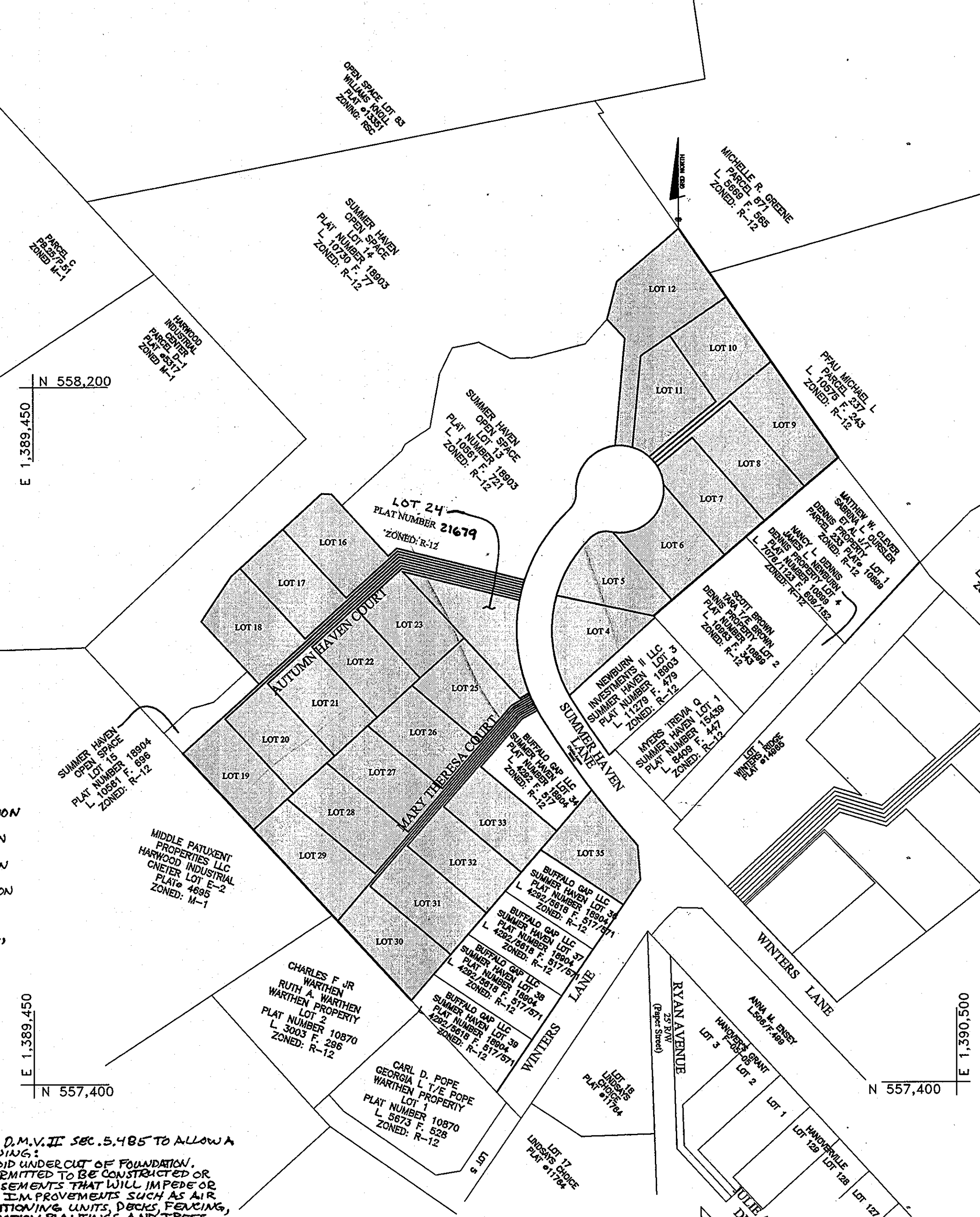


GENERAL NOTES

- 1. SUBJECT PROPERTY ZONED R-12 PER THE 2-2-04 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENTS DATED JULY 28, 2006.
2. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY PREPARED BY WINGS AERIAL MAPPING CO., INC. IN 1993, AND THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MINIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY FSH ASSOCIATES DATED OCTOBER, 2005.
3. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 3805 AND 3806 WERE USED FOR THIS PROJECT.
4. WATER AND SEWER ARE PUBLIC AND EXISTING UTILITIES ARE BASED ON CONTRACT 14-4285-D.

41. WAIVER PETITION NP-11-140 WAS APPROVED BY A LETTER DATED MARCH 23, 2011 TO WAIVER ARTICLE II, SECTION 10.121 (a)(4) (i) REQUIRING OPEN SPACE LOTS TO BE REGULAR IN SHAPE. ARTICLE III, SECTION 10.121 (b)(2)(i) REQUIRING RECREATIONAL OPEN SPACE NOT INCLUDE SWM CREDITS. ARTICLE II, SECTION 16.121 (a)(2)(C)(iv) REQUIRING 50% OF ROAD FRONTAGE AND ARTICLE II, SECTION 16.191 (a)(6)(vi) REQUIRING 200 SF OF RECREATIONAL OPEN SPACE PER LOT SUBJECT FOR THE FOLLOWING CONDITIONS:
1) SUBMIT A PLAN OF REVISION (F-11-018 & 21679) TO CONVERT OPEN SPACE LOT 24 INTO A BUILDABLE LOT AND THAT THIS WILL REQUIRE THE ONE HOUSING ALLOCATION ABOVE THIS SPANDED UNDER F-06-008 TO TAKE APPEAL TESTING.
2) ONCE THIS REVISION PLAN IS RECORDED, A FEDERAL PETITION TO THE APPROVED ROAD CONSTRUCTION PLANS FOR F-06-008 AND APPROVED SITE DEVELOPMENT PLANS FOR 10-047 MAY BE PROCESSED TO REFLECT THE CONVERSION OF OPEN SPACE LOT 24 TO A BUILDABLE LOT AND SHOW THE RECREATIONAL PATHWAY AND AMENITIES. A NOTE SHALL BE ADDED TO ALL DEVELOPMENT PLANS REGARDING THE WAIVER PETITION FILE NUMBER, ACTION TAKEN AND DATE.
3) THE DEVELOPER SHALL PROVIDE ALL THE RECREATIONAL AMENITIES (GASSES, PICNIC TABLES, BENCH AND 5" MULCHED PATHWAY AS SHOWN ON H.O.A. OPEN SPACE LOT 13 AND COUNTY OWNED OPEN SPACE LOT 14. THE 5" MULCHED PATHWAY SHALL BE CONSTRUCTED OF MATERIALS THAT ARE DESIRABLE AND RESISTANT TO STORM DRAINAGE RUN-OFF. THE 5" MULCHED PATHWAY LOCATED ACROSS OPEN SPACE LOTS 13 AND 14 SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION FOR THE SUMMER HAVEN SUBDIVISION. A NOTE SHALL BE ADDED TO THE PLAN OF REVISION AND ALL OTHER ASSOCIATED DEVELOPMENT PLANS THAT HOWARD COUNTY WILL NOT BE RESPONSIBLE FOR THE upkeep AND MAINTENANCE OF THE 5" MULCHED RECREATIONAL OPEN SPACE PATHWAY AND THE OTHER RECREATIONAL AMENITIES AS APPROVED UNDER WAIVER PETITION WP-11-140.

SITE DEVELOPMENT PLAN
SUMMER HAVEN
LOTS 4-12, 16-33 AND 35
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



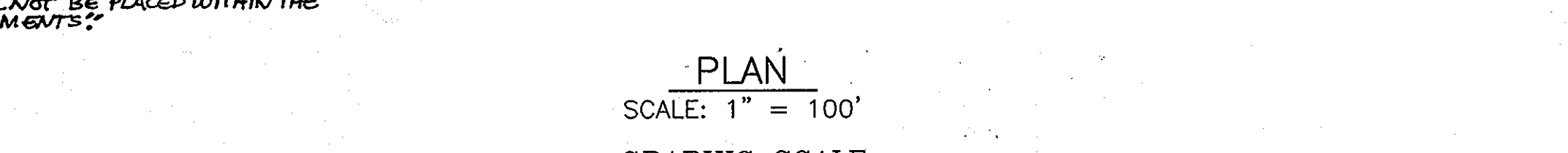
- 11. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WAS POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT UNDER F-06-008. EXCEPTION OF LOT 34 LANDSCAPING WAS PROVIDED IN THE AMOUNT OF \$1,050.00 FOR 2 SHADE TREES AND 3 EVERGREEN TREES, PER SDP-08-027.
STREET SIDE LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THIS SITE PLAN FOR LOT 35 SURETY IN THE AMOUNT OF \$1,050 FOR 2 SHADE TREES AND 3 EVERGREENS SHALL BE PROVIDED WITH THE GRADING PERMIT.
13. THIS PROJECT COMPLIED WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY PAYMENT OF A FEE-IN-LIEU OF \$2,844.30 FOR THE FOREST CONSERVATION OBLIGATION AMOUNT OF 2.43 AC. ACRES. THIS FEE WAS PAID WITH F-06-008. REQUESTED FEE-IN-LIEU FOR 0.12 AC REMAINING OBLIGATION IS \$2,613.50.
14. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
15. BRL INDICATES ZONING BUILDING RESTRICTION LINE. OTHER RESTRICTIONS MAY APPLY.
16. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS; BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 18 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACK PORCHES OR DECKS. OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
17. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE.
18. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.
19. THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES ON-SITE.
20. FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND ROAD RIGHT OF WAY LINE ONLY AND NOT ONTO THE FLAG OF PIPE STEM LOT DRIVEWAY.
21. 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:
a) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE)
b) SURFACE - 5" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.)
c) GEOMETRY - MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS.
d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (#25 LOADING).
e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
f) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
22. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
23. ALL WATER METERS SHALL BE SET INSIDE.
24. 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.
25. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
26. FOR DRIVEWAY ENTRANCE DETAIL SEE HOWARD COUNTY STANDARD DETAILS R-6.03 & R-6.05.
27. SHC ELEVATIONS SHOWN ARE AT THE PROPERTY LINE OR EASEMENT LINE.
28. THE PRIVATE USE-IN-COMMON MAINTENANCE AGREEMENTS FOR LOTS 7-11 (L 10561, F. 6211, 16-33, F. 6883 AND 25-33 (L 10561, F. 681) HAVE BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.
29. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS REQUIRED.
30. DRIVEWAY SLOPES SHOWN ARE AVERAGE. THE SLOPE AT THE OUTSIDE EDGES COULD BE FLATTER OR STEEPER DEPENDING ON GRADE OF ROADWAY.
31. THIS PLAN CONFORMS WITH THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE BUILDER SHALL APPLY FOR BUILDING PERMITS FOR ALL LOTS AS SHOWN ON THIS SITE DEVELOPMENT PLAN WITHIN FIVE YEARS OF SIGNATURE APPROVAL OF THIS PLAN.
32. ADDITIONAL OPEN SPACE WAS PROVIDED WITH THE PROVISION OF REDUCED MINIMUM LOT SIZE AS APPROVED ON F-06-008.
33. PREVIOUS HOWARD COUNTY FILE NUMBERS: S-03-014, F-06-008, SDP-08-027, F-02-163, F-03-233, P-05-02, WP-08-02, F-11-148, WP-11-140.
34. ALL EXISTING WELLS AND SEPTIC SYSTEMS HAVE BEEN ABANDONED UNDER F-06-008.
35. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
36. AN EXISTING 5'X20' CONCRETE REFUSE AND RECYCLING COLLECTION PAD IS TO BE UTILIZED BY RESIDENTS LIVING ON MARY THERESA COURT AND AUTUMN HAVEN COURT. MAINTENANCE OBLIGATIONS ARE SET IN THE PRIVATE ACCESS PLACE MAINTENANCE AGREEMENT RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY.
37. A PRIVATE RANGE OF ADDRESS SHALL BE FABRICATED AND INSTALLED AT EVERY FLAG LOT DRIVEWAY BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES.

