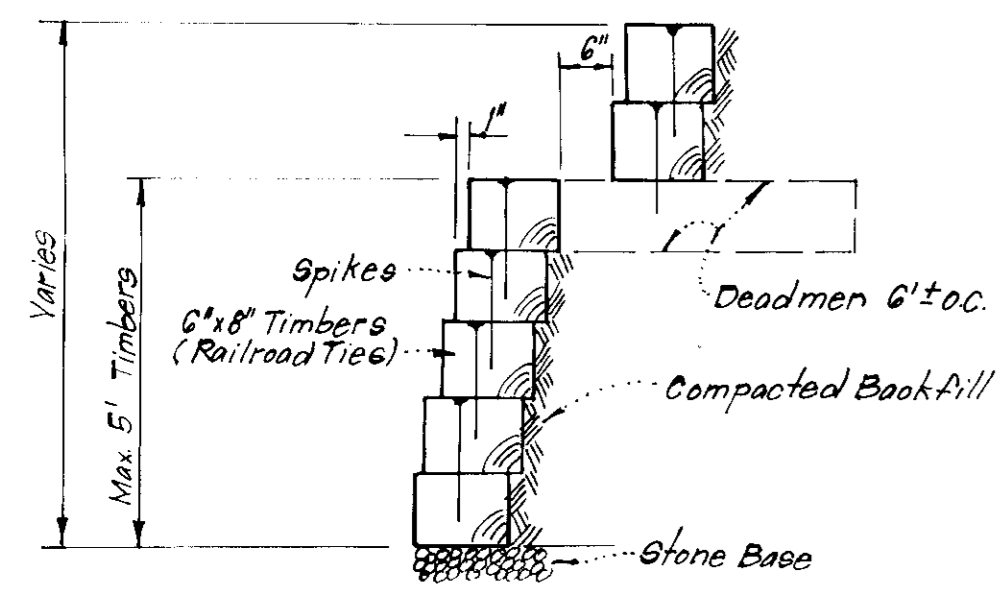
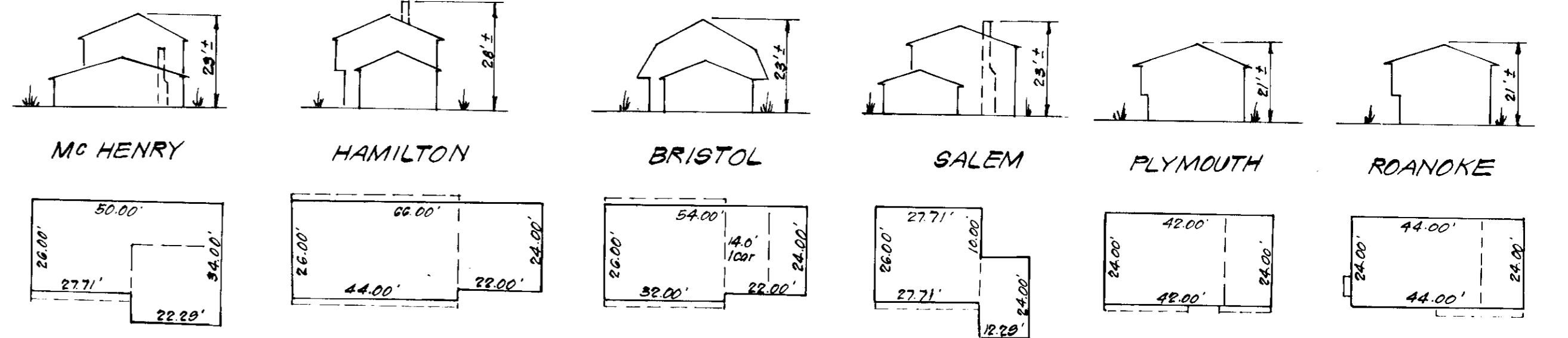


- GENERAL NOTES:**
1. The Land included in this plan is zoned New Town (S.F.M.D.)
 2. The Lots shown on this plan are covered by Final Development Plan Phase 170 recorded in Plats 3054-A-48 thru 3054-A-51.
 3. All coordinates are based on Maryland State Grid System. Elevations are based on U.S. Coast & Geodetic Survey Mean Sea Level Datum of 1929.
 4. The area covered in this submission is located on Tax Map #36 & 37.
 5. The total area included in this plan is 8.930 Acres.
 6. All roadways are public & existing.
 7. Any damage to county owned rights of way or paving shall be corrected at the developer's expense.

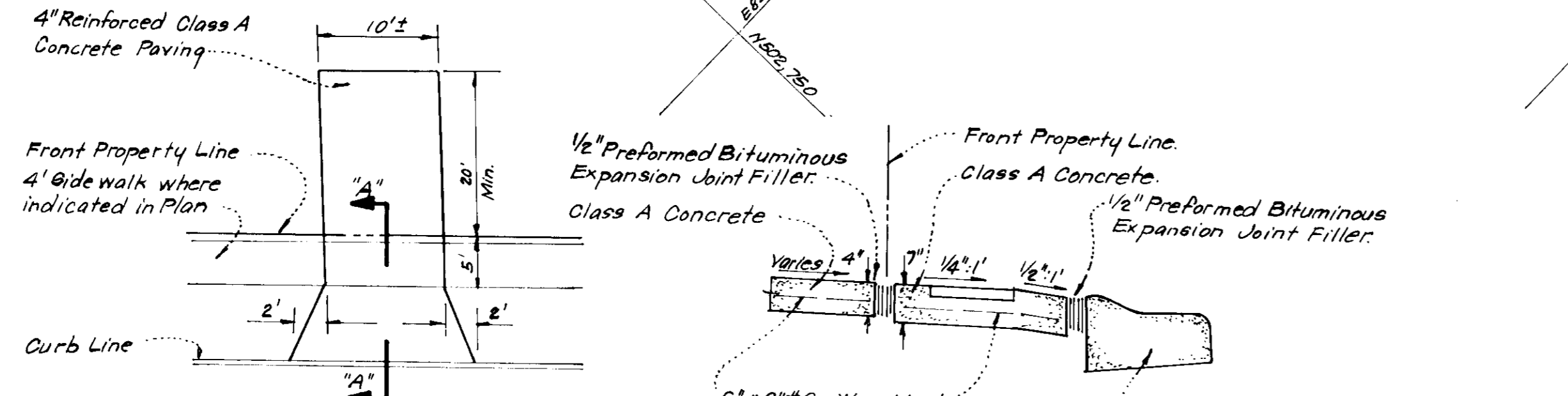
- LEGEND:**
1. Contour Interval 2 Ft.
 2. Existing Contour ---
 3. Proposed Contour - - - -
 4. Spot Elevation +70.2
 5. Direction of Drainage →
 6. Existing Trees to be retained (Tree symbol)
 7. Retaining Wall [Wall symbol]



TIMBER RETAINING WALL
No Scale



TYPICAL HOUSES
No Scale



DRIVEWAY ABUTTING MODIFIED COMB CURB & GUTTER
No Scale

Note: Use Residential Driveway Entrance, Howard Co. Std. Dwg. D-34, pg. 89 except where driveway abuts Modified Comb. Curb & Gutter.

Note: Materials and Construction shall be in accordance with Howard Co. Road Construction Code.

