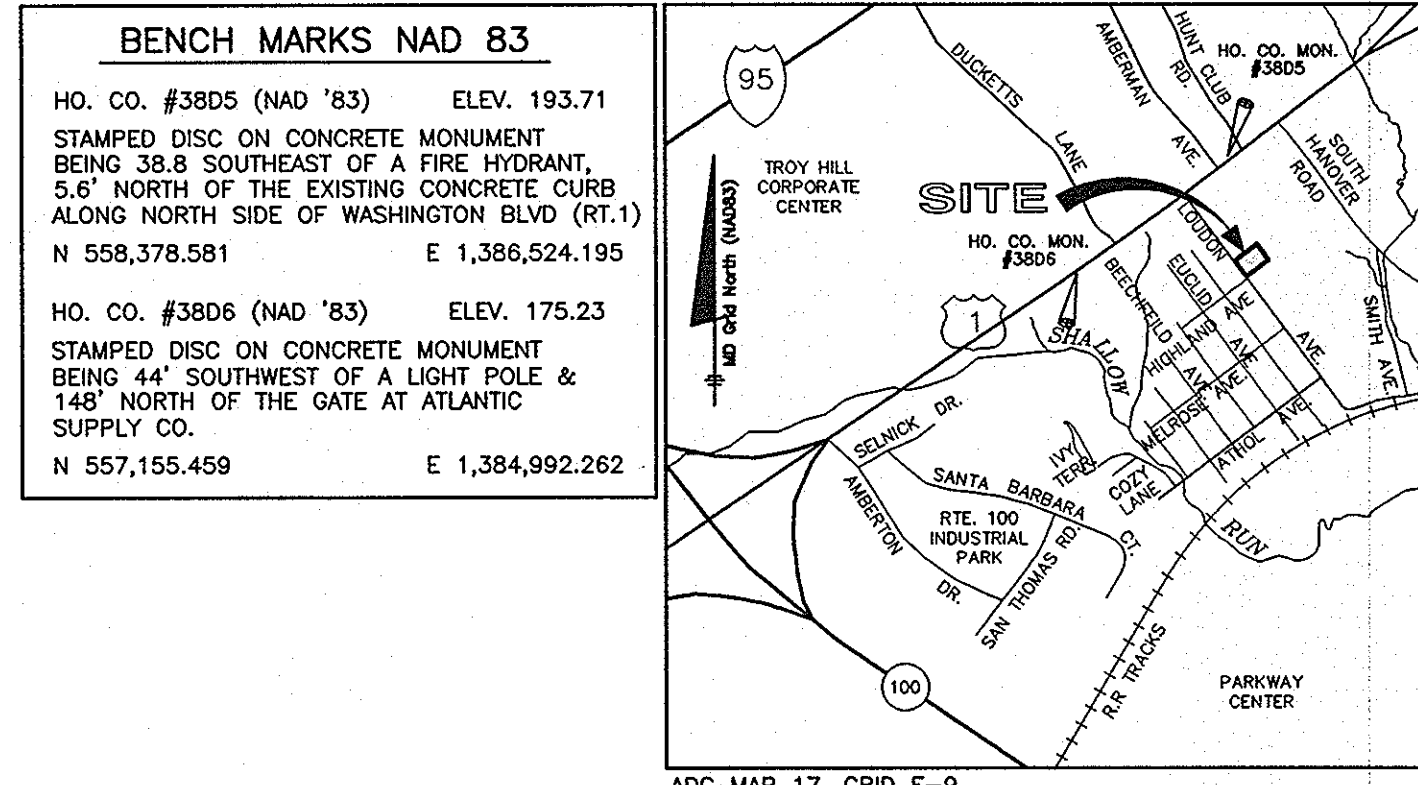
CONTRACTOR TO CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY/EASEMENT LINE PRIOR TO CONSTRUCTION OF HOUSE TO ENSURE PROPER SLOPES CAN BE MAINTAINED.