SITE ANALYSIS DATA CHART

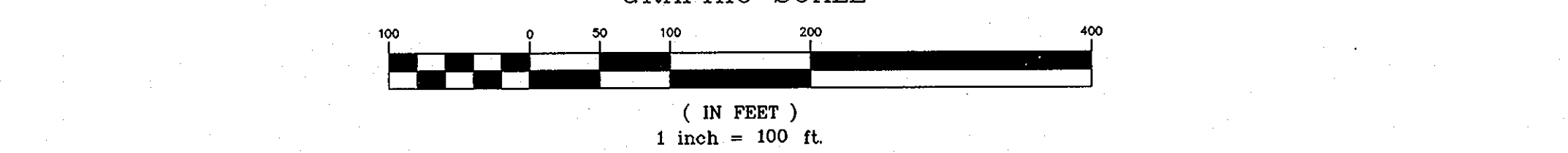
Table with 2 columns: Item, Value. Includes total project area (5.19 ac), area of this plan submission (5.19 ac), approximate limit of disturbance (5.19 ac), present zoning (R-12), proposed use of site (RESIDENTIAL SINGLE FAMILY DETACHED UNITS), floor space per lot (N/A), total number of units allowed (2-B), total number of units proposed (2-B), maximum number of employees per use (N/A), number of parking spaces required by HO. CO. ZONING REGULATIONS (N/A), number of parking spaces provided (N/A), open space on-site (5.74 ac), area of recreational open space required (6,600 SF), area of recreational open space provided (CWP-11-140), building coverage of site (N/A), percentage of gross area (N/A), applicable DPZ file references (SDP-08-027, F-06-008, F-02-163, F-93-83, S-03-14, P-05-02, WP-08-02, CONTRACTS 14-4285-D, F-11-048 (PLAN# 21679)), proposed water and sewer systems (X PUBLIC, PRIVATE WP-11-140).

SEWER HOUSE CONNECTION ELEVATION DATA

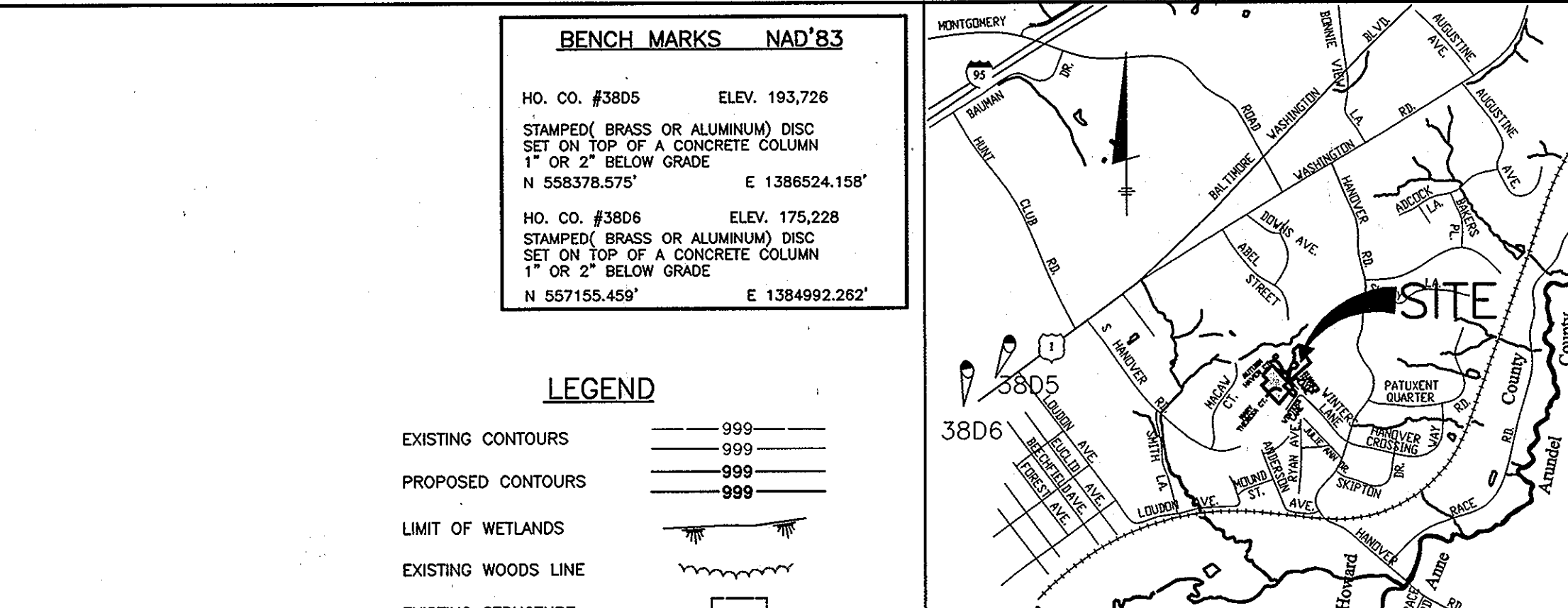
Table with 6 columns: Lot No., Min. Cellar, Shc. Inv., Lot No., Min. Cellar, Shc. Inv. Lists elevations for lots 4 through 24.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Includes signatures of Kent Shuler, Chief, Division of Land Development, dated 3/15/10, and Thomas E. Swick, Director, dated 3/15/10.



PERMIT INFORMATION CHART. Includes subdivision name (SUMMER HAVEN), section/area (SECTIONS I AND II), lot/parcel # (LOTS 4-12, 16-33 & 35), plat no. (21679), grid no. (14), zone (R-12), tax map (38), election district (1st), census tract (601201).



LEGEND. Lists symbols for existing contours, proposed contours, limit of wetlands, existing woods line, existing structure, proposed structure, forest conservation easement, public sewer, water and utility easement, private stormdrain and utility easement, public tree maintenance and utility easement, public sidewalk easement, rip-rap, erosion control matting, recreational open space, stabilized construction entrance, super silt fence, silt fence, existing landscape trees per F-06-008, proposed landscaping.

MINIMUM LOT SIZE CHART. Table with columns: Lot, Gross Area (sq ft), Proposed Area (sq ft), Minimum Lot Size (sq ft). Lists lots 8 through 33.

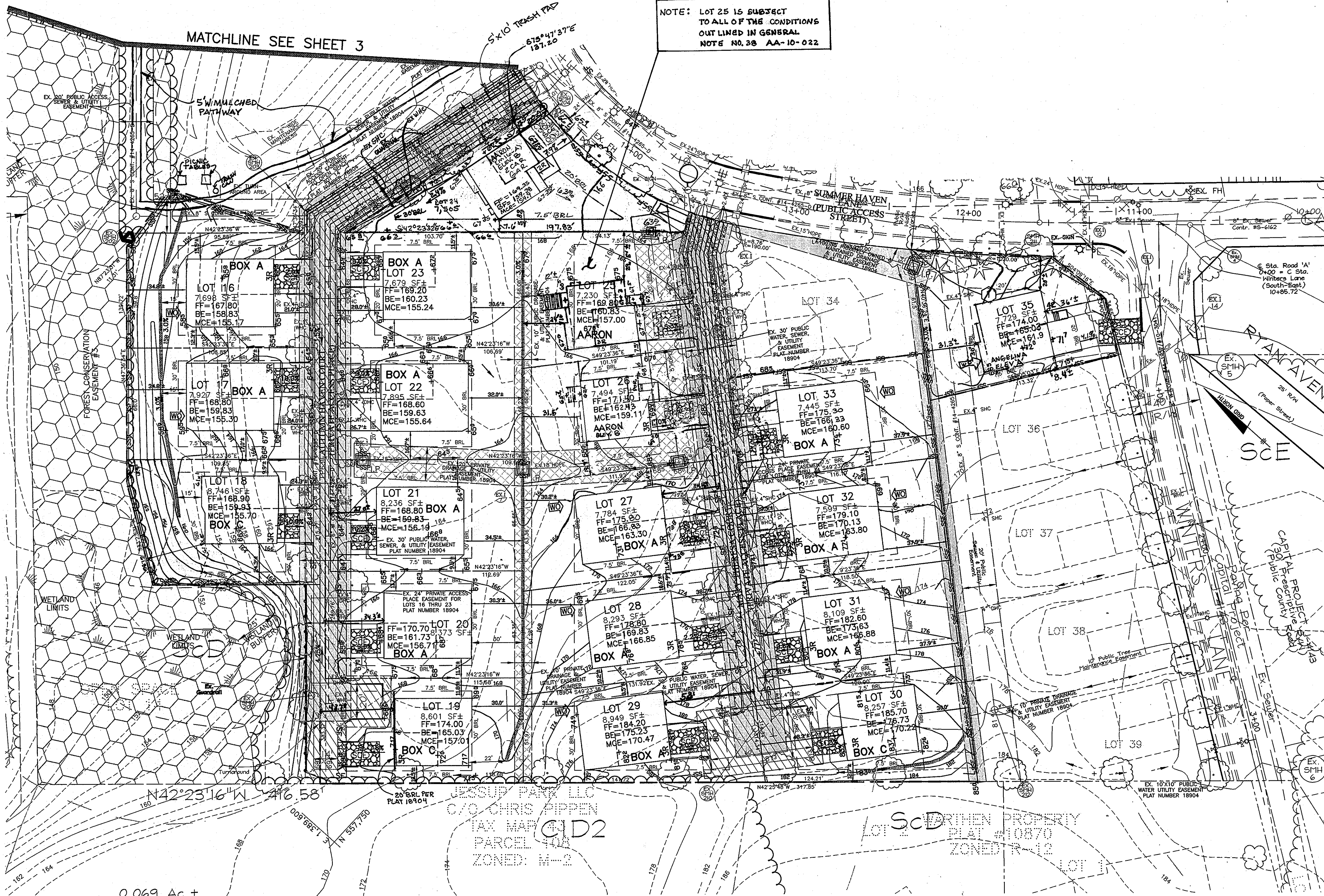
ADDRESS CHART. Table with columns: Lot, Street Address. Lists addresses from 6219 Summer Haven Lane to 6238 Winters Lane.

