

SITE ANALYSIS:
 1. Zone: New Town (FDP-167, 5FMD)
 2. Area: Residential Lots 29 = 318,256 sq ft or 7.306 acs
 3. Max. No. of units permitted: 22
 4. Number of units shown: 22
 5. No. of Parking Spaces required: 2 Parking spaces / 3 FD unit.
 6. See Sits 3 and 4 for Sediment and Erosion Control Plans.

- NOTES & LEGEND:**
- Contour Interval 2 ft
 - Existing Contour 350
 - Proposed Contour 350
 - Proposed Spot Elevation 152'
 - Proposed Storm Drain
 - All streets to be public owned and maintained.
 - Flat Reference FB 3054-A Plats 55-58
 - All building restrictions to be complied with those set forth in Final Development Phase 167 recorded in FB 3054-A, Folios 55 thru 58.
 - Public water & sewer to be utilized.
 - The Area included in this submission is located on Tax Map 30, Parcels 113, 122, 280
 - Installation of all driveways shall be in accordance with the 1968 Edition of the Manual of Specifications for Materials, Highways, Bridges, Development and Roads and Streets, and Incidental Structures.
 - 100 yr. Flood Plain Elevation 350'
 - Walkout Basement
 - Timber Retaining Wall

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done in accordance to this plan of development and plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

6-11-79
 Signature: Mike Richards
 Mike Richards
 Winchester Homes

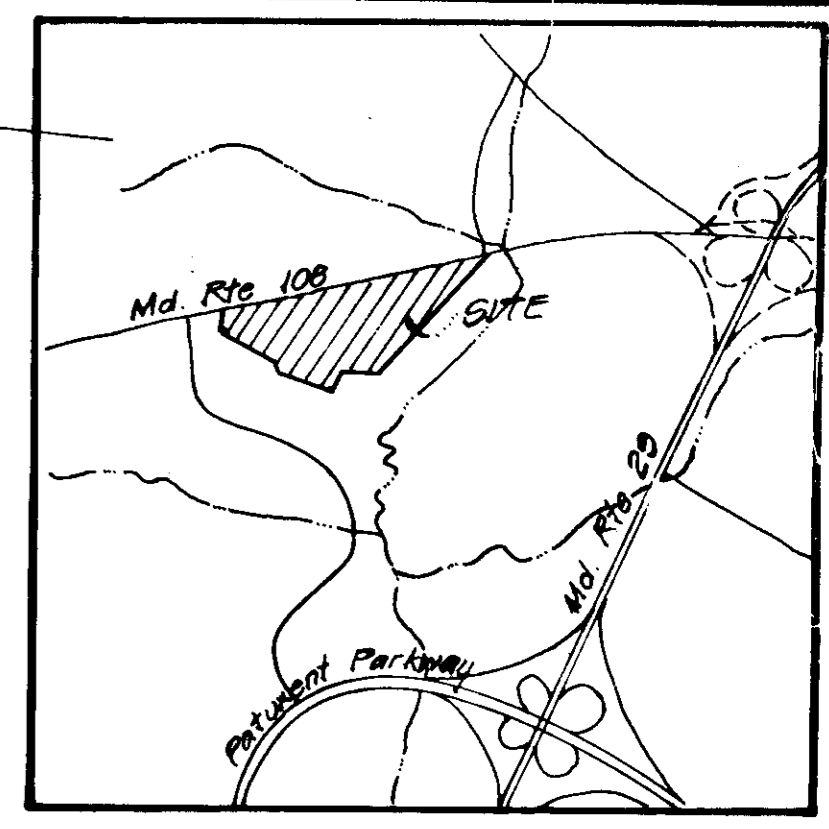
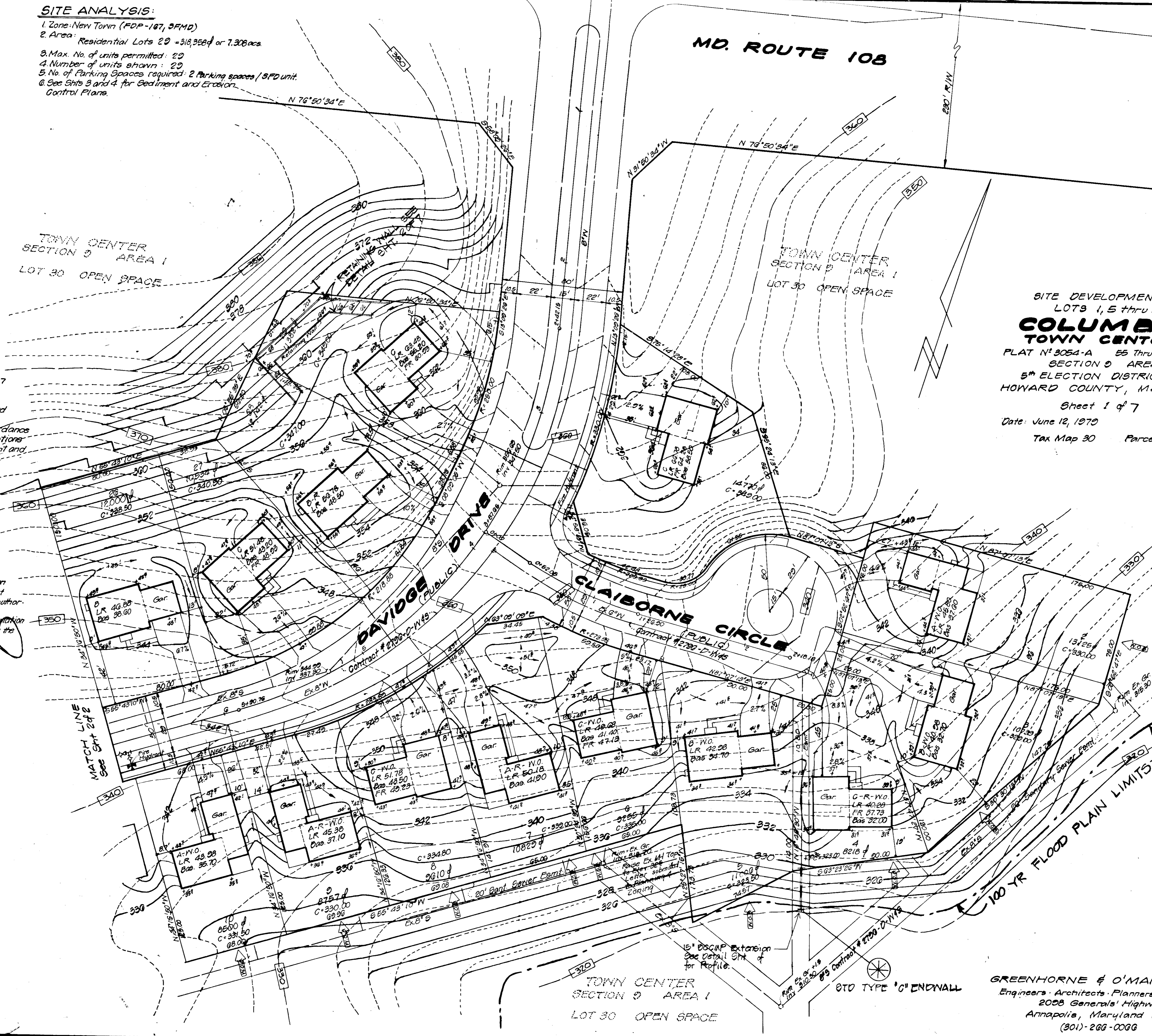
APPROVED: Howard County Office of Planning & Zoning
 Planning Director: [Signature]
 Date: 8-21-79

APPROVED: [Signature]
 Chief, Division of Land Development
 Date: 8-21-79

APPROVED: For Public water and public sewerage, storm drainage systems and public roads.
 Howard County Department of Public Works
 Director: [Signature]
 Date: 8-16-79

APPROVED: [Signature]
 Chief, Bureau of Engineering
 Date: 8-15-79

APPROVED: For Public water and public sewerage systems.
 Howard County Health Department
 County Health Officer: [Signature]
 Date: 8-20-79



SITE DEVELOPMENT PLAN
 LOTS 1, 5 thru 29
COLUMBIA TOWN CENTER
 PLAT N° 3054-A 55 thru 58 INCLUSIVE
 SECTION 9 AREA 1
 5th ELECTION DISTRICT (FIFTH)
 HOWARD COUNTY, MARYLAND