NOTE: UTILITY INVERT ELEVATIONS PROVIDED ON THIS PLAN SHALL BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION

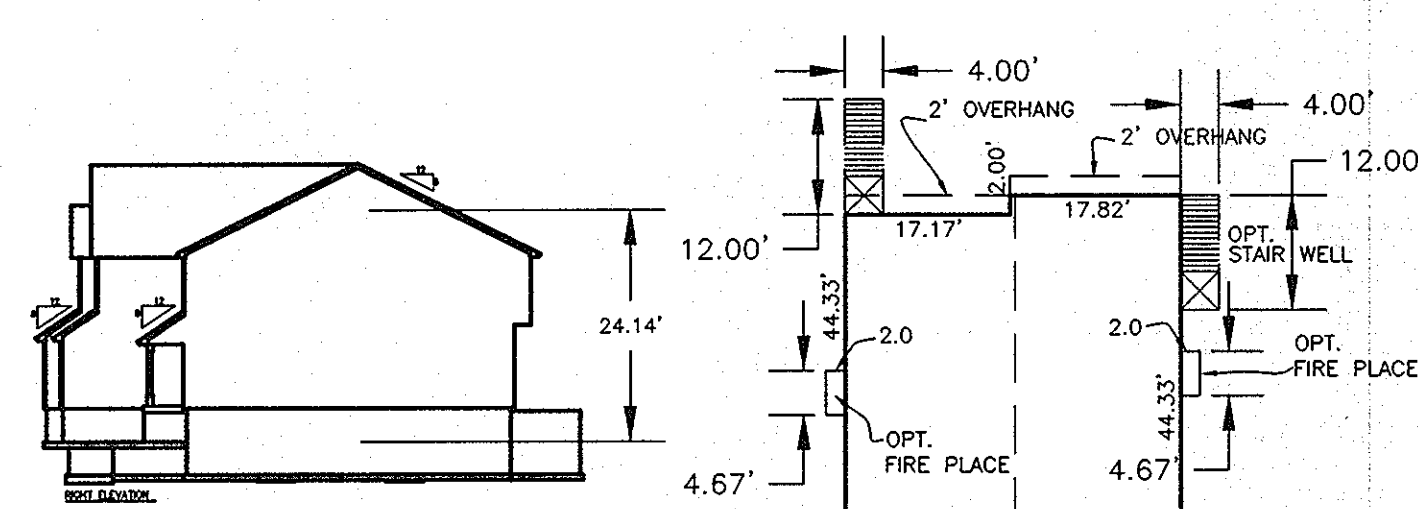
NO EX. W/C SHALL BE ABANDONED AND REMOVED BACK TO THE MAIN.



PLAN SCALE: 1" = 20'



VICINITY MAP SCALE: 1" = 2000'



THE DUPLEX SCALE: 1" = 20'

**LEGEND**

SOILS CLASSIFICATION	ScD
SOILS DELINEATION	---
EXISTING CONTOURS	---999---
PROPOSED CONTOURS	---999---
EXISTING WOODS LINE	~~~~~
PROPOSED WOODS LINE	~~~~~
EXISTING STRUCTURE	[Symbol]
PROPOSED STRUCTURE	[Symbol]
EXISTING FIRE HYDRANT	[Symbol]

**ADDRESS CHART**

LOT	STREET ADDRESS
81	6353-B LOUDON AVENUE
82	6353A LOUDON AVENUE
83	6351-B LOUDON AVENUE
84	6351-A LOUDON AVENUE

**SITE ANALYSIS DATA CHART**

A.) TOTAL PROJECT AREA.	0.29 AC.
B.) AREA OF THIS PLAN SUBMISSION.	0.29 AC.
C.) APPROXIMATE LIMIT OF DISTURBANCE.	0.23 AC.
D.) PRESENT ZONING.	R-12
E.) PROPOSED USE OF SITE.	RESIDENTIAL SINGLE FAMILY ATTACHED UNITS
F.) FLOOR SPACE PER LOT ON EACH LEVEL OF BUILDING(S) PER USE.	N/A
G.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S).	4
H.) TOTAL NUMBER OF UNITS PROPOSED.	4
J.) OPEN SPACE ON-SITE PERCENTAGE OF GROSS AREA.	0.00 AC.
K.) APPLICABLE DPZ FILE REFERENCES.	NA
L.) PROPOSED WATER AND SEWER SYSTEMS: <input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> PRIVATE	

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

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*William Boettner* 4/8/08 DATE  
WILLIAM DOUGLAS ASSOC., INC.

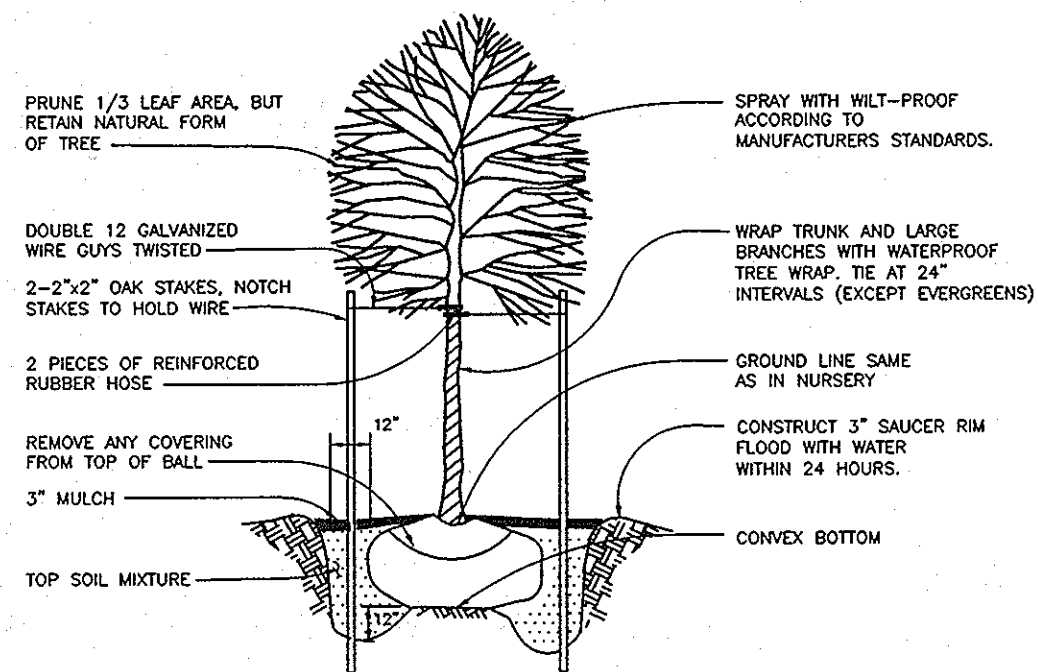
**APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**