Revision table with columns: NO., DATE, REVISION. Shows revisions 1 and 2.

BENCHMARK ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418, ELICOTT CITY, MARYLAND 21043. Includes contact info and project details for Summer Haven Phases I & II.

NOTE: LOT 25 IS SUBJECT TO ALL OF THE CONDITIONS OUTLINED IN GENERAL NOTE NO. 38 AA-10-022

MATCHLINE SEE SHEET 3



LEGEND

- EXISTING CONTOURS 999
- PROPOSED CONTOURS 999
- LIMIT OF WETLANDS
- EXISTING WOODS LINE
- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- FOREST CONSERVATION EASEMENT
- PUBLIC SEWER, WATER AND UTILITY EASEMENT
- PRIVATE STORMDRAIN AND UTILITY EASEMENT
- PUBLIC TREE MAINTENANCE AND UTILITY EASEMENT
- PUBLIC SIDEWALK EASEMENT
- RIP-RAP
- EROSION CONTROL MATTING
- RECREATIONAL OPEN SPACE
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- SILT FENCE
- EXISTING LANDSCAPE TREES PER F-06-006
- PROPOSED LANDSCAPING

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.
 ENGINEER: [Signature] DATE: 2/19/2010

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AS 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.
 DEVELOPER: James C. Newham DATE: 2-19/2010

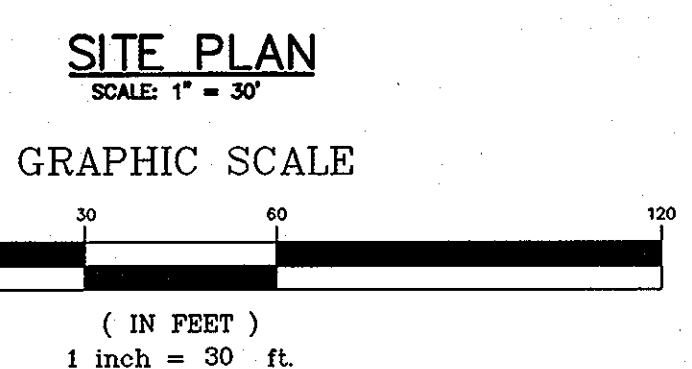
REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 HOWARD SCD: [Signature] DATE: 2/19/2010

NO.	DATE	REVISION
2	5-27-2011	REVISE GRADES IN REAR OF LOT 19 PER AS-BUILT CONDITIONS
1	7-13-10	REVISE LOT 26 TO SHOW A AARON HUNTER'S LIVING AREA FOUND GRADUALLY, REVISE FF/BP/ELV

BENCHMARK ENGINEERING, INC.
 ENGINEERS • LAND SURVEYORS • PLANNERS
 8480 BALTIMORE NATIONAL PIKE # SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6844
 E-MAIL: bel@benchmark-engineering.com

STATE OF MARYLAND PROFESSIONAL ENGINEER [Signature] DATE: 2/19/2010

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE: 3/15/10
 [Signature] DATE: 3/16/10
 [Signature] DATE: 3/15/10



SYMBOL	HYDRIC	HYDROLOGIC GROUP	NAME
Bx3	YES	C	BELTSVILLE SILT LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
CID2		B	CHILLUM GRAVELLY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED
Cm2		B	CHILLUM SILT LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
ScB		C	SANDY AND CLAYEY LAND, GENTLY SLOPING
ScD		C	SANDY AND CLAYEY LAND, MODERATELY ERODED
ScE		C	SANDY AND CLAYEY LAND, MODERATELY STEEP
ScF		B	SASSAFRAS GRAVELLY SAND LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
ScE		B	SASSAFRAS SOILS, 15 TO 40 PERCENT SLOPES

OWNER (LOTS 16-33 AND 35)
 BUFFALO GAP, LLC
 5570 STERRETT PLACE, SUITE 201
 COLUMBIA, MARYLAND 21044
 410-997-3815

OWNER (LOTS 4-12):
 NEWBUREN INVESTMENTS II, LLC
 5570 STERRETT PLACE, SUITE 201
 COLUMBIA, MARYLAND 21044
 410-997-3815

BUILDER: RICHMOND AMERICAN HOMES OF MARYLAND, INC.
 6200 OLD DOBBIN LANE, SUITE 190
 COLUMBIA, MARYLAND 21045
 410-312-2800

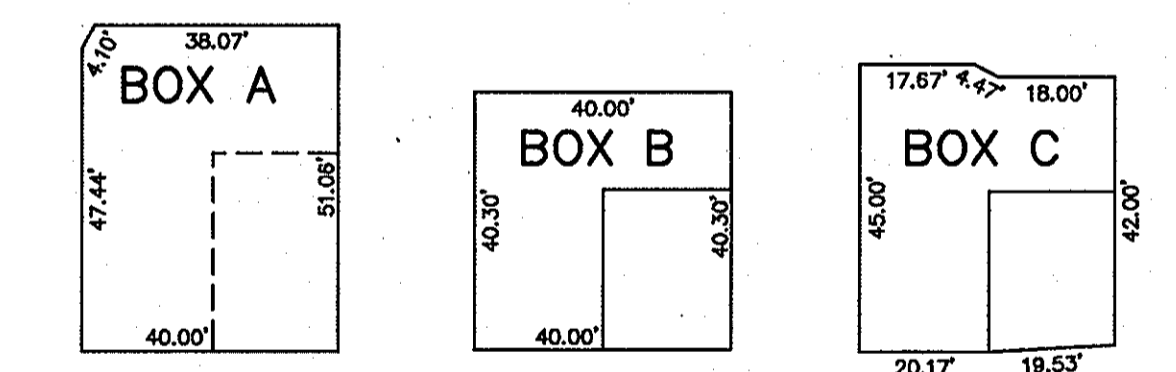
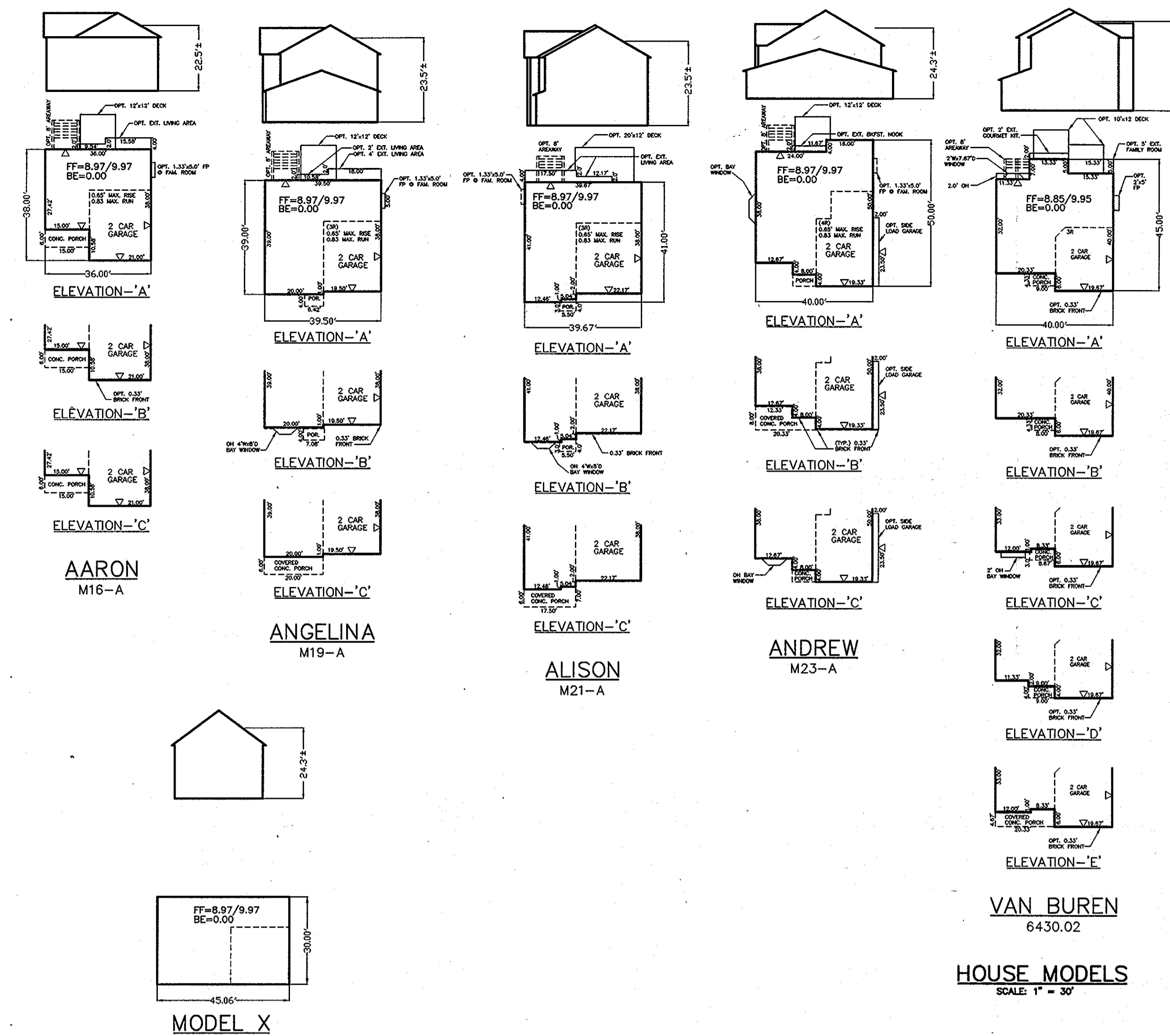
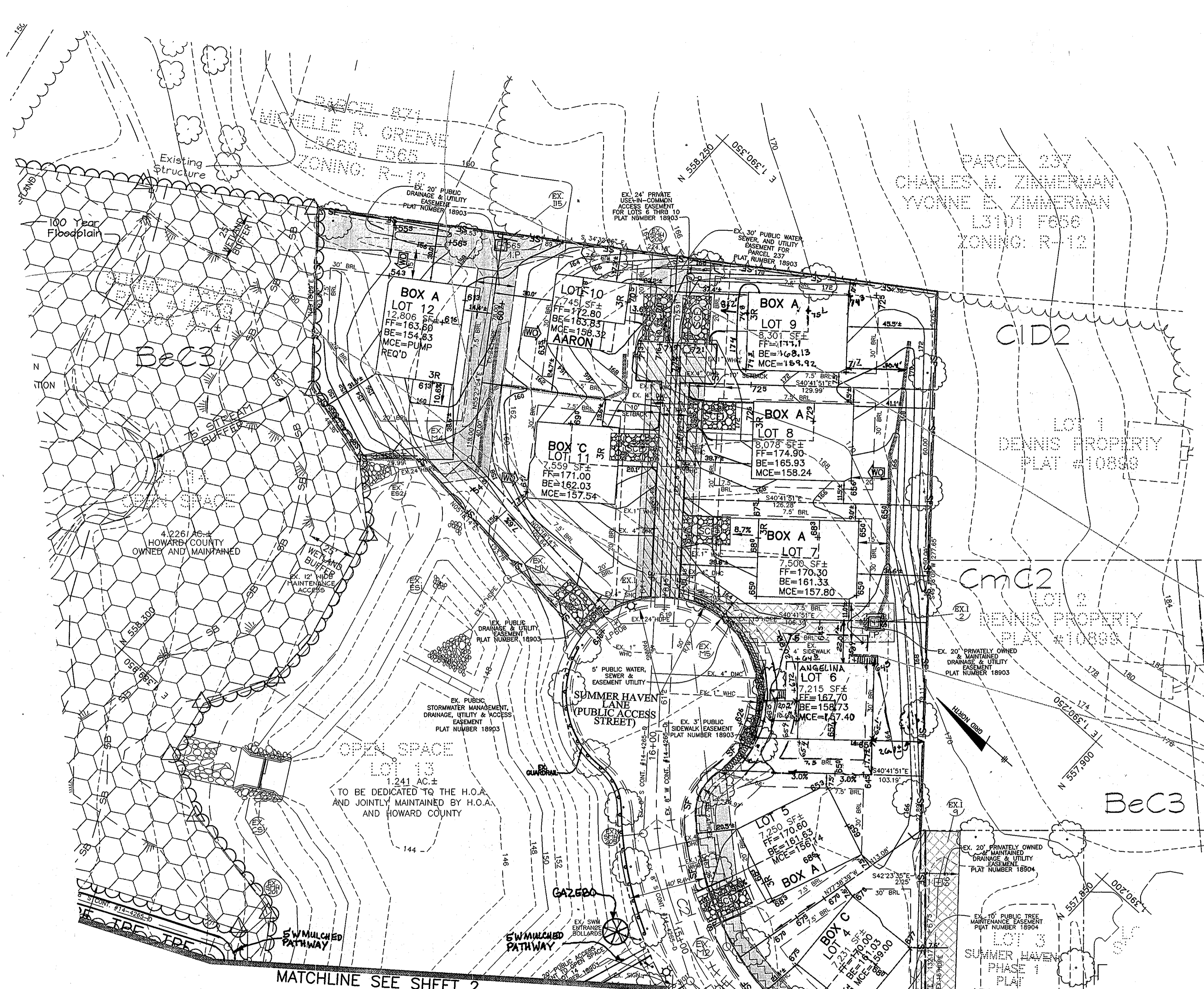
PROJECT: SUMMER HAVEN
 LOTS 4-12, 16-33 AND 35
 SINGLE FAMILY DETACHED
 PLAT 18902 - 18904, 21077