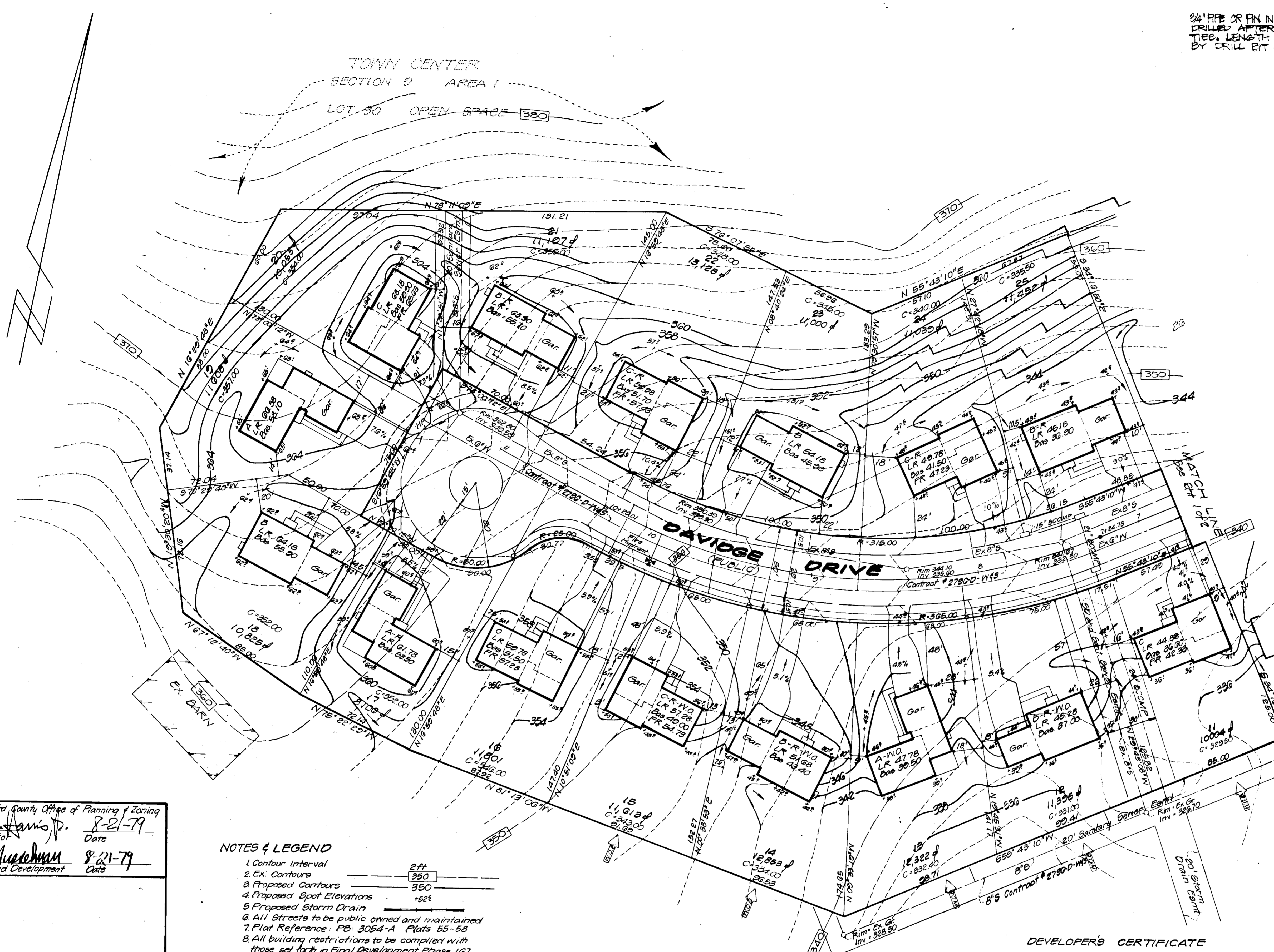
Sheet 1 of 7
 Date: June 12, 1979 Scale: 1"=30'
 Tax Map 30 Parcels 113, 122, 280

OWNER:
 Howard Research & Development Corp.
 Columbia, Md.

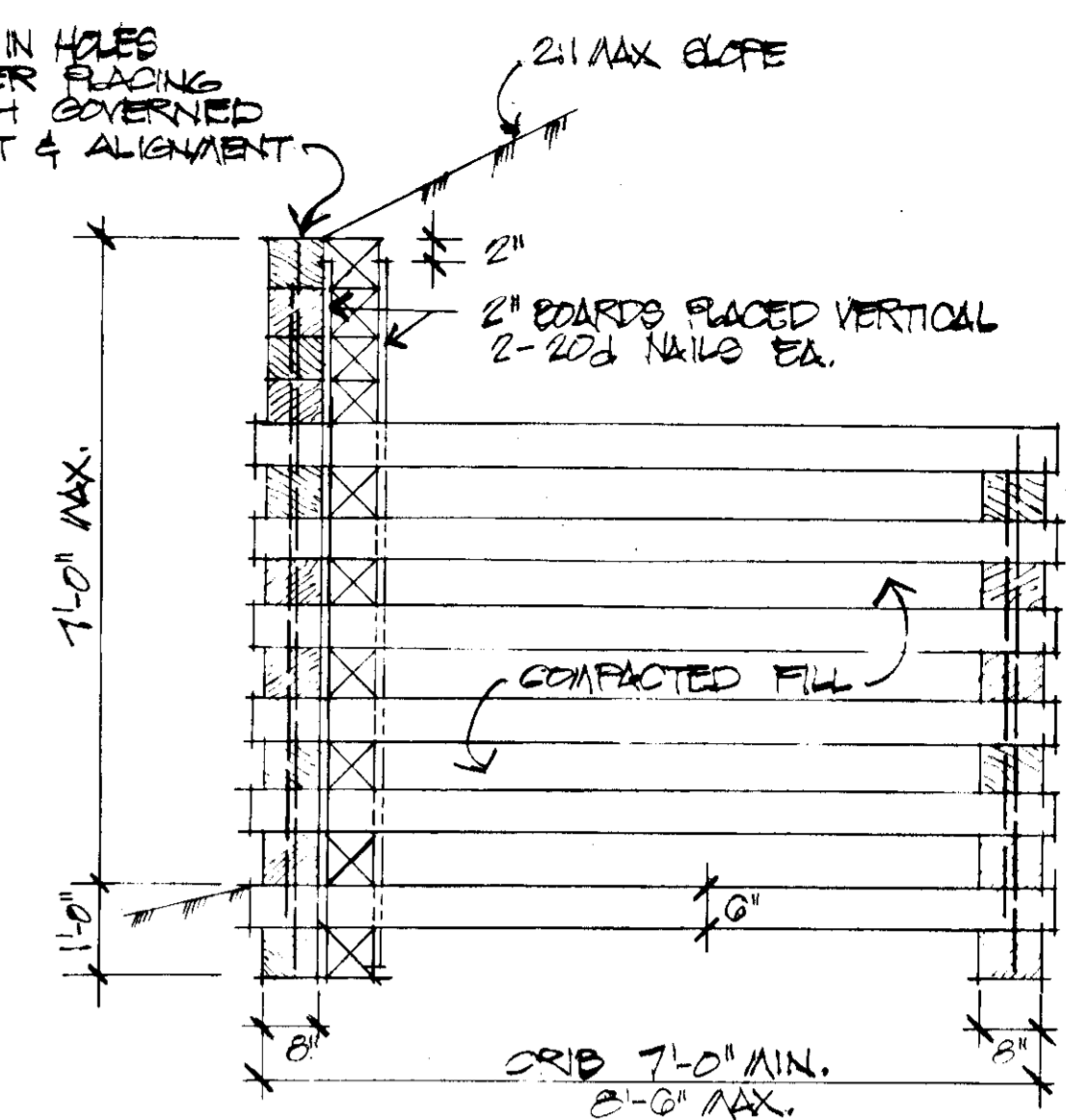
DEVELOPER / OWNER:
 Winchester Homes, Inc.
 P.O. Box 38
 Pasadena, Maryland 21122
 (301) 544-1366

APPROVED:
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 7-26-79
 [Signature]

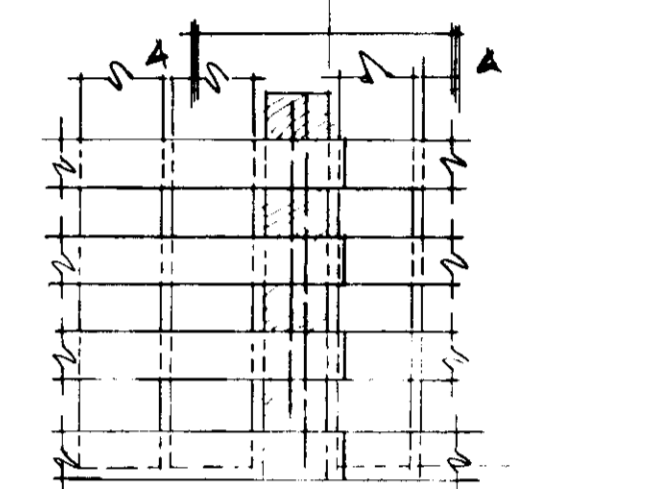
GREENHORNE & O'MARA, INC.
 Engineers, Architects, Planners, Surveyors
 2008 Generals Highway
 Annapolis, Maryland 21401
 (301) 266-0066



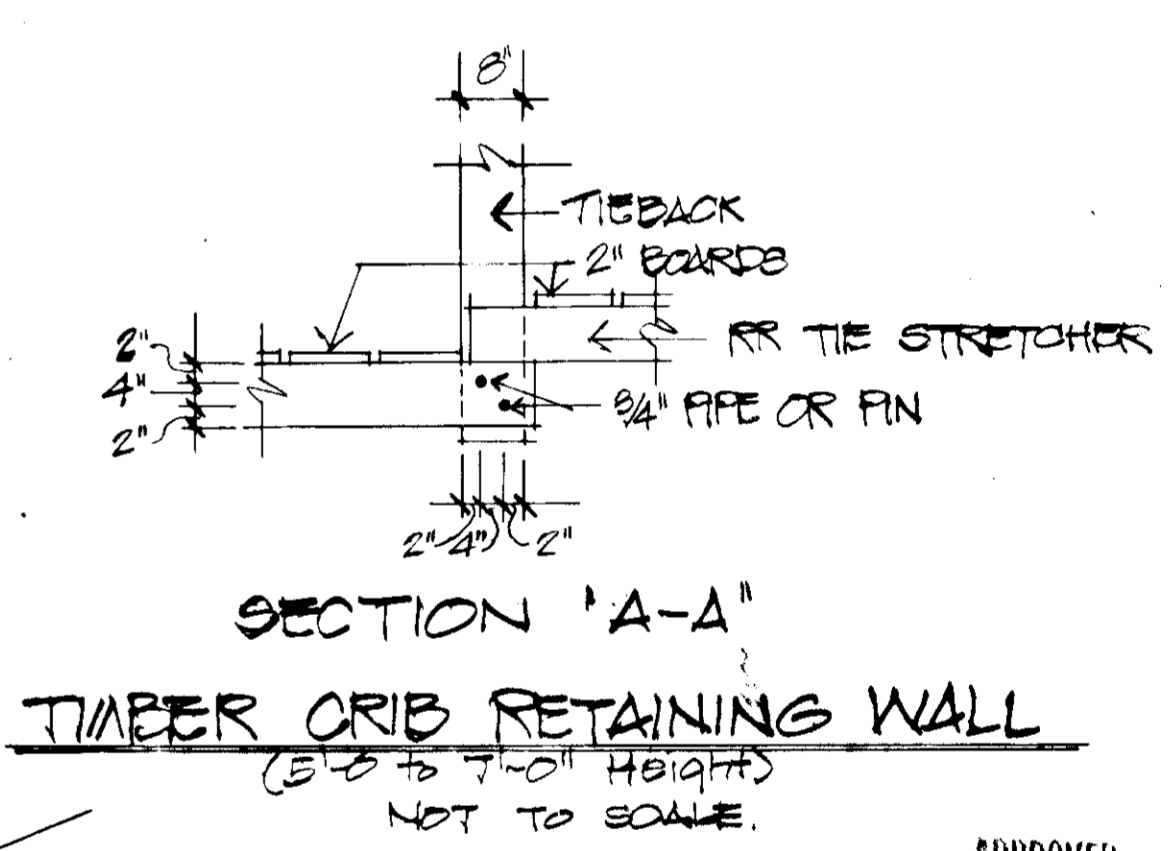
3/4" PIPE OR FIN IN HOLES
DRILLED AFTER PLACING
TIE, LENGTH GOVERNED
BY DRILL BIT & ALIGNMENT