*William Boettner* 4/8/08 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

*Cindy Hauer* 5/2/08 DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT

*Frank D. Leger* 5/1/08 DATE  
DIRECTOR

**TREE PLANTING DETAIL**



NOT TO SCALE

**LANDSCAPE NOTES**

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN WILL RESULT IN DENIAL OR DELAY IN RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
- THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- ALL LANDSCAPING PLANT TYPES SHOWN ON THESE PLANS ARE RECOMMENDATIONS AND MAY BE SUBSTITUTED WITH APPROVED EQUIVALENTS FROM THE HOWARD COUNTY LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED 9 SHADE TREES IN THE AMOUNT OF \$2,700 IS PART OF THE BUILDERS GRADING PERMIT APPLICATION.

**LANDSCAPE PLANTING LIST**

SYMBOL	QUANTITY	NAME	REMARKS	DESCRIPTION
☉	9	CARPINUS CAROLINIANA AMERICAN HORSEBALM	1-1/2"-3" CAL.	SHADE TREES ALONG SITE PERIMETER TO BE PROVIDED BY DEVELOPER
☀	11	CUPRESSOCYPARIS LEVYLAND "LEVYLAND CYPRESS"	5'-6" HT.	EVERGREEN TREES ALONG SITE PERIMETER TO BE PROVIDED BY DEVELOPER
★	6	SIX OPACA AMERICAN HOLLY MALE CULTIVARS	5'-8" HT.	EVERGREEN TREES ALONG SITE PERIMETER TO BE PROVIDED BY DEVELOPER

**SCHEDULE A PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJ. TO PERIMETER PROP.		
	(1)	(2)	(3)
LANDSCAPE TYPE	C	C	C
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	125'	100'	125'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO
NUMBER OF PLANTS REQUIRED	3	3	3
SHADE TREES	3	3	3
EVERGREEN TREES	6	6	6
OTHER TREES (2:1 SUBSTITUTE)	-	-	-
SHRUBS	-	-	-
NUMBER OF PLANTS PROVIDED	3	3	3
SHADE TREES	3	3	3
EVERGREEN TREES	6	6	6
OTHER TREES (2:1 SUBSTITUTE)	-	-	-
SHRUBS	-	-	-

**SHEET INDEX**

NO.	DESCRIPTION
1	SITE DEVELOPMENT AND GRADING PLAN
2	SEDIMENT AND EROSION CONTROL PLAN, NOTES AND DETAILS

**PERMIT INFORMATION CHART**

SUBDIVISION NAME: HARWOOD PARK		SECTION/AREA: -		LOTS: 81 - 84	
PLAT No. PB JHO 60 P. 115	GRID No. 13	ZONE R-12	TAX MAP 38	ELECTION DISTRICT 1st	CENSUS TRACT 6012.00
WATER CODE A02			SEWER CODE 2150510		

**BENCHMARK ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE, SUITE 418  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
www.bei-civilengineering.com

**PROFESSIONAL CERTIFICATION:**  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 12145, Expiration Date: 12-31-2008

*Donna M. McLean* 4/1/08  
PROFESSIONAL ENGINEER

**OWNER:** HH LAND, LLC  
1030 LIBERTY ROAD SUITE 100  
ELDERSBURG, MARYLAND 21784  
410-781-7533

**BUILDER:** WILLIAM DOUGLAS ASSOC., INC.  
1030 LIBERTY ROAD SUITE 100  
ELDERSBURG, MARYLAND 21784  
410-781-7533

**PROJECT:** HARWOOD PARK  
LOTS 81 - 84 (SINGLE FAMILY DUPLEX)

**LOCATION:** TAX MAP 38 - GRID 13  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**TITLE:** SITE DEVELOPMENT AND GRADING PLAN

