

AUTUMN MANOR  
SECTION 1, AREA 2  
ZONED R-20

3-16-89

Proposed Trapezoidal Swale  
to be built under F-88-140

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 6-15-89  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*[Signature]* 7/18/89  
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 6-13-89  
DATE

DIRECTOR  
CHIEF BUREAU OF ENGINEERING

No	REVISION	Date
5	Rev. SHC Elevations	11-2-79
4	Rev. hse & grd Lot 165 to Belle Haven (eng. bsmt)	7-12-79
3	Rev. hse & grd lots 162 & 167	6-11-79
2	Rev. hse & grd Lots 156, 160 & 183	6-21-79
1	Rev. lots 137, 153, 158 & 160	3-8-79



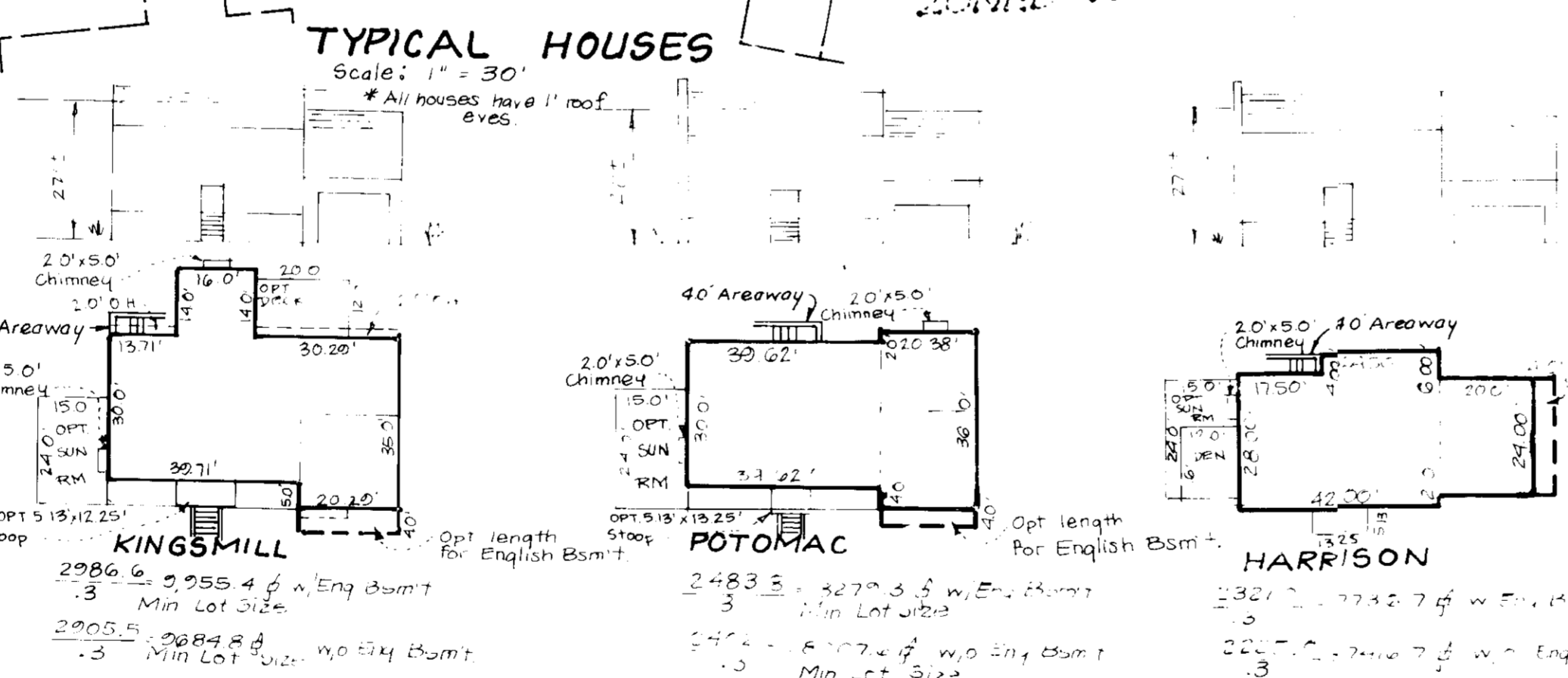
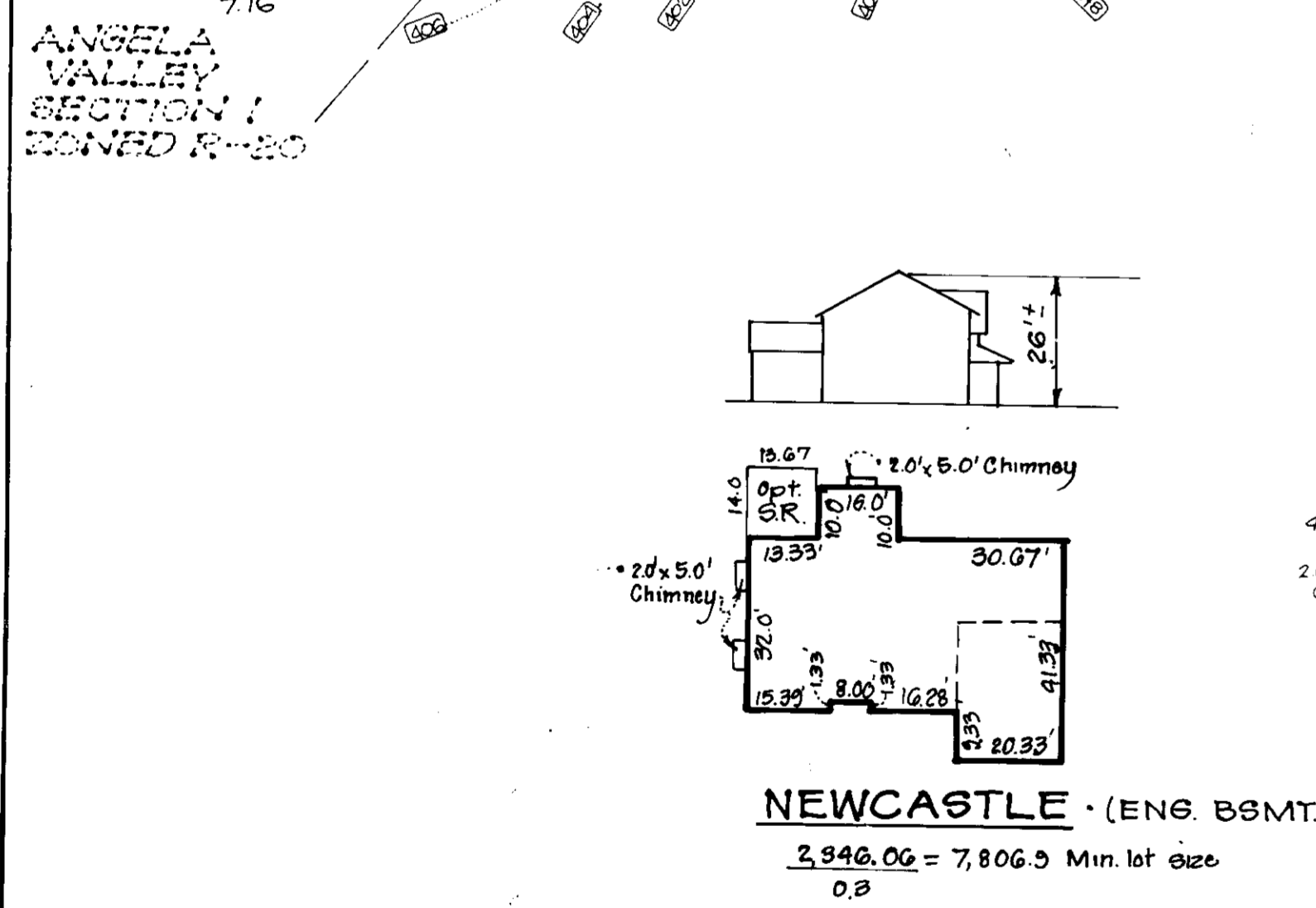
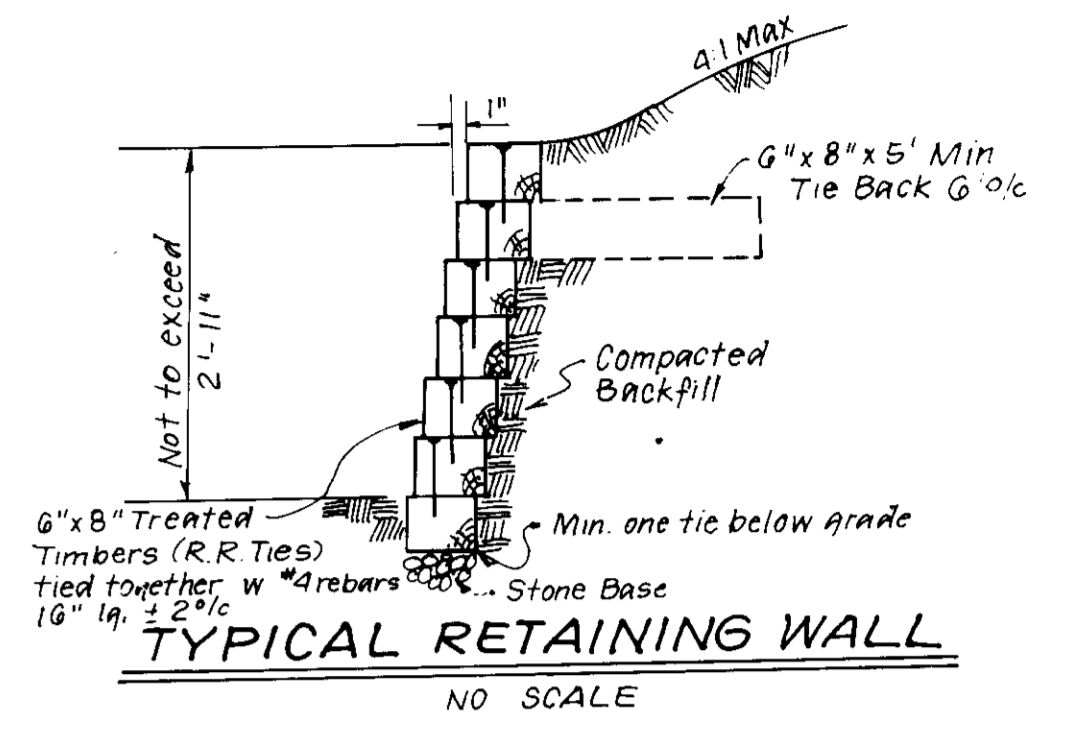
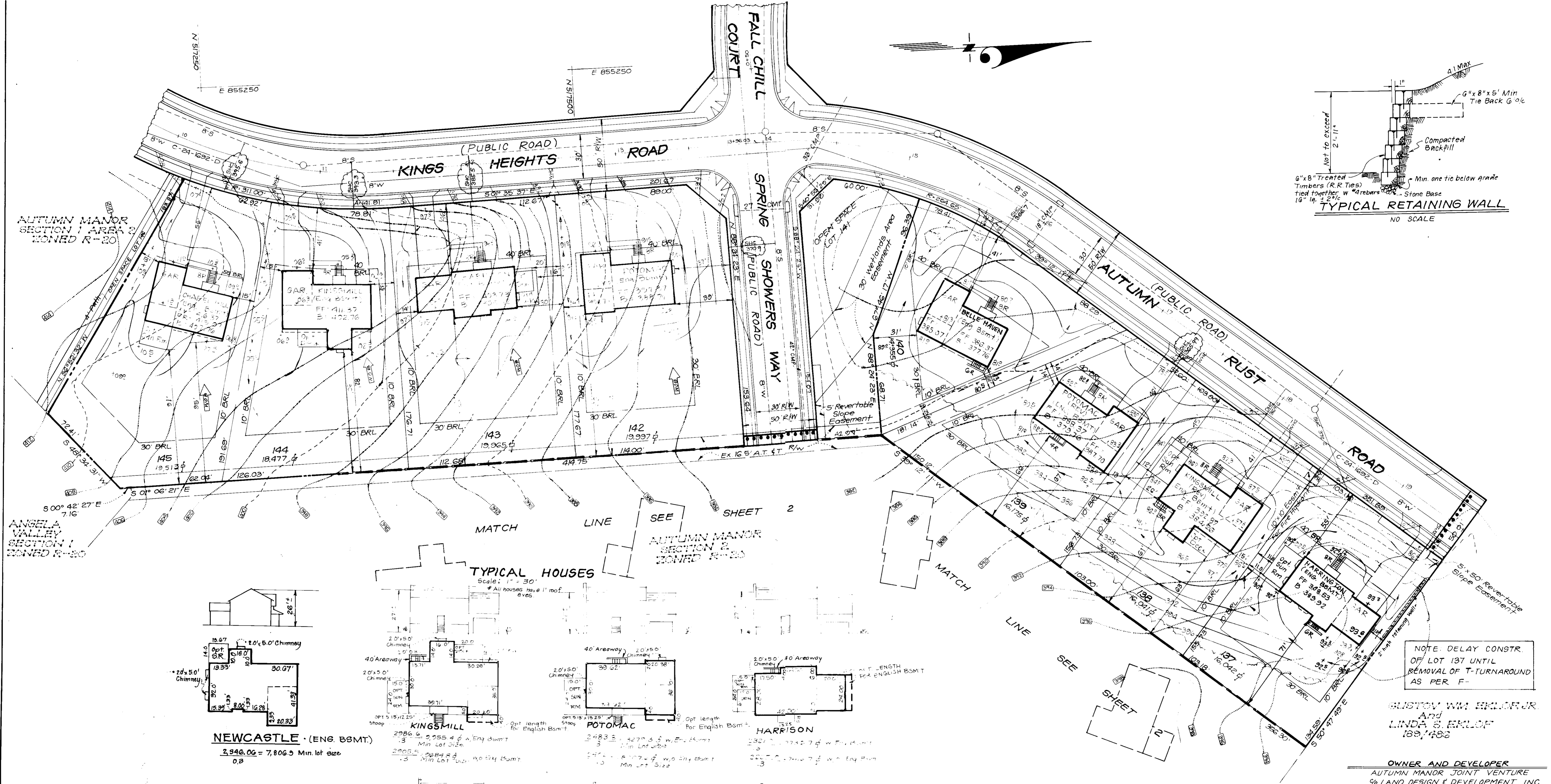
OWNER AND DEVELOPER  
AUTUMN MANOR JOINT VENTURE  
% LAND DESIGN & DEVELOPMENT, INC.  
8307 MAIN STREET  
ELLCOTT CITY, MARYLAND 21043