CRIB 7'-0" MAX.
2'-0" MAX.



PART ELEVATION



APPROVED
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
DATE 7-26-79
JMM

SITE DEVELOPMENT PLAN
LOTS 1, 5 THRU 29
COLUMBIA TOWN CENTER

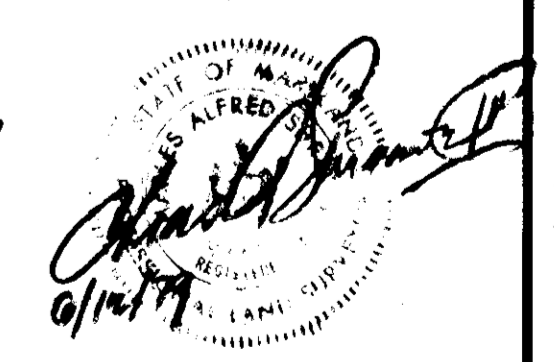
PLAT N° 3054-A 55 THRU 58 INCLUSIVE
SECTION 9 AREA 1
5TH ELECTION DISTRICT (FIFTH)
HOWARD COUNTY, MARYLAND
Sheet 2 of 7
Date: June 12, 1979 Scale: 1"=30'
Tax Map 30 Parcels 119, 122, 280

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction, will be done in accordance to this plan of development and plan of erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
6-11-79
Date
Michael Michael
Mike Michael
Winchester, Homes

100 YR FLOOD PLAIN LIMITS

GREENHORNE AND O'MARA, INC.
Engineers Architects Planners Surveyors
2026 Generals' Highway
Annapolis, Maryland 21401
(301) 200-0000



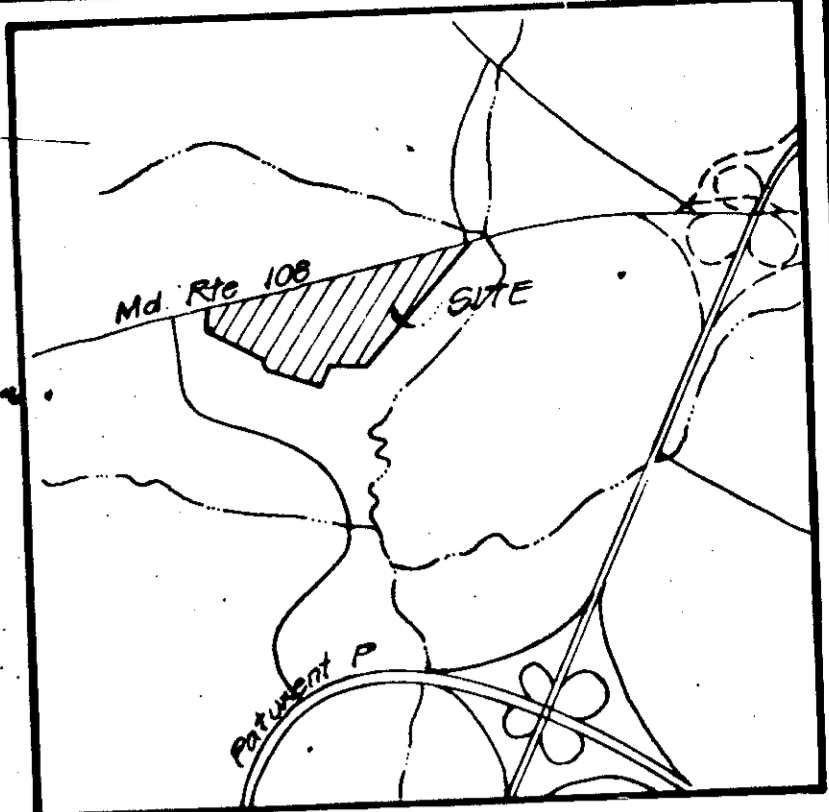
APPROVED: Howard County Office of Planning & Zoning
James J. Harris, Jr. 8-21-79
Planning Director Date
Sam W. Mueselman 8-21-79
Chief, Division of Land Development Date

NOTES & LEGEND

1. Contour Interval 2'±
2. Ex. Contours 350
3. Proposed Contours 350
4. Proposed Spot Elevations +52'
5. Proposed Storm Drain
6. All Streets to be public owned and maintained
7. Plat Reference: PB 3054-A Plats 55-58
8. All building restrictions to be complied with those set forth in Final Development Phase 1G7 recorded in PB 3054-A, Folios 56 thru 58
9. Public water & sewer to be utilized
10. The Area included in this submission is located on Tax Map 30, Parcels 119, 122, 280
11. Installation of all driveways shall be in accordance with the 1968 Edition of the Manual of Specifications for Materials, Highways, Bridges, Development and Roads and Streets, and Incidental Structures
12. 100 yr Flood Elevation 350'
13. Walkout Basement

APPROVED: For public water and public sewerage, storm drainage systems and public roads
Howard County Department of Public Works
Director Date
W. O. Lister 8-21-79
Chief, Bureau of Engineering Date

APPROVED: For public water and public sewerage systems
Howard County Health Department
County Health Officer Date
8-21-79



MD. ROUTE 108

SITE LANDSCAPE PLAN
 LOTS 1, 5 thru 20
COLUMBIA TOWN CENTER
 PLAT # 9054-A 55 thru 58 INCLUSIVE
 SECTION 9 AREA 1
 5th ELECTION DISTRICT (FIFTH)
 HOWARD COUNTY, MARYLAND
 Sheet 3 of 7
 Date June 4, 1979 Scale 1"=30'
 Tax Map 30 Parcels 119, 122, 280

LEGEND

Contour Interval 2 Feet
 Existing Contour 100
 Proposed Contour 100
 Spot Elevations +56'
 Yard Requirements Front 20' (60' R/W) 30' (80' R/W) Side 75' (Min)

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done in accordance to this plan of development and plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents. Deviation from this plan will not be made without approval by the Howard Soil Conservation District.

8-11-79 Date
 Signature

DEVELOPER/OWNER
 Winchester Homes, Inc
 P.O. Box 38
 Pasadena, Maryland 21122
 (301) 544-1366

APPROVED Howard County Office of Planning & Zoning
 Planning Director
 8-21-79 Date

APPROVED
 Chief, Division of Land Development
 8-21-79 Date

APPROVED For Public water and public sewerage, storm drainage systems and public roads
 Howard County Department of Public Works
 Director
 8-16-79 Date
 Chief, Bureau of Engineering
 8-15-79 Date