LOCATION: TAX MAP 38, GRID 14
 PARCEL 987
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT, GRADING AND SEDIMENT CONTROL PLAN

DATE: NOVEMBER, 2009 PROJECT NO. 2172
 FEBRUARY, 2010

DES: MR/JC DRAFT: MR/JC CHECK: JC/BFC SCALE: AS SHOWN DRAWING 2 OF 5



GENERIC BOX MATRIX
SCALE: 1" = 30'

NOTE: THE OPTIONAL DECK CAN ONLY BE ADDED ON LOTS WHERE ITS PROJECTION IS 10' OR LESS INTO THE REAR SETBACK (PER SECTION 128 OF THE ZONING REGULATIONS)

ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.
ENGINEER: *[Signature]* 2/19/2010 DATE

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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.
DEVELOPER: *[Signature]* 2/19/2010 DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 3/4/10 DATE
HOWARD SCD

LEGEND

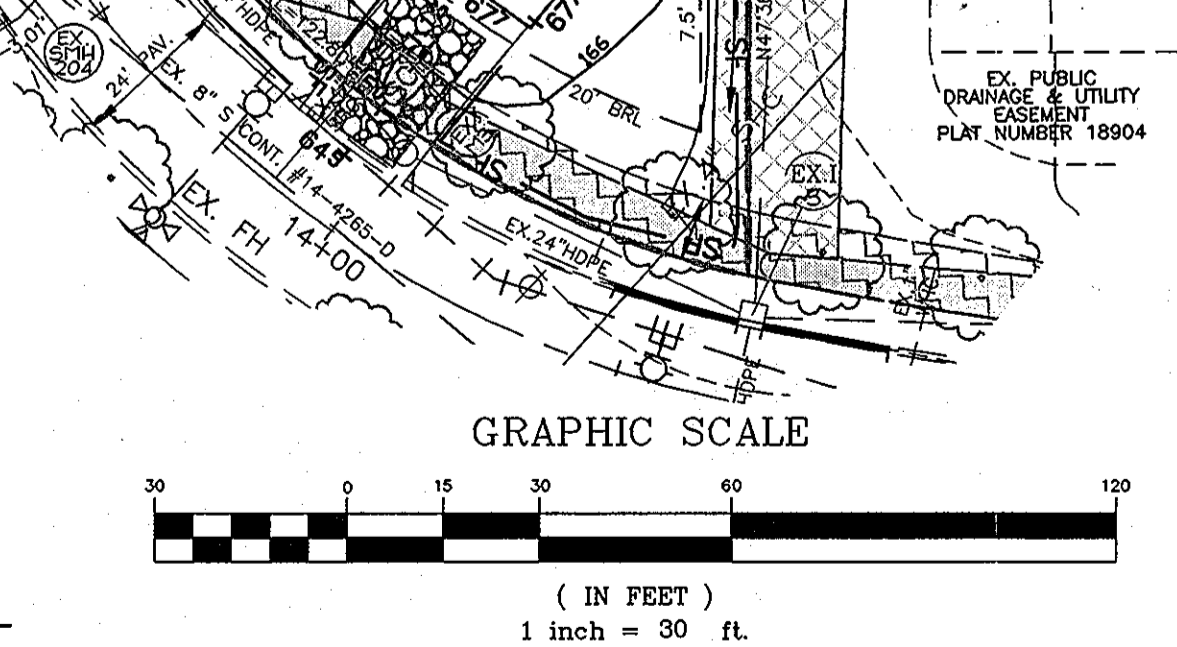
- EXISTING CONTOURS: 999
- PROPOSED CONTOURS: 999
- LIMIT OF WETLANDS: [Symbol]
- EXISTING WOODS LINE: [Symbol]
- EXISTING STRUCTURE: [Symbol]
- PROPOSED STRUCTURE: [Symbol]
- FOREST CONSERVATION EASEMENT: [Symbol]
- PUBLIC SEWER, WATER AND UTILITY EASEMENT: [Symbol]
- PRIVATE STORMDRAIN AND UTILITY EASEMENT: [Symbol]
- PUBLIC TREE MAINTENANCE AND UTILITY EASEMENT: [Symbol]
- RIP-RAP: [Symbol]
- EROSION CONTROL MATTING: [Symbol]
- RECREATIONAL OPEN SPACE: [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE: [Symbol]
- SUPER SILT FENCE: [Symbol]
- SILT FENCE: [Symbol]
- EXISTING LANDSCAPE TREES PER F-06-008: [Symbol]
- PROPOSED LANDSCAPING: [Symbol]

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/15/10 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 3/10/10 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 3/15/10 DATE
DIRECTOR



SYMBOL	HYDRIC	HYDROLOGIC GROUP	SOILS CHART NAME
BeC3	YES	C	BELTSVILLE SILT LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
CID2		B	CHILLUM GRAVELLY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED
CmC2		B	CHILLUM SILT LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
ScB		C	SANDY AND CLAYEY LAND, GENTLY SLOPING
ScD		C	SANDY AND CLAYEY LAND, MODERATELY ERODED
ScE		C	SANDY AND CLAYEY LAND, MODERATELY STEEP
SiC2		B	SASSAFRAS GRAVELLY SAND LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
SSE		B	SASSAFRAS SOILS, 15 TO 40 PERCENT SLOPES

NO.	DATE	REVISION
2	3-2-12	REVISE O.S. LOT 24 TO A BUILDABLE LOT PER WP-11-140
1	10-12-11	REVISE LOT 6 TO SHOW ANGELINA PER ADMINISTRATIVE ADJUSTMENT
3	10-30-12	REVISE FF, BF, MCE, SPTS AND DRIVEWAY SLOP PER AS-BUILT CONDITIONS

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS

8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644
E-MAIL: bel@benchmark-engineering.com

STATE OF MARYLAND
BRIAN F. CLEVER
Professional Engineer
2/19/2010

BUILDER: RICHMOND AMERICAN HOMES OF MARYLAND, INC. 6200 OLD DOBBIN LANE, SUITE 190 COLUMBIA, MARYLAND 21045 410-312-2800

OWNER (LOTS 16-33 AND 25): BUFFALO GAP, LLC 5570 STERRETT PLACE, SUITE 201 COLUMBIA, MARYLAND 21044 410-997-3815

OWNER (LOTS 4-12): NEWBUREN INVESTMENTS II, LLC 5570 STERRETT PLACE, SUITE 201 COLUMBIA, MARYLAND 21044 410-997-3815

PROJECT: SUMMER HAVEN PHASES I & II LOTS 4-12, 16-33 & 25 SINGLE FAMILY DETACHED PLATE 18902 - 18904 #21079

LOCATION: TAX MAP 38, GRID 14 PARCEL 087 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT, GRADING AND SEDIMENT CONTROL PLAN

DATE: NOVEMBER, 2009 PROJECT NO. 2172
FEBRUARY, 2010

DES:MR/JC DRAFT: MR/JC CHECK:JC/BFC SCALE: AS SHOWN DRAWING 3 OF 5

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 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 Experiment 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 texture subsoil and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, 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, nutgrass, poison ivy, thistle, or others as specified.
 - Where the 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 2.0 Vegetative Stabilization - Section 1 - 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 time shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content or 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 sod 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 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.
 - Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

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, (313-1850).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL, REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

