

NOTES: (FOR LOT 7)  
 1. REFERENCE AA-13-010, APPROVED NOVEMBER 1, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE REAR PROPERTY LINE FROM 25 FEET TO 23.08 FEET.  
 2. MAXIMUM 0.25' BRICK ENCROACHMENT PERMITTED PER DPZ MEMO DATED SEPTEMBER 4, 2013.

NOTES: (FOR LOT 8)  
 1. REFERENCE AA-13-011, APPROVED NOVEMBER 4, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE REAR PROPERTY LINE FROM 30 FEET TO 27.46 FEET AND TO REDUCE THE REQUIRED SETBACK FROM THE SIDE PROPERTY LINES FROM 7.5 FEET TO 7.25 FEET.

**LEGEND**

[Symbol]	PROPERTY LINE	[Symbol]	PRIVATE SIGN EASEMENT
[Symbol]	RIGHT-OF-WAY LINE	[Symbol]	EXISTING CURB AND GUTTER
[Symbol]	ADJACENT PROPERTY LINE	[Symbol]	EXISTING UTILITY POLE
[Symbol]	CENTERLINE OF EXISTING STREAM	[Symbol]	EXISTING LIGHT POLE
[Symbol]	FOREST CONSERVATION EASEMENT	[Symbol]	EXISTING STREET SIGN
[Symbol]	PRIVATE 24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 6-11	[Symbol]	EXISTING SANITARY MANHOLE
[Symbol]	PUBLIC SEWER, WATER, & UTILITY EASEMENT	[Symbol]	EXISTING SANITARY LINE
[Symbol]	PRIVATE DRAINAGE & UTILITY EASEMENT	[Symbol]	EXISTING FIRE HYDRANT
[Symbol]	PUBLIC DRAINAGE, TREE MAINTENANCE, & UTILITY EASEMENT	[Symbol]	EXISTING WATER LINE
[Symbol]	PUBLIC WATER & UTILITY EASEMENT	[Symbol]	EXISTING STORM DRAIN
[Symbol]	PUBLIC DRAINAGE & UTILITY EASEMENT	[Symbol]	EXISTING TREELINE
[Symbol]	PUBLIC SEWER & UTILITY EASEMENT	[Symbol]	EXISTING FENCE
[Symbol]	PUBLIC PUMP STATION STORMWATER MANAGEMENT, SEWER, WATER, & UTILITY EASEMENT	[Symbol]	EXISTING STREET TREE
[Symbol]		[Symbol]	EXISTING SIDEWALK

**NOTE**  
 SECTION 107.D.5 OF THE ZONING REGULATIONS REQUIRES THE FOLLOWING MINIMUM DISTANCES BETWEEN SINGLE-FAMILY ATTACHED BUILDINGS OR BETWEEN SINGLE-FAMILY ATTACHED BUILDINGS AND SINGLE-FAMILY DETACHED DWELLINGS:

FACE TO FACE:	30 FEET
FACE TO SIDE/REAR TO SIDE:	30 FEET
SIDE TO SIDE:	15 FEET
REAR TO REAR:	60 FEET

**BUILDER**  
 MV HOMES  
 9720 PATUXENT WOODS DRIVE  
 COLUMBIA, MARYLAND 21046  
 796-0908

**OWNER**  
 AUTUMN RIVER CORPORATION  
 4100 COLLEGE AVE.  
 ELLICOTT CITY MD 21043  
 (410) 465-3500

**DEVELOPER**  
 AUTUMN DEVELOPMENT CORPORATION  
 C/O LAND DESIGN & DEVELOPMENT, INC.  
 5300 DORSEY HALL DR STE 102  
 ELLICOTT CITY MD 21042-7819  
 ATTN: MR. DONALD R. REUWER  
 (443) 367-0422

NO.	REVISION	DATE
1	CHANGE MULTIPLE UNIT TYPES AND FF ELEVATIONS	2/14/13
2	REVISE HOUSE SIZE FOR LOTS 5 AND 11	7/9/13
3	REVISE GRADING AND HOUSE LAYOUTS FOR LOTS 7 & 8	12/18/13
4	REVISE GRADING AND HOUSE LAYOUT FOR LOTS 3B AND 6C	08/10/14
5	REVISE GRADING AND HOUSE LAYOUT FOR LOT 6T	08/11/14
6	REVISE HOUSE LAYOUT & GRADING LOT 11	06/16/14

**SITE DEVELOPMENT PLAN**  
**LAYOUT SHEET**  
**AUTUMN RIVER - PART ONE OF PHASE II**  
 LOTS: 5-14, 38-43, 45-67  
 OPEN SPACE LOTS 30, 37, 44, 68, & 110  
 NON-BUILDABLE PARCELS C & D  
 NON-BUILDABLE PARCELS D-1  
 RESUBDIVISION OF EXISTING LOT 5T & NON-BUILDABLE BULK PARCELS A, B & E  
 DPZ REF'S: S-98-16, P-99-16, F-00-131 F-01-08,  
 P.B. 325, P.B. 148, PLAT 15794 & 15795 PLAT 14513-14515,  
 P-07-016, P-08-005, WP-09-063, F-09-021, F-10-067,  
 WP-07-085, WP-10-028, WP-12-034  
 2ND ELECTION DISTRICT, TM 25, GRID 14 & 21  
 ZONING: R-ED  
 PARCELS 172 & 279  
 HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET, ELICOTT CITY, MD 21043  
 TEL: 410.461.7666  
 FAX: 410.461.8961

**PROFESSIONAL CERTIFICATE**  
 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. 31373, EXPIRATION DATE: 1-21-2015.

DESIGN BY: RHY  
 DRAWN BY: JMR  
 CHECKED BY: JBS  
 DATE: MARCH 2012  
 SCALE: AS SHOWN  
 W.O. NO.: 04-145

2 SHEET OF 10

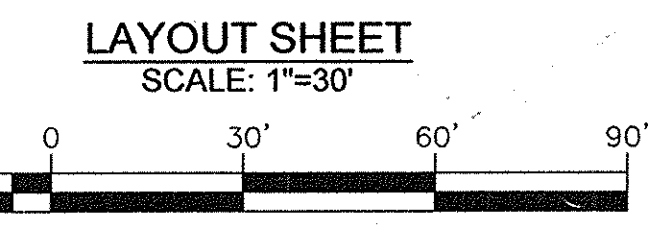
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3/12/13  
 DATE

3/12/13  
 DATE

3-13-13  
 DATE

**NOTE**  
 ALL STREET TREES FOR THIS PROJECT WERE PROVIDED UNDER F-09-021





**LEGEND**

	PROPERTY LINE		PRIVATE SIGN EASEMENT
	RIGHT-OF-WAY LINE		EXISTING CURB AND GUTTER
	ADJACENT PROPERTY LINE		EXISTING UTILITY POLE
	CENTERLINE OF EXISTING STREAM		EXISTING LIGHT POLE
	FOREST CONSERVATION EASEMENT		EXISTING STREET SIGN
	PRIVATE 24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 6-11		EXISTING SANITARY MANHOLE
	PUBLIC SEWER, WATER, & UTILITY EASEMENT		EXISTING SANITARY LINE
	PRIVATE DRAINAGE & UTILITY EASEMENT		EXISTING FIRE HYDRANT
	PUBLIC DRAINAGE, TREE MAINTENANCE, & UTILITY EASEMENT		EXISTING WATER LINE
	PUBLIC WATER & UTILITY EASEMENT		EXISTING STORM DRAIN
	PUBLIC DRAINAGE & UTILITY EASEMENT		EXISTING TREELINE
	PUBLIC SEWER & UTILITY EASEMENT		EXISTING FENCE
	PUBLIC PUMP STATION STORMWATER MANAGEMENT, SEWER, WATER, & UTILITY EASEMENT		EXISTING STREET TREE
			EXISTING SIDEWALK

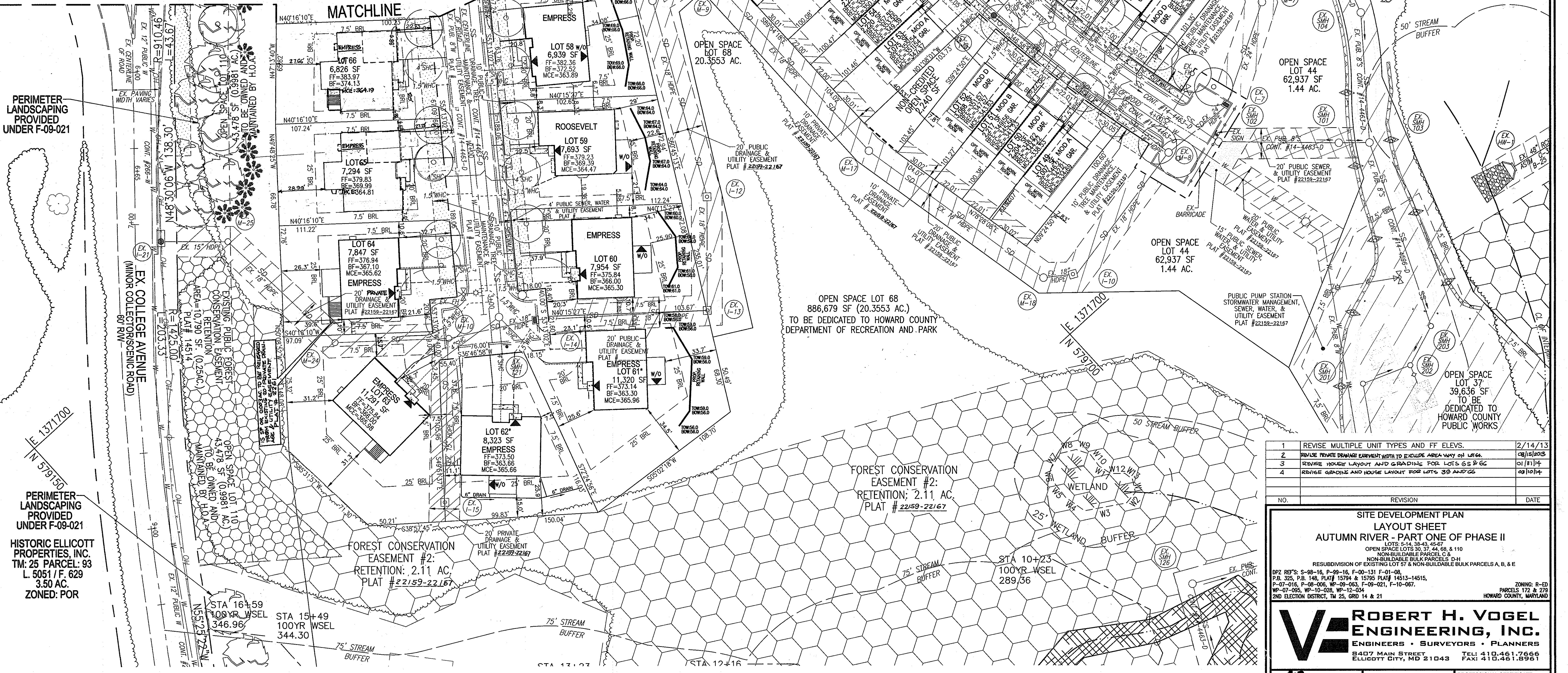
NOTES: (FOR LOT 65)  
1. REFERENCE AA-13-016, APPROVED DECEMBER 6, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE SIDE PROPERTY LINE ON THE NORTHWEST SIDE OF THE LOT FROM 7.5 FEET TO 6.6 FEET.

NOTES: (FOR LOT 66)  
1. REFERENCE AA-13-015, APPROVED DECEMBER 6, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE SIDE PROPERTY LINE ON THE NORTHWEST & SOUTHWEST SIDES OF THE LOT FROM 7.5 FEET TO 6.5 FEET.