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

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

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

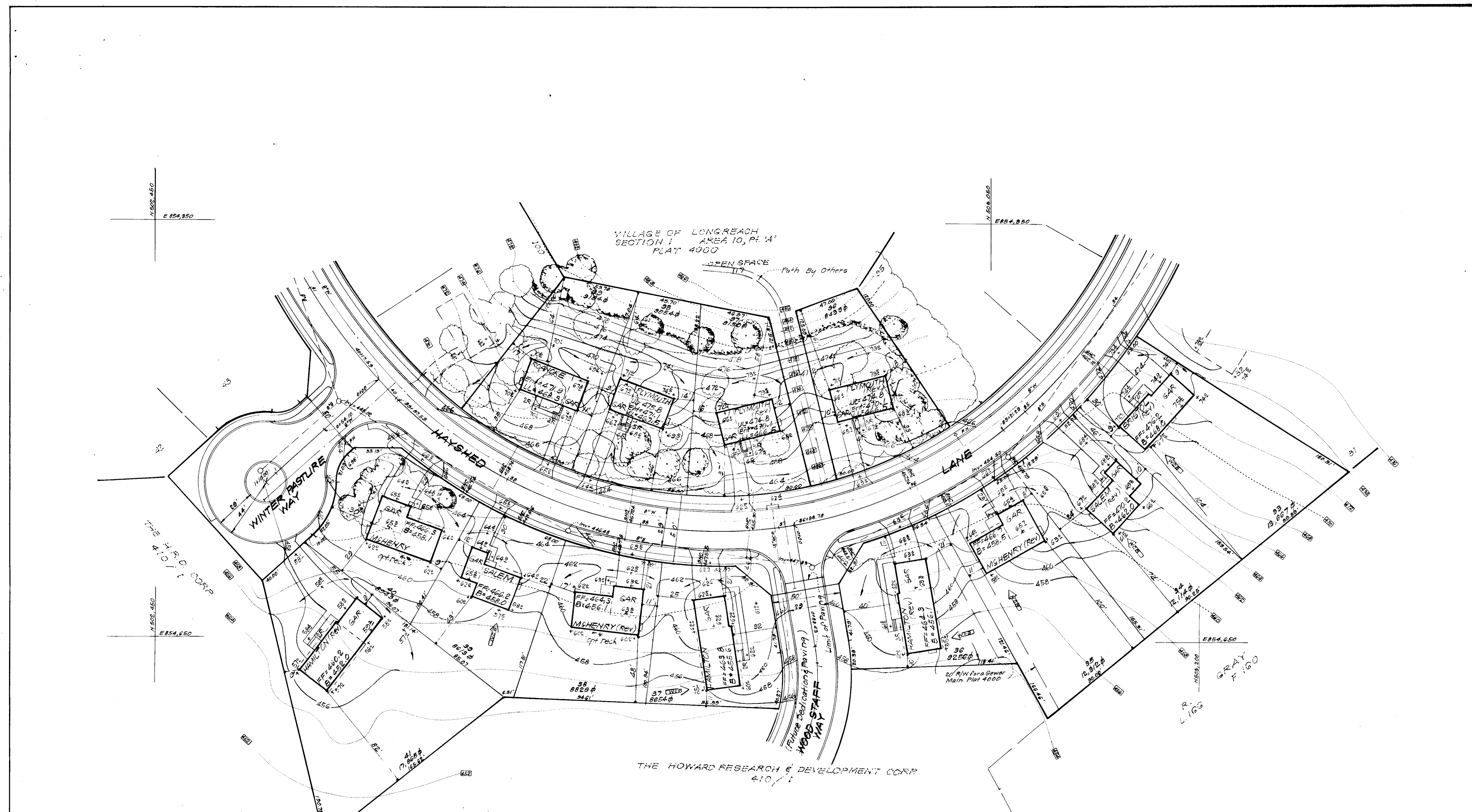
APPROVED
DIVISION OF LAND DEVELOPMENT

NOV 24 1978

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

11317 LUKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400

DESIGNED D.B.S.	SITE DEVELOPMENT PLAN LOTS 19 THRU 22 & LOTS 33 THRU 52 LOTS 24 THRU 27 & LOTS 36 THRU 106 COLUMBIA VILLAGE OF LONGREACH SECTION 1 AREA 10, P. 1A 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. Suite 200 V.O.M. OFFICE BUILDING Columbia, Maryland 21045 SDP-79-57C	SCALE 1"=30'
DRAWN K.I.W.		DRAWING 1 of 7
CHECKED D.B.S.		JOB NO.
DATE Oct. 1978		FILE NO. 1368-X
		See Also: HC 375



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

James P. ...
COUNTY HEALTH OFFICER DATE 12-19-78

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

...
PLANNING DIRECTOR DATE 12-19-78

CHIEF DIVISION OF LAND DEVELOPMENT

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

Richard E. ...
DIRECTOR DATE 12/14/78

CHIEF BUREAU OF ENGINEERING DATE 12-19-78

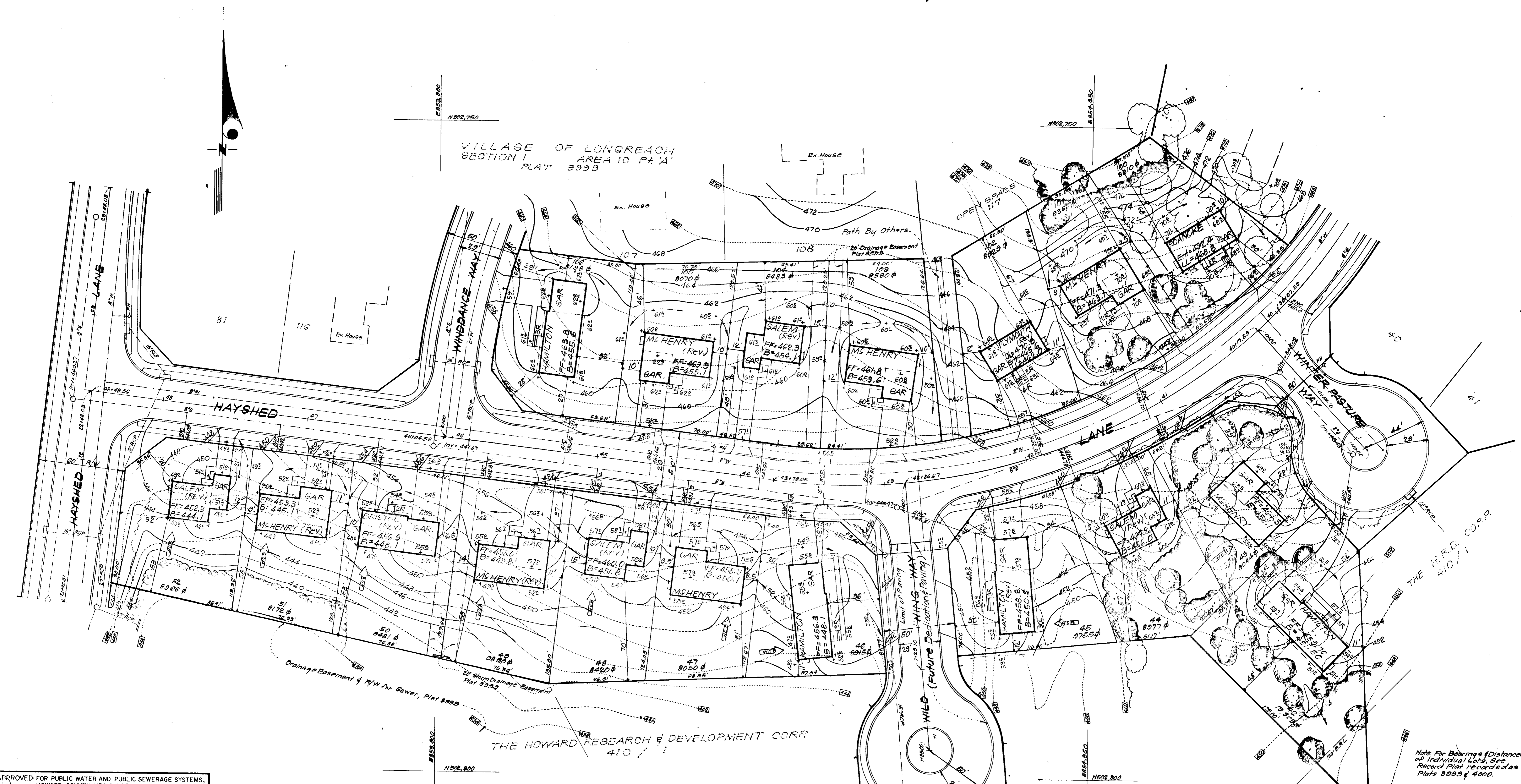
APPROVED
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
DATE 11-24-78