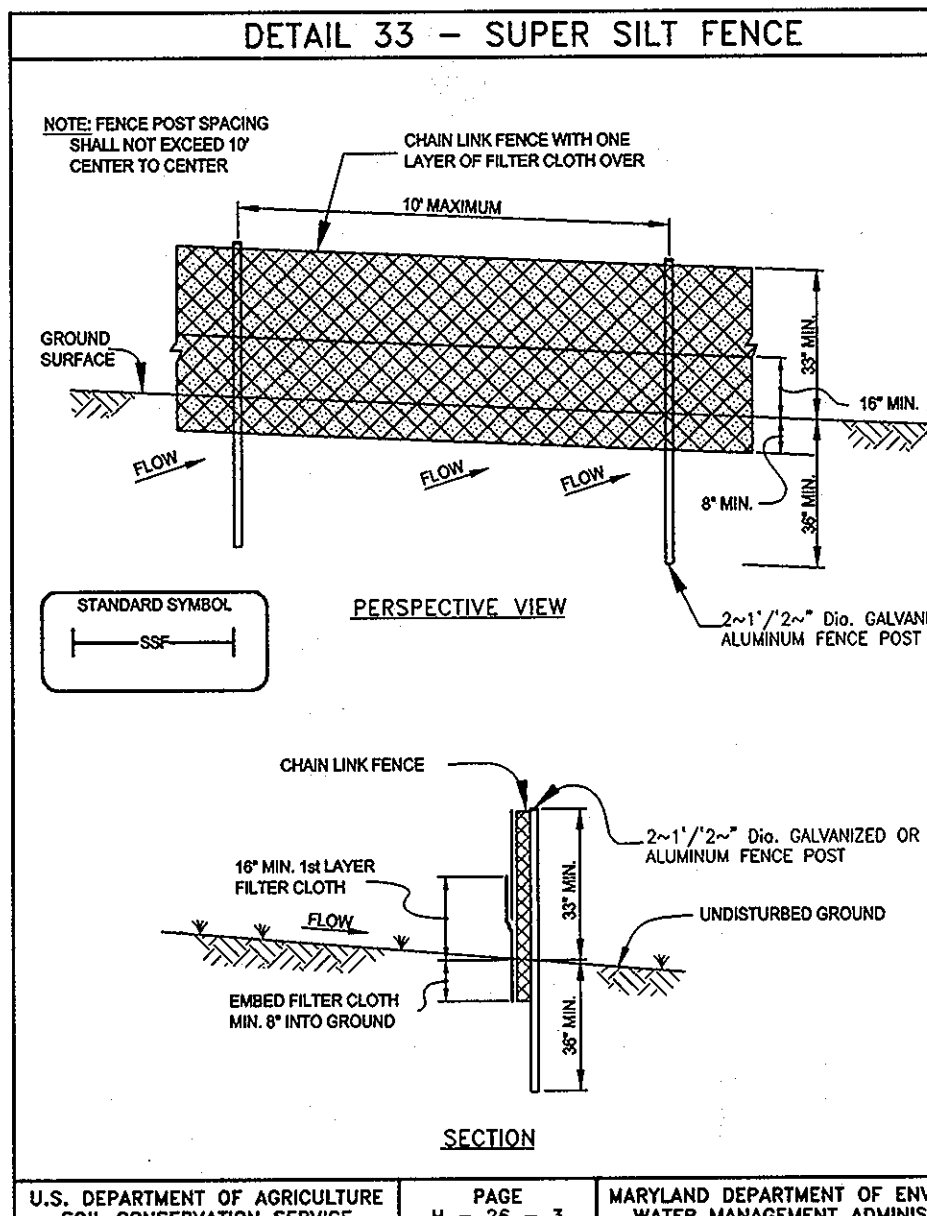
TOTAL AREA OF SITE (THIS SUBMISSION)	5.19	ACRES
AREA DISTURBED	5.19	ACRES
AREA TO BE ROOFED OR PAVED	1.13	ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.46	ACRES
TOTAL CUT	N/A	CY
TOTAL FILL	4548	CY
OFFSITE WASTE/BORROW AREA LOCATION	*	
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/BORROW SITE AND NOTIFY AND GAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND ITS GRADING PERMIT NUMBER AT THE TIME OF CONSTRUCTION.
- 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, 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 CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TEMPORARY SEEDBED PREPARATIONS

- 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/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 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/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 SEEDBED PREPARATIONS

- 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/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (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. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



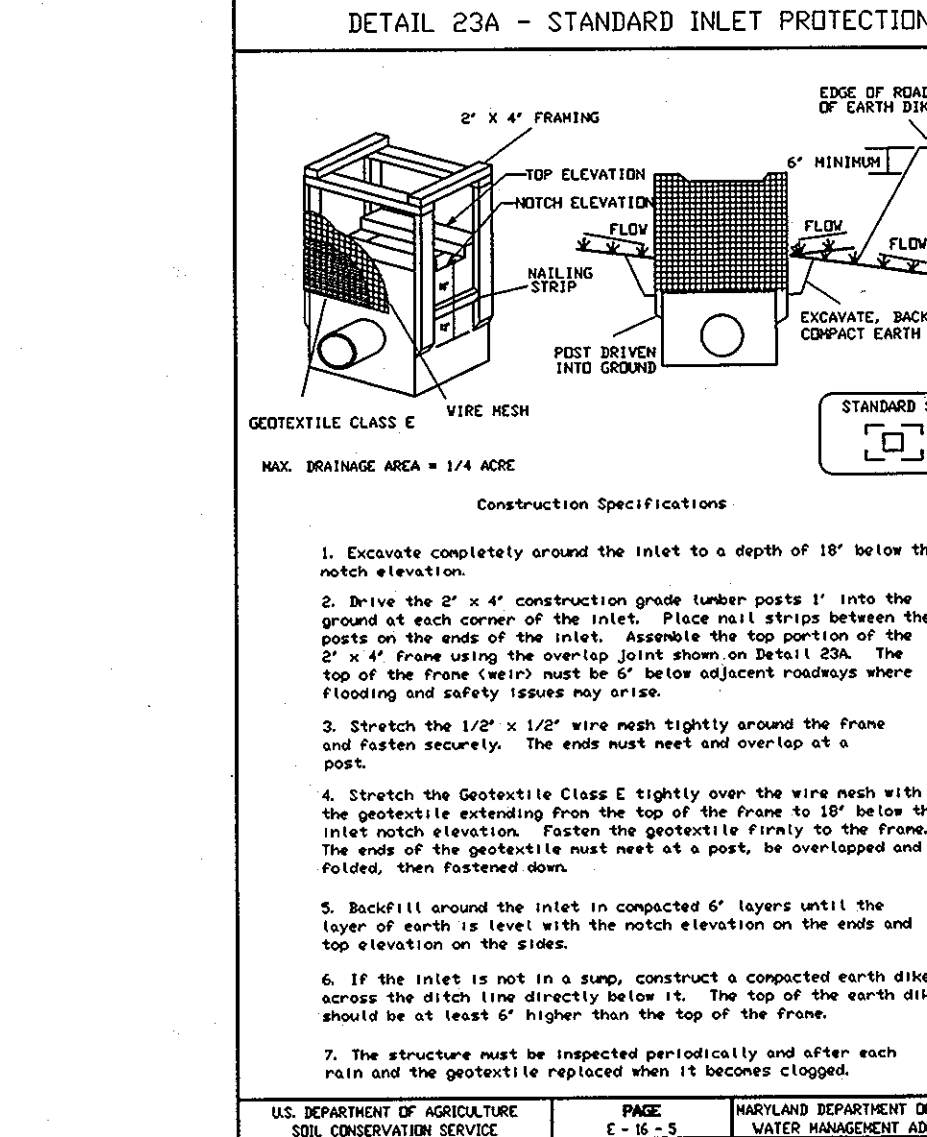
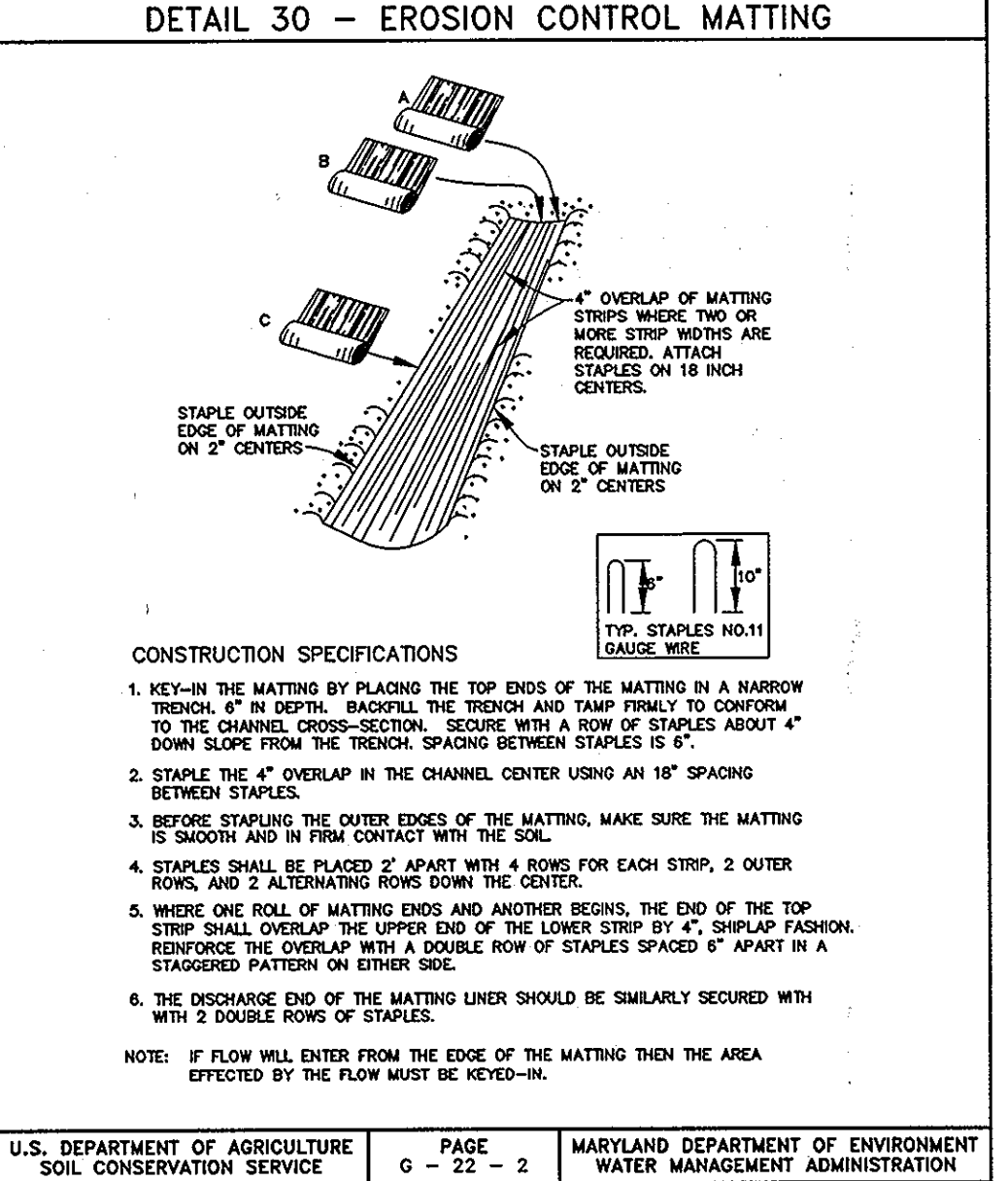
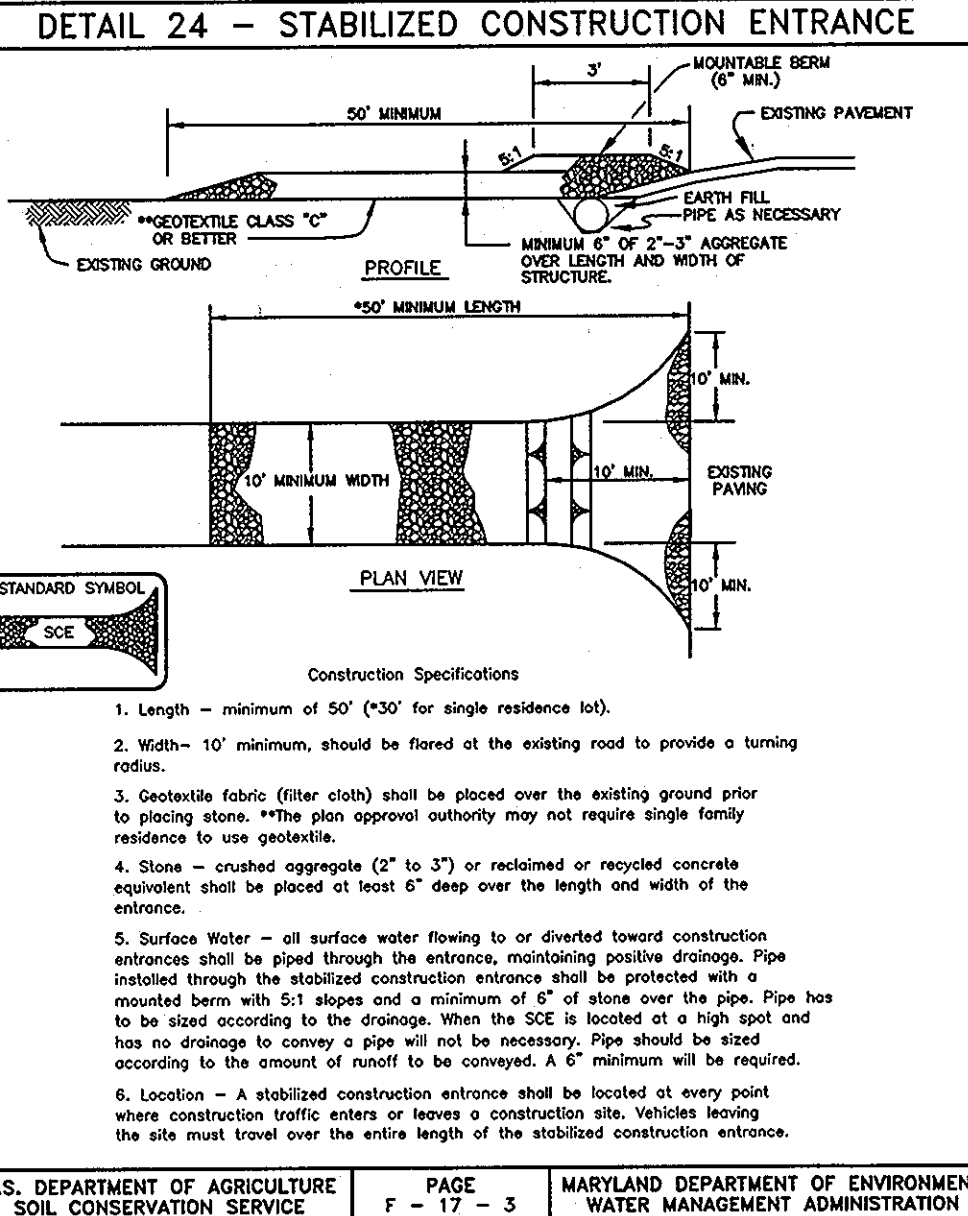
CONSTRUCTION SPECIFICATIONS