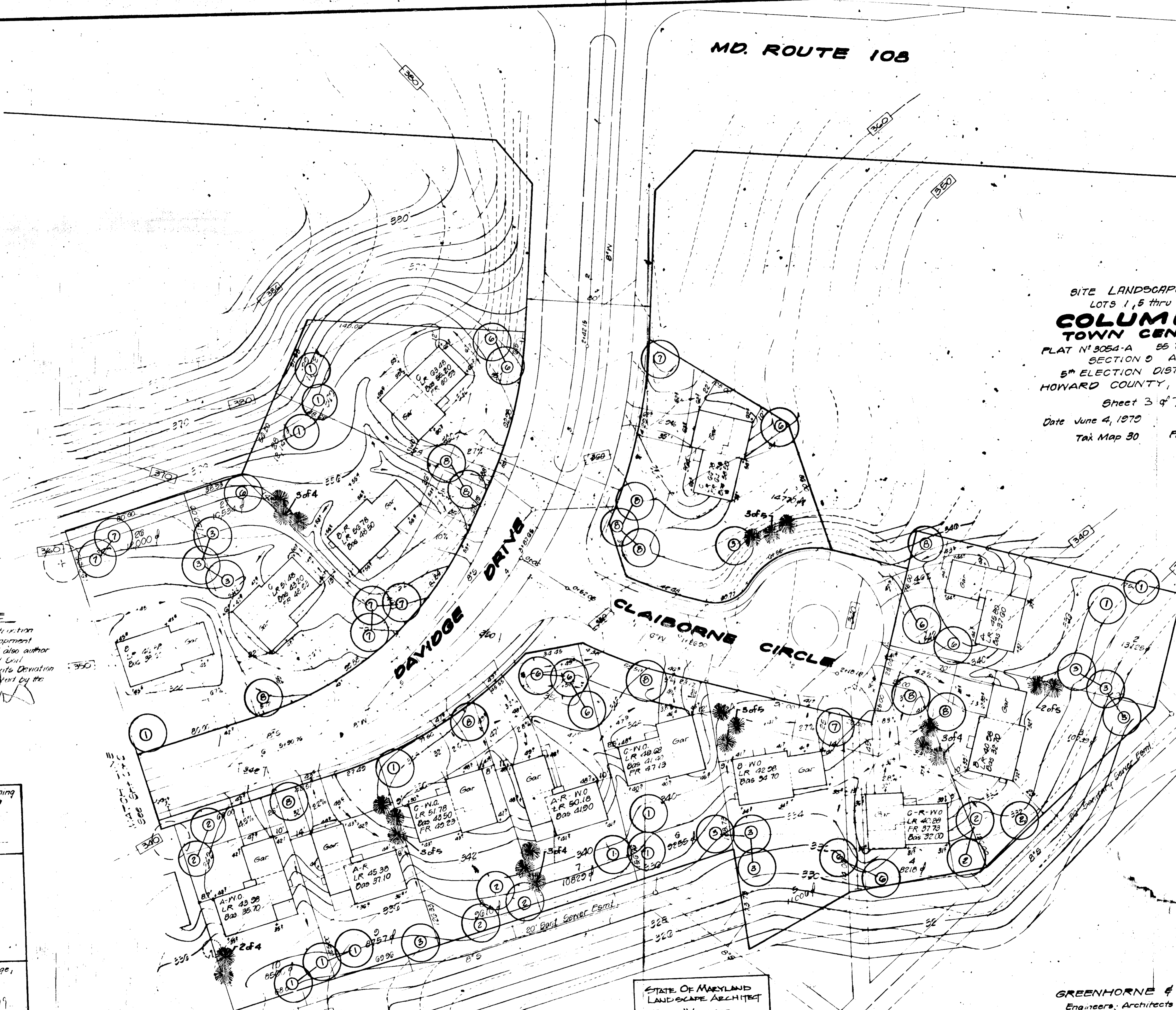
APPROVED For Public water and public sewerage systems
 Howard County Health Department
 County Health Officer
 8-20-79 Date

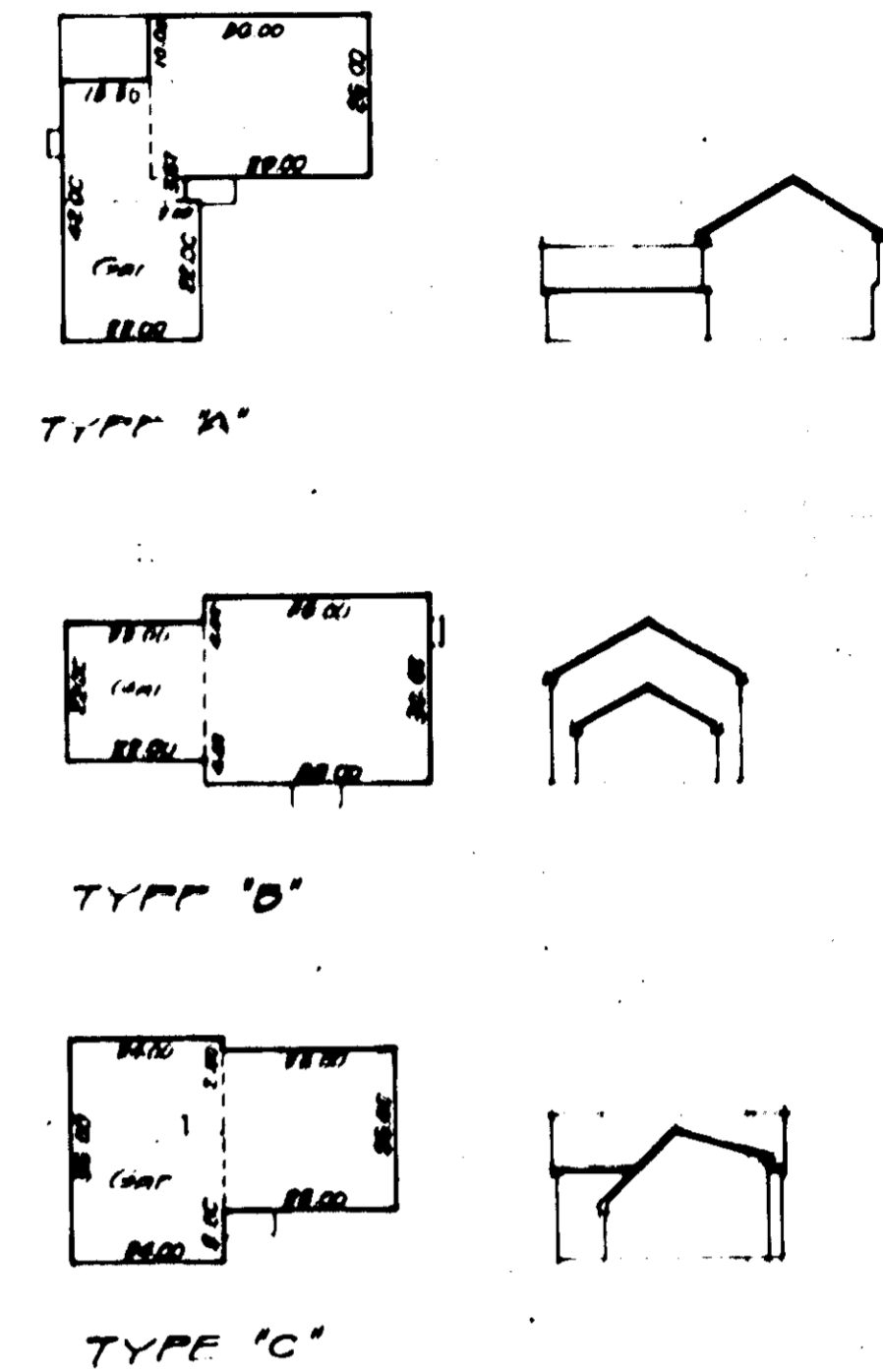
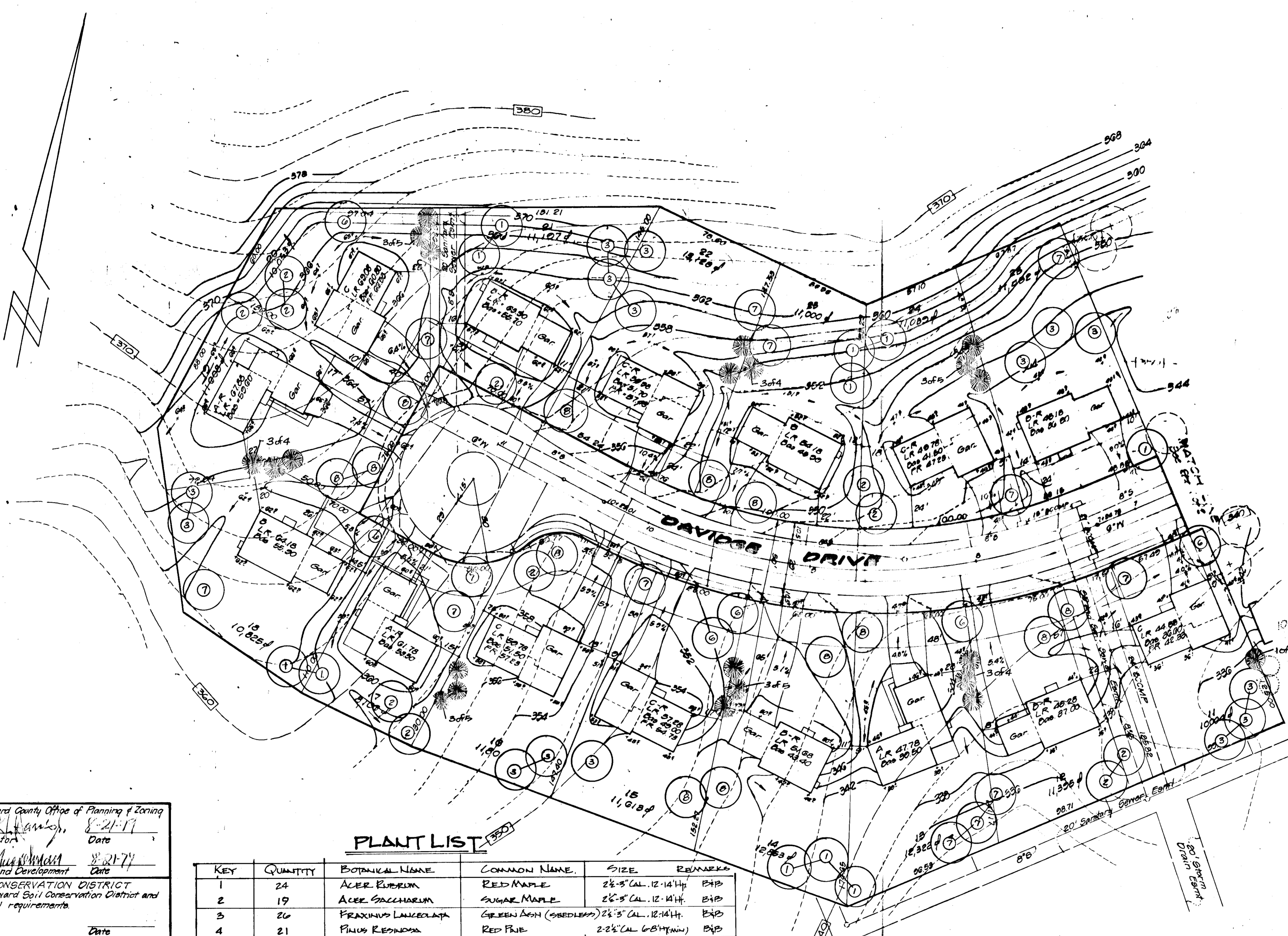
APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 7-26-79
 SWM

STATE OF MARYLAND
 LANDSCAPE ARCHITECT
 MARK WELLAZ
 R.L.A. # 289
 mark wellaz

GREENHORNE & O'MARA, INC.
 Engineers, Architects, Planners, Surveyors
 2098 Generals Highway
 Annapolis, Maryland 21401
 (301) 266-0066

SHEET 3 OF 7
 SDP-79-167-A-102X-01





DEVELOPER'S CERTIFICATE
 I certify that all development and/or construction will be done in accordance to this plan of development and plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
 DATE: 6-11-79
 SIGNATURE: *Michael M. Rich*
 MIKE RICHARDS
 Winchester Homes, Inc.