**CF** CLARK • FINEPROCK & SACKETT, INC.  
ENGINEERS • PLANNERS • SURVEYORS  
7155 MINISTRELL WAY • COLUMBIA, MD. 21045 • (410) 751-7500 • BALTO. • (301) 212-0100 • WASH.

DESIGNED YHL	SITE DEVELOPMENT PLAN <b>AUTUMN MANOR</b> Section 1, Area 2, Lots 137-145 and Section 2, Lots 155-168 and 171-183 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN BAL		DRAWING 2 OF 6
CHECKED JME		JOB NO. 88-163
DATE Feb. 16, 1989	FOR N.V. HOMES, INC. 10230 New Hampshire Ave. #203 Silver Spring, Maryland 20903	FILE NO. 88-163 X



NO	REVISION	DATE
1	Rev. lot 137 from Harrington (rev) to Harrington (eng. bsm't.)	3-8-89
2	Rev. lot 140 from Chapel Hill to Belle Haven	7-12-89
3	Rev. SHC Elevations	11-6-89



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: *[Signature]* DATE: 8-15-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

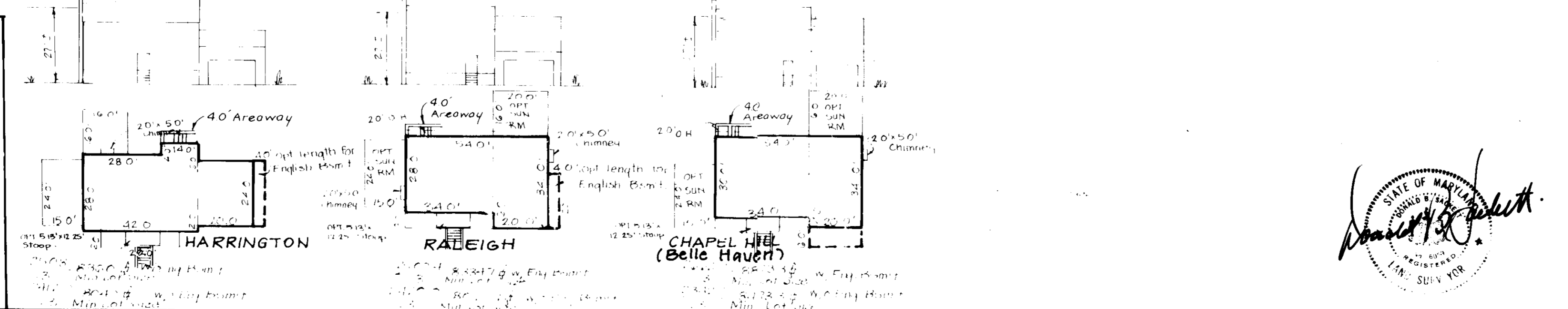
PLANNING DIRECTOR: *[Signature]* DATE: 7-27-89

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR: *[Signature]* DATE: 6-13-89

CHIEF BUREAU OF ENGINEERING



NOTE: DELAY CONSTR. OF LOT 137 UNTIL REMOVAL OF T-TURNAROUND AS PER F-

GUSTAV WIM EKLOF JR.  
And  
LINDA S. EKLOF  
188,482

OWNER AND DEVELOPER  
AUTUMN MANOR JOINT VENTURE  
96 LAND DESIGN & DEVELOPMENT, INC.  
8307 MAIN STREET  
ELLCOTT CITY, MARYLAND 21043

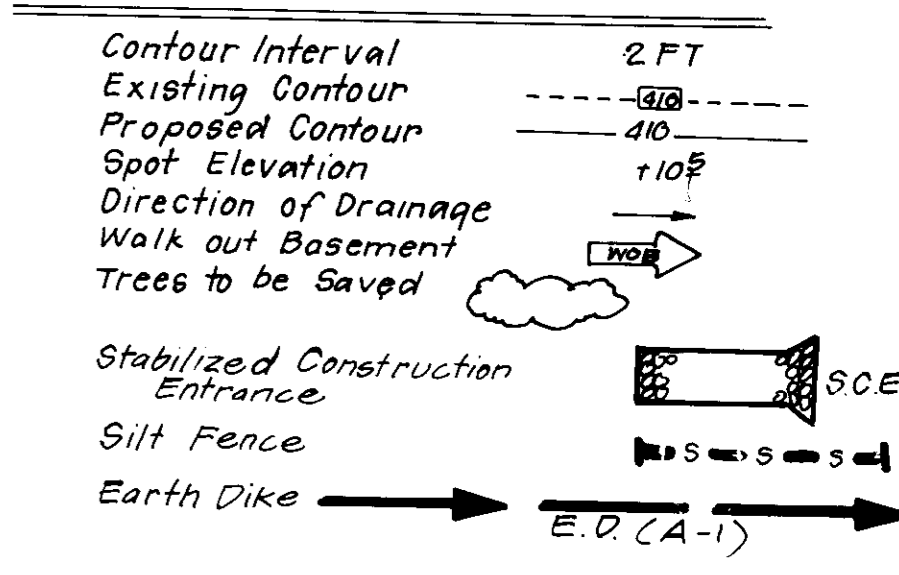
**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

7115 MINISTERIAL WAY • COLUMBIA, MD 21046 • (410) 871-7500 • BALTO. • (301) 421-8800 • WASH.

DESIGNED VHL	<b>SITE DEVELOPMENT PLAN</b> <b>AUTUMN MANOR</b> Section 1, Area 2, Lots 137-145 and Section 2, Lots 155-168 and 171-183 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN BAL		DRAWING 3 OF 6
CHECKED VHL		JOB NO. 88-163
DATE FEB 1989		FILE NO. 88-163 X
FOR: N.V. HOMES, INC. 10920 New Hampshire Ave. # 203 Silver Spring, Maryland 20903		