**DATE:** SEPTEMBER, 2007  
APRIL 2008  
**PROJECT NO. 2054**

**SCALE:** AS SHOWN  
**DRAWING 1 OF 2**

Design: DAM Draft: EDD Check: DAM

### SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (312-1600)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERMITTED SEDIMENT CONTROL STRUCTURES, DIVERS, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, OR 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 THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DECISION MANUAL, STORM WATER MANAGEMENT (SEC. 22) PERMITS.
- 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 PERMITS (SEC. 22) 500 (SEC. 24), TEMPORARY AND PERMANENT (SEC. 22) 500 AND MAINTENANCE (SEC. 22) 500 STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING PRACTICES 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE (THIS SUBMISSION)	0.29 ACRES
AREA DISTURBED	0.23 ACRES
AREA TO BE ROOFED OR OPEN	0.12 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.11 ACRES
TOTAL CUT	600 CY
TOTAL FILL	600 CY
OFFSITE WASTE/BORROW AREA LOCATION	N/A
- 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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BEFORE PROCEEDING WITH ANY OTHER DISTURBANCE OR GRADING OPERATIONS. DISTURBANCE CONTROL 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 IS MAXIMUM BACK FILL AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

### PERMANENT SEEDBED PREPARATIONS

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 100 LBS PER ACRE (14 LBS/1000 SQ FT) OF POTASSIUM SULFATE (92 LBS/1000 SQ FT) BEFORE SEEDING. ARROW OR DISC INTO THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
- 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. ARROW OR DISC INTO THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.5 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE AND 60 LBS PER ACRE (1.5 LBS/1000 SQ FT) OF PERENNIAL RYEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL. OR OPTION (2) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL. OR OPTION (3) 1 TON PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL. OR OPTION (4) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 100 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH TO SOIL BY APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLON/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL. OR APPLY 2 TONS PER ACRE OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL. OR APPLY 2 TONS PER ACRE OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL.

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

### TEMPORARY SEEDBED PREPARATIONS

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

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

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14.95 LBS/1000 SQ FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 15, SEED WITH 3 LBS PER ACRE OF WIERING LOGGRASS (0.7 LBS/1000 SQ FT) FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL AS POSSIBLE IN THE SPRING, OR USE SOIL.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 100 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH TO SOIL BY APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLON/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL. OR APPLY 2 TONS PER ACRE OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL. OR APPLY 2 TONS PER ACRE OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL.

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

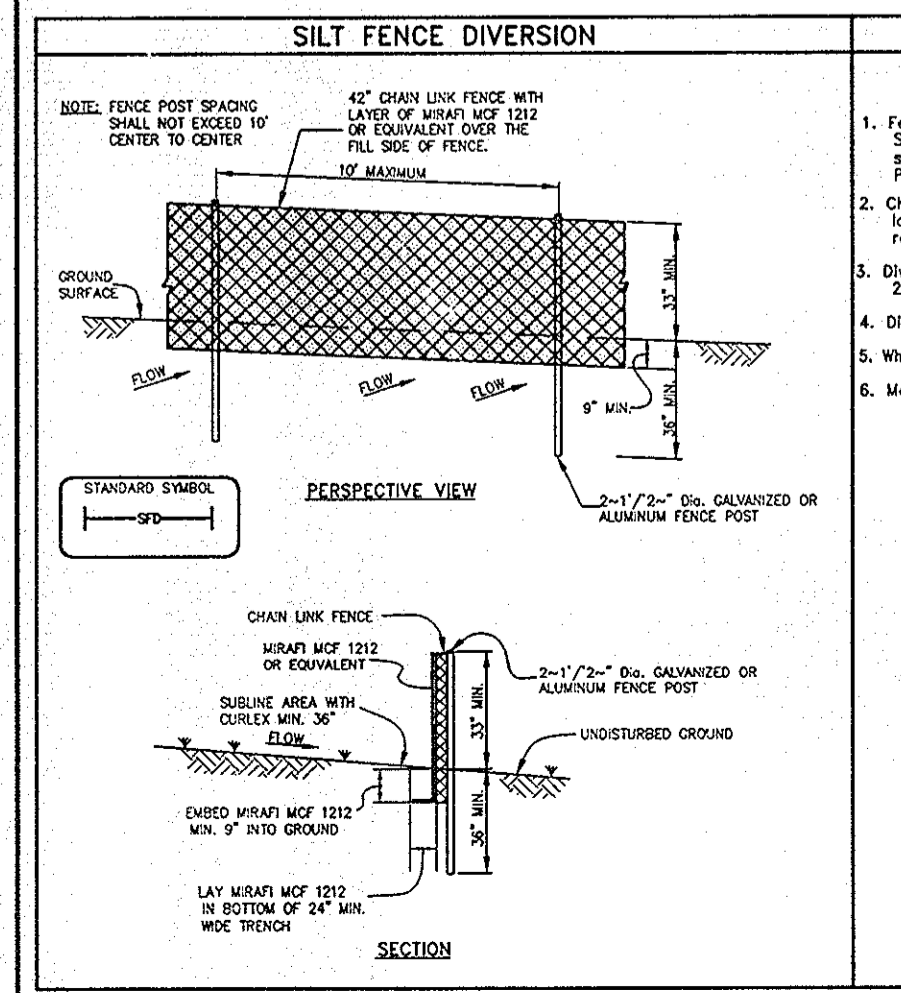
### SEQUENCE OF CONSTRUCTION

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION

- DAY 1 - OBTAIN GRADING PERMIT.
- DAY 2-6 - INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP.
- DAY 7-10 - EXCAVATE FOR FOUNDATION, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 11-80 - CONSTRUCT HOUSE, BACKFILL AND CONSTRUCT DRIVEWAY.
- DAY 81-85 - FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 86-89 - WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS.