**NOTE**

SECTION 107.D.5 OF THE ZONING REGULATIONS REQUIRES THE FOLLOWING MINIMUM DISTANCES BETWEEN SINGLE-FAMILY ATTACHED BUILDINGS OR BETWEEN SINGLE-FAMILY ATTACHED BUILDINGS AND SINGLE-FAMILY DETACHED DWELLINGS:

FACE TO FACE:	30 FEET
FACE TO SIDE/REAR TO SIDE:	30 FEET
SIDE TO SIDE:	15 FEET
REAR TO REAR:	60 FEET





STATE OF MARYLAND  
DEPARTMENTS OF FORESTS  
AND PARKS  
TM: 25 PARCEL: 183  
L. 376 / F. 748  
9.60 AC.  
ZONED: R-20

LEGEND	
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	ADJACENT PROPERTY LINE
	CENTERLINE OF EXISTING STREAM
	FOREST CONSERVATION EASEMENT
	PRIVATE 24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 6-11
	PUBLIC SEWER, WATER, & UTILITY EASEMENT
	PRIVATE DRAINAGE & UTILITY EASEMENT
	PUBLIC DRAINAGE, TREE MAINTENANCE, & UTILITY EASEMENT
	PUBLIC WATER & UTILITY EASEMENT
	PUBLIC DRAINAGE & UTILITY EASEMENT
	PUBLIC SEWER & UTILITY EASEMENT
	PUBLIC PUMP STATION STORMWATER MANAGEMENT, SEWER, WATER, & UTILITY EASEMENT
	PRIVATE SIGN EASEMENT
	EXISTING CURB AND GUTTER
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING STREET SIGN
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER LINE
	EXISTING STORM DRAIN
	EXISTING TREELINE
	EXISTING FENCE
	EXISTING STREET TREE
	EXISTING SIDEWALK

STATE OF MARYLAND  
DEPARTMENTS OF FORESTS  
AND PARKS  
TM: 25 PARCEL: 332  
L. 384 / F. 432  
ZONED: R-ED

FOREST/CONSERVATION  
EASEMENT #1:  
RETENTION: 9.84 AC.  
PLAT # 22159-22167

OPEN SPACE LOT 68  
886,679 SF (20.3553 AC.)  
TO BE DEDICATED TO HOWARD COUNTY  
DEPARTMENT OF RECREATION AND PARK

NON-BUILDABLE  
BULK PARCEL G  
2.54 AC.

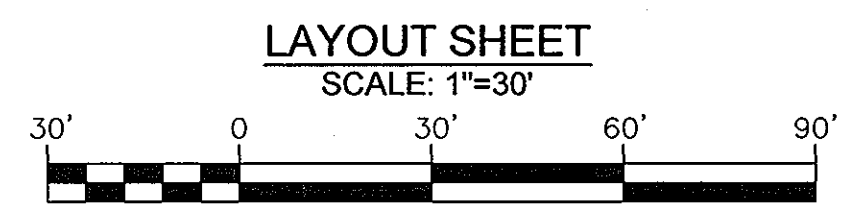
NON-BUILDABLE  
BULK PARCEL H  
1.00 AC.

NON-BUILDABLE  
BULK PARCEL G  
2.54 AC.

OPEN SPACE  
LOT 30  
TO BE  
OWNED AND  
MAINTAINED BY  
THE HOA  
77,398 SF.  
(1.7759 AC.)

SWM FACILITY #1  
HAZARD CLASS 'A'  
SWM FACILITY  
TO BE OWNED BY HOA  
& JOINTLY MAINTAINED BY  
HOA & HOWARD COUNTY

NOTE  
ALL STREET TREES FOR THIS PROJECT  
WERE PROVIDED UNDER F-09-021



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
	DATE: 1/25/12
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
	DATE: 1/25/12
CHIEF, DIVISION OF LAND DEVELOPMENT	
	DATE: 1/25/12
DIRECTOR	

NO.	REVISION	DATE

**SITE DEVELOPMENT PLAN  
LAYOUT SHEET  
AUTUMN RIVER - PART ONE OF PHASE II**  
LOTS 5-14, 36-43, 45-67  
OPEN SPACE LOTS 30, 37, 44, 68, & 110  
NON-BUILDABLE PARCEL C &  
NON-BUILDABLE BULK PARCELS D-H  
RESUBDIVISION OF EXISTING LOT 57 & NON-BUILDABLE BULK PARCELS A, B, & E  
DPZ REF'S: S-98-16, P-99-16, F-00-131 F-01-08, ZONING: R-ED  
P.B. 325, P.B. 148, PLAT# 15794 & 15795 PLAT# 14513-14515, PARCELS 172 & 279  
P-07-016, P-08-006, WP-09-083, F-09-021, F-10-067, HOWARD COUNTY, MARYLAND  
WP-07-095, WP-10-028, WP-12-034  
2ND ELECTION DISTRICT, TM 25, GRID 14 & 21

**ROBERT H. VOGEL  
ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET TEL: 410.461.7666  
ELLICOTT CITY, MD 21043 FAX: 410.461.8961

	DESIGN BY: RHV	<b>PROFESSIONAL CERTIFICATE</b> 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. 31373, EXPIRATION DATE: 1-21-2013.
	DRAWN BY: JMR	
	CHECKED BY: JBS	
	DATE: MARCH 2012	
	SCALE: AS SHOWN	
W.O. NO.: 04-145	4 SHEET OF 10	

**BUILDER**  
NV HOMES  
9720 PATUXENT WOODS DRIVE  
COLUMBIA, MARYLAND 21046  
796-0908

**OWNER**  
AUTUMN RIVER CORPORATION  
4100 COLLEGE AVE.  
ELLICOTT CITY MD 21043  
(410) 465-3500

**DEVELOPER**  
AUTUMN DEVELOPMENT CORPORATION  
C/O LAND DESIGN & DEVELOPMENT, INC.  
5300 DORSEY HALL DR STE 102  
ELLICOTT CITY MD 21042-7819  
ATTN: MR. DONALD R. REUWER  
(443) 367-0422

MATCHLINE - SEE SHEET 2  
MATCHLINE - SEE SHEET 2  
MATCHLINE - SEE SHEET 3

MATCHLINE - SEE SHEET 2

MATCHLINE - SEE SHEET 2



NOTES: (FOR LOT 7)  
 1. REFERENCE AA-13-010, APPROVED NOVEMBER 1, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE REAR PROPERTY LINE FROM 25 FEET TO 23.08 FEET.  
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NOTES: (FOR LOT 8)  
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**LEGEND**

[Symbol]	PROPERTY LINE	[Symbol]	PRIVATE SIGN EASEMENT
[Symbol]	RIGHT-OF-WAY LINE	[Symbol]	EXISTING CURB AND CENTERLINE OF EXISTING STREAM
[Symbol]	ADJACENT PROPERTY LINE	[Symbol]	EXISTING UTILITY POLE
[Symbol]	CENTERLINE OF EXISTING STREAM	[Symbol]	EXISTING LIGHT POLE
[Symbol]	FOREST CONSERVATION EASEMENT	[Symbol]	EXISTING STREET SIGN
[Symbol]	PRIVATE 24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 6-11	[Symbol]	EXISTING SANITARY MANHOLE
[Symbol]	PUBLIC SEWER, WATER, & UTILITY EASEMENT	[Symbol]	EXISTING SANITARY LINE
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[Symbol]	PUBLIC SEWER & UTILITY EASEMENT	[Symbol]	EXISTING FENCE
[Symbol]	PUBLIC PUMP STATION	[Symbol]	EXISTING STREET TREE
[Symbol]	EXISTING 10' CONTOUR	[Symbol]	EXISTING SIDEWALK
[Symbol]	EXISTING 2' CONTOUR	[Symbol]	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
[Symbol]	SOILS	[Symbol]	PROPOSED EROSION CONTROL MATTING
[Symbol]	PROPOSED 10' CONTOUR	[Symbol]	PROPOSED EROSION CONTROL MATTING
[Symbol]	PROPOSED 2' CONTOUR	[Symbol]	MODERATE SLOPES (15% - 24.99%)
[Symbol]	PROPOSED SPOT ELEVATION	[Symbol]	STEEP SLOPE (>25%)
[Symbol]	PROPOSED SILT FENCE	[Symbol]	
[Symbol]	PROPOSED LIMIT OF DISTURBANCE	[Symbol]	

NOTE: NO GRAVITY SEWER FOR EASEMENT OF LOT 11

NOTE: STOCKPILING WILL BE PERMITTED ONLY ON LOTS.

NOTE: A DOUBLE ROW OF "SUPER" SILT FENCE IS TO BE INSTALLED FOR LOTS 7-12 AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

**SOILS LEGEND**

SYMBOL	NAME / DESCRIPTION	GROUP
Adb2	ALDINO SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	D
AdC2	ALDINO SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	D
BrB2	BRANDYWINE LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
BrD2	BRANDYWINE LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED	C
BrC3	BRANDYWINE LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	C
ChB2	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
LeB2	LEGORE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
LgC3	LEGORE SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	C
MfE	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MfD	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
Msf	MONTALTO AND RELAY VERY STONY SILT LOAMS, 3 TO 25 PERCENT SLOPES	B
NcC2	NESHAMINY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
ReC2	WATCHUNG SILT LOAM, 3 TO 8 PERCENT SLOPES	B
St	STONY LAND	B
Wob	WATCHUNG SILT LOAM, 3 TO 8 PERCENT SLOPES	D

**BUILDER**  
 NV HOMES  
 9720 PATUXENT WOODS DRIVE  
 COLUMBIA, MARYLAND 21046  
 796-0908

**OWNER**  
 AUTUMN RIVER CORPORATION  
 4100 COLLEGE AVE.  
 5300 DORSEY HALL DR STE 102  
 ELLICOTT CITY MD 21042-3500  
 (410) 465-3500

**DEVELOPER**  
 AUTUMN DEVELOPMENT CORPORATION  
 C/O LAND DESIGN & DEVELOPMENT, INC.  
 5300 DORSEY HALL DR STE 102  
 ELLICOTT CITY MD 21042-7819  
 ATTN: MR. DONALD R. REUWER  
 (443) 367-0422

NO.	REVISION	DATE
1	REVISE GRADING IN VARIOUS LOTS	2/14/13
2	REVISE HOUSE SIZE FOR LOT 5 AND 11	7/9/13
3	REVISE GRADING AND HOUSE LAYOUTS FOR LOTS 7 AND 8	12/18/13
4	REVISE GRADING AND HOUSE LAYOUT FOR LOTS 99 AND 66	03/10/14
5	REVISE GRADING AND HOUSE LAYOUT FOR LOT 67	04/11/14
6	REVISE HOUSE LAYOUT & GRADING LOT 11	06/16/14

**SITE DEVELOPMENT PLAN**  
**SOILS, GRADING, EROSION, AND SEDIMENT CONTROL PLAN**  
**AUTUMN RIVER - PART ONE OF PHASE II**

OPEN SPACE LOTS 30, 37, 44, 68, & 110  
 NON-BUILDABLE PARCEL C & D  
 NON-BUILDABLE BULK PARCELS A, B, & E

RESUBDIVISION OF EXISTING LOT 57 & NON-BUILDABLE BULK PARCELS A, B, & E

DPZ REF: S-99-16, P-99-16, F-00-131 F-01-06  
 P-8, 325, P-8, 148, P-15704 & 15708 P-15713-15715  
 P-07-016, P-09-006, P-09-063, F-09-021, F-10-067,  
 WP-07-095, WP-10-028, WP-12-034  
 2ND ELECTION DISTRICT, TM 25, GRD 14 & 21

ZONING: R-ED  
 PARCELS 172 & 279  
 HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961

**PROFESSIONAL CERTIFICATE**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31873 EXPIRATION DATE: 1-21-2013

DESIGN BY: RHW  
 DRAWN BY: JMR  
 CHECKED BY: JBS  
 DATE: MARCH 2012  
 SCALE: AS SHOWN  
 W.O. NO.: 04-145

5 SHEET OF 10

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.