Scale 1" = 1200'



TRAPEZOIDAL CHANNEL TO BE BUILT & STABILIZED UNDER F-88-140

Reviewed for **HOWARD** S.C.D. Name  
and meets Technical Requirements  
*[Signature]* 6/9/89 Date  
U.S. Soil Conservation Service

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

*[Signature]* 6/9/89  
Approved Date

*[Signature]* 6-15-89  
*[Signature]* 7.7.89  
*[Signature]* 6/29/89  
*[Signature]* 6.13.89

3-16-89

**ENGINEER'S CERTIFICATE**  
I hereby 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]* 2-22-89  
G. Nelson Clark Date



**TRAP No 3 SOST. (ST V)**  
D.A. = 0.80 Ac.  
Storage Required = 1440 cf  
Storage Provided = 1440 cf  
Depth = 4'  
Top of Stone Crest = 397.0  
Bottom Elev. = 392.00  
Clean out Elev. = 394.00  
Bottom Dimensions = 3  
1:1 Side Slope in cut  
L = 4'

12.74  
11.87  
9.86  
274.5

N/A

N/A  
1700

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

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 or their authorized agents, as are deemed necessary."

*[Signature]* 2/20/89  
Signature of Developer/Builder Date

\* Delay construction of Lots 140 & 183 until the respective traps are removed.