- 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 frust 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 still bulldozers 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 top 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 ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

SUPER SILT FENCE DESIGN CRITERIA

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet



- LANDSCAPE NOTES:**
- TREES SHOULD BE PLANTED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVING AND MUST BE A MINIMUM OF 5 FEET FROM ANY STORM DRAIN.
 - TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM AN OPEN SPACE ACCESS STRIP AND 10 FEET FROM A DRIVEWAY.
 - SEE TREE PLANTING DETAIL - THIS SHEET.
 - 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 INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS HEREWIT 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 MAY 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.
 - PERIMETER AND STORM WATER MANAGEMENT LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL WAS PROVIDED AS SHOWN ON THE LANDSCAPE PLAN SHEETS OF THE ROAD CONSTRUCTION DRAWINGS FOR THIS PROJECT (F-08-048). FOR MORE INFORMATION, SEE GENERAL NOTE 10 ON SHEET 11 OF THIS PLAN.
 - STREET SIDE LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THIS SITE PLAN FOR LOT 35 SURETY IN THE AMOUNT OF \$1,050 FOR 2 SHADE TREES AND 3 EVERGREENS SHALL BE PROVIDED WITH THE GRADING PERMIT.

- SEQUENCE OF CONSTRUCTION**
- NOTIFY SEDIMENT CONTROL DIVISION 48 HOUR PRIOR TO START OF CONSTRUCTION
- | DAY | ACTIVITY |
|-----------|--|
| DAY 1 | 1.) OBTAIN GRADING PERMIT. |
| DAY 2-8 | 2.) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. THE EXISTING CONTROLS THAT WERE INSTALLED UNDER F-08-008 THAT ARE TO REMAIN SHALL BE INSPECTED AND APPROVED AS SHOWN ON THESE PLANS TO ENSURE THEY MEET COMPLIANCE WITH SPECIFICATIONS. ANY REMAINING CONTROLS INSTALLED UNDER F-08-008 THAT WILL NOT BE UTILIZED UNDER THIS SDP SHALL BE REMOVED BY THE DEVELOPER. INLETS 2, 6, 7, 8 AND 10 WILL REQUIRE ADDITIONAL SUPER SILT FENCE PROTECTION. |
| DAY 9-12 | 3.) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES. |
| DAY 13-60 | 4.) CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS. |
| DAY 61-64 | 5.) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES AND FLUSH STORM DRAIN SYSTEM. |
| DAY 65-68 | 6.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS. |
- NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
- NOTE: 2. EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOD SOD SHOULD BE USED.

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 COUNTY CONSERVATION DISTRICT."

ENGINEER: *[Signature]* DATE: 2/19/2010

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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."

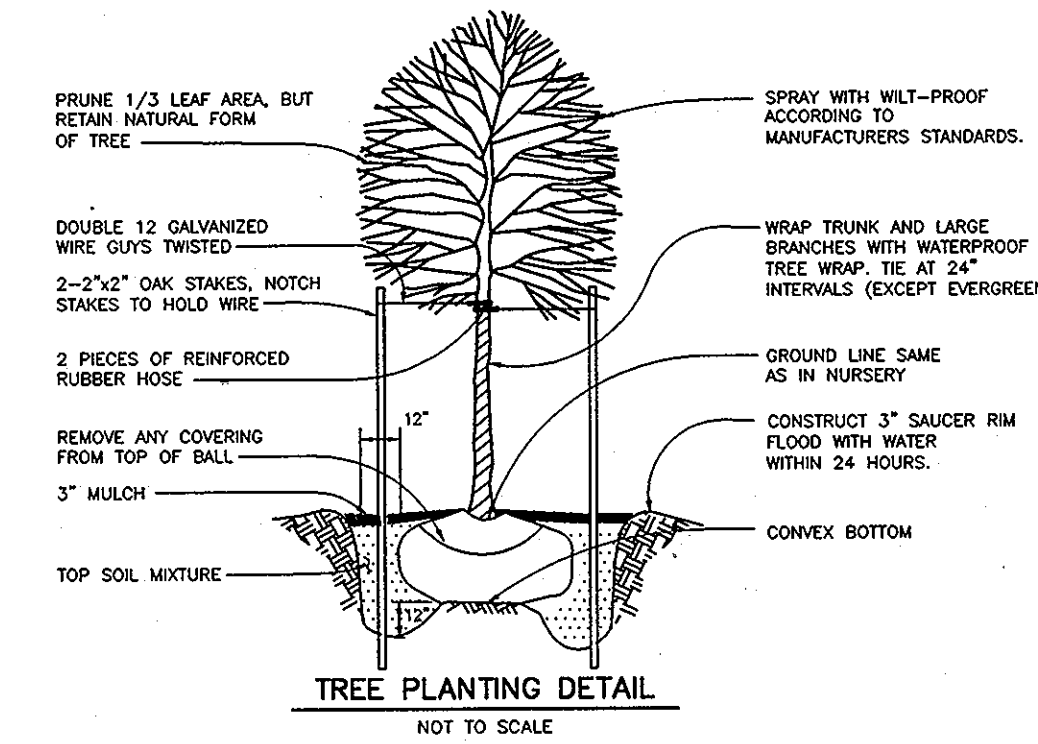
DEVELOPER: *[Signature]* DATE: 2/19/2010

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

[Signature] DATE: 3/14/10

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS
LANDSCAPE BUFFER TYPE	① B-LOT 35
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	83'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO
NUMBER OF PLANTS REQUIRED	
SHADE TREES	2
EVERGREEN TREES	3
NUMBER OF PLANTS PROVIDED	
SHADE TREES	2
EVERGREEN TREES	3



LANDSCAPE PLANTING LIST

SYMBOL	QUANTITY	NAME	REMARKS
○	2	QUERCUS COCCINEA SCARLET OAK	2 1/2" MIN. CAL. BAG FULL HEAD
★	3	PINUS THUNBERGIANA (JAPANESE BLACK PINE)	6'-8" Ht. UNSHEARED

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] DATE: 3/15/10

[Signature] DATE: 3/15/10

[Signature] DATE: 3/15/10

OWNER (LOTS 16-33 AND 35) BUFFALO GAP, LLC, 5570 STERRETT PLACE, SUITE 201, COLUMBIA, MARYLAND 21044 410-997-3815

OWNER (LOTS 4-12): NEWBUREN INVESTMENTS II, LLC, 5570 STERRETT PLACE, SUITE 201, COLUMBIA, MARYLAND 21044 410-997-3815

BENCHMARK ENGINEERS, INC.