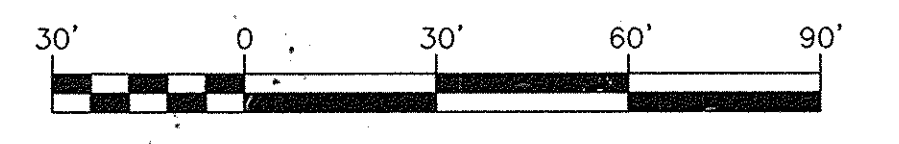
BY THE DEVELOPER:  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING 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.

SIGNATURE OF ENGINEER: [Signature] DATE: 3/7/13

SIGNATURE OF DEVELOPER: [Signature] DATE: 3/7/13

**SOILS, GRADING, EROSION, AND SEDIMENT CONTROL PLAN**  
 SCALE: 1"=30'

APPROVED PLAN REVISION  
 SCD [Signature] 3/7/13  
 NRCS [Signature] 3/7/13



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 3/13/13

DATE: 3/13/13

DATE: 3-13-13

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

DATE: [Signature] DATE: [Signature]





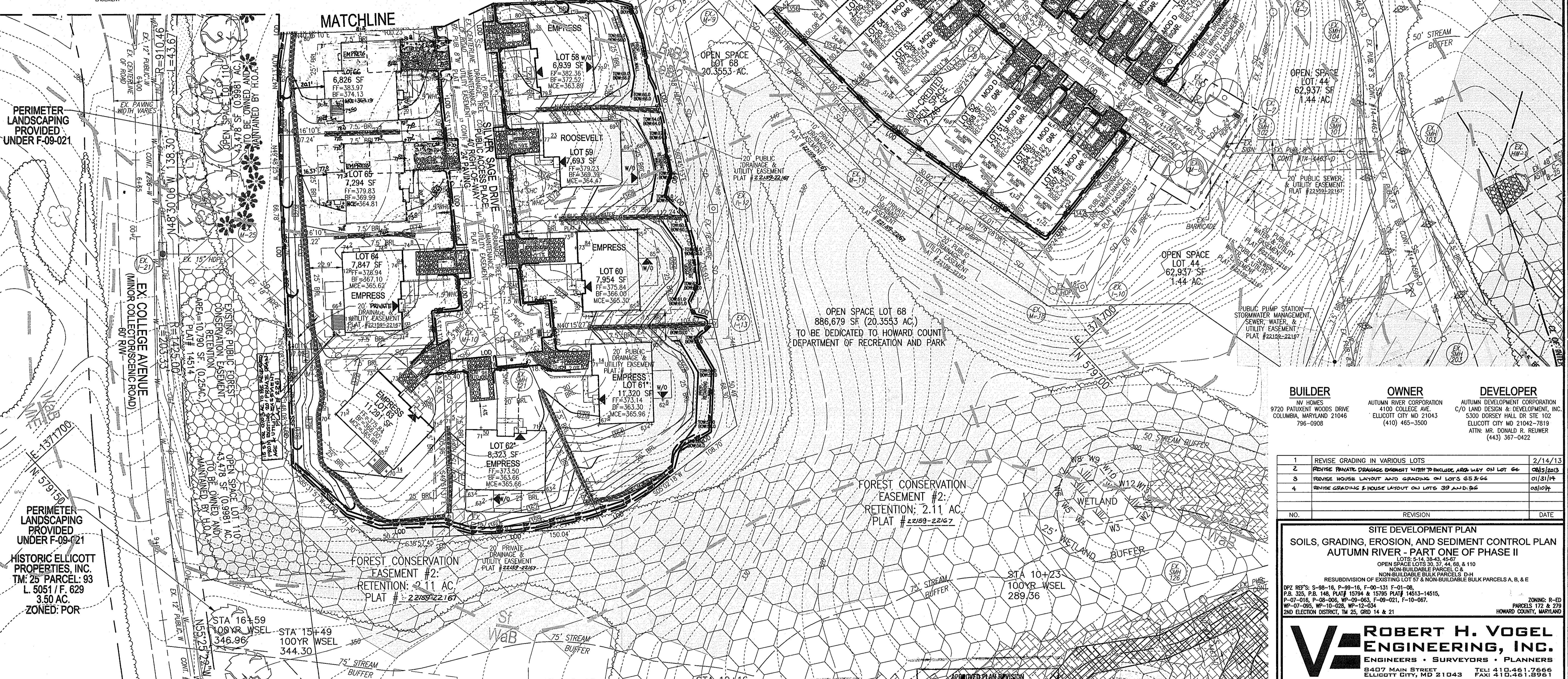
**LEGEND**

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- CENTERLINE OF EXISTING STREAM
- FOREST CONSERVATION EASEMENT
- PRIVATE 24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 6-11
- PUBLIC SEWER, WATER, & UTILITY EASEMENT
- PRIVATE DRAINAGE & UTILITY EASEMENT
- PUBLIC DRAINAGE, TREE MAINTENANCE, & UTILITY EASEMENT
- PUBLIC WATER & UTILITY EASEMENT
- PUBLIC DRAINAGE & UTILITY EASEMENT
- PUBLIC SEWER & UTILITY EASEMENT
- PUBLIC PUMP STATION STORMWATER MANAGEMENT, SEWER, WATER, & UTILITY EASEMENT
- PRIVATE SIGN EASEMENT
- EXISTING CURB AND GUTTER
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING STREET SIGN
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY LINE
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING STREET TREE
- EXISTING SIDEWALK
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- SOILS
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SILT FENCE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED EROSION CONTROL MATTING
- MODERATE SLOPES (15% - 24.99%)
- STEEP SLOPE (>25%)
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE

NOTES: (FOR LOT 65)  
 1. REFERENCE AA-13-016, APPROVED DECEMBER 6, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE SIDE PROPERTY LINE ON THE NORTHWEST & SOUTHWEST SIDES OF THE LOT FROM 7.5 FEET TO 6.6 FEET.

NOTES: (FOR LOT 66)  
 1. REFERENCE AA-13-015, APPROVED DECEMBER 6, 2013, TO REDUCE THE REQUIRED SETBACK FROM THE SIDE PROPERTY LINE ON THE NORTHWEST & SOUTHWEST SIDES OF THE LOT FROM 7.5 FEET TO 6.6 FEET.

NOTE: STOCKPILING WILL BE PERMITTED ONLY ON LOTS.  
 NOTE: A DOUBLE ROW OF "SUPER" SILT FENCE IS TO BE INSTALLED FOR LOTS 61-63 AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.



PERIMETER LANDSCAPING PROVIDED UNDER F-09-021

PERIMETER LANDSCAPING PROVIDED UNDER F-09-021

HISTORIC ELLICOTT PROPERTIES, INC.  
 TM: 25' PARCEL: 93  
 L. 5051 / F. 629  
 3.50 AC.  
 ZONED: POR

OPEN SPACE LOT 68  
 886,679 SF (20,355.3 AC.)  
 TO BE DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARK

FOREST CONSERVATION EASEMENT #2: RETENTION: 2.11 AC. PLAT # 22159-22167

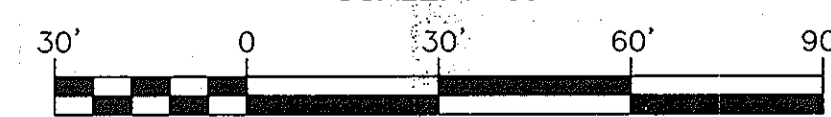
FOREST CONSERVATION EASEMENT #2: RETENTION: 2.11 AC. PLAT # 22159-22167

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 3/12/13  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 [Signature] 3/12/13  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 [Signature] 3-13-13  
 DIRECTOR

BY THE DEVELOPER:  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN 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.  
 [Signature] 3/13  
 SIGNATURE OF DEVELOPER DATE

**SOILS, GRADING, EROSION, AND SEDIMENT CONTROL PLAN**

SCALE: 1"=30'



APPROVED PLAN REVISION  
 [Signature] 3/13  
 [Signature] Technical Review Date  
 HOWARD S.C.D. 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.  
 [Signature] 3/13  
 SIGNATURE OF ENGINEER DATE

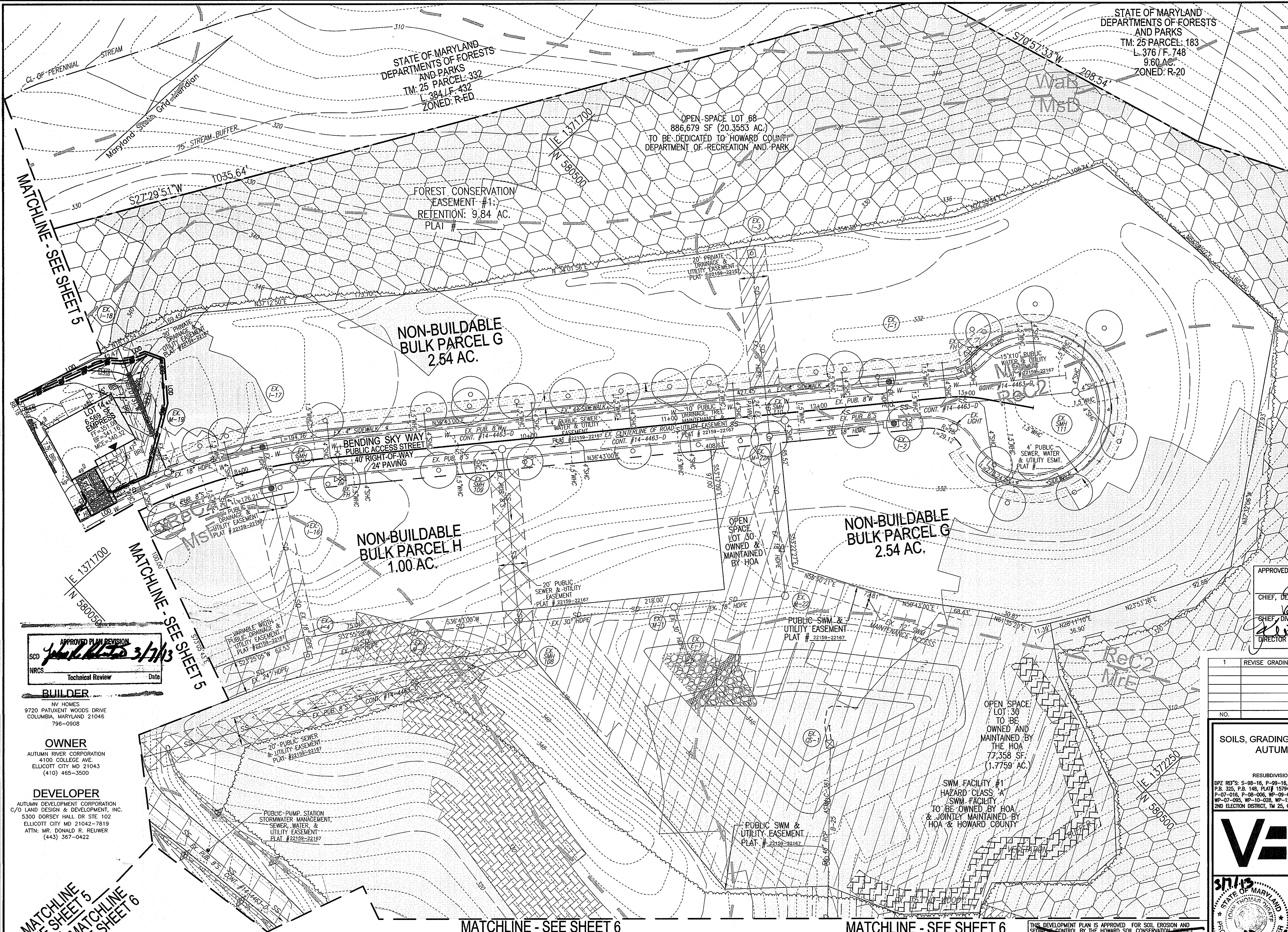
NO.	REVISION	DATE
1	REVISE GRADING IN VARIOUS LOTS	2/14/13
2	REVISE PRIVATE DRAINAGE EASEMENT WITH TO INCLUDE AREA WAY ON LOT 64	06/15/2013
3	REVISE HOUSE LAYOUT AND GRADING ON LOTS 65 & 66	01/31/14
4	REVISE GRADING & HOUSE LAYOUT ON LOTS 39 AND 40	05/10/14