NOTE: EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOIL SHOULD BE USED.

NOTE: THE UTILITY INVERT ELEVATIONS PROVIDED ON THIS PLAN SHALL BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION.



### TOPSOIL SPECIFICATIONS

Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by the U.S. Department of Agriculture, National Soil Survey Station.

Topsoil Specifications - Soil to be used as topsoil must meet the following:

- Topsoil shall be a loam, sandy loam, clay loam, silt loam, very clay loam, loam sand, or other soils as may be recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil shall be a mixture of contrasting texture sand and silt and contain less than 5% by volume of clods, stones, roots, coarse fragments, gravel, sticks, rocks, trash, or other materials larger than 1-1/2" in diameter.
- Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut grass, poison ivy, thistle, or others as specified.
- Where the topsoil is either highly acidic or composed of heavy clays, ground limestone shall be applied at a rate of 100 lbs/1000 sq ft (10 lbs/100 sq ft) (square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with topsoil 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 Substitution - Section 1 - Vegetative Substitution Methods and Materials.
- For sites having disturbed areas over 5 acres:
  - On soil meeting topsoil specifications, obtain test results detailing 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 soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until phytotoxicity tests are elapsed (14 days min.) to permit dissipation of phytotoxic materials.

Note: Topsoil substitutes or 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.