Donald B. Sackett
DONALD B. SACKETT

Note: For Bearings and Distances of Individual Lot Lines, See Record Plat recorded as Plat 3000 & 4000.

CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400		
DESIGNED DBS.	SITE DEVELOPMENT PLAN LOTS 13 THRU 22 & LOTS 33 THRU 52 LOTS 64 THRU 85 & LOTS 96 THRU 106 COLUMBIA VILLAGE OF LONGREACH, SECTION I, AREA 10, Pt. A, 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP INC. Suite 200 V.O.M. Office Building Columbia, Maryland 21045	SCALE 1"=30'
DRAWN K.I.W.		DRAWING 2 of 7
CHECKED DBS.		JOB NO.
DATE Oct, 1978		FILE NO. 1968-X
		13 Lots



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 12-19-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *[Signature]* DATE: 11-19-78

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 12/14/78

CHIEF BUREAU OF ENGINEERING DATE:

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 11-24-78

[Signature]
 Donald B. Sackett

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND, 20904 (301) 582-3400

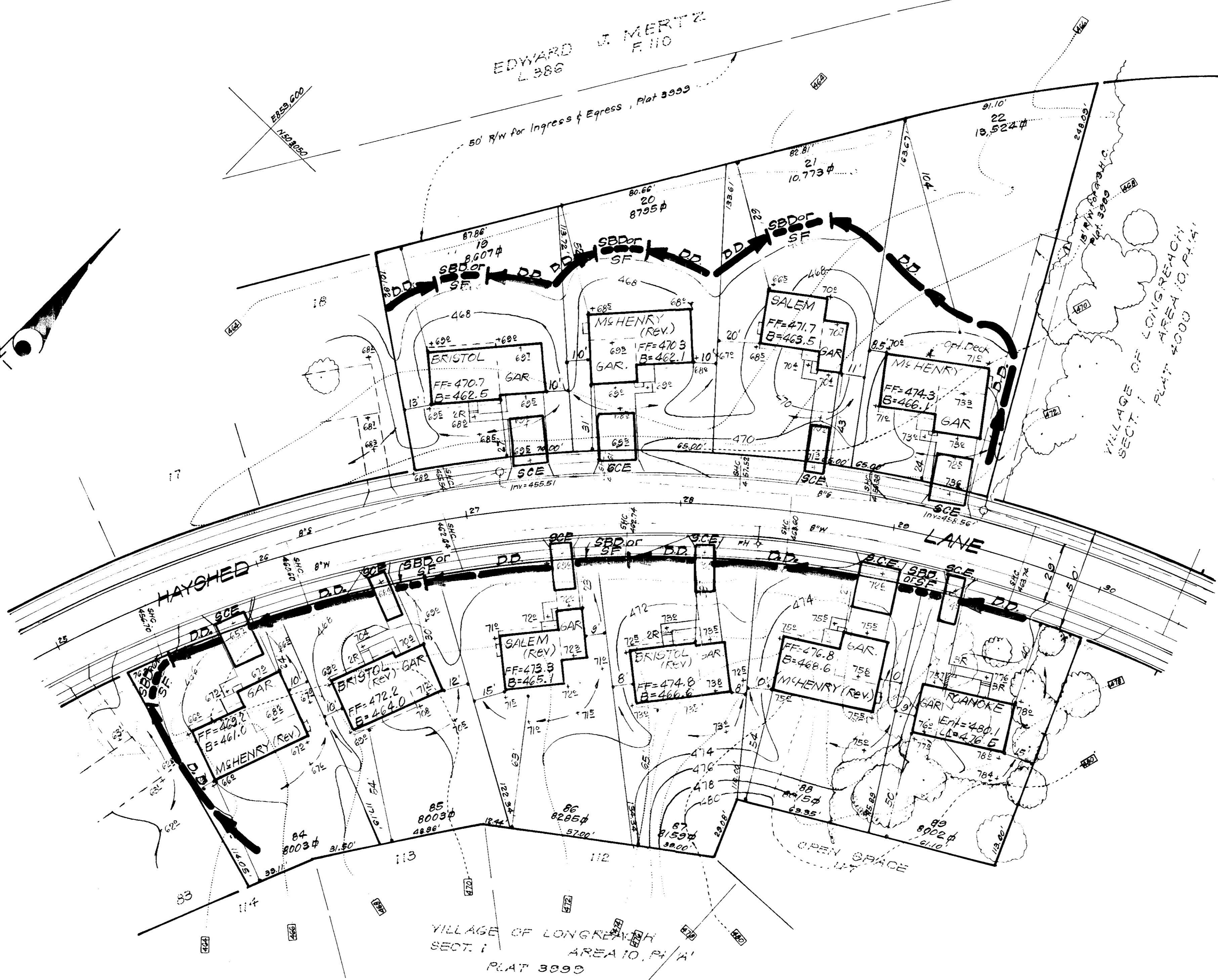
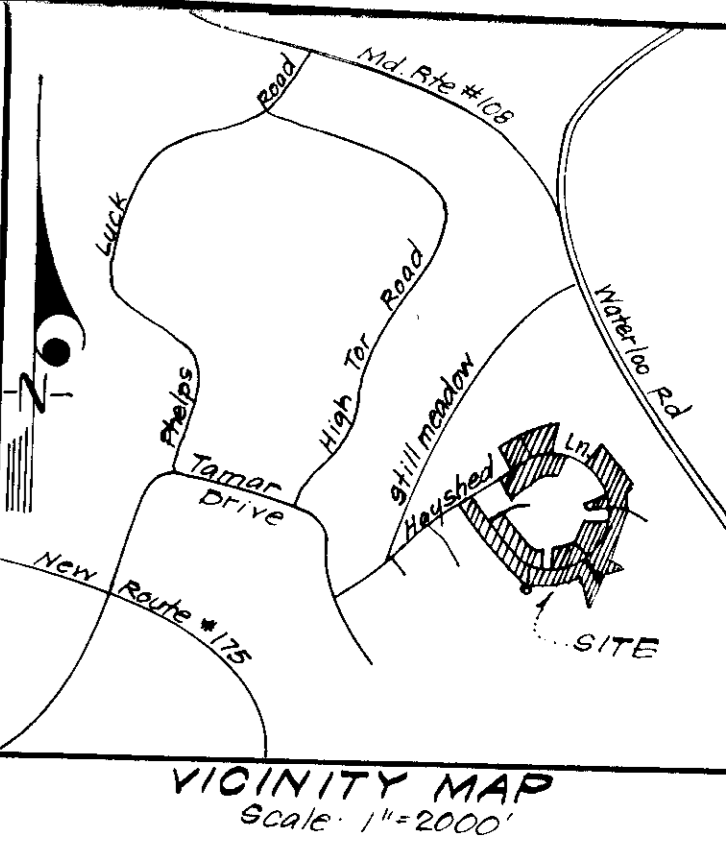
DESIGNED: **D.B.S.**
 DRAWN: **K.I.W.**
 CHECKED: **D.B.S.**
 DATE: Oct, 1978