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 7-26-79
[Signature]

SITE LANDSCAPE PLAN
 LOTS 1, 5 Thru 20
COLUMBIA TOWN CENTER
 PLAT N°3054-A 55 Thru 58 INCLUSIVE
 SECTION 9 AREA 1
 5th ELECTION DISTRICT (FIFTH)
 HOWARD COUNTY, MARYLAND
 Sheet 4 of 7
 Date: June 4, 1979 Scale: 1"=30'
 Tax Map 30 Parcels 119, 122, 280

GREENHORNE AND O'MARA, INC.
 Engineers Architects Planners Surveyors
 2020 Generals Highway
 Annapolis, Maryland 21401
 (301)-200-0000

APPROVED: Howard County Office of Planning & Zoning
[Signature] 8-21-77
 Planning Director Date

HOWARD SOIL CONSERVATION DISTRICT
 reviewed for Howard Soil Conservation District and meets technical requirements.

Signature Date
 This plan is approved for sediment and soil erosion control by the Howard Soil Conservation District.

Howard Soil Conservation District Date

APPROVED: For public water and public sewerage, storm drainage systems and public roads
 Howard County Department of Public Works

[Signature] 8-15-79
 Director Date
[Signature] 8-17-79
 Chief, Bureau of Engineering Date

APPROVED: For public water and public sewerage systems
 Howard County Health Department
[Signature] 8-21-79
 County Health Officer Date

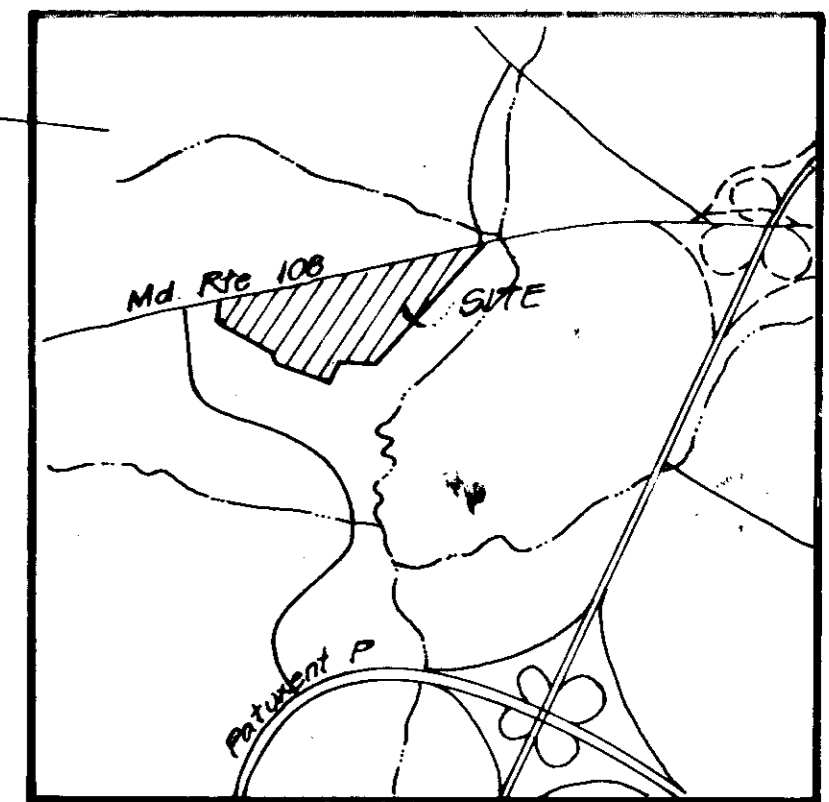
PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
1	24	ACER RUBRUM	RED MAPLE	2 1/2" CAL. 12-14' HT.	B4B
2	19	ACER SACCHARUM	SUGAR MAPLE	2 1/2" CAL. 12-14' HT.	B4B
3	26	FRAXINUS LANCEolata	GREEN ASH (SEEDLESS)	2 1/2" CAL. 12-14' HT.	B4B
4	21	Pinus RESINOSA	RED PINE	2-2 1/2" CAL. 6-8' HT. MIN.	B4B
5	23	Pinus STROBILUS	WHITE PINE	2-2 1/2" CAL. 6-8' HT. MIN.	B4B
6	17	QUERCUS COCCINIFERA	SCARLET OAK	2 1/2" CAL. 12-14' HT.	B4B
7	20	QUERCUS PALUMBERS	PILE OAK	2 1/2" CAL. 12-14' HT.	B4B
8	25	QUERCUS PHellos	WILLOW OAK	2 1/2" CAL. 12-14' HT.	B4B

- NOTES:
 1) ALL PLANT MATERIALS AND PLANTING METHODS ARE TO CONFORM WITH THE GUIDELINES OF (TRC COLUMBIA PLANTING SPECIFICATIONS)
 2) ALL SHADE TREES SHALL BE NURSERY GROWN STOCK 2 1/2" MINIMUM CALIBER 12-14' HT. MINIMUM WITH FULL HEADS, BALL & BURLAPPED
 3) ALL EVERGREEN TREES SHALL BE 2-2 1/2" CAL.; 6-8' HT. MINIMUM
 4) ALL PLANTS ARE TO CONFORM TO THE "AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK" LATEST EDITION.

STATE OF MARYLAND
 LANDSCAPE ARCHITECT
 MARK WEGLAZ
 R.L.A. # 285
Mark Weglaz

MD. ROUTE 108



APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-26-79
JUM

SEDIMENT CONTROL PLAN
LOTS 1, 5 Thru 29
COLUMBIA TOWN CENTER
PLAT N° 3054-A 55 Thru 58 INCLUSIVE
SECTION 9 AREA 1
5th ELECTION DISTRICT (FIFTH)
HOWARD COUNTY, MARYLAND
Sheet 5 of 7
Date June 4, 1979 Scale: 1"=30'
Tax Map 30 Parcels 119, 122, 280

NOTE!
SDD/EF MEANS EITHER STRAW
PILE DIKE OR SILT FENCE
CAN BE INSTALLED.

LEGEND
Contour Interval 2 Feet
Existing Contour 400
Proposed Contour 420
Spot Elevations +.66'
Yard Requirements Front 20' (60'R/W)
30' (80'R/W)
Side 7.5' (Min.)

DEVELOPER'S CERTIFICATE
I certify that all development and/or construction will be done in accordance to this plan of development and plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Date: 6-11-79
Signature: [Signature]

OWNER:
OWNER/DEVELOPER:
Winchester Homes, Inc.
PO Box 35
Pasadena, Maryland 21122
(301) 544-1366

APPROVED: Howard County Office of Planning & Zoning
Planning Director: [Signature] Date: 8-1-79
Chief, Division of Land Development: [Signature] Date: 8-1-79
HOWARD SOIL CONSERVATION DISTRICT
Review for Howard Soil Conservation District and meets technical requirements.
Signature: [Signature] Date: 8-10-79
This plan is approved for sediment and soil erosion control by the Howard Soil Conservation District.
Signature: [Signature] Date: 8-10-79
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
APPROVED: For Public water and public sewerage, storm drainage systems and public roads.
Director: [Signature] Date: 8-16-79
Chief, Bureau of Engineering: [Signature] Date: 8-16-79
APPROVED: For Public water and public sewerage systems.
County Health Officer: [Signature] Date: 8-20-79