### PERMANENT SEEDBED PREPARATIONS

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

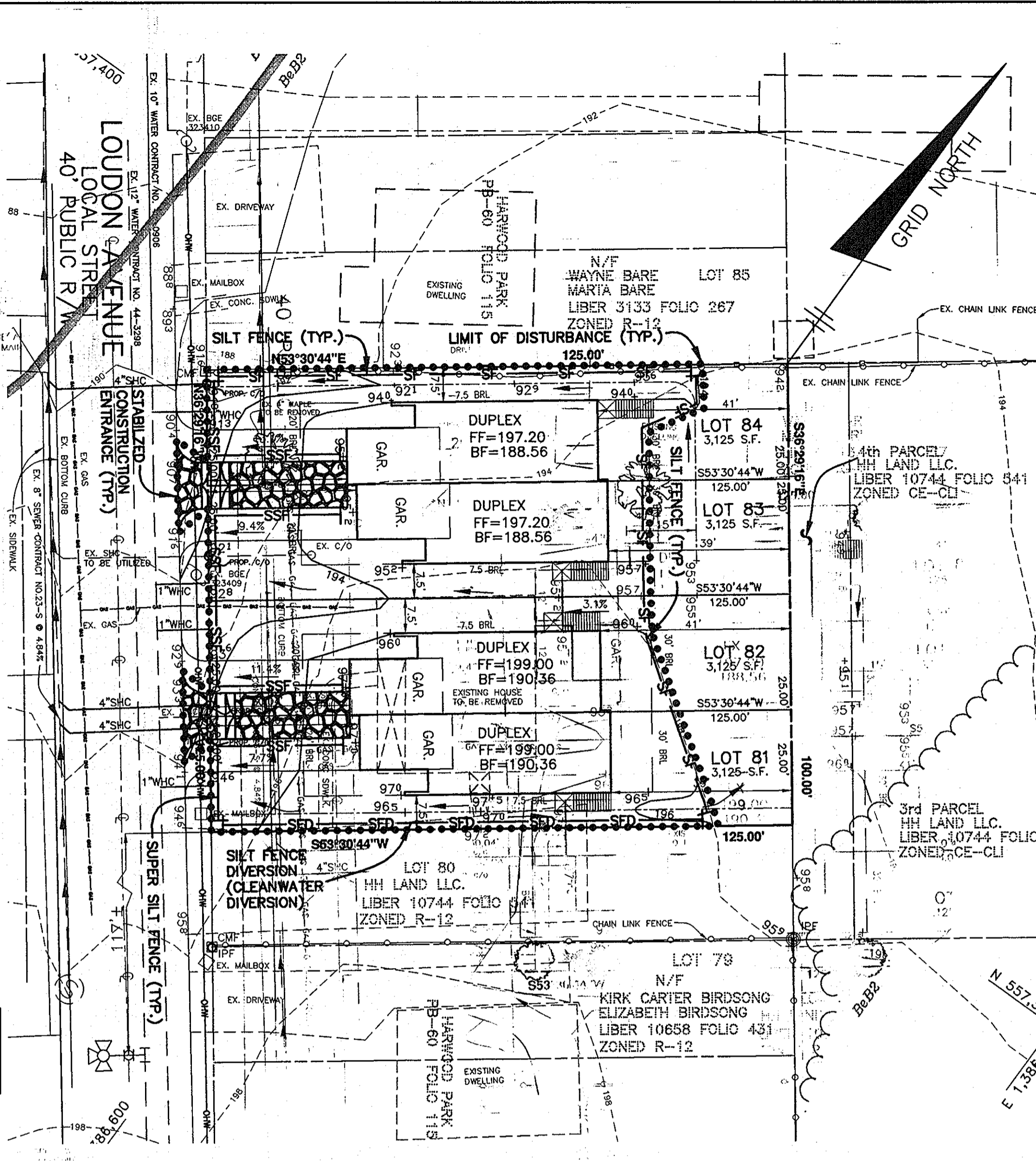
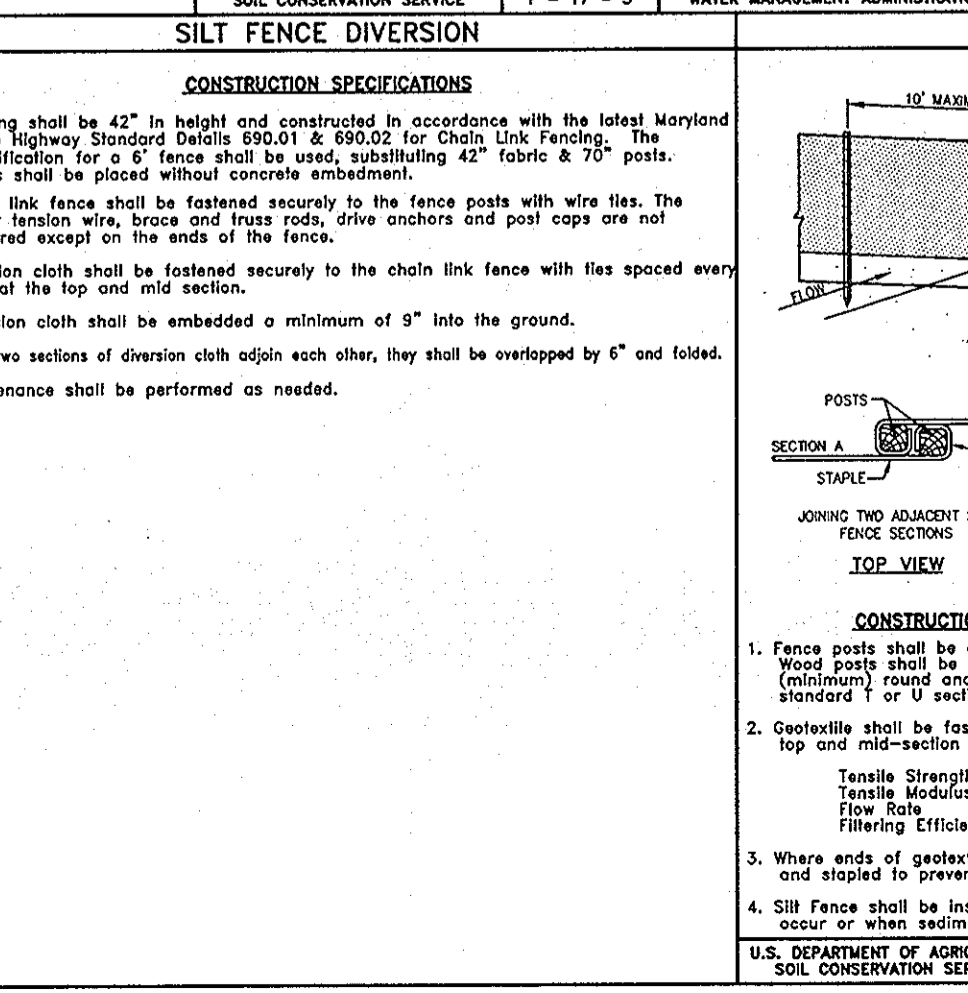
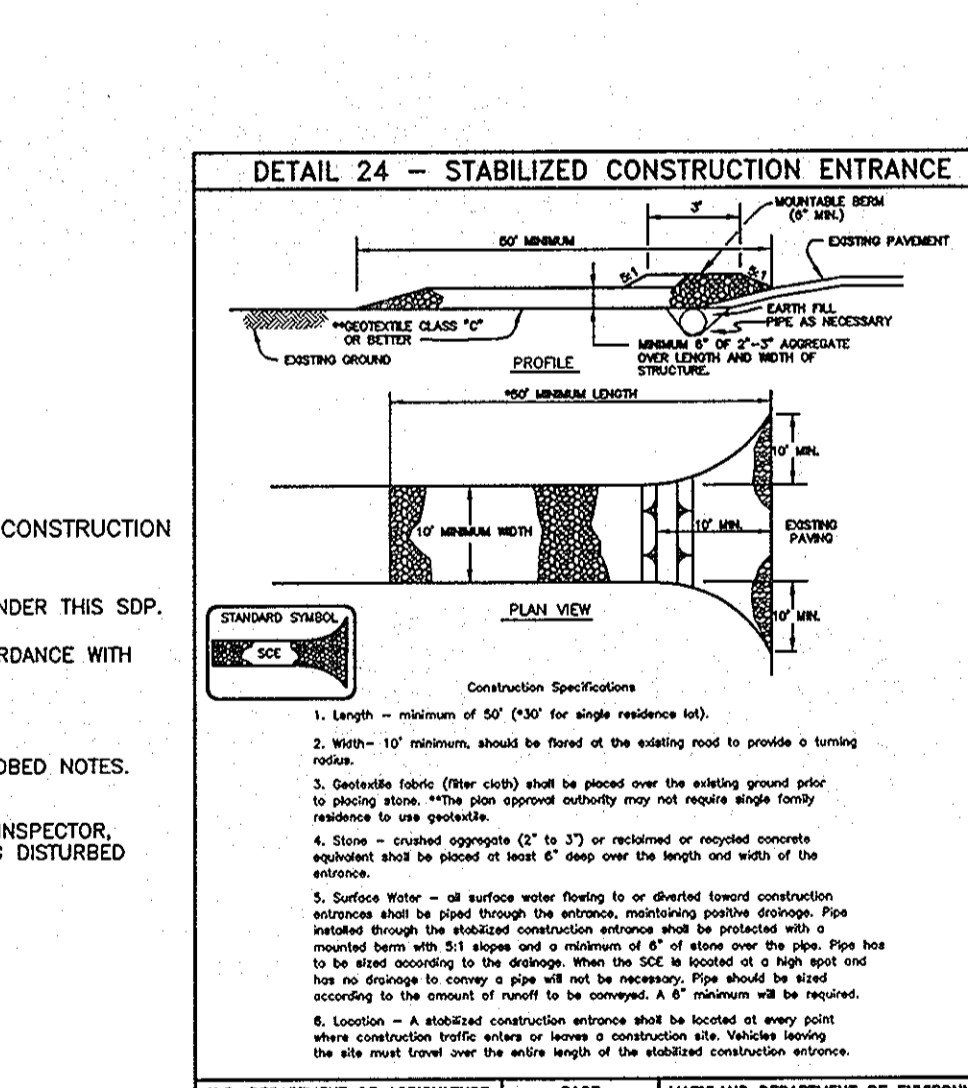
- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 100 LBS PER ACRE (14 LBS/1000 SQ FT) OF POTASSIUM SULFATE (92 LBS/1000 SQ FT) BEFORE SEEDING. ARROW OR DISC INTO THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
- 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. ARROW OR DISC INTO THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.5 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE AND 60 LBS PER ACRE (1.5 LBS/1000 SQ FT) OF PERENNIAL RYEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL. OR OPTION (2) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL. OR OPTION (3) 1 TON PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL. OR OPTION (4) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS USUAL.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 100 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH TO SOIL BY APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLON/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL. OR APPLY 2 TONS PER ACRE OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL. OR APPLY 2 TONS PER ACRE OF UNROTTED SMALL GRASS STRAW MULCH AND SEED AS USUAL.