**SITE DEVELOPMENT PLAN**  
**SOILS, GRADING, EROSION, AND SEDIMENT CONTROL PLAN**  
**AUTUMN RIVER - PART ONE OF PHASE II**  
 OPEN SPACE LOTS 30, 37, 44, 68, & 110  
 NON-BUILDABLE PARCELS C & H  
 NON-BUILDABLE BULK PARCELS D-H  
 RESUBDIVISION OF EXISTING LOT 57 & NON-BUILDABLE BULK PARCELS A, B, & E  
 DPZ REF: S-98-16, P-99-16, F-00-131 F-01-08,  
 P-325, P-2, 148, PLAT 15794 & 15795 PLAT 14513-14515,  
 P-07-016, P-08-006, WP-09-063, F-09-021, F-10-067,  
 WP-07-095, WP-10-025, WP-12-034  
 2ND ELECTION DISTRICT, TM 25, GRID 14 & 21  
 ZONING: R-ED  
 PARCELS 172 & 279  
 HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 TEL: 410.461.7666  
 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31737 EXPIRATION DATE: 1-21-2013  
 DESIGN-BY: RHV  
 DRAWN BY: JMR  
 CHECKED BY: JBS  
 DATE: MARCH 2012  
 SCALE: AS SHOWN  
 W.O. NO.: 04-145  
 6 SHEET OF 10





STATE OF MARYLAND  
DEPARTMENTS OF FORESTS  
AND PARKS  
TM: 25 PARCEL: 183  
L: 376 / F: 748  
9.60 AC  
ZONED: R-20

**LEGEND**

	FOREST CONSERVATION EASEMENT
	PRIVATE 24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 6-11
	PUBLIC SEWER, WATER, & UTILITY EASEMENT
	PRIVATE DRAINAGE & UTILITY EASEMENT
	PUBLIC DRAINAGE, TREE MAINTENANCE, & UTILITY EASEMENT
	PUBLIC WATER & UTILITY EASEMENT
	PUBLIC DRAINAGE & UTILITY EASEMENT
	PUBLIC SEWER & UTILITY EASEMENT
	PUBLIC PUMP STATION STORMWATER MANAGEMENT, SEWER, WATER, & UTILITY EASEMENT
	PRIVATE SIGN EASEMENT
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	SOILS
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED SILT FENCE
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED EROSION CONTROL MATTING
	MODERATE SLOPES (15% - 24.99%)
	STEEP SLOPE (>25%)
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE

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.

*[Signature]* 3/7/13  
SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:  
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN 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 PERSONNEL ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 3/7/13  
SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 3/12/13  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 3/12/13  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 3-13-13  
DIRECTOR DATE

NO.	REVISION	DATE
1	REVISE GRADING OF LOT 14	2/14/13

**SITE DEVELOPMENT PLAN**  
**SOILS, GRADING, EROSION, AND SEDIMENT CONTROL PLAN**  
**AUTUMN RIVER - PART ONE OF PHASE II**

LOTS 5-14, 38-43, 45-67  
NON-BUILDABLE BULK PARCELS A, B & E  
OPEN SPACE LOTS 30, 37, 44, 68, & 110  
NON-BUILDABLE BULK PARCELS D-H  
RESUBDIVISION OF EXISTING LOT 57 & NON-BUILDABLE BULK PARCELS A, B & E

DPZ REF: S-98-16, P-99-16, F-00-131 F-01-08, P.B. 325, P.B. 148, PLAT# 15794 & 15795 PLAT# 14513-14515, P-07-016, P-08-006, WP-09-063, F-09-021, F-10-067, WP-07-005, WP-10-028, WP-12-002, P-09-021, F-10-067.

ZONING: R-20 PARCELS 172 & 278 HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
840 MAIN STREET, SUITE 200  
ELLCOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961

DESIGN BY: RHV  
DRAWN BY: JMR  
CHECKED BY: JRS  
DATE: MARCH 2012  
SCALE: AS SHOWN  
W.O. NO.: 04-145

PROFESSIONAL CERTIFICATE  
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. 31372 EXPIRATION DATE: 1-21-2015

7 SHEET OF 10

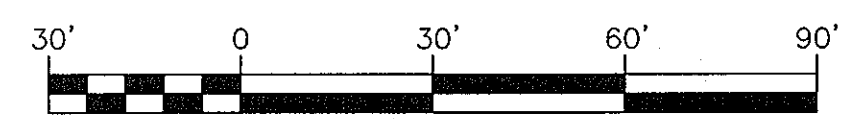
APPROVED PLAN REVISION  
SCD  
NRCS  
Technical Review  
Date  
3/7/13

**BUILDER**  
NW HOMES  
9720 PATUKENT WOODS DRIVE  
COLUMBIA, MARYLAND 21046  
796-0908

**OWNER**  
AUTUMN RIVER CORPORATION  
4100 COLLEGE AVE  
ELLCOTT CITY MD 21043  
(410) 465-3500

**DEVELOPER**  
AUTUMN DEVELOPMENT CORPORATION  
C/O LAND DESIGN & DEVELOPMENT, INC.  
5300 DORSEY HALL DR. STE. 102  
ELLCOTT CITY MD 21042-7819  
ATTN: MR. DONALD R. REUWER  
(443) 367-0422

NOTE: STOCKPILING WILL BE PERMITTED ONLY ON LOTS.



SOILS, GRADING, EROSION, AND SEDIMENT CONTROL PLAN  
SCALE: 1"=30'

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

HOWARD S.C.D. DATE

MATCHLINE - SEE SHEET 5  
MATCHLINE - SEE SHEET 5  
MATCHLINE - SEE SHEET 6

MATCHLINE - SEE SHEET 6

MATCHLINE - SEE SHEET 6



**HOWARD SOIL CONSERVATION DISTRICT  
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 MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- 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 MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR 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 (SECTION G) FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING. 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 HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE	37.48 ACRES
AREA DISTURBED	5.27 ACRES
AREA TO BE ROOFED OR PAVED	2.13 ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.14 ACRES
TOTAL CUT	8,300 CU. YDS.*
TOTAL FILL	8,300 CU. YDS.*

 OFFSITE WASTE/BORROW AREA LOCATION ON LOTS
- 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 CONTROL, 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.

\* ESTIMATE ONLY; CONTRACTOR SHALL VERIFY QUANTITIES TO HIS OWN SATISFACTION. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, WITH AN APPROVED AND ACTIVE GRADING PERMIT.

**HOWARD SOIL CONSERVATION DISTRICT  
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, DISKING 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./100 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 AT THE 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 APPLY 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./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 (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY:
- OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.
- OPTION (2) USE SOD.
- OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
- MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**HOWARD SOIL CONSERVATION DISTRICT  
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, DISKING 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 PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (12 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.
- MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.
- REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**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.

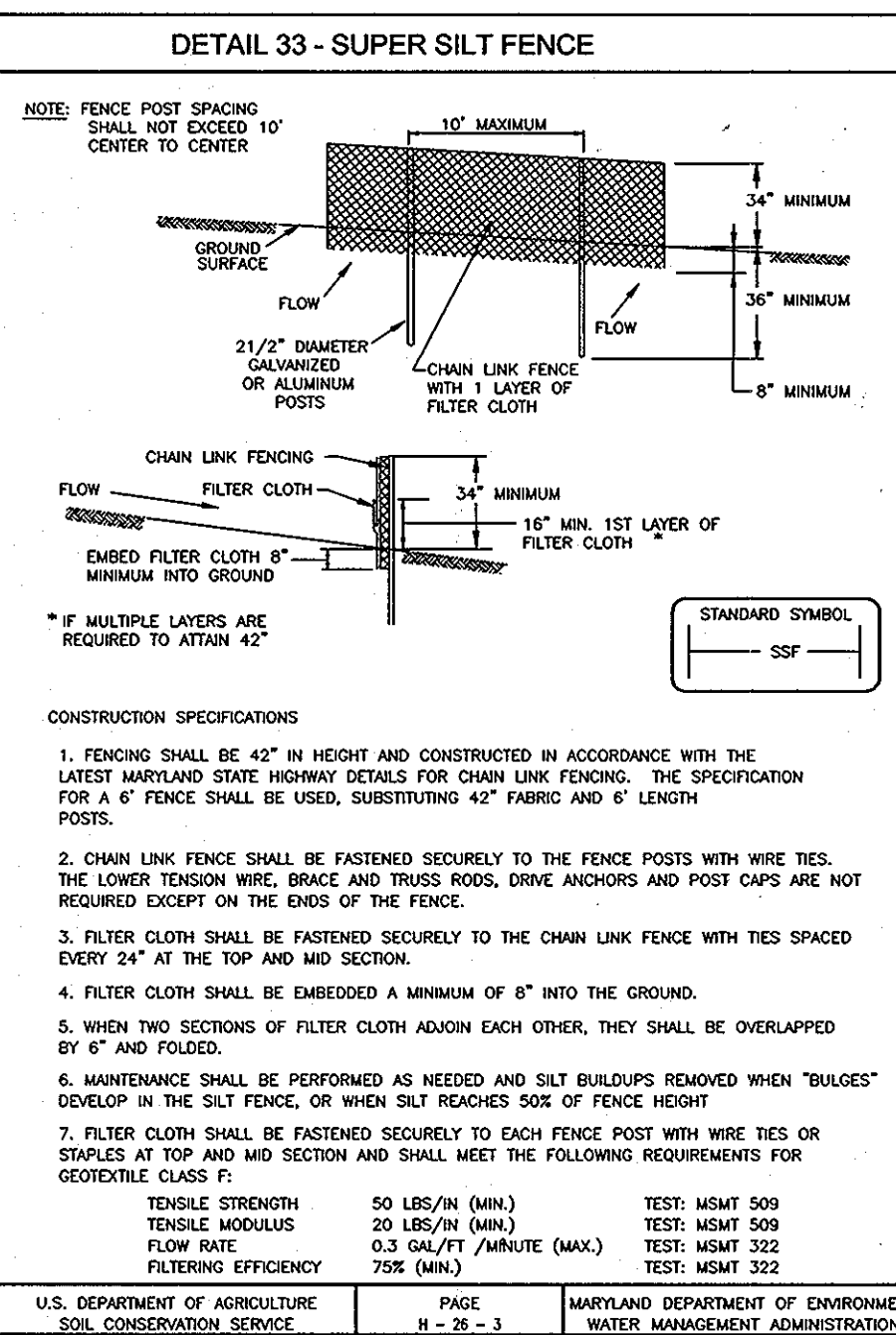
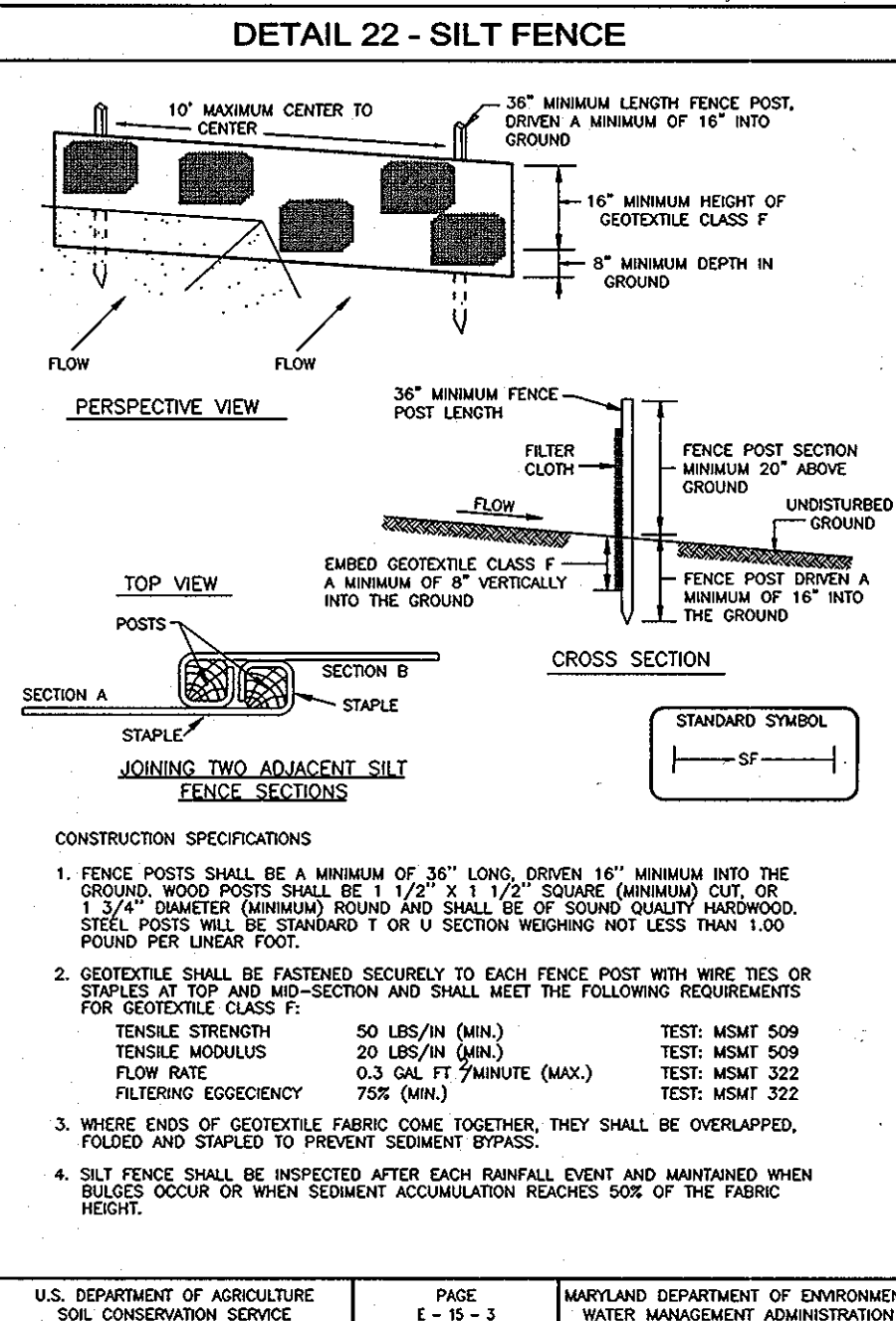
**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- 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 EXPERIMENTAL 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, SLUG, 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, QUACKGRASS, JOHNSONGRASS, MUSTEGGE, POISON WY, 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 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 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 PHYTO-TOXIC MATERIALS.
  - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALSEIT 4" - 8" HIGHER IN ELEVATION.
  - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS SHALL BE SPREAD IN SUCH A MANNER THAT SEEDING OR SOILING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
  - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
  - COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
    - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
    - COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
    - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
  - COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB./1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