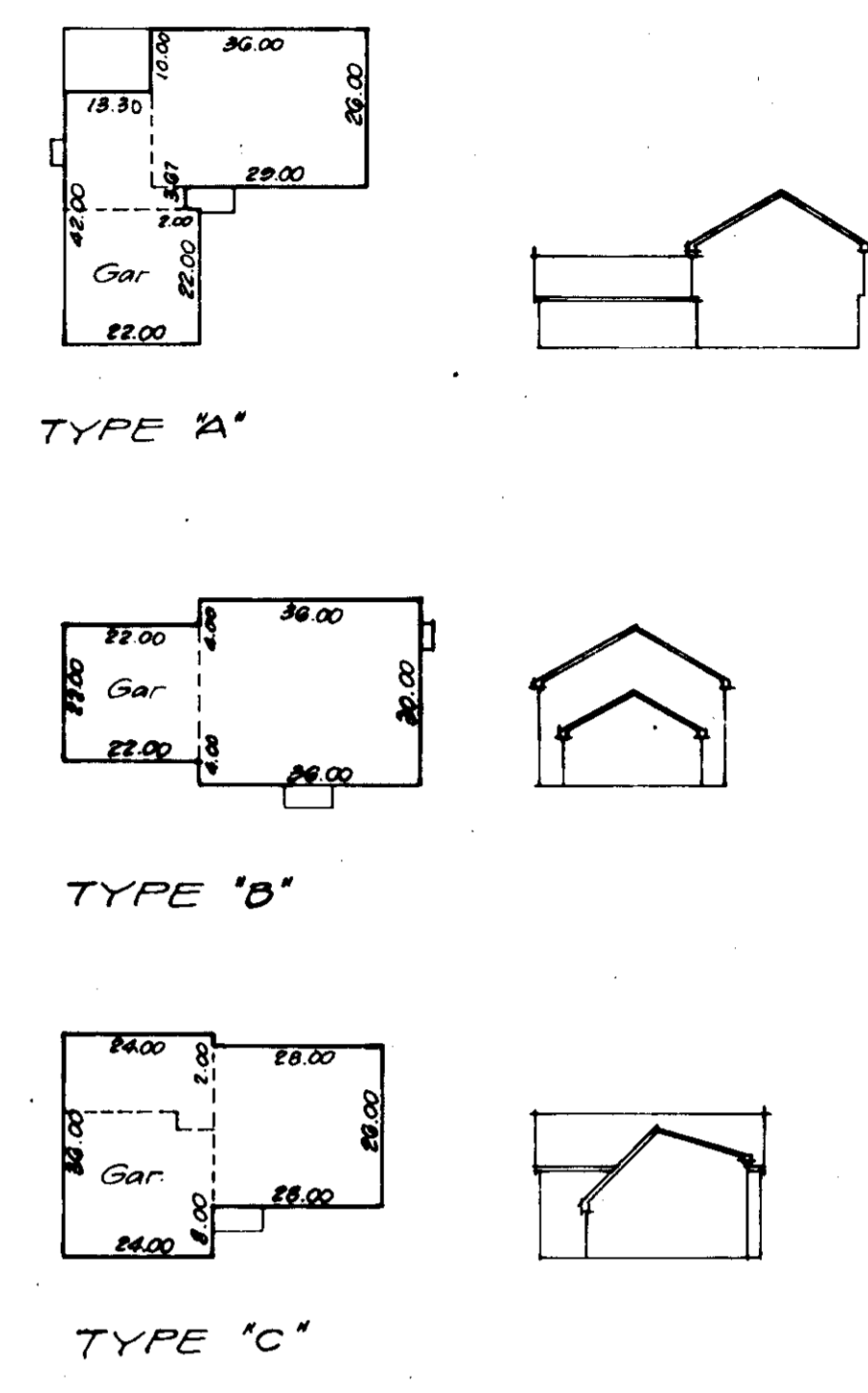
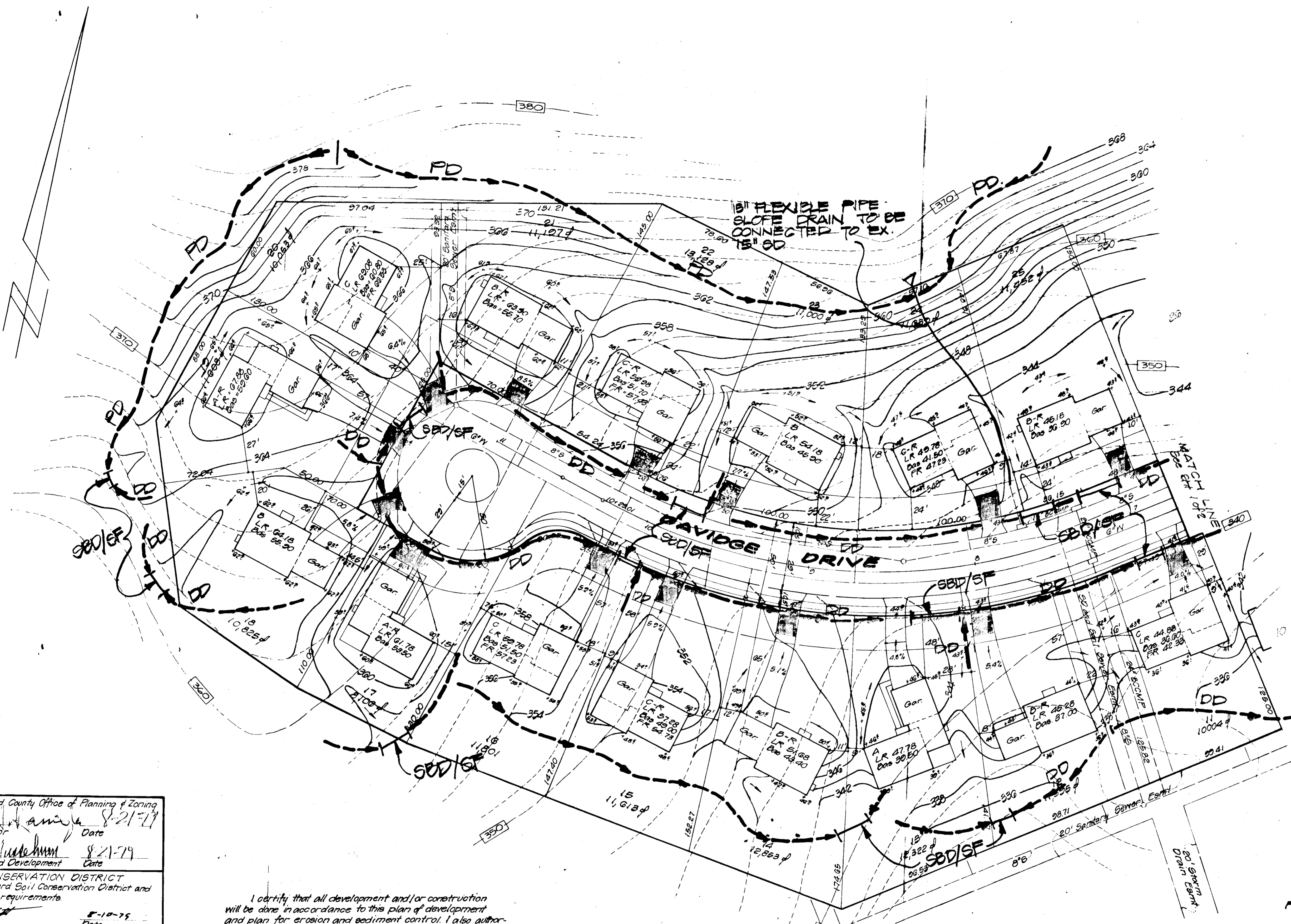
SURVEYOR'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Date: 6/12/79
Signature: [Signature]
Charles A. Shreeve, III
Reg. P.L.E. Md # 9452

STONE OUTLET SEDIMENT TRAP #2
Bot. El. = 317.00 TOP BERM = 321.00
Bot. Area = 32x22 (640 SF) CLEANOUT ELEV. = 318.00
Drainage Area = 0.7 ac ±
Disturbed Area = 0.7 ac ±
Stor. Vol. required = 47 cu
Stor. Vol. provided = 47 cu.
GREENHORNE & O'MARA, INC.
Engineers, Architects, Planners, Surveyors
2008 Generals Highway
Annapolis, Maryland 21401
(301)-266-0000

STONE OUTLET SEDIMENT TRAP #1
Bot. El. = 317.00 TOP BERM = 321.00
Bot. Area = 50x25 (1000 SF)
Drainage Area = 1.1 ac ±
Disturbed Area = 1.1 ac ±
Storage Vol. required = 74 cu
Storage Vol. provided = 74 cu
CLEANOUT ELEV. = 318.00

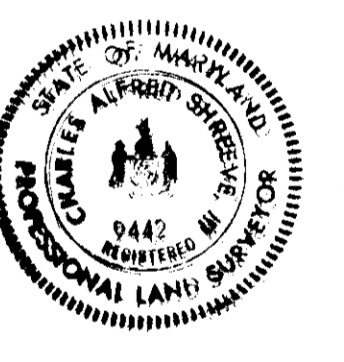
SEE DETAIL SHT. 7 of 7

SHEET 5 OF 7
A-102X-01
SDP-79-167c



SURVEYORS CERTIFICATE
 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.
 6/12/79
 Date
 Charles A. Shreeve
 Reg. PLS Md # 5342

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 7-26-79
 JWM



SEDIMENT CONTROL PLAN
 LOTS 1, 5 thru 29
COLUMBIA TOWN CENTER
 PLAT N#3054-A 55 THRU 58 INCLUSIVE
 SECTION 9 AREA 1
 5th ELECTION DISTRICT (FIFTH)
 HOWARD COUNTY, MARYLAND
 Sheet 6 of 7
 Date: June 4, 1979 Scale: 1"=30'
 Tax Map 30 Parcels 110, 122, 280

GREENHORNE AND O'MARA, INC.
 Engineers Architects Planners Surveyors
 2098 Generals Highway
 Annapolis, Maryland 21401
 (301)-200-0000