**No. of Days**

7
100
260
30
10

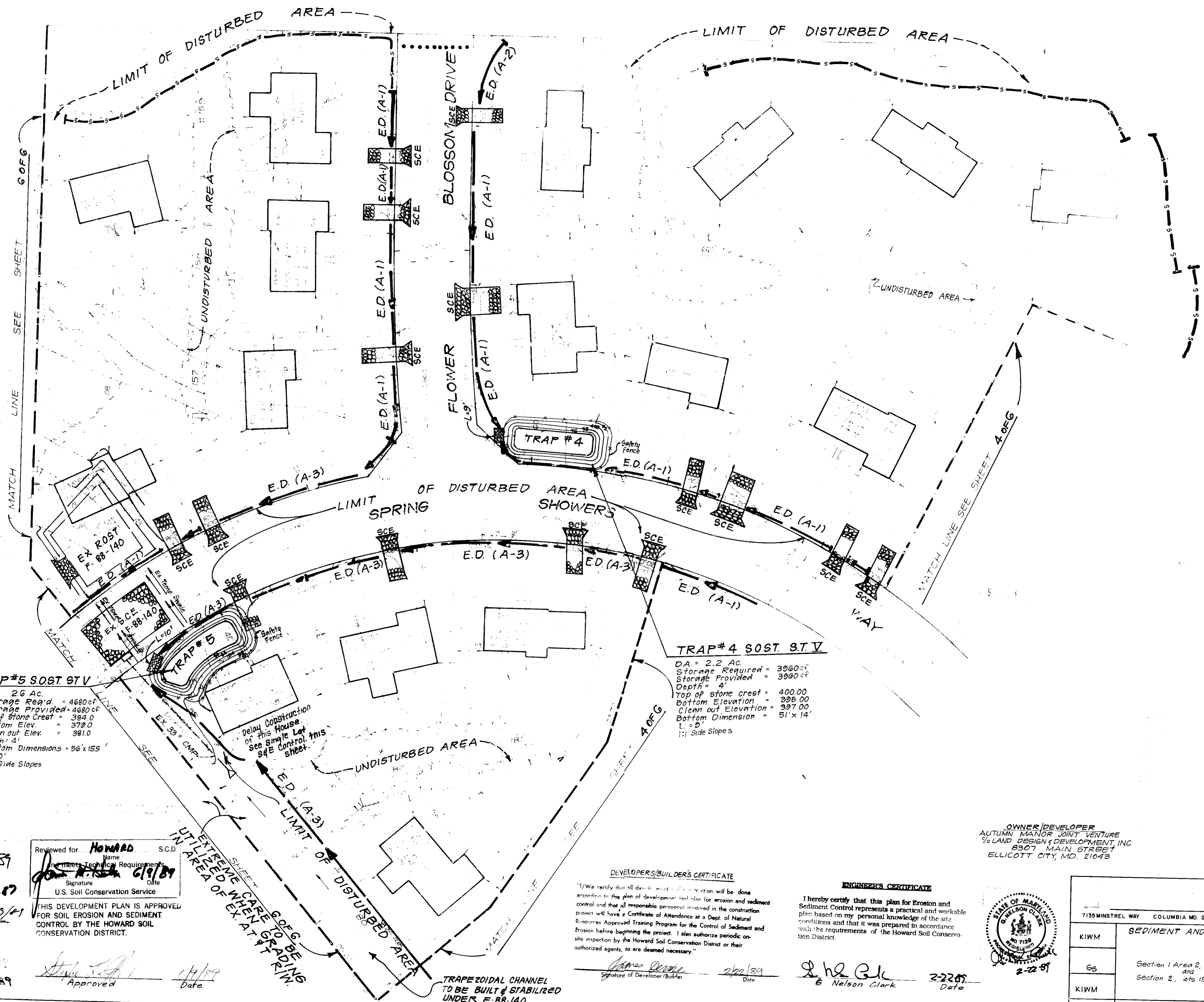
SEDIMENT AND EROSION CONTROL PLAN  
KIWM  
6S  
KIWM  
2-16-89

Section 1 Area 2, lots 137-145  
And  
Section 2, lots 155-168 and 171-183

1" = 30'  
4 OF 6  
88-163  
88-163-5E

SDP-89-168





**TRAP #5 S.O.S.T. S.T.V.**  
 DA = 2.6 AC.  
 Storage Req'd. = 4680 cf  
 Storage Provided = 4680 cf  
 Top of Stone Crest = 384.0  
 Bottom Elev. = 379.0  
 Clean out Elev. = 381.0  
 Depth = 4'  
 Bottom Dimensions = 56' x 155'  
 L = 10'  
 1:1 Side Slopes

**TRAP #4 S.O.S.T. S.T.V.**  
 DA = 2.2 AC.  
 Storage Required = 3960 cf  
 Storage Provided = 3960 cf  
 Depth = 4'  
 Top of stone crest = 400.00  
 Bottom Elevation = 395.00  
 Clean out Elevation = 397.00  
 Bottom Dimension = 51' x 14'  
 L = 5'  
 1:1 Side Slopes

Delay construction of this house see single lot site control this sheet.

TRAPEZOIDAL CHANNEL TO BE BUILT & STABILIZED UNDER F-88-140

3-16-89

John B. ...  
 6-15-89  
 7-7-89  
 6-13-89

Reviewed for **HOWARD** S.C.D.  
 Name  
 Signature  
 Date  
 U.S. Soil Conservation Service

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

Approved  
 Date

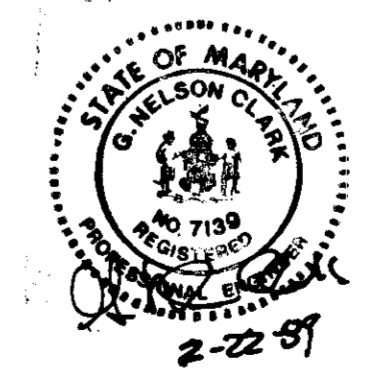
**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to the plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 or their authorized agents, as are deemed necessary.

Signature of Developer/Builder  
 Date

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer  
 Date

OWNER/DEVELOPER  
 AUTUMN MANOR JOINT VENTURE  
 LAND DESIGN & DEVELOPMENT, INC.  
 8307 MAIN STREET  
 ELLICOTT CITY, MD. 21043



7135 MINSTREL WAY COLUMBIA MD. 21045 (301)381-7500 BALTO (301)621-8100 WASH		
KIWM	<b>SEDIMENT AND EROSION CONTROL PLAN</b>	SCALE 1" = 30'
GS	Section 1 Area 2, lots 137-145 and Section 2, lots 155-168 and 171-183	DRAWING 5 OF 6
KIWM		JOB NO 88-163
2-16-89	N.V. HOMES, INC. 10230 New Hampshire Ave #203 Silver Spring, Maryland 20903	FILE NO 88-163-0E