8480 BALTIMORE NATIONAL PIKE A SUITE 418, ELICOTT CITY, MARYLAND 21043

PHONE: 410-455-6105 FAX: 410-455-6844

E-MAIL: bel@benchmark-engineering.com

STATE OF MARYLAND PROFESSIONAL ENGINEER REG. NO. 111111

DATE: 2/19/2010

PROJECT: SUMMER HAVEN PHASES 1 & 2, LOTS 4-12, 16-33, 35 & 36, SINGLE FAMILY DETACHED, PLATF 18902 - 18904 & 21679

LOCATION: TAX MAP 38, GRID 14, PARCEL 987, 1st ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: LANDSCAPE AND SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

DATE: NOVEMBER, 2009 PROJECT NO. 2172

DES: MR/JC DRAFT: MR/JC CHECK: JC/BFC SCALE: AS SHOWN DRAWING 4 OF 5

HCSO / MAA VEGETATIVE ESTABLISHMENT DETAILS AND SPECIFICATIONS FOR PROJECTS WITHIN 4 MILES OF THE BWI AIRPORT

July 1, 2004
 Reference to ITEM 901 is noted below and found in Maryland Aviation Administration's manual entitled Specifications for Performing Landscaping Activities for the Maryland Aviation Administration dated May 2001

SOIL TESTS

1. Following initial soil disturbances or re-disturbance, permanent or temporary stabilization shall be completed within seven calendar days for the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and fourteen days for all other disturbed or graded areas on the project site.
2. Occurrence of acid sulfate soils (grayish black color) will require covering with a minimum of 12 inches of clean soil with 6 inches minimum capping of top soil. No stockpiling of material is allowed. If needed, soil tests should be done before and after a 6-week incubation period to allow oxidation of sulfates.
3. The minimum soil conditions required for permanent vegetative establishment are:
 - a. Soil pH shall be between 6.0 and 7.0.
 - b. Soluble salts shall be less than 500 parts per million (ppm).
 - c. 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.
 - d. Soil shall contain 1.5% minimum organic matter by weight.
 - e. Soil must contain sufficient pore space to permit adequate root penetration.
 - f. If these conditions cannot be met by soils on site, adding topsoil is required in accordance ITEM 901 or amendments made as recommended by a certified agronomist.

SEEDING ITEM 903 SEEDING DESCRIPTION

903-1.1 GENERAL. This item provides specifications for seeding of areas as designated on plans or as directed by the MAA Engineer. The species, mixtures, and methods of application provided in this item have been designed to reduce the attractiveness of airport grounds to wildlife. Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. All activities associated with seeding including soil preparation, seed application, fertilization, and maintenance shall also conform to these approved standards.

MATERIALS

903-2.1 SEED. All seed shall comply with the Maryland Seed Law (Agricultural Article of the Annotated Code of Maryland). Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. Seed will be sampled and tested by an inspector from the Turf and Seed Section, Maryland Department of Agriculture (MDA), Annapolis, Maryland. All lawn and turf seed and mixtures shall be free from the following state-listed restricted noxious weeds:
 corn cockle (*Agrostemma githago*), bentgrass (*Agrostis spp.*), redtop (*Lolium giganteum*), wild onion (*Allium canadense*), wild garlic (*Allium vineale*), bindweed (*Calystegia spp.*), dodder (*Cuscuta spp.*), Bermuda grass (*Cynodon dactylon*), orchardgrass (*Dactylis glomerata*), tall fescue (*Festuca arundinacea*), meadow fescue (*Festuca pratensis*), velvetgrass (*Holcus lanatus*), annual bluegrass (*Poa annua*), rough bluegrass (*Poa trivialis*), Timothy (*Phleum pratense*), and Johnson grass (*Sorghum halepense*).


Restricted noxious-weed seed may not exceed 0.5 percent by weight of any seed mixture. In addition, all seeds sold in Maryland shall be free from the following listed prohibited noxious weeds: balloonvine (*Cardiospermum halicacabum*), quackgrass (*Elymigia repens*), sicklepod (*Senna obtusifolia*), sorghum (*Sorghum spp.*), Canada thistle (*Cirsium arvense*), plumeless thistle (*Carduus spp.*-includes musk thistle and curled thistle), and serrated tussack (*Nassella trichotoma*).


903-2.1.1 APPROVED SPECIES. The following table contains species that are approved by MAA for use in seed mixtures. Purity requirements and germination requirements are also provided. These species may be included as a labeled component of a mixture when each is present in excess of five percent of the mixture by weight.


APPROVED PLANT SPECIES MAA SEED MIXTURES	Purity Not Less than %	Minimum % Germination*	Pure Live Seed Factor
Certified Turf-Type Tall Fescue (<i>Festuca arundinacea</i>)	98	90	1.13
Certified Kentucky Bluegrass (<i>Poa pratensis</i>)	90	80	1.39
Hard Fescue (<i>Festuca longifolia</i>)	98	90	1.13
Cheating Red Fescue (<i>Festuca rubra comutata</i>)	98	90	1.13
Annual Ryegrass (<i>Lolium multiflorum</i>)	95	85	1.24
Perennial Ryegrass (<i>Lolium perenne</i>)	90	80	1.39
Four Meadow Grass (<i>Poa polystrum</i>)	90	80	1.39
Little Bluestem (<i>Andropogon scoparius</i>)	62	94	1.71

* The percentage weight of pure seed present shall be five of any agricultural seeds, insect matter, and other seeds distinguishable by their appearance. The percentage of germination shall be actual germinants and shall not include hard seeds unless specifically permitted by the MAA Engineer.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

 **3/15/10**
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

 **3/18/10**
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

 **3/15/10**
 DIRECTOR DATE

Seeding seasons are based on typical years and can be subject to variation, which may be modified by the MAA Engineer based on seasonal trends. If the time required to complete any of the operations necessary under this item, within the specified planting season or any authorized extensions thereof, extends beyond the Contract period, then such time will be charged against the Contract time, and liquidated damages will be enforced with respect to this portion of work.

903-2.2 LIMES. Lime shall consist of ground limestone and contain at least 85 percent total carbonates. Lime shall be ground to a fineness so that at least 90 percent will pass through a No. 20 mesh sieve and 50 percent will pass through a No. 100 mesh sieve. Dolomitic lime or a high magnesium lime shall contain at least 10 percent magnesium oxide. Lime shall be applied by approved methods detailed in Section 903-B.3 of this item. The rate of application will be as directed by the MAA Engineer.

903-2.3 FERTILIZER. Fertilizer shall be standard commercial fertilizer (supplied separately or in mixtures) and meet the requirements of applicable state and federal laws (0-F-24) as well as standards of the Association of Official Agricultural Chemists. Nitrogen-Phosphorus-Potassium (N-P-K) concentrations shall be determined from analysis of soil samples. (*Approved fertilizer rate: 21 pounds of 10-10-10 per 1,000 square feet*) Methods of fertilizer application shall conform to standards described in Section 903-B.3 of this item. Fertilizer shall be furnished in standard containers that are clearly labeled with name, weight, and guaranteed analysis of the contents (percentage of total nitrogen, available phosphoric acid, and water-soluble potash). Mixed fertilizers shall not contain any hydrated lime or cyanamide compounds. Fertilizers failing to meet the specified analysis may be approved by the MAA Engineer, providing sufficient materials are applied to conform with the specified nutrients per unit of measure without additional cost to MAA. The fertilizers may be supplied in the following forms:
 a. A dry, free-flowing fertilizer suitable for application by a common fertilizer spreader;
 b. A finely ground fertilizer soluble in water, suitable for application by power sprayers; or
 c. A granular or pellet form suitable for application by blower equipment.

The rate of application will be based on results of soil tests performed by the University of Maryland Soil Testing Laboratory. By law, persons applying fertilizer to State-owned land shall follow the recommendations of the University of Maryland as set forth in the "Plant Nutrient Recommendations Based on Soil Tests for Turf Maintenance" and the "Plant Nutrient Recommendations Based on Soil Tests for Soil Production" (see Appendix B). Application of the fertilizer shall be in a manner that is consistent with the recommendations of the University of Maryland Cooperative Extension.

CONSTRUCTION METHODS AND EQUIPMENT

903-3.1 GENERAL. This section provides approved methods for the application of and includes standards for seedbed preparation, methods of application, and equipment to be used during the process. Lime and fertilizer shall be applied to seeded areas before the seed is spread. The mixture of seed will be determined for sites based on environmental conditions as described in Paragraph 903-2.1.3.

903-3.2 ADVANCE PREPARATION. Areas designated for seeding shall be properly prepared in advance of seed application. The area shall be tilled and graded prior to application of lime and fertilizer, and the surface area shall be cleared of any stones larger than 1 inch in diameter, sticks, stumps, and other debris that might interfere with sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas. Damage caused by erosion or other forces that result in soil erosion shall be repaired prior to the application of fertilizer and lime. The Contractor shall repair such damage, which may include filling gullies, smoothing irregularities, and repairing other incidental damage before beginning the application of fertilizer and ground limestone. If an area to be seeded is sparsely sodded, weedy, barren and unworked, or pocked and hard, all grass and weeds shall first be cut or otherwise destroyed to a depth of not less than 5 inches; the top 3 inches of soil is loose, friable, and is reasonably free from large clods, rocks, large roots, or other undesirable matter; appropriate amounts of fertilizer and lime have been added; and, if it has been shaped to the required grade immediately prior to seeding. For slope areas steeper than 3:1 (three horizontal to one vertical), the subsoil shall be loose to a depth of 1 inch. After completion of tilling and grading, lime and fertilizer shall be applied within 48 hours according to the specified rate (Paragraphs 903-2.2 and 2.3) and methods (Paragraphs 903-3.1 and 903-3.2) approved by MAA. The seeding mixture shall be applied within 48 hours after application of lime and fertilizer. To firm the seeded areas, cultipacking shall occur immediately after seeding.

903-3.3 METHODS OF APPLICATION. Lime, fertilizer, and seed mixes shall be applied by either the dry or wet application methods that have been approved by MAA and are detailed below.
903-3.3.1 DRY APPLICATION METHOD
 a. Liming. If soil test results indicate that lime is needed, the following procedures will be used: following advance preparation of the seedbed, lime shall be applied prior to the application of any fertilizer or seed and only on seedbeds that have been prepared as described in Paragraph 903-3.2. The lime shall be uniformly spread and worked into the top 2 inches of soil, after which the seedbed shall be properly graded again.
 b. Fertilizing. Following advance preparations and liming if necessary, fertilizer shall be spread uniformly at the specified rate to provide no less than the minimum quantity stated in Paragraph 903-2.3.
 c. Seeding. Seed mixtures shall be sown immediately after fertilization of the seedbed. The fertilizer and seed shall be lightly raked to a depth of 1 inch for newly graded and disturbed areas.
 d. Rolling. After the seed has been properly covered, the seedbed shall be immediately compacted using a cultipacker or an approved lamroller.