SHEET 6 OF 7
 A-108X-D2
 SDP-79-167c

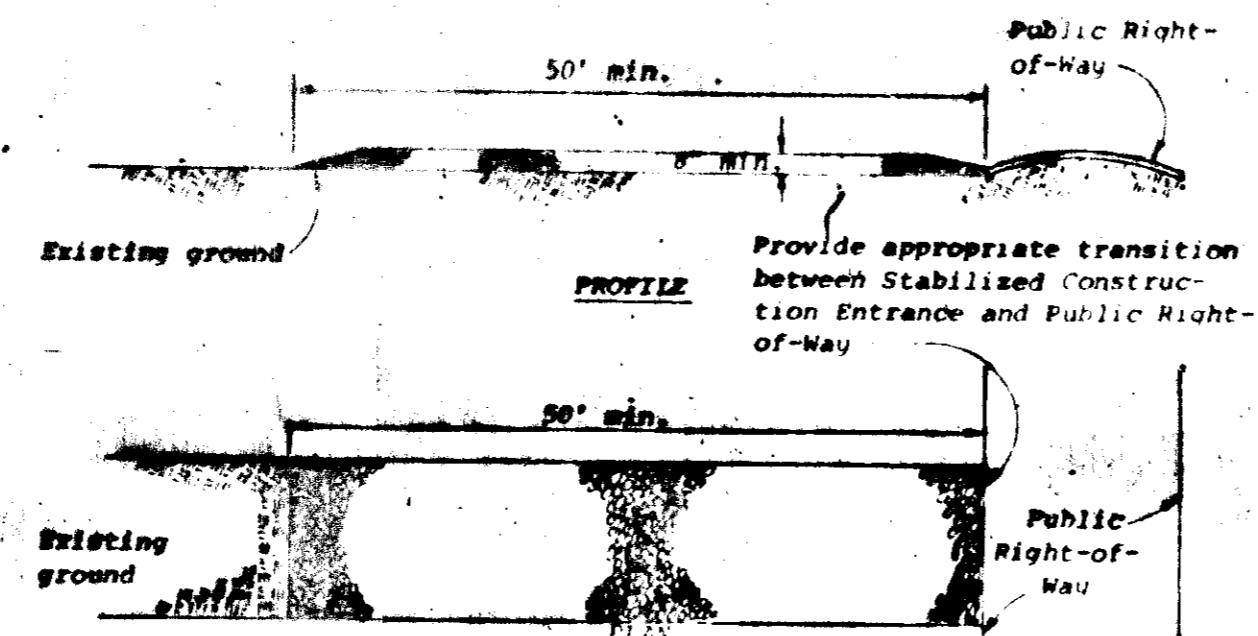
APPROVED: Howard County Office of Planning & Zoning
 Planning Director Date 8-21-79
 Chief, Division of Land Development Date 8-21-79
 HOWARD SOIL CONSERVATION DISTRICT
 Reviewed for Howard Soil Conservation District and meets technical requirements
 Signature Date 8-10-79
 This plan is approved for sediment and soil erosion control by the Howard Soil Conservation District.
 Signature Date 8-10-79
 APPROVED: For public water and public sewerage, storm drainage systems and public roads
 Howard County Department of Public Works
 Director Date 8-1-79
 Chief, Bureau of Engineering Date 8-1-79
 APPROVED: For public water and public sewerage systems
 Howard County Health Department
 County Health Officer Date 8-20-79

I certify that all development and/or construction will be done in accordance to this plan of development and plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
 6-11-79
 Date
 MIKE RICHARDS
 Winchester Homes

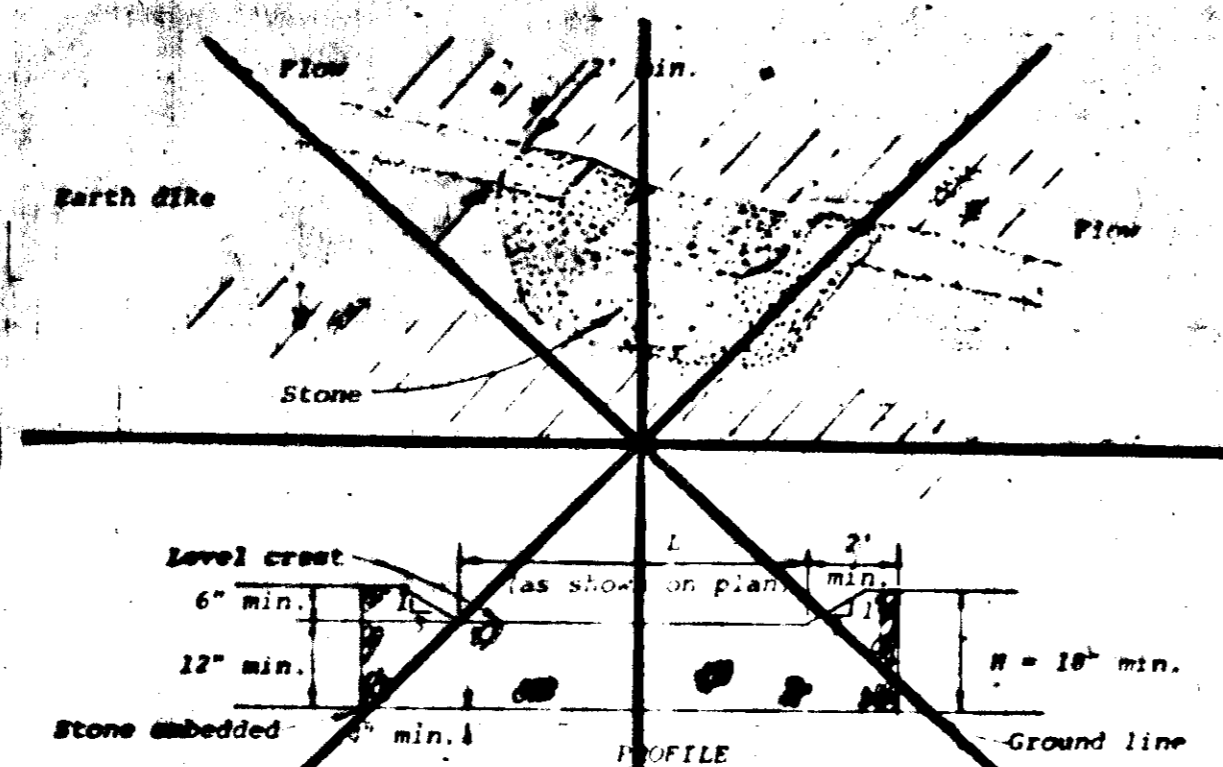
NOTE!
 SDP/OF MEANS EITHER STRAW BALE DIKE OR SILT FENCE CAN BE INSTALLED

SEDIMENT CONTROL NOTES

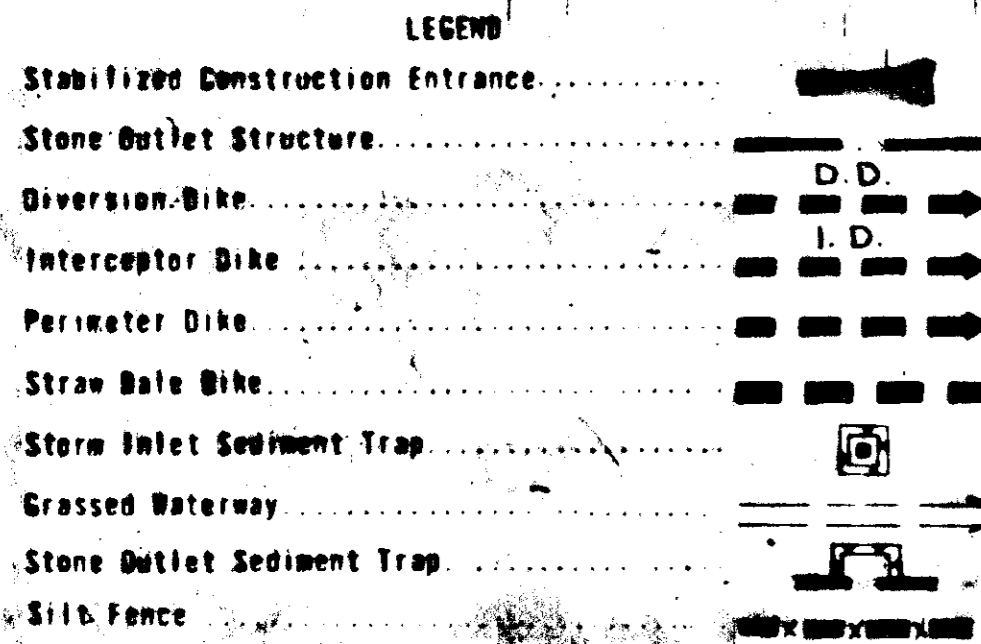
- Specifications for the Sediment Control Details shown hereon are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for soil erosion and sediment control in developing areas."
- A grading plan must be developed by the builder and approved before beginning any work shown hereon.
- The developer shall notify the Howard County Office of Inspections and Permits at least 24 hours prior to beginning any construction shown hereon (485-5000 Ext. 365).
- Sediment control structures to be constructed prior to any on-site grading or disturbance to any existing surface material, and are to be stabilized as soon as constructed.
- All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permits (485-5000 Ext. 365).
- All graded areas not to be seeded shall be stabilized by seeding and mulching in accordance with the following:
 - Site Preparation
 - Narrow or disc in areas proposed to be seeding the following materials at the specified rate to a depth of 3":
 - Pulverized limestone at 2 tons/acre.
 - Commercial fertilizer 10-10-10 at 1/2 tons/acre.
 - Super phosphate at 800 lbs/acre.
 - Seeding
 - Sow the following seed-mixture at the rate of 200 lbs/acre with a mechanical spreader:
 - Temporary: Italian or Perennial Ryegrass
 - Permanent: 40% Marion Blue Grass, 40% South Dakota Blue Grass and 20% Penn Lawn Creeping Red Fescue
 - The seeded area shall then be raked with a York Rake (a minimum of 2 passes) covered and compacted with Cultipacker or other approved method.
 - Mulching
 - Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 - 2 tons/acre.
 - Tie mulch down with liquid asphalt at 0.1 gal/s.y. or emulsified asphalt at 0.04 gal/s.y. or mulch netting.