COLUMBIA
 VILLAGE OF LONGREACH
 SECTION 1, AREA 10, P.M.A.
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: THE KYLAND GROUP INC.
 Suite 200 V.O.M. Office Building
 Columbia, Maryland 21045

SCALE: 1"=30'
 DRAWING: 3 of 7
 JOB NO.:
 FILE NO.: 1308-X

18 Lots
 SDP-79-57C

Note: For Bearings & Distances of Individual Lots, See Record Plat recorded as Plats 3999 & 4000.



- LEGEND:**
1. Contour Interval
 2. Existing Contour
 3. Proposed Contour
 4. Spot Elevation
 5. Direction of Drainage
 6. Existing Trees to be retained
 7. Retaining Wall
 8. Diversion Dike
 9. Silt Fence or Straw Bale Dike
 10. Stone Construction Entrance
 11. Stone Filter Inlet Protection

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 11-24-78
JWM

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: *[Signature]* DATE 12-19-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: *[Signature]* DATE 12-19-78

CHIEF DIVISION OF LAND DEVELOPMENT
CHIEF DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE 12-14-78

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *[Signature]* DATE 12-14-78

CHIEF BUREAU OF ENGINEERING
CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE 12-19-78

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
[Signature] 12-5-78 Date
U.S. Soil Conservation Service

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

DES ERAP Approved 12-5-78 Date
[Signature]

DEVELOPER'S CERTIFICATE
I certify that all development and/or construction
is being according to this plan of development
and that I am in compliance with the provisions
of the Erosion and Sediment Control, and I also
authorize periodic on-site inspection by the Howard
Soil Conservation District or their authorized agents
as may be necessary. Deviation from this plan
will not be made unless authorized by the Howard
Soil Conservation District.

[Signature] 10-18-78 Date
L.B. Gargant

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

[Signature] 11-17-78 Date
G. Nelson Clark

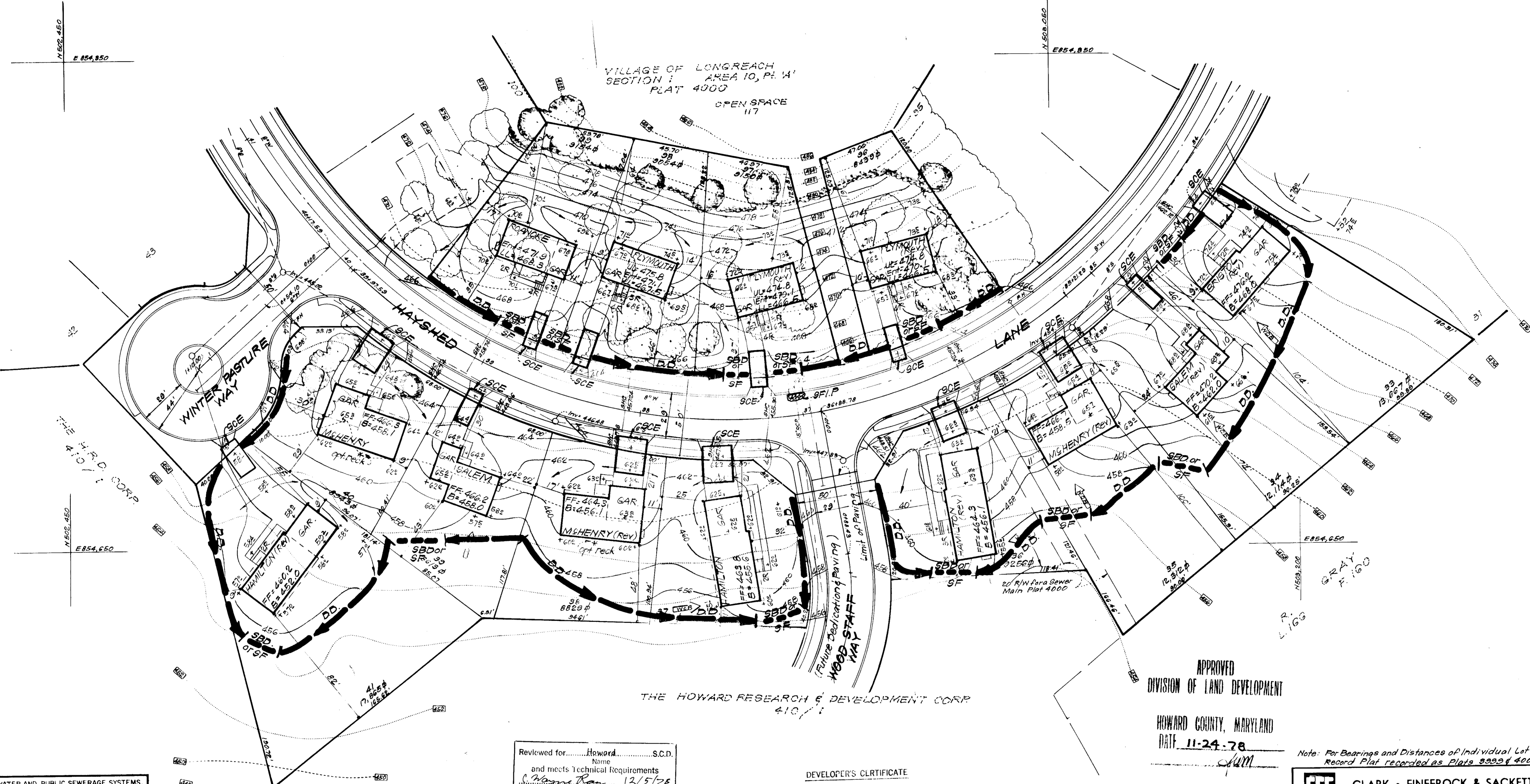


Record Plot, recorded as Plot 3999

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400

DESIGNED J.L.S.	SEDIMENT & EROSION CONTROL PLAN LOTS 19 THRU 22 & LOTS 33 THRU 52 LOTS 84 THRU 89 & LOTS 96 THRU 106 COLUMBIA VILLAGE OF LONGREACH SECTION 1 AREA 10, PL. A' 9th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN K.I.W.		DRAWING 4 of 7
CHECKED R.J.S.		JOB NO.
DATE Oct, 1978	FOR: THE RYLAND GROUP, INC. Suite 200 V.O.M. Office Building Columbia, Maryland 21045	FILE NO. 1368-X

10 Lots
SDP-79-57c
See Also: KC 375



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

[Signature]
COUNTY HEALTH OFFICER
DATE 12-19-78

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature]
PLANNING DIRECTOR
DATE 12-19-78

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

[Signature]
DIRECTOR
DATE 12/14/78

[Signature]
CHIEF BUREAU OF ENGINEERING
DATE 12-19-78

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
[Signature] 12/15/78
Signature Date
U.S. Soil Conservation Service

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

[Signature] Approved 12-5-78
Date

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction
will be done according to this plan of development
and plan for Erosion and Sediment Control, and I also
authorize periodic on-site inspection by the Howard
Soil Conservation District or their authorized agents
as and deemed necessary. Deviation from this plan
will not be made unless authorized by the Howard
Soil Conservation District.