SDP-89-168

**TRAP #1 S.O.S.T. ST-V**

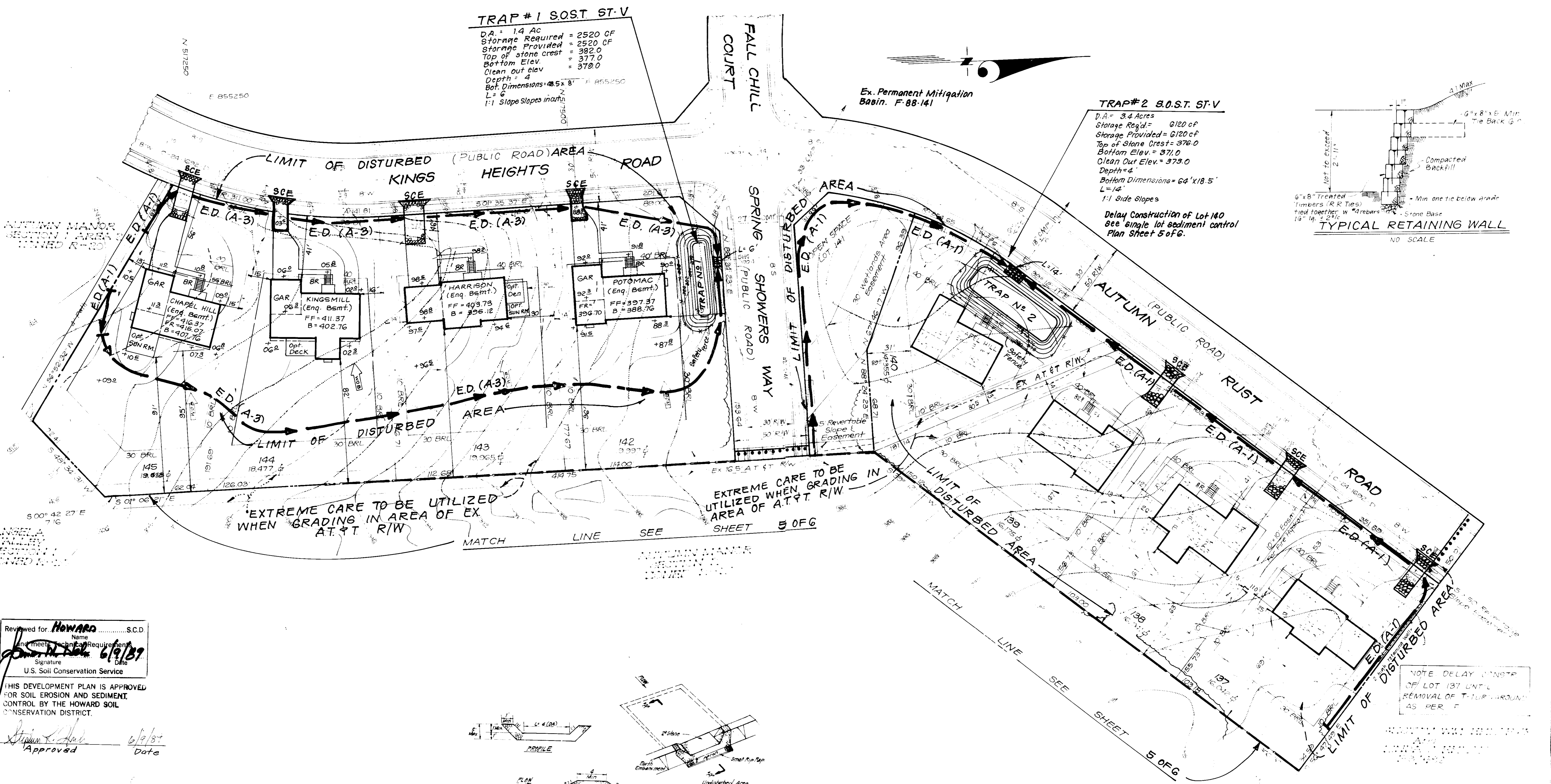
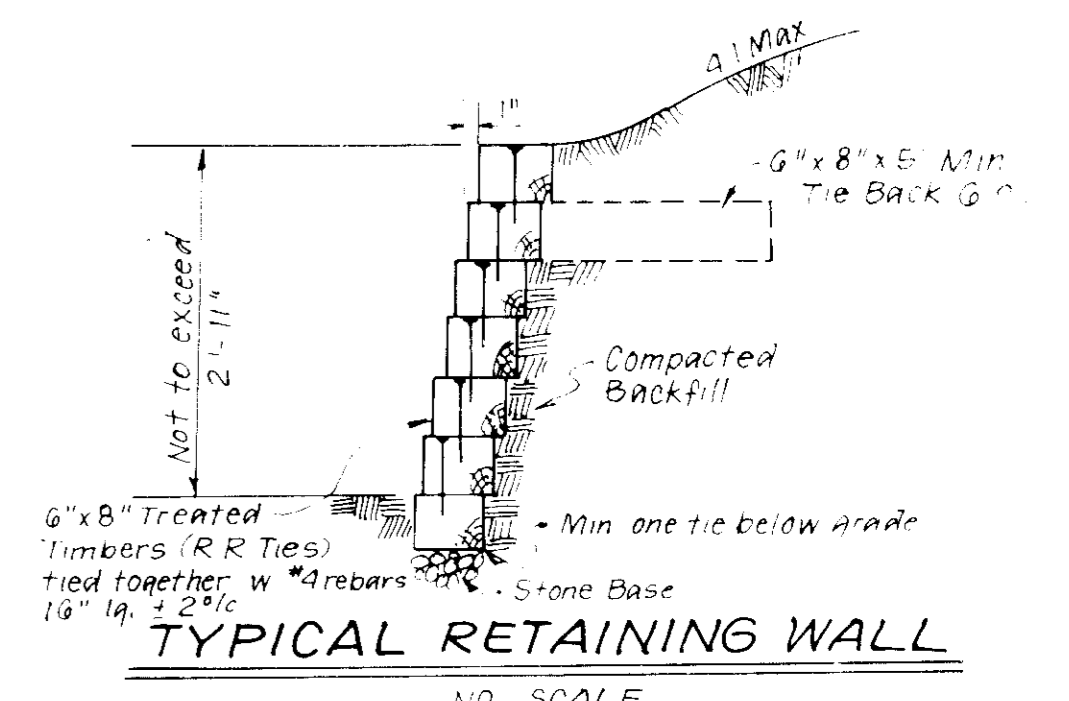
D.A. = 1.4 AC  
 Storage Required = 2520 CF  
 Storage Provided = 2520 CF  
 Top of Stone Crest = 382.0  
 Bottom Elev. = 377.0  
 Clean out elev. = 378.0  
 Depth = 4  
 Bot. Dimensions = 48.5 x 8'  
 L = 6  
 1:1 Slope Slopes in earth

Ex. Permanent Mitigation Basin. F-88-141

**TRAP #2 S.O.S.T. ST-V**

D.A. = 3.4 Acres  
 Storage Req'd = 6120 CF  
 Storage Provided = 6120 CF  
 Top of Stone Crest = 376.0  
 Bottom Elev. = 371.0  
 Clean Out Elev. = 373.0  
 Depth = 4  
 Bottom Dimensions = 64' x 18.5'  
 L = 14  
 1:1 Side Slopes

Delay Construction of Lot 140 See Single lot sediment control Plan Sheet 5 of 6.