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

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN AND IN ACCORDANCE WITH DETAILS. (5 DAYS)
- AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEED, ROUGH GRADE SITE. (2 WEEKS)
- INSPECT SEDIMENT CONTROL MEASURES FROM F-09-021 TO REMAIN PER SOD. PERFORM CLEAN OUT AND GENERAL MAINTENANCE ON THE EX-SWIM FACILITIES REPAIR ANY SEDIMENT CONTROL MEASURES AS NEEDED. (5 DAYS)
- CONSTRUCT HOUSES. THE FIRST FLOOR ELEVATIONS CANNOT BE MORE THAN 1' HIGHER OR 0.2' LOWER THAN THE ELEVATIONS SHOWN ON THIS PLAN. (6 MONTHS)
- UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES. (2 DAYS)



**NOTES**

DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN HEREON.

STONE CHECK DAMS SHALL BE INSTALLED BETWEEN LOTS 10-12 & AROUND LOT 39 AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH:

- 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
- 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

1/12/12  
12/11/12  
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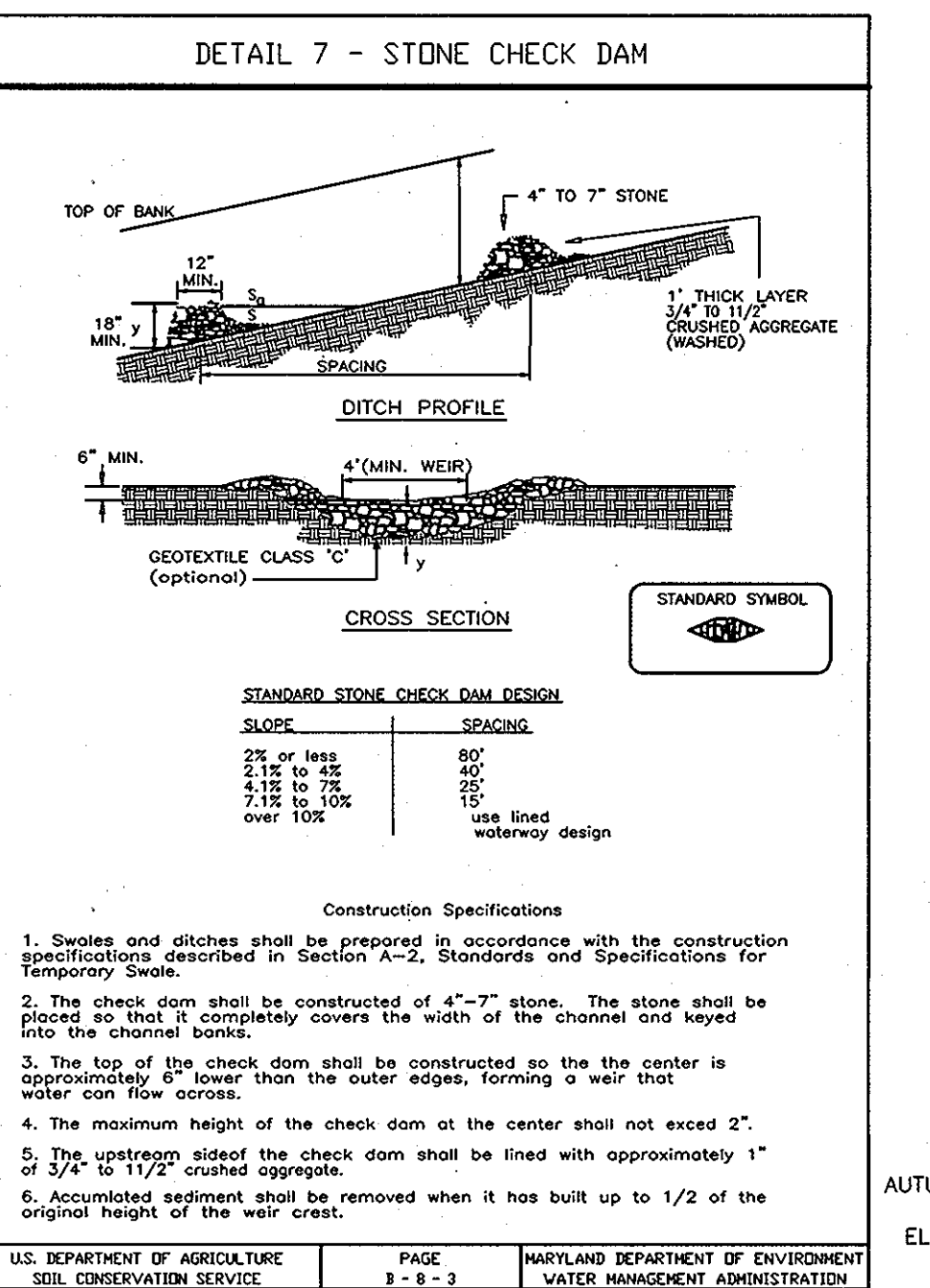
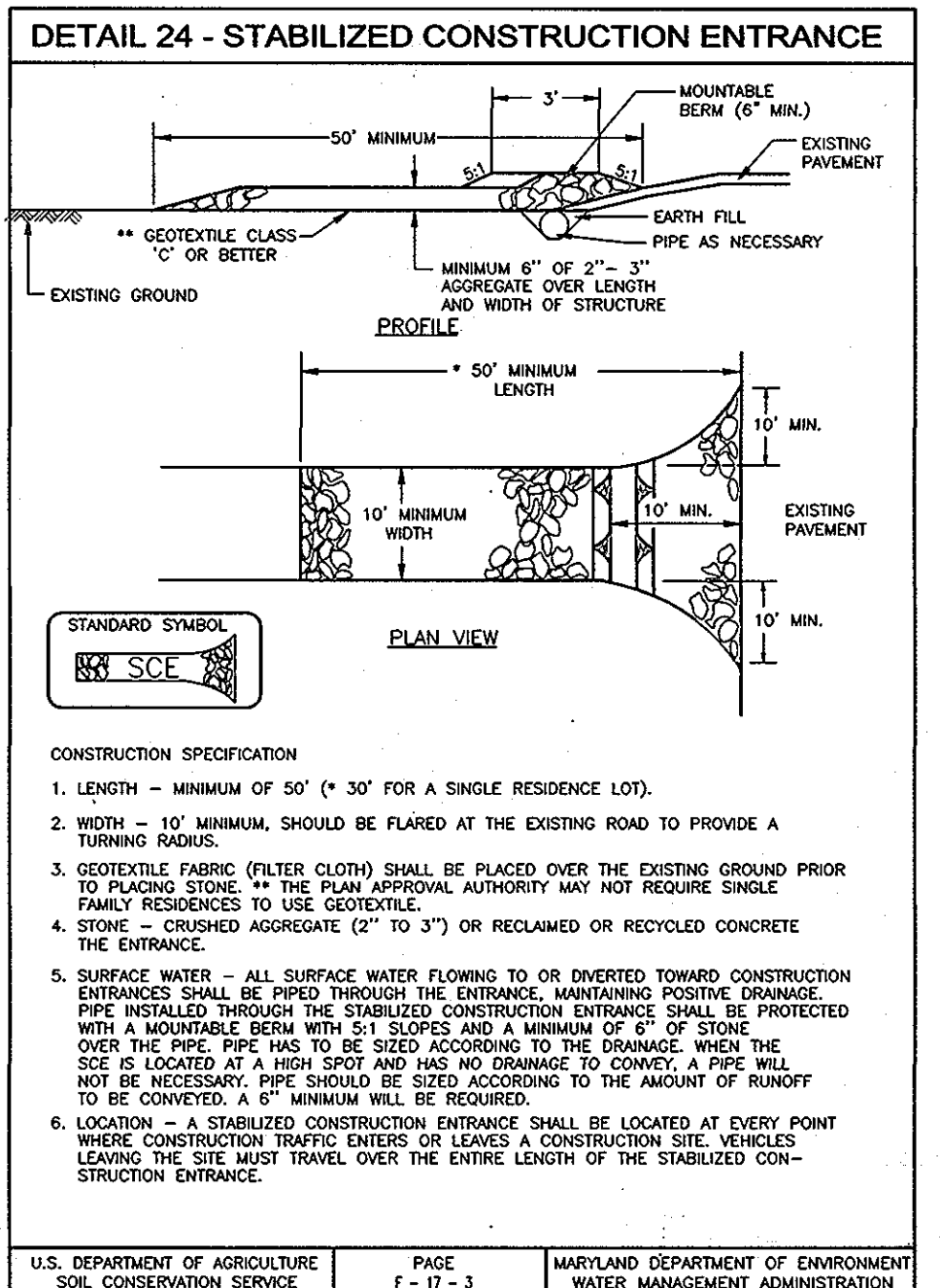
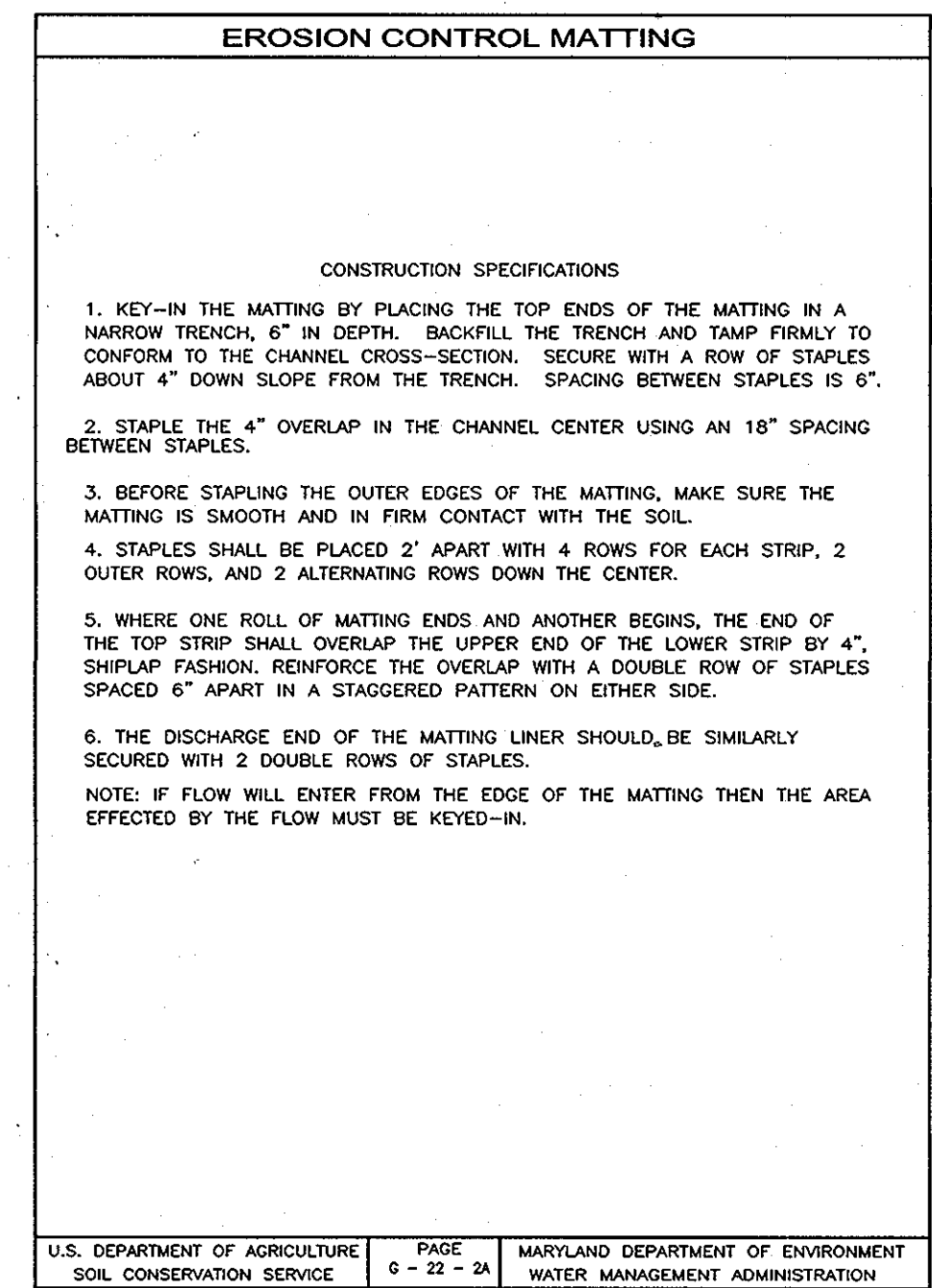
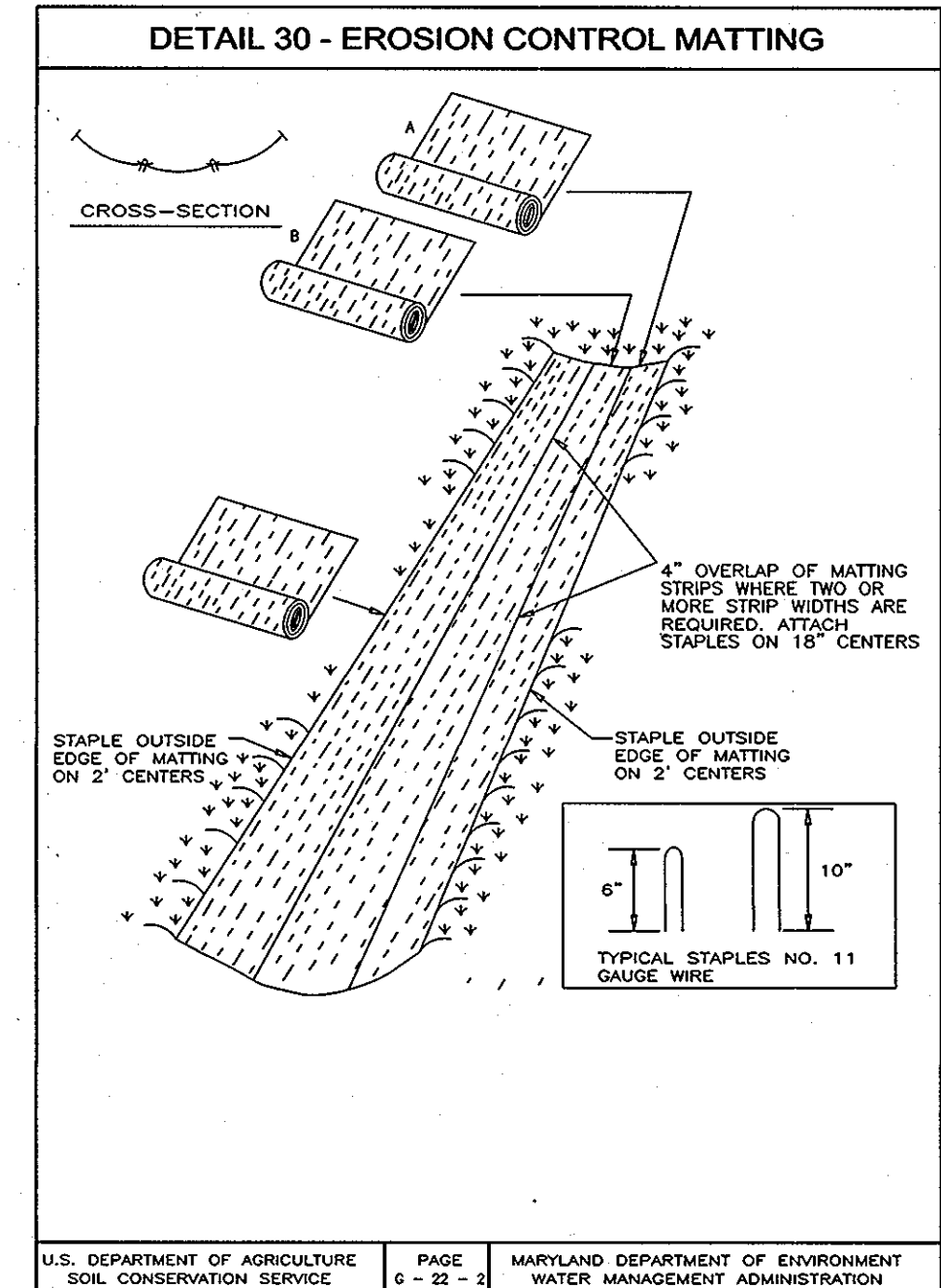
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**30.0 DUST CONTROL**