[Signature] 10/18/78
Signature Date
L.B. Sargent

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 Conserva-
tion District.

[Signature] 10-19-78
Signature Date
Nelson Clark

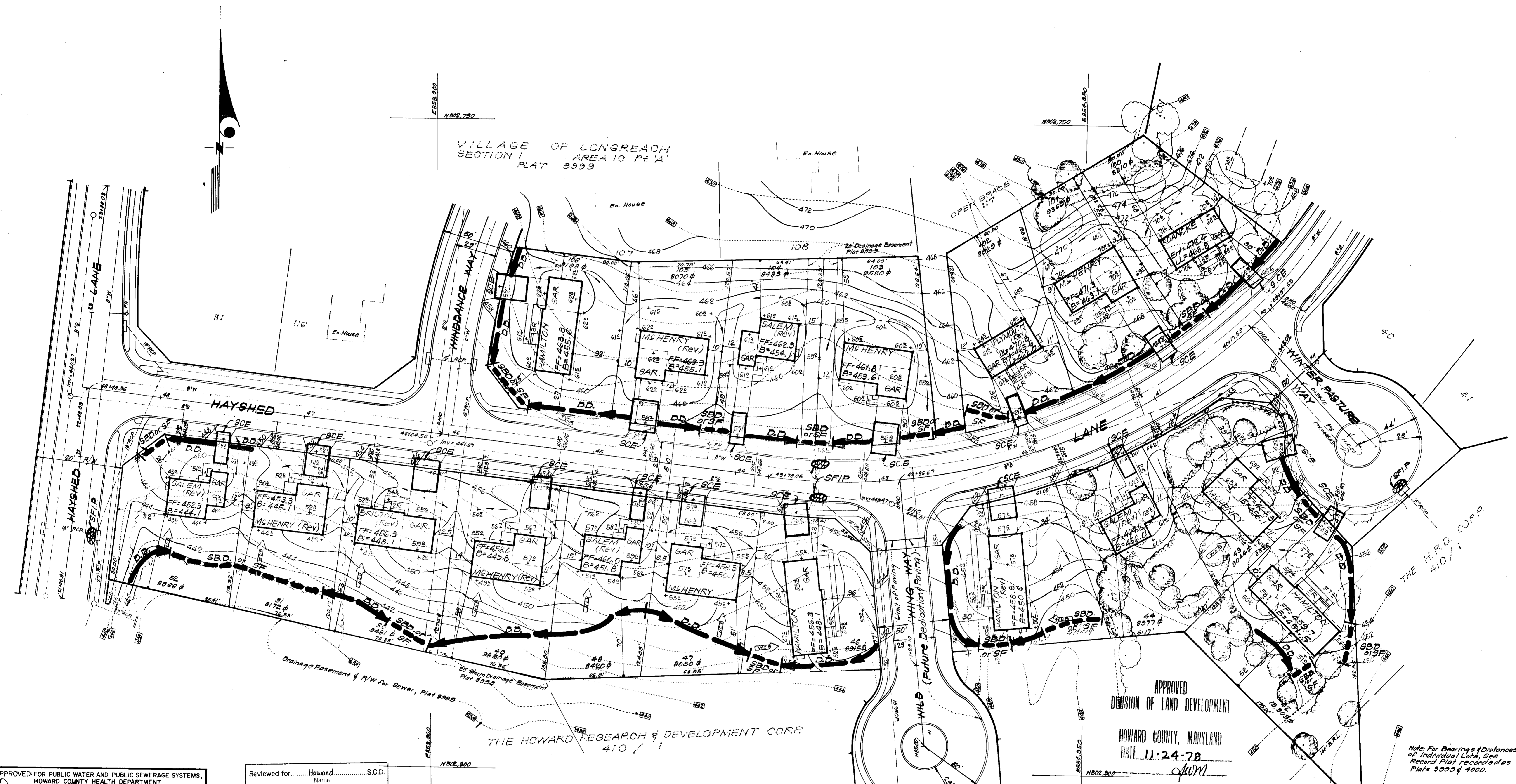
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 11-24-78
[Signature]



Note: For Bearings and Distances of Individual Lot Lines, See
Record Plat recorded as Plats 3999 & 4000.

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400			
DESIGNED	<i>[Signature]</i>	SCALE	1"=30'
CHECKED	J.L.S.	DRAWING	5 of 7
DRAWN	<i>[Signature]</i>	JOB NO.	
K.I.W.			
CHECKED	R.V.S.		
DATE	FOR: THE RYLAND GROUP, INC. Suite 200 V.O.M. OFFICE Building Columbia, Maryland 21045	FILE NO.	1368-X
Oct., 1978	13 Lots		

SDP-79-57c sec 456: MC 975



VILLAGE OF LONGREACH
SECTION 1
AREA 10 PLAT A
PLAT 3993

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 11-24-78
AJM

Note: For Bearings & Distances
of Individual Lots, See
Record Plat recorded as
Plats 3993 & 4000.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
PLANNING DIRECTOR
DATE 12-19-78

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
DATE 12/14/78

Reviewed for Howard S.C.D.
and meets Technical Requirements
Signature Date
U.S. Soil Conservation Service

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

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction
will be done according to this plan of development
and plan for Erosion and Sediment Control, and I also
authorize periodic on-site inspection by the Howard
Soil Conservation District or their authorized agents
as are deemed necessary. Deviation from this plan
will not be made unless authorized by the Howard
Soil Conservation District.

Signature Date
L.B. Sargent 10/18/78

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 Conserva-
tion District.