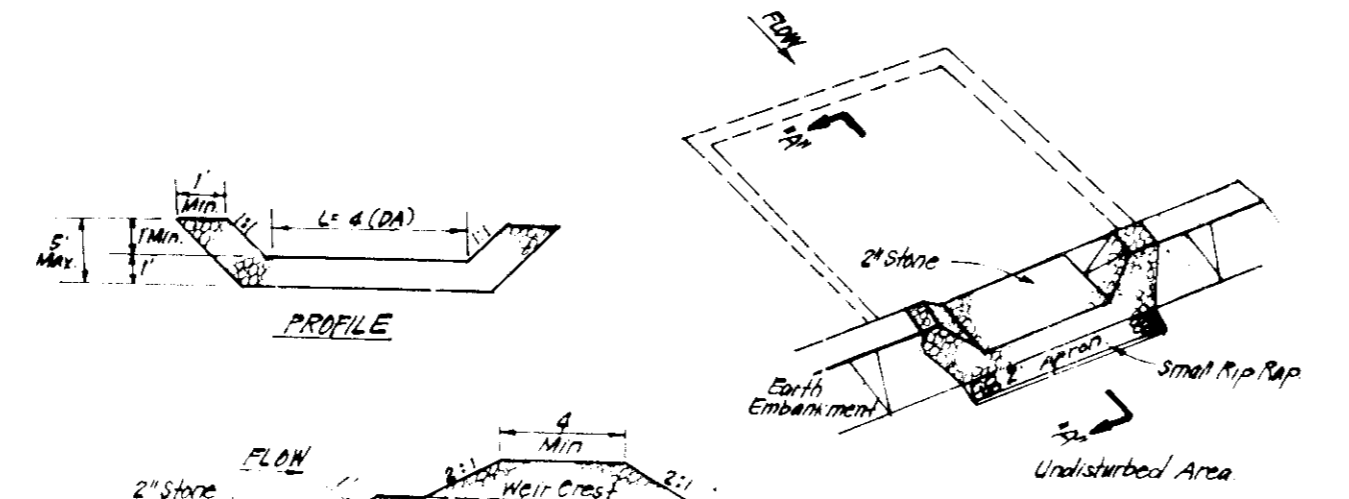
EXTREME CARE TO BE UTILIZED WHEN GRADING IN AREA OF EX. AT & T R/W

EXTREME CARE TO BE UTILIZED WHEN GRADING IN AREA OF AT & T R/W

NOTE DELAY CONSTR. OF LOT 137 UNTIL REMOVAL OF TURF AROUND AS PER P.

Reviewed for **Howard** S.C.D. Name  
 and meets technical requirements  
 Signature **James R. Deane** 6/9/89 Date  
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved **Stephen R. Hall** 6/9/89 Date



**CONSTRUCTION SITE PREPARATION:**

1. Any under-embankment shall be cleared, grubbed and stripped of any vegetation and rock material. The soil area shall be compacted.
2. The fill material for the embankment shall be free of logs and other woody vegetation as well as any sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip rap 4" x 8" with a thickness of 2" appropriate placed on the up-slope side of the small rip rap. All other material shall be placed on the down-slope side.
5. Small rip rap shall be removed and replaced with 2" nominal diameter stone when the sediment has accumulated to 1/2 the design depth of the trap.
6. The structure shall be inspected after each rain and results made as necessary.
7. Construction operations shall be carried out in such a manner that erosion and sedimentation is minimized.
8. The structure shall be removed and the area reclaimed when the storm area has been properly stabilized.

**DEVELOPER'S/BUILDERS CERTIFICATE**

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Signature of Developer/Builder **James Deane** 6/22/89 Date

**ENGINEER'S CERTIFICATE**

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer **G. Nelson Clark** 2-22-89 Date



OWNER/DEVELOPER  
 AUTUMN MANOR JOINT VENTURE  
 LAND DESIGN & DEVELOPMENT, INC.  
 8307 MAIN STREET  
 ELLICOTT CITY, MD. 21043

NEEDHAM PACKET NO. 3-16-89  
**SEDIMENT AND EROSION CONTROL PLAN**  
**AUTUMN MANOR**  
 Section 1, lots 137-145  
 and  
 Section 2, lots 155-168 and 171-183

3-16-89  
 6-15-89  
 7.7.89  
 6/25/89  
 6-13-89

KIWM  
 2-16-89  
 88-163  
 SE  
**SDP-89-168**