**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 MOVEMENTS WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

**SPECIFICATIONS**

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 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 SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD 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.

**BUILDER**  
INV HOMES  
9720 NATUNWOODS DRIVE  
COLUMBIA, MARYLAND 21046  
796-0908

**OWNER**  
AUTUMN RIVER CORPORATION  
1100 COLLEGE AVE.  
ELICOTT CITY MD 21043  
(410) 465-3500

**DEVELOPER**  
AUTUMN DEVELOPMENT CORPORATION  
C/O LAND DESIGN & DEVELOPMENT, INC.  
5300 DORSEY HALL DR STE 102  
ELICOTT CITY MD 21042-7819  
ATTN: MR. DONALD R. REUWER  
(443) 367-0422

NO.	REVISION	DATE

**SITE DEVELOPMENT PLAN**  
**GRADING, EROSION, AND SEDIMENT CONTROL NOTES AND DETAILS**  
**AUTUMN RIVER - PART ONE OF PHASE II**

LOTS: 5-14, 38-43, 45-47  
OPEN SPACE LOTS 30, 37, 44, 68, & 110  
NON-BUILDABLE BULK PARCELS D-H  
NON-BUILDABLE BULK PARCELS A, B, & E

RESUBDIVISION OF EXISTING LOT 57 & NON-BUILDABLE BULK PARCELS A, B, & E

DPZ REF: S-08-16, P-09-16, F-00-131 F-01-08  
P.B. 325, P.B. 148, PLAT 15794 & 15795 PLAT 14513-14515,  
P-07-016, P-08-006, W-09-063, F-09-021, F-10-067,  
W-07-025, W-08-028, W-12-054

ZONING: R-ED  
PARCELS 172 & 278  
HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET  
ELICOTT CITY, MD 21043  
TEL: 410.461.7666  
FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31373  
EXPIRATION DATE: 1-21-2013

DESIGN BY: RHY  
DRAWN BY: JMR  
CHECKED BY: JBS  
DATE: MARCH 2012  
SCALE: AS SHOWN  
W.O. NO.: 04-145

8 SHEET OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

1/12/12  
12/11/12  
12/12/12

DATE  
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DATE

10-24-12  
10/24/12

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DATE

10/24/12  
10/24/12

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DATE

BY THE DEVELOPER:  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL WHO ARE 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.

10-24-12  
10/24/12

DATE  
DATE

10/24/12  
10/24/12

DATE  
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.

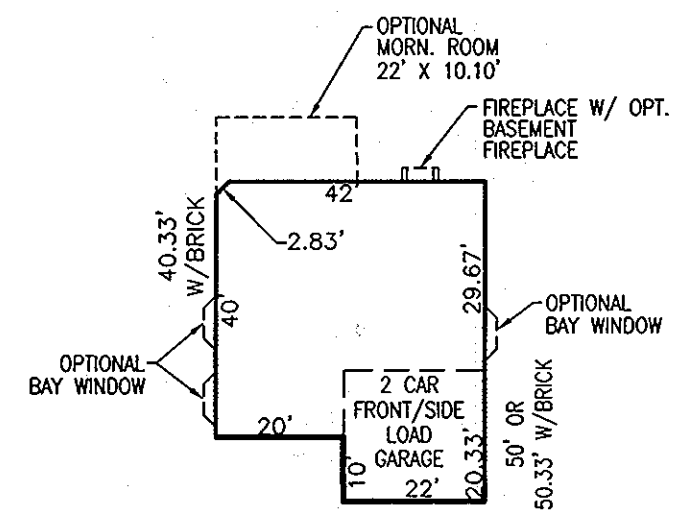
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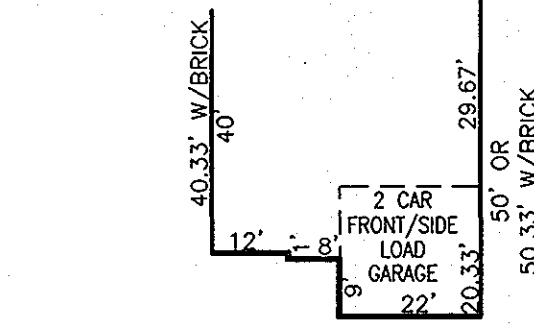
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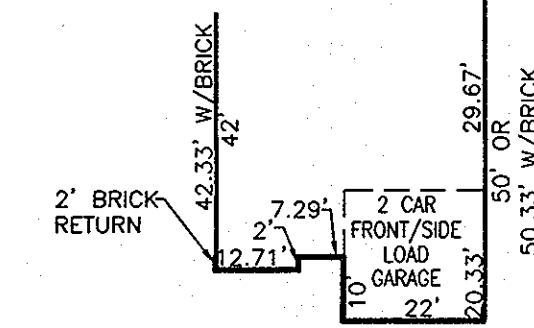