Signature Date
G. Nelson Clark 10-19-78



CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400

DESIGNED	J.L.S.	SCALE	1"=30'
DRAWN	K.L.W.	DRAWING	6 of 7
CHECKED	R.U.S.	JOB NO.	
DATE	Oct, 1978	FILE NO.	1368-X

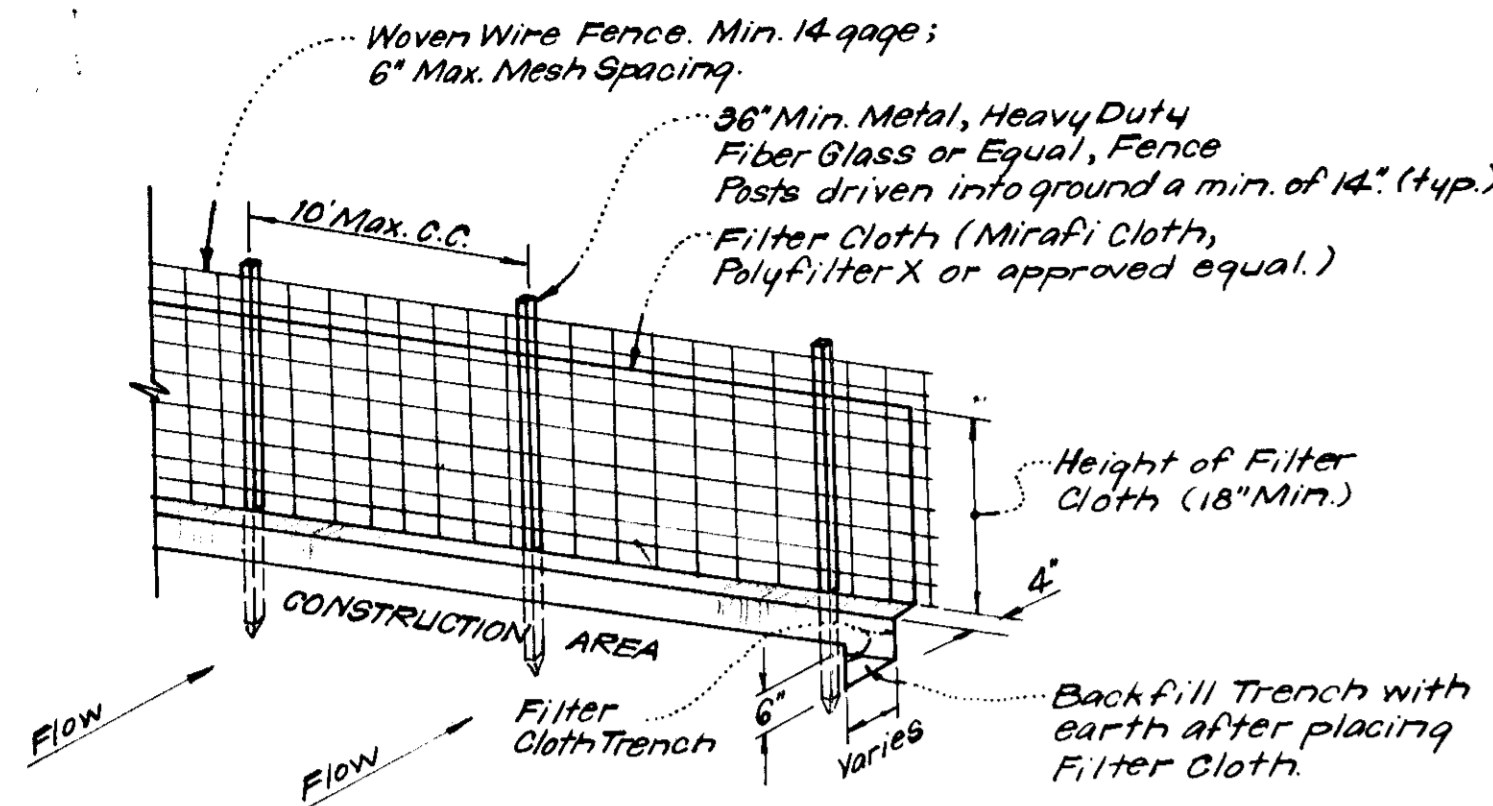
SEDIMENT & EROSION CONTROL PLAN
LOTS 15 THRU 22 & LOTS 33 THRU 52
LOTS 64 THRU 83 & LOTS 96 THRU 106

COLUMBIA
VILLAGE OF LONGREACH
SECTION 1 AREA 10, PLAT A
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: THE RYLAND GROUP INC.
Suite 200 V.O.M. Office Building
Columbia, Maryland 21045

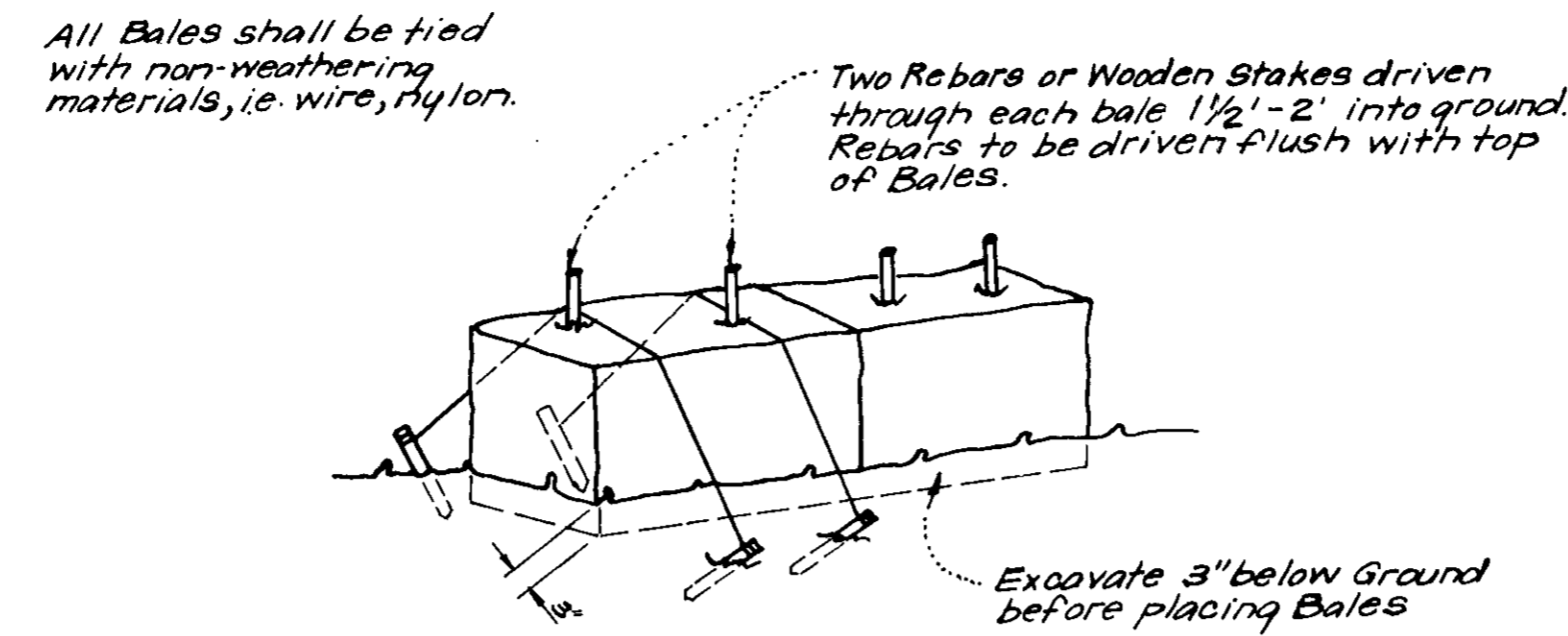
GENERAL NOTES

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See Note # 6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs/1000 sq. ft.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed Ground to be done as soon after construction as possible.
- All Grading shall be treated in accordance with the following Specifications:
 - Seed - certified 85% germination applied at the rate of 3 lbs/1000 sq. ft. mixture - 40% Kentucky Blue, 20% Chewy Fescue, 20% Kentucky 31, and 20% annual rye.
 - Fertilizer - 10-10-10 applied at the rate of 23 lbs/1000 sq. ft. Ground Agricultural Lime or Dolomitic Lime applied at the rate of 46 lbs/1000 sq. ft.
 - Mulch - Weed free grain straw applied at the rate of 70 lbs/1000 sq. ft. Mulch shall be secured to the ground by any approved method i.e. asphalt tacks, chemical binder, wood chips, etc.
- All Structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On Site Inspection and Maintenance of all Sediment Control Measures including clean out of sediment traps and dikes, and proper establishment of all planned vegetative measures will be the responsibility of the Developer or his representative on the site, on a continuing day to day basis.
- Protection of stabilized area from sediment runoff shall be provided by the use of an approved Sediment Control Device, i.e. straw bale, diversion dike, etc.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Stabilized Construction Entrances shall be placed at all construction entrances.
- SITE ANALYSIS:**
 - Total Area = 8.990 Acres
 - Area to be Roofed = 1.252 Acres
 - Area to be Paved = 0.522 Acres
 - Area to be Seeded = 5.242 Acres
 - Area Undisturbed = 1.974 Acres
- CONSTRUCTION SEQUENCE:**
 - Install Sediment & Erosion Control Devices and stabilize Diversion Dikes.
 - Excavate for Foundations and Rough Grade.
 - Erect Structures, Driveways and Sidewalks.
 - Final Grade and stabilize in accordance with Note # 6.
- If Houses are to be constructed on an "As Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.
- It will be the Developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- Total Amount of Straw Bales or Silt Fence shown = 930 L.F.