903-3.3.2 WET APPLICATION METHOD HYDROSEEDING
 a. General. The Contractor may elect to apply seed and fertilizer as per Paragraphs c and d of this section in the form of an aqueous mixture by spraying the soil and the soil then sprayed with seedbeds to a depth not less than 5 inches, if required, shall have been worked in already. The mixtures shall not exceed 220 pounds of mixture per 100 gallons of water and should be applied within 30 minutes to prevent fertilizer burn of the seeds. All water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances harmful to plant life. Broackish water shall not be used at any time. The Contractor shall identify all sources of water to the MAA Engineer at least two weeks prior to use. The Engineer may take samples of the water at the source and from the tank at any time and shall have the samples for chemical and saline content. The Contractor shall not use any water from any source that is disapproved by the Engineer following such tests. All mixtures shall be constantly agitated from the time they are mixed until they are finally applied to the seedbed. All such mixtures shall be used within 30 minutes from the time they were mixed or they shall be wasted and disposed of at a location acceptable to the Engineer.
 b. Spraying. Lime shall be sprayed and mixed with the water together in the relative proportions specified, but the resulting concentration should not exceed 220 pounds of mixture per 100 gallons of water and should be applied within 30 minutes to prevent fertilizer burn of the seeds. All water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances harmful to plant life. Broackish water shall not be used at any time. The Contractor shall identify all sources of water to the MAA Engineer at least two weeks prior to use. The Engineer may take samples of the water at the source and from the tank at any time and shall have the samples for chemical and saline content. The Contractor shall not use any water from any source that is disapproved by the Engineer following such tests. All mixtures shall be constantly agitated from the time they are mixed until they are finally applied to the seedbed. All such mixtures shall be used within 30 minutes from the time they were mixed or they shall be wasted and disposed of at a location acceptable to the Engineer.
 c. Application. The Contractor shall apply the mixture using a high-pressure spray which shall always be directed upward into the air so that the mixtures will fall to the ground in a uniform spray. Nozzles or sprays shall never be directed toward the ground in such a manner that might produce erosion or runoff. Particular care shall be exercised to ensure that the application is made uniformly, at the prescribed rate, and to guard against misses and overlapped areas. Predetermined quantities of the mixture shall be used in accordance with specifications to cover specified areas. To check the rate and uniformity of application, the applicator will observe the degree of wetting of the ground or distribute test sheets of paper or pans over the area at intervals and observe the quantity of material deposited thereon.
 d. Surfaces. Surfaces that are to be mulched as indicated by the plans or designated by the MAA Engineer, seed and fertilizer applied by the spray method need not be raked into the soil or rolled. However, on surfaces on which mulch is not to be used, the raking and rolling operations will be required after the soil has dried.

903-3.4 MAINTENANCE OF SEEDBED AREAS. The contractor shall protect seeded areas against traffic or other use by warning signs or barricades, as approved by the Engineer. Surfaces gulched or otherwise damaged following seeding shall be repaired by regrading and reseeding as directed. The Contractor shall mow, water as directed, and otherwise maintain seeded areas in a satisfactory condition until final inspection and acceptance of the work. When either the dry or wet application method outlined above is used for work performed out of season, the Contractor will be required to establish a good stand of grass of uniform color and density to the satisfaction of the Engineer. If at the time when the contract has been otherwise completed it is not possible to make an adequate determination of the color, density, and uniformity of such stand of grass, payment for the unaccepted portions of the areas seeded out of season will be withheld until such time as these requirements have been met.

MULCHING. Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied immediately after grading.
TEMPORARY SEEDING. Lime: 100 pounds of dolomitic limestone per 1,000 square feet.
 Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet.
 Seed: Per ITEM 903
 Mulch: Mulch shall be applied as per ITEM 905.
FILL. No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All fill in roadways and parking areas is to be classified Type 2 as per Anne Arundel County Code - Article 21, Section 2-308, and compacted to 90% density; compaction to be determined by ASTM D-1557-64T (Modified Proctor). Any fill within the building area is to be compacted to a minimum of 95% density as determined by methods previously mentioned. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

SODDING. Installation of sod should follow permanent seeding dates. Seedbed preparation for sod shall be as noted above. Lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod. Install sod as per ITEM 904.
MINING OPERATIONS. Sediment control plans for mining operations must include the following seeding dates and mixtures:
 For seeding dates from February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and red top at the minimum rate of 0.5 pounds per 1,000 square feet.
 NOTE: Use of this information does not preclude meeting all of the requirements of the current Maryland Standards and Specifications for Soil Erosion and Sediment Control.

903-2.1.2 PURITY. All seed shall be free of all state-designated noxious weeds listed in Paragraph 2.1.1 and conform to MAA specifications. To ensure compliance, MAA requires sampling and testing of seed by the Turf and Seed Section, Maryland Department of Agriculture (MDA). The Contractor shall furnish the MAA Engineer with duplicate signed copies of a statement by the Turf and Seed Section certifying that each lot of seed has been laboratory tested within six months of date of delivery. This statement shall include the following information:

- name and address of laboratory,
- date of test,
- lot number,
- the results of tests as to name, percentages of purity and of germination,
- percentage of weed content for the seed furnished,
- and, in the case of a mixture, the proportions of each kind of seed.

Seed shall be furnished in standard containers with the seed name, lot number, net weight, percentages of purity, germination rate and hard seed, and percentage of maximum weed seed content clearly marked. All seed containers shall be labeled with a MDA supervised program seed tag.
903-2.1.3 MIXTURES AND APPLICATION RATES. Only seed mixtures and application rates described in this item may be used unless otherwise approved by the MAA Engineer. Seed mixtures shall meet criteria detailed in Paragraph 903-2.1.2. Seed mixtures have been formulated to minimize the attractiveness of areas to wildlife for common landscape scenarios. The appropriate seed mixture for application will be designated based on environmental conditions and may vary from site to site. All planting rates listed are in pounds of Pure Live Seed (PLS) per acre.

Seed mixtures, application scenarios, and rates for permanent cool-season grasses are as follows:

- a. *Seed Mixture No. 1* - relatively flat areas (grade less than 4:1) subject to normal conditions and regular mowing (Application rate = 234 lbs PLS/acre);
- a. *Seed Mixture No. 2* - sloped areas (grade greater than 4:1) not subject to regular mowing (Application rate = 115 lbs PLS/acre), and
- a. *Seed Mixture No. 3* - wetlands and their associated buffer zones (Application rate = 131 lbs PLS/acre).

Seed Mixture No. 1: Relatively flat areas regularly mowed and exposed to normal conditions (Application rate = 234 lbs PLS/acre)

Seed	Rate of Application (lbs of L.S./acre)
85% Certified Turf-Type Tall Fescue	192
10% Certified Kentucky Bluegrass	28
5% Perennial Ryegrass	14
Supplemental Seed Annual Ryegrass	25

Seed Mixture No. 2: Sloped areas not subject to regular mowing (Application rate = 115 lbs PLS/acre)

Seed	Rate of Application (lbs of PLS/acre)
75% Hard Fescue	85
20% Cheating Fescue	23
Supplemental Seed 5% Kentucky Bluegrass	7
Redtop	3

Seed Mixture No. 3 - Wetland areas and their associated buffer zones (Application rate = 131 lbs PLS/acre)

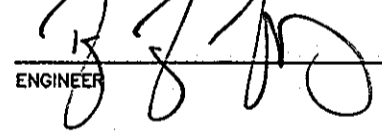
Seed	Rate of Application (lbs of PLS/acre)
60% Fowl Meadow Grass	84
30% Cheating Fescue	33
Supplemental Seed 10% Perennial Ryegrass	14
Redtop	3

903-2.1.4 SEEDING SEASONS. Application of seed and seed mixtures shall occur within a specified seeding season unless otherwise approved by the MAA Engineer. No seed or seed mixtures are to be applied on frozen ground or when the temperature is at or below 35 degrees Fahrenheit (7.2 degrees Centigrade). Under these conditions a layer of mulch should be applied in accordance with Item 905. Mulching to stabilize the site, and permanent seeding should occur in the subsequent seeding season. Seed application may occur during the seeding season dates listed below. Seeding performed after October 20 should be a temporary cover of annual ryegrass and followed by over seeding of the appropriate seed mixture during the spring seeding season.

SEEDING SEASONS	
Permanent Cool-Season Grasses	March 1 to April 20 and August 1 to October 20, inclusive
Temporary Cover of Annual Ryegrass/Redtop	March 1 to April 30 and August 1 to November 30, inclusive
Temporary Cover of Warm-Season Grasses (Little Bluestem only)	May 1 to July 31, inclusive. Rate of application should be 13.6 lbs. PLS per acre.

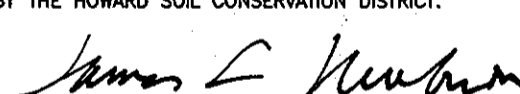
ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

 **2/19/2010**
 ENGINEER DATE


DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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.

 **2/19/2010**
 DEVELOPER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

 **3/4/10**
 HOWARD SCD DATE

NO.	DATE	REVISION
1	3-2-12	REVISE O.S. LOT 24 TO A BUILDABLE LOT PER WP-11-190

BENCHMARK ENGINEERING, INC.
 ENGINEERS • LAND SURVEYORS • PLANNERS

8490 BALTIMORE NATIONAL PIKE & SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644
 E-MAIL: bel@bel-chilivernengineering.com

 **2/19/2010**
 PROFESSIONAL ENGINEER

BUILDER: RICHMOND AMERICAN HOMES OF MARYLAND, INC., 6200 OLD DOBBIN LANE, SUITE 190, COLUMBIA, MARYLAND 21045, 410-312-2800

OWNER (LOTS 16-33 AND 35): BUFFALO GAP, LLC, 5570 STERRETT PLACE, SUITE 201, COLUMBIA, MARYLAND 21044, 410-997-3815

OWNER (LOTS 4-12): NEWBUREN INVESTMENTS II, LLC, 5570 STERRETT PLACE, SUITE 201, COLUMBIA, MARYLAND 21044, 410-997-3815

PROJECT: SUMMER HAVEN, LOTS 4-12, 16-33 AND 35, SINGLE FAMILY DETACHED, PLAT 18692 - 18694 & 21679

LOCATION: TAX MAP 35, GRID 14, PARCEL 987, 1st ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: HCSO/MAA SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

DATE: NOVEMBER, 2009 / FEBRUARY, 2010
PROJECT NO.: 2172

SCALE: AS SHOWN **DRAWING:** 5 OF 5