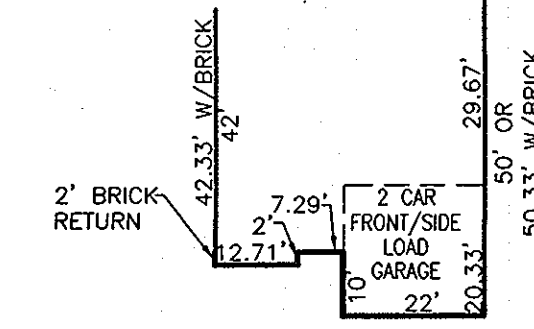
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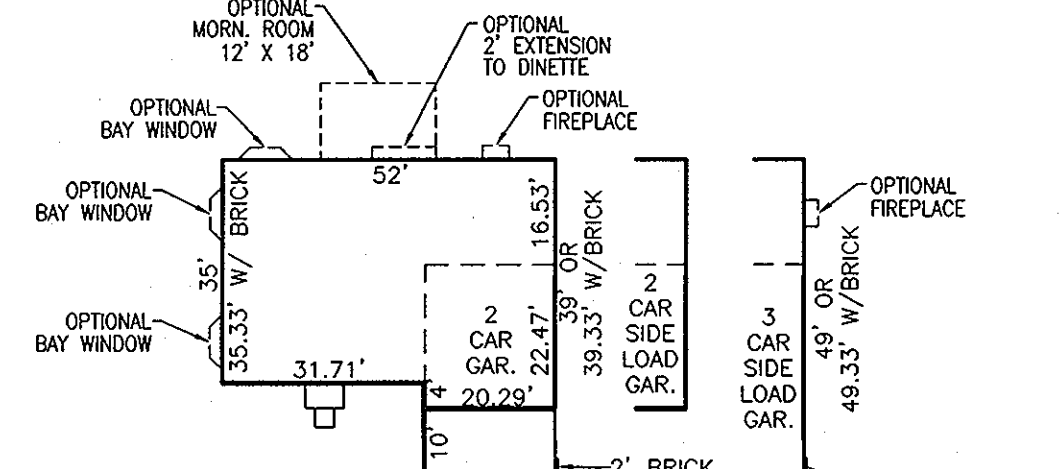
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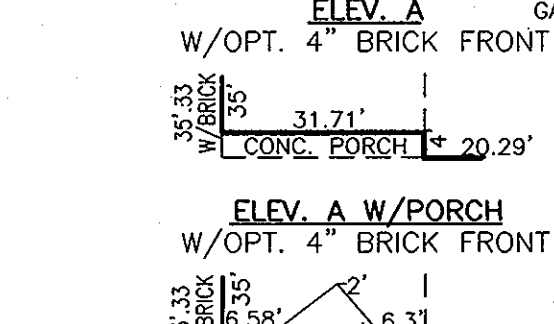
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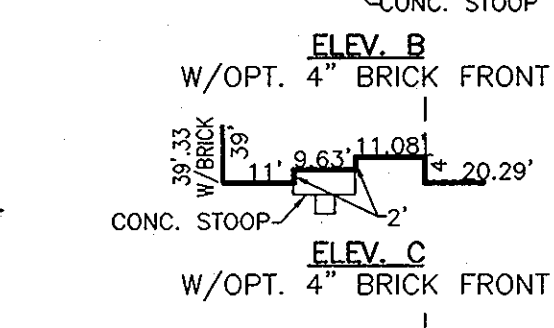
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W/OPT. 4" BRICK FRONT  
ROOSEVELT  
SCALE: 1"=30'



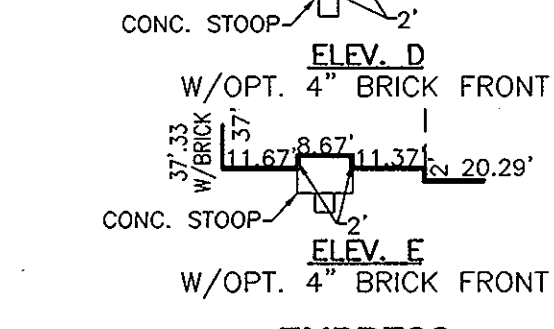
ELEV. A  
W/OPT. 4" BRICK FRONT



ELEV. A W/PORCH  
W/OPT. 4" BRICK FRONT



ELEV. B  
W/OPT. 4" BRICK FRONT



ELEV. C  
W/OPT. 4" BRICK FRONT

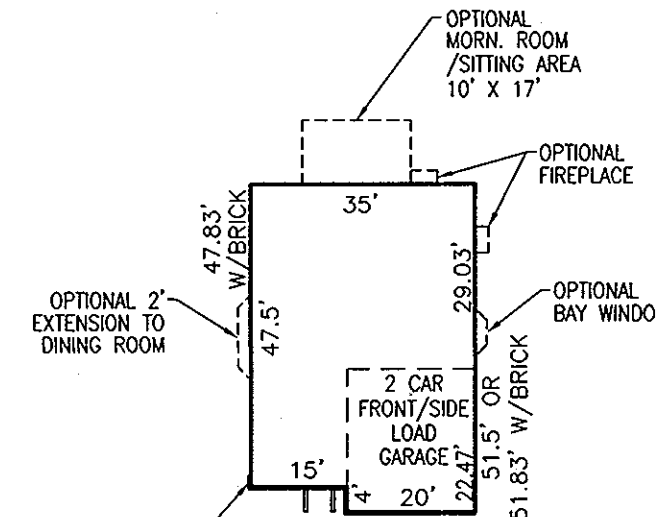


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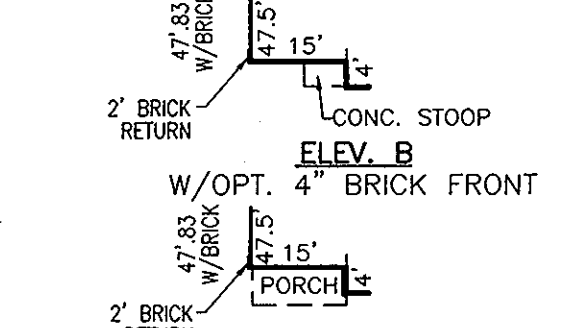


ELEV. E  
W/OPT. 4" BRICK FRONT

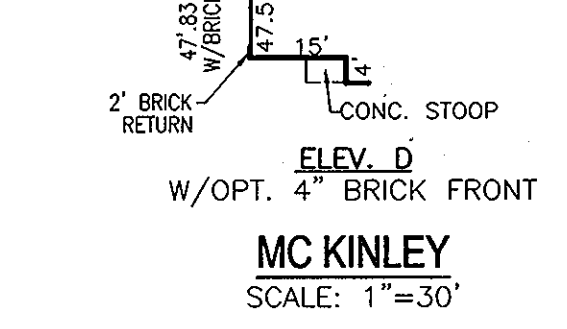
EMPRESS  
SCALE: 1"=30'



ELEV. A  
W/OPT. 4" BRICK FRONT



ELEV. B  
W/OPT. 4" BRICK FRONT

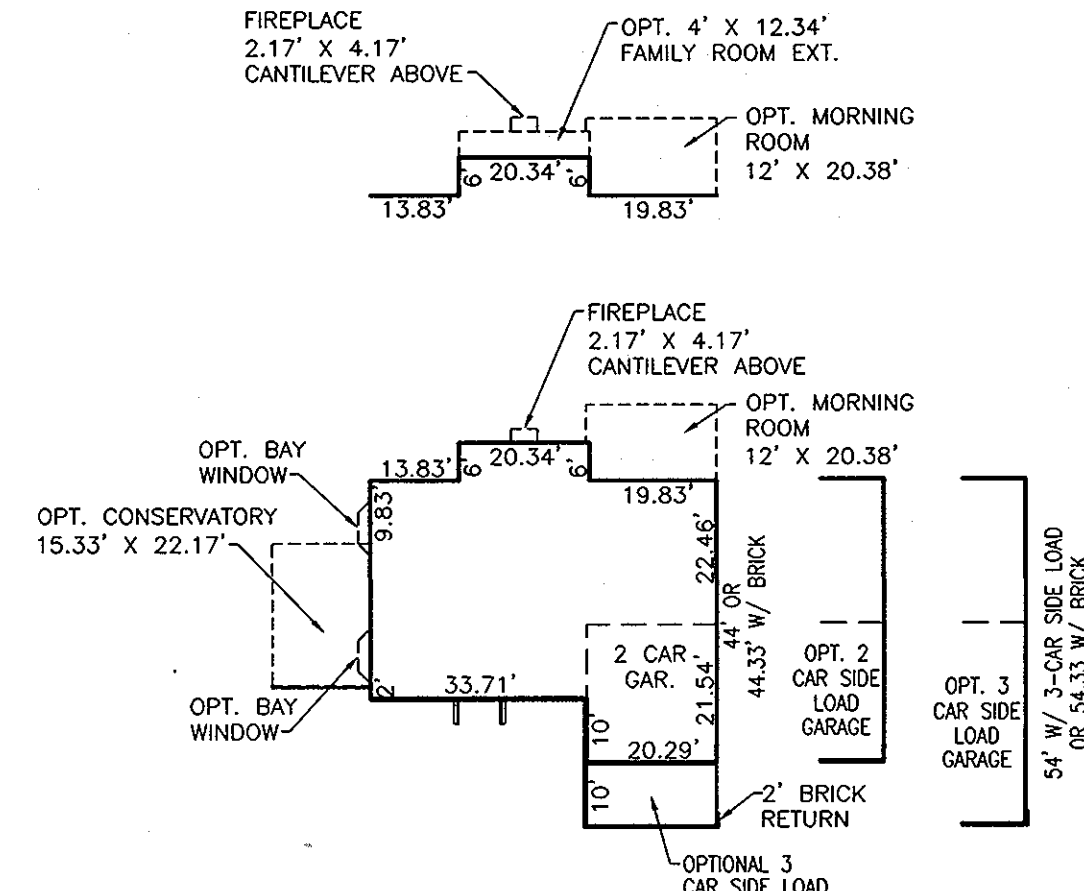


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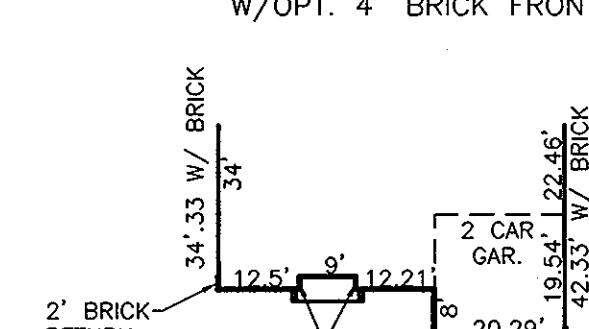


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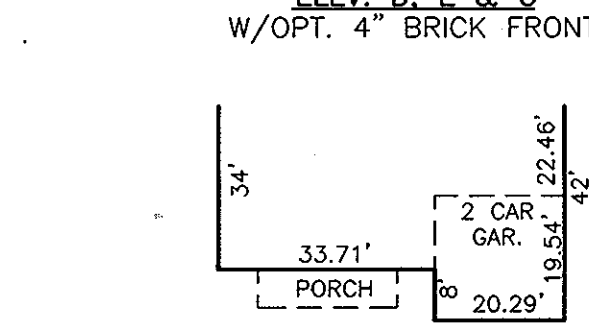
MC KINLEY  
SCALE: 1"=30'