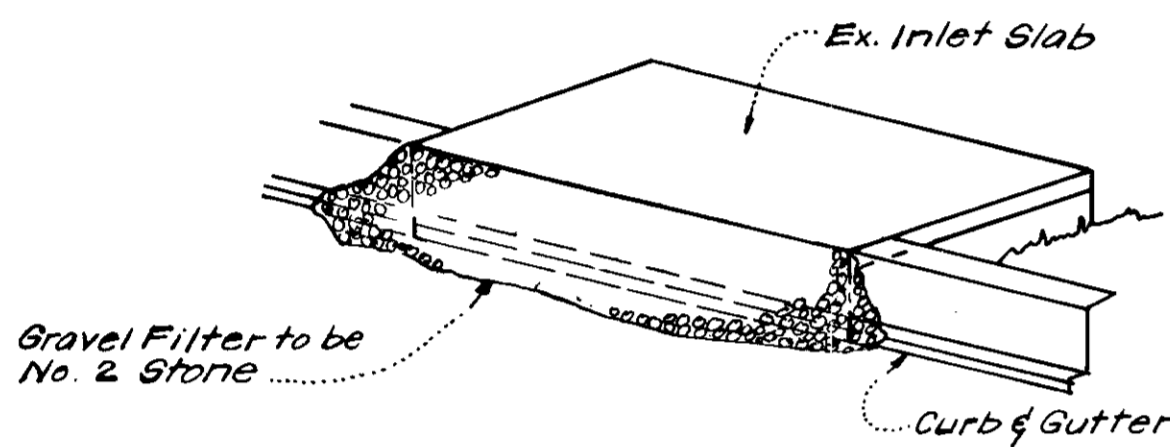
NOTES:
 1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

SILT FENCE DETAIL (S.F.)
 No Scale

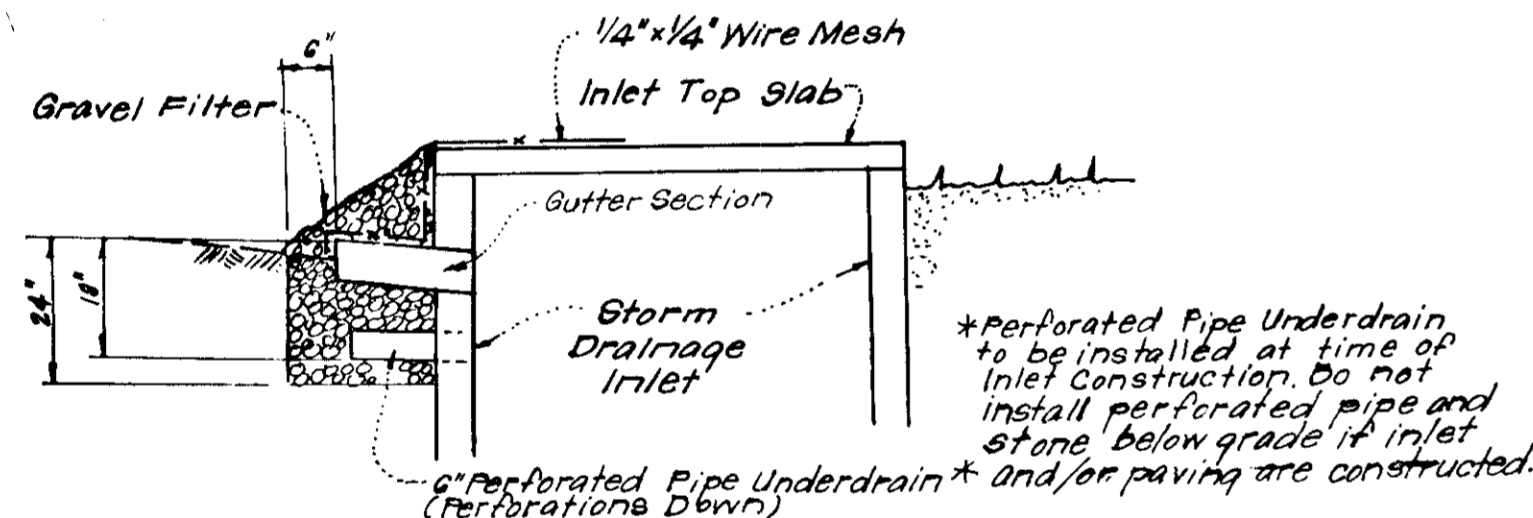


NOTE:
 1. In lieu of the use of rebar each Straw Bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