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

NOTE: CONTRACTORS SHALL TAKE EXTREME CARE WHEN WORKING WITHIN THE AREA OF THE OVERHEAD POWER LINES AND WILL BRACE EXISTING UTILITY POLES AS NEEDED



### CONSTRUCTION SPECIFICATIONS

SCALE: 1" = 20'

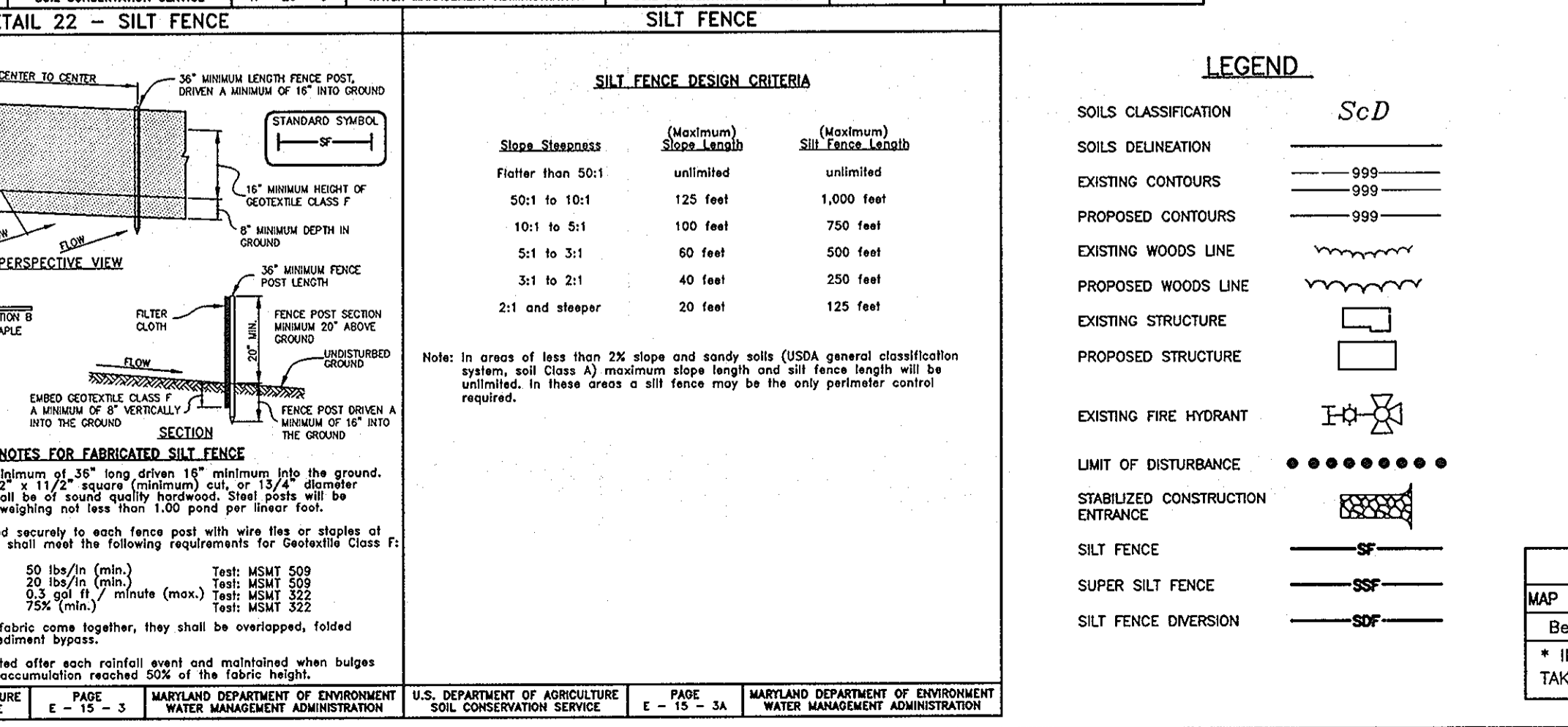
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Bureau for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and trap 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 all bulges repaired within 24 hours of their occurrence.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lb/in (min.)	Test MSMT 509
Tensile Modulus	20 lb/in (min.)	Test MSMT 509
Flow Rate	0.5 gal/ft <sup>2</sup> /min (max.)	Test MSMT 522
Filtering Efficiency	75% (min.)	Test MSMT 522

### SUPER SILT FENCE DESIGN CRITERIA

Slope	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 101'	Unlimited
10 - 20%	101 - 51'	200 feet
20 - 33%	51 - 31'	100 feet
33 - 50%	31 - 21'	50 feet
50% +	21 +	25 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be limited, in these areas a 6" fence may be the only perimeter control required.



### MAA / MAA VEGETATIVE ESTABLISHMENT RECOMMENDATIONS FOR PROJECTS WITHIN A ZONE OF THE B.M. AIRPORT

July 1, 2007

References to ITEM # noted below are found in Maryland Administrative Code, Department of the Environment, Division of Air and Waste Management, Manual entitled Specifications for Performing Landscaping Activities for the Maryland Department of the Environment, May 2001. SOIL TESTS:

- Following initial soil disturbances or re-disturbance, permanent or temporary stabilization shall be completed within seven calendar days for the surface of all perimeter control structures, divers, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and fourteen slope for other disturbed or graded areas on the project site.
- Occurrence of soil sulfates soils (grayish block color) will require coverage with a minimum of 1/2 inch of topsoil or 6 inches minimum covering of top soil. No stacking of material is allowed. If needed, soil shall contain a minimum of 1% organic matter by weight. The minimum soil conditions required for permanent vegetative establishment are:
  - Soil pH shall be between 6.0 and 7.0.
  - Soil salinity shall be less than 500 parts per million (ppm).
  - The soil shall contain less than 40% clay by weight.
  - The soil shall contain less than 40% by weight of gravel (No. 20 sieve plus clay) to provide the structure, divers, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and fourteen slope for other disturbed or graded areas on the project site.
- Soil shall contain a minimum of 1% organic matter by weight. The minimum soil conditions required for permanent vegetative establishment are:
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### MAA SEED MIXTURES

Certified Turf-Type Turf Seed (lb/1000 sq ft)	Rate (lb/1000 sq ft)	Rate (lb/1000 sq ft)
Bluegrass (Festuca arvensis)	98	90
Bermuda grass (Cynodon dactylon)	98	90
Perennial Ryegrass (Lolium perenne)	98	90
Annual Ryegrass (Lolium multiflorum)	98	90
St. Augustine grass (Stenotaphyon secundatum)	98	90
Centipede grass (Centropogon atherodes)	98	90
Flowering Dogwood (Lonicera japonica)	98	90
Japanese Yew (Taxus japonica)	98	90
Japanese Cedar (Juniperus horizontalis)	98	90
Japanese Maple (Acer japonicum)	98	90
Japanese Palm (Coccotheca palmetto)	98	90
Japanese Holly (Ilex pedunculata)	98	90
Japanese Spindle (Euonymus japonicus)	98	90
Japanese Quince (Euscaphis japonica)	98	90
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