ELEV. A, B & C  
W/OPT. 4" BRICK FRONT

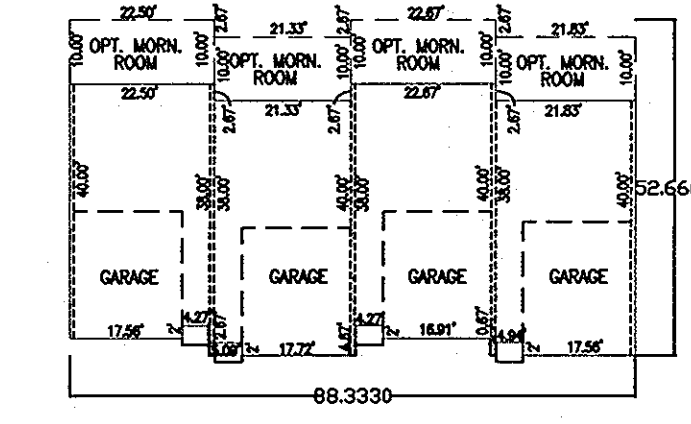


ELEV. D, E & G  
W/OPT. 4" BRICK FRONT

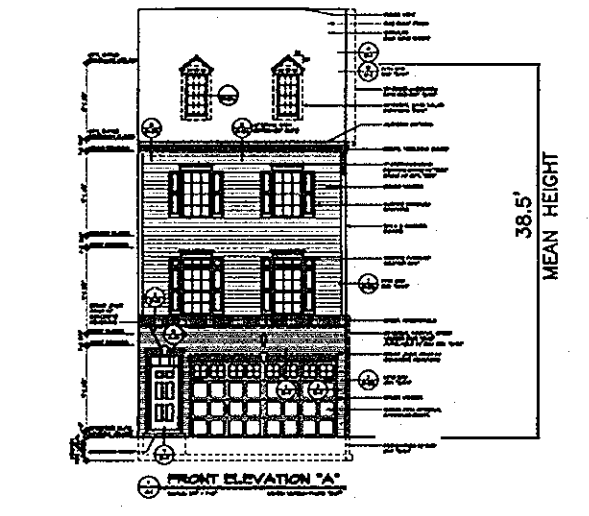


ELEV. F  
W/OPT. 4" BRICK FRONT

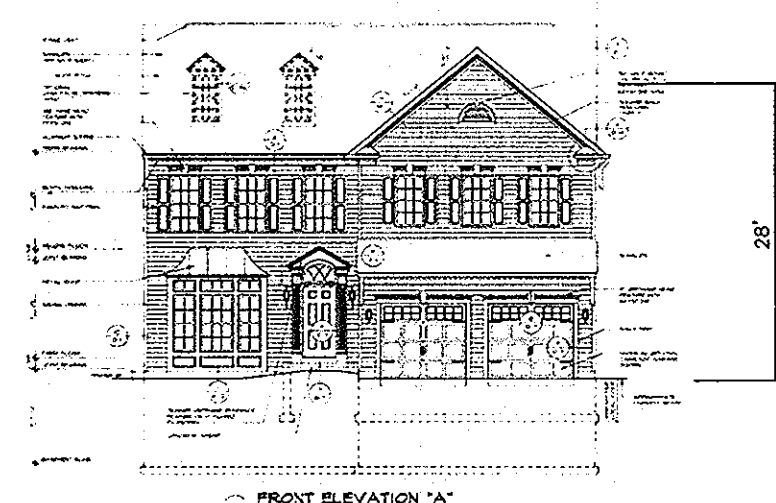
REMINGTON PLACE  
SCALE: 1"=30'



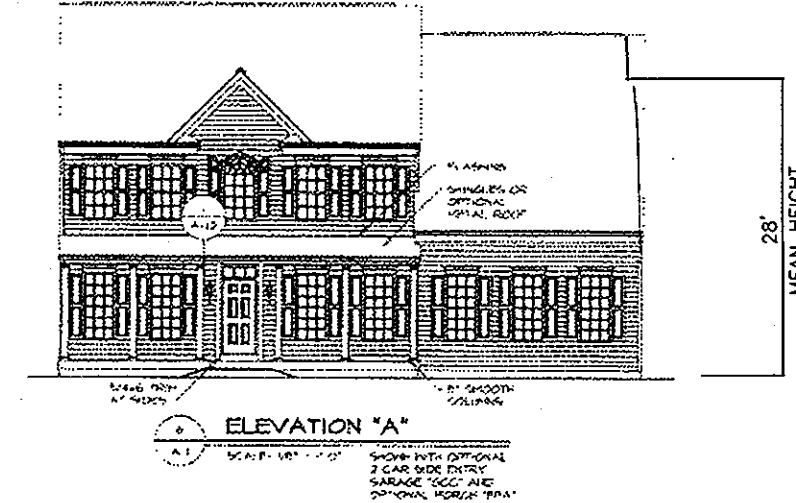
JOHN JACOB ASTOR  
SCALE: 1"=30'



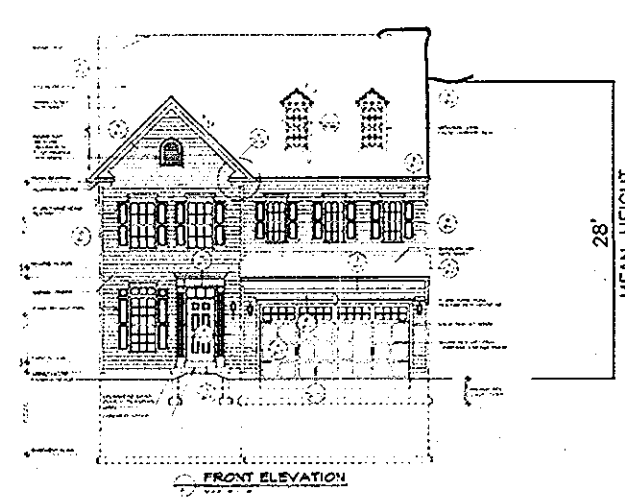
JOHN JACOB ASTOR  
N.T.S.



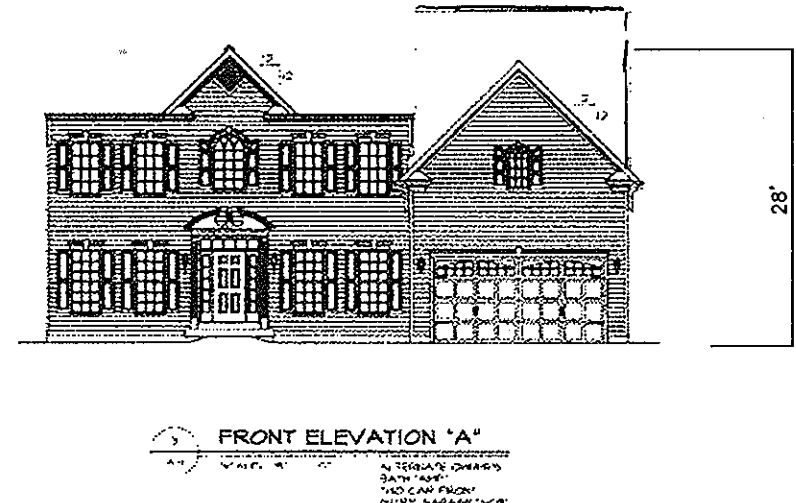
ROOSEVELT  
NTS



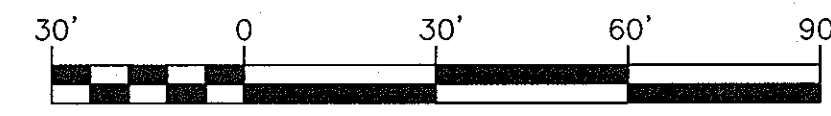
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MC KINLEY  
NTS

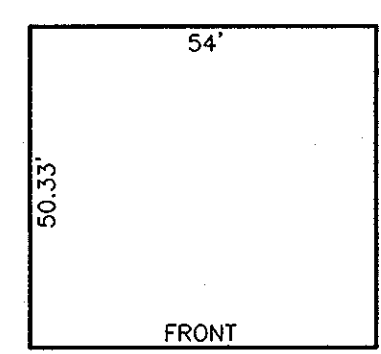


REMINGTON PLACE  
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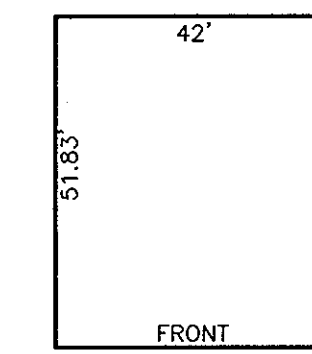


**NOTE:**

1. GENERIC HOUSE BOX MODEL FIT SHOWN HEREON
2. HOUSE BOXES ARE GENERIC AND SHOULD NOT BE CONSIDERED LIMITING. ADDITIONAL HOUSE TYPES AND OPTIONS MAY FIT ON ANY GIVEN LOT.
3. SECTION 128.A.1.i OF THE ZONING REGULATIONS (CB-2-2012) WHICH ALLOWS SUNROOMS AND ROOM EXTENSIONS TO EXTEND NOT MORE THAN 10 FEET INTO THE REAR SETBACK ALONG NOT MORE THAN 60% OF THE REAR FACE OF A DWELLING ON A LOT WHICH ADJOINS OPEN SPACE ALONG A MAJORITY OF THE REAR LOT LINE FOR R-ED LOTS RECORDED AFTER THE EFFECTIVE DATE OF CB-2-2012 (MAY 13, 2012).
4. MODELS CHOSEN WHICH DO NOT FIT IN THE ABOVE GENERIC BOX, HOWEVER DO FIT ON INDIVIDUAL LOTS, SHALL UTILIZE THE HOWARD COUNTY DPZ WALK THRU "HOUSE TYPE REVISION" PROCESS.



BOX 'A'  
EMPRESS &  
REMINGTON PLACE  
SCALE: 1"=30'



BOX 'B'  
MCKINLEY &  
ROOSEVELT  
SCALE: 1"=30'

**BUILDER**

NV HOMES  
9720 PATUXENT WOODS DRIVE  
COLUMBIA, MARYLAND 21046  
796-0908

**OWNER**

AUTUMN RIVER CORPORATION  
4100 COLLEGE AVE.  
ELLCOTT CITY MD 21043  
(410) 465-3500

**DEVELOPER**

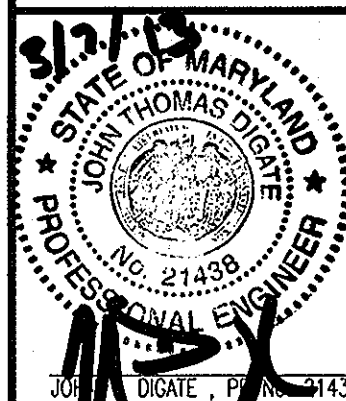
AUTUMN DEVELOPMENT CORPORATION  
C/O LAND DESIGN & DEVELOPMENT, INC.  
5300 DORSEY HALL DR STE 102  
ELLCOTT CITY MD 21042-7819  
ATTN: MR. DONALD R. REUWER  
(443) 367-0422

NO.	REVISION	DATE
1	REPLACE ASTOR HOUSE TYPE WITH JOHN JACOB ASTOR	2/14/13

**SITE DEVELOPMENT PLAN**

**AUTUMN RIVER - PART ONE OF PHASE II**  
 LOTS: 5-14, 38-43, 45-67  
 OPEN SPACE LOTS 30, 37, 44, 68, & 110  
 NON-BUILDABLE PARCELS C & D  
 NON-BUILDABLE BULK PARCELS D-H  
 RESUBDIVISION OF EXISTING LOT 27 & NON-BUILDABLE BULK PARCELS A, B, & E  
 DPZ REF'S: S-98-16, P-99-16, F-00-131 F-01-08,  
 P.B. 325, P.B. 148, PLAT# 15794 & 15795 PLAT# 14513-14515,  
 P-07-016, P-08-005, WP-09-063, F-09-021, F-10-067,  
 WP-07-025, WP-10-026, WP-12-034  
 2ND ELECTION DISTRICT, TM 25, GRID 14 & 21

**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET, ELLCOTT CITY, MD 21043  
 TEL: 410.461.7666  
 FAX: 410.461.9561



DESIGN BY: RHV  
 DRAWN BY: JMR  
 CHECKED BY: JBS  
 DATE: MARCH 2012  
 SCALE: AS SHOWN  
 W.O. NO.: 04-145

PROFESSIONAL CERTIFICATE  
 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. 31373  
 EXPIRATION DATE: 1-21-2013

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 3/12/13  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 [Signature] 3/12/13  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 [Signature] 3-13-13  
 DIRECTOR