TYPICAL STRAW BALE DETAIL (S.B.D.)
 No Scale

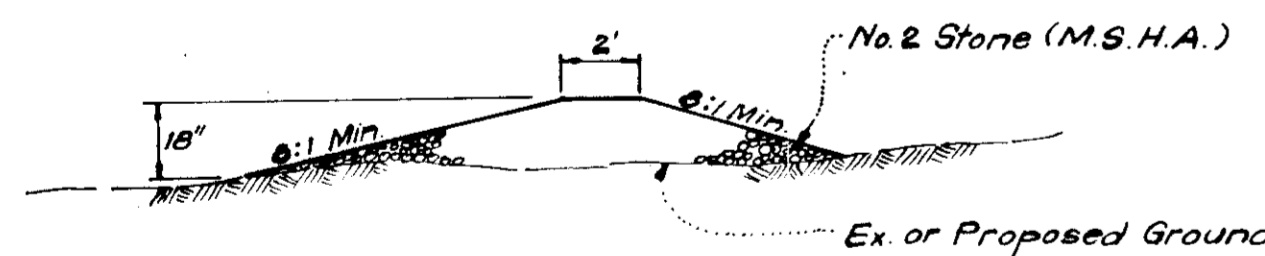


ISOMETRIC VIEW



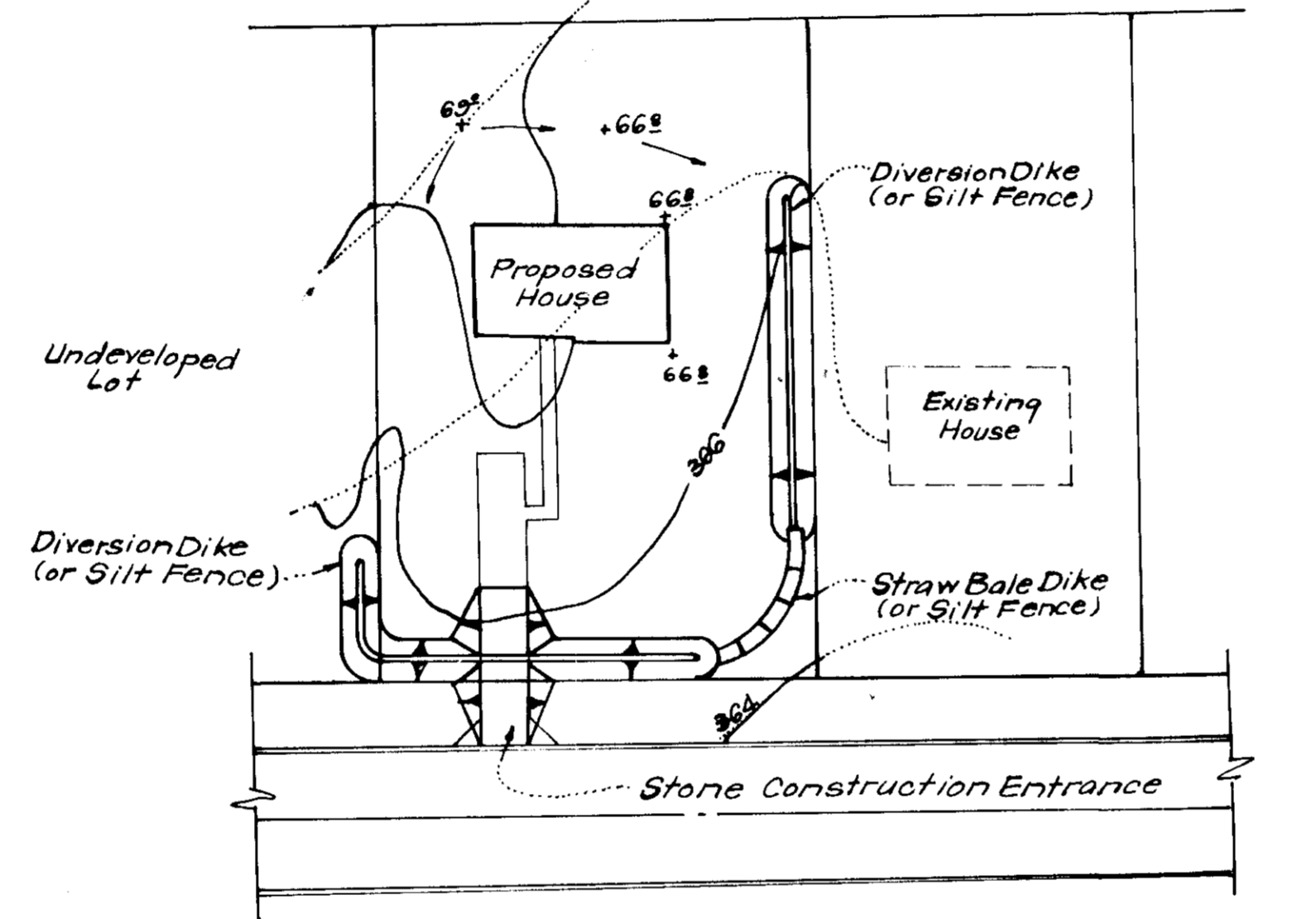
SECTION VIEW

STONE FILTER INLET PROTECTION DETAIL (S.F.I.P.)
 No Scale

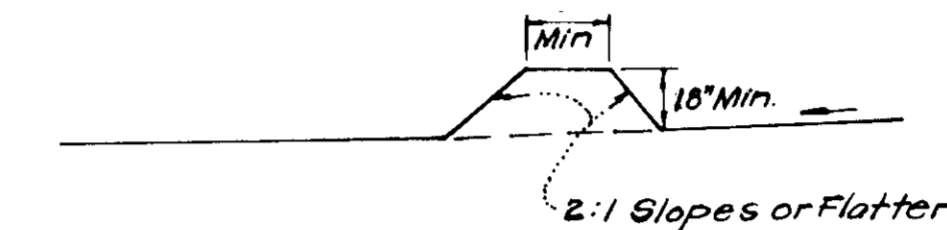


SECTION VIEW

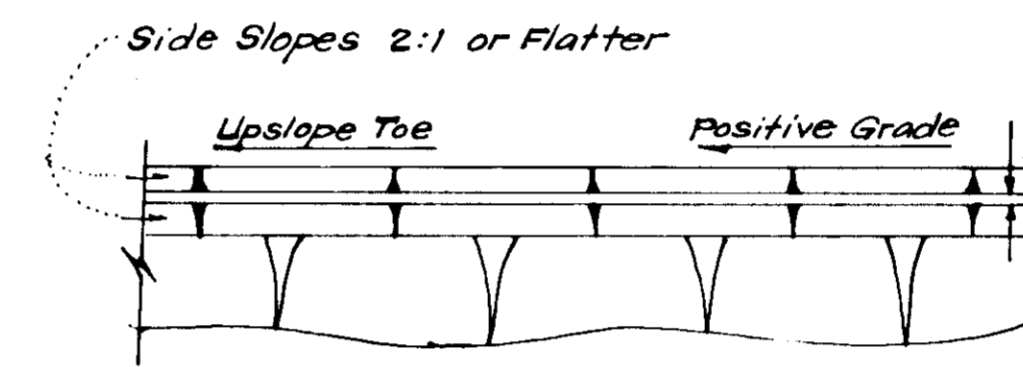
STONE CONSTRUCTION ENTRANCE DETAIL (S.C.E.)
 No Scale



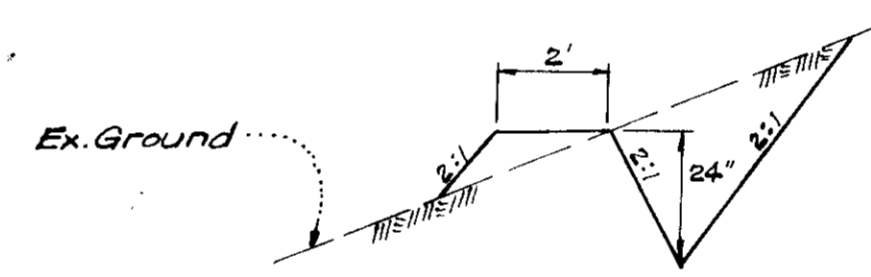
TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN
 No Scale



CROSS SECTION



PLAN VIEW
DIVERSION DIKE (D.D.)
 No Scale



CUT DIVERSION DIKE
 No Scale

Reviewed for... HOWARD ...S.C.D.
 Name
 and meets Technical Requirements
 Signature: L. Wagner Date: 12.15.78
 U.S. Soil Conservation Service

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

WES Egan Approved 12-5-78 Date

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I will authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

L.B. Sargent Signature 10-18-78 Date
 L.B. Sargent

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.

G. Nelson Clark Signature 8-17-78 Date
 G. Nelson Clark



APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 11-24-78
WJM

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John Boyles Signature 12-19-78 Date
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Mudd Signature 12-19-78 Date
 PLANNING DIRECTOR
 CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard E. Freudenberg Signature 12/14/78 Date
 DIRECTOR
 CHIEF BUREAU OF ENGINEERING

CLARK • FINEPROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 1115 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400	
DESIGNED	SEDIMENT & EROSION CONTROL PLAN LOTS 19 THRU 22 & LOTS 33 THRU 52 LOTS 84 THRU 89 & LOTS 96 THRU 106 COLUMBIA VILLAGE OF LONGREACH SECTION 1, AREA 10 B, 'A' 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP INC. Suite 200 Y.O.M. OFFICE BLDG. Columbia, Maryland 21046 SDP-79-57c
DRAWN	SCALE: As Shown
CHECKED	DRAWING: 70p7
DATE	JOB NO.
Oct, 1978	FILE NO. 1368-X