STABILIZED CONSTRUCTION ENTRANCE

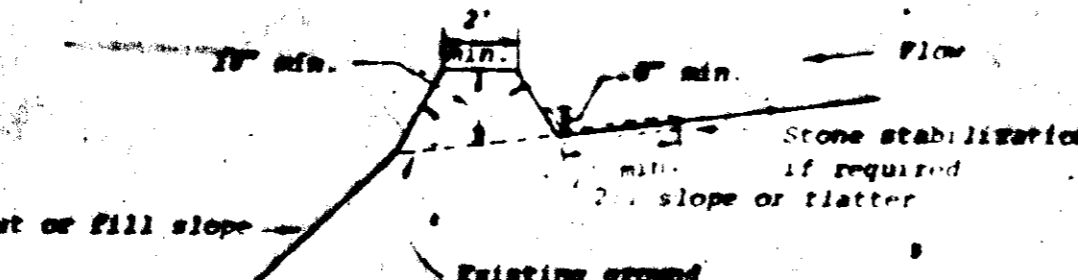


STONE OUTLET STRUCTURE

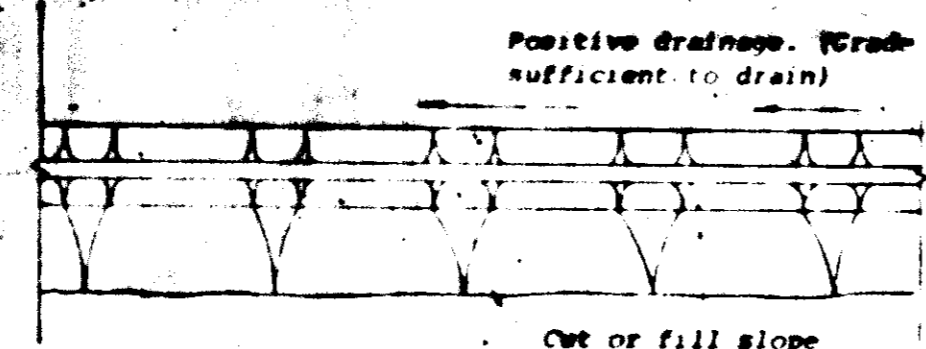


CONSTRUCTION SEQUENCE

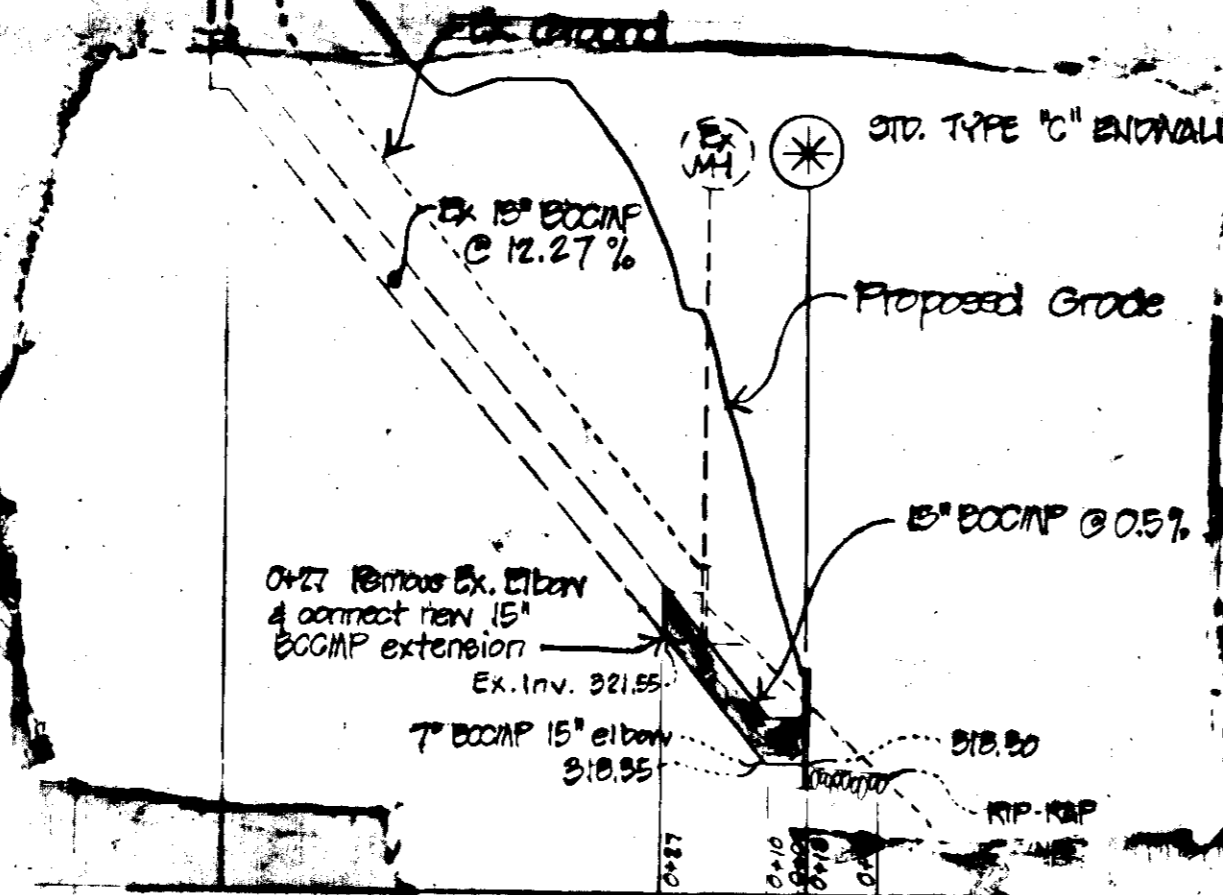
- Obtain Permit
- Construct Stone Outlet Sediment Traps #1 & 2
- Construct Perimeter dikes above lots 20 thru 22 and install 15" flexible pipe slope drain, connect to outlet at existing temporary pipe at ex. inlet.
- Construct perimeter dike above lots 19 & 20.
- Construct all diversion dikes and Straw Bale Dikes/Silt Fences.
- Stabilize all dikes with temporary seed & mulch.
- Construct temporary stabilized construction entrances.
- Rough Grade Site
- Stabilize Graded Areas with temporary seeding & mulch.
- Repair any sediment and erosion control devices disturbed during construction.
- Building Construction
- Fine Grade Site
- Stabilize with permanent seeding & mulch as required.
- Remove sediment control devices.



CROSS SECTION



DIVERSION DIKE



APPROVED: For public water and public sewerage systems, Howard County Health Dept.
 County Health Officer
 8-22-79
 Date

APPROVED: For public water and public sewerage, storm drainage systems and public roads, Howard County Department of Public Works
 Director
 W.D. Gilbert
 Chief, Bureau of Engineering
 8-18-79
 Date

APPROVED: Howard County Office of Planning & Zoning
 Planning Director
 8-21-79
 Date

I certify that all development and construction will be done according to this plan of development and that the Erosion and Sediment Control and I also authorize periodic on-site inspections by the Howard Soil Conservation District or their authorized agent, as provided in Section 1-11 of the Howard Soil Conservation District Ordinance, as amended, by the Howard Soil Conservation District.

ENGINEER: I certify that this plan for Erosion and Sediment Control represents a detailed and workable plan based on the personal knowledge of the Engineer and that it was prepared in accordance with the requirements of the Howard Soil Conservation District Ordinance, as amended, by the Howard Soil Conservation District.

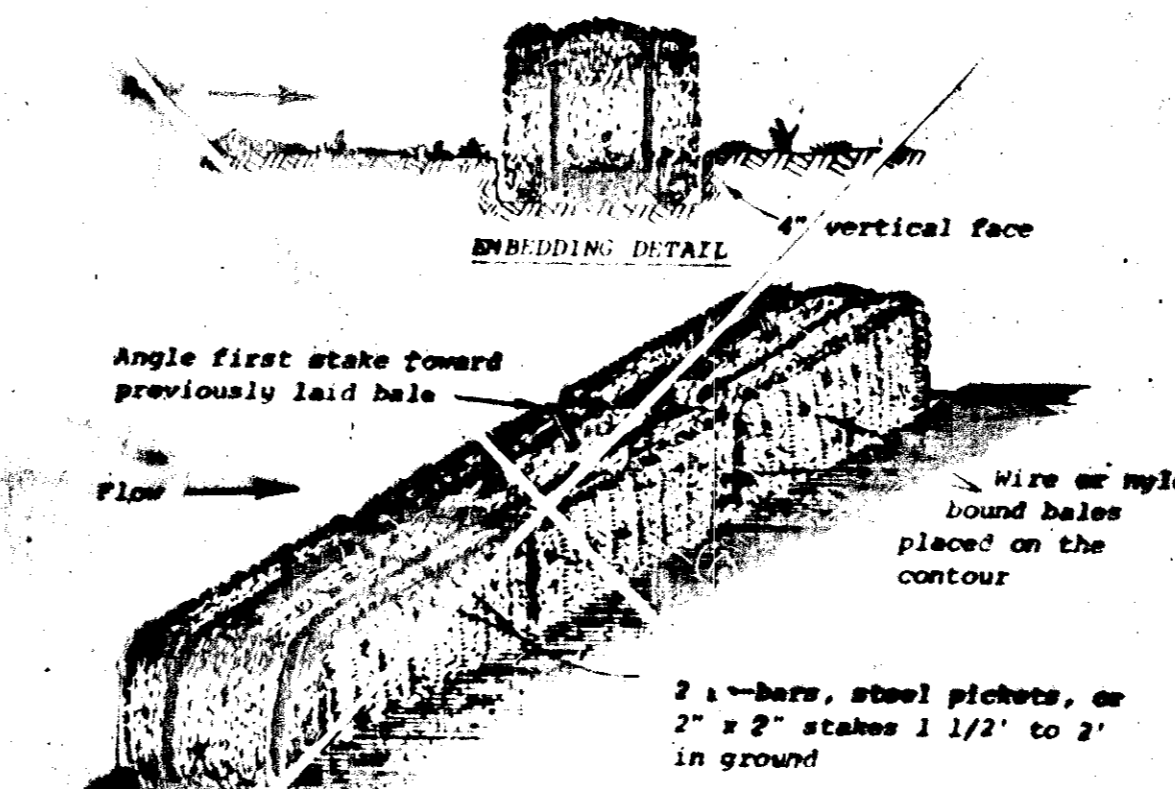


GREENHORNE & O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.
 301/277-2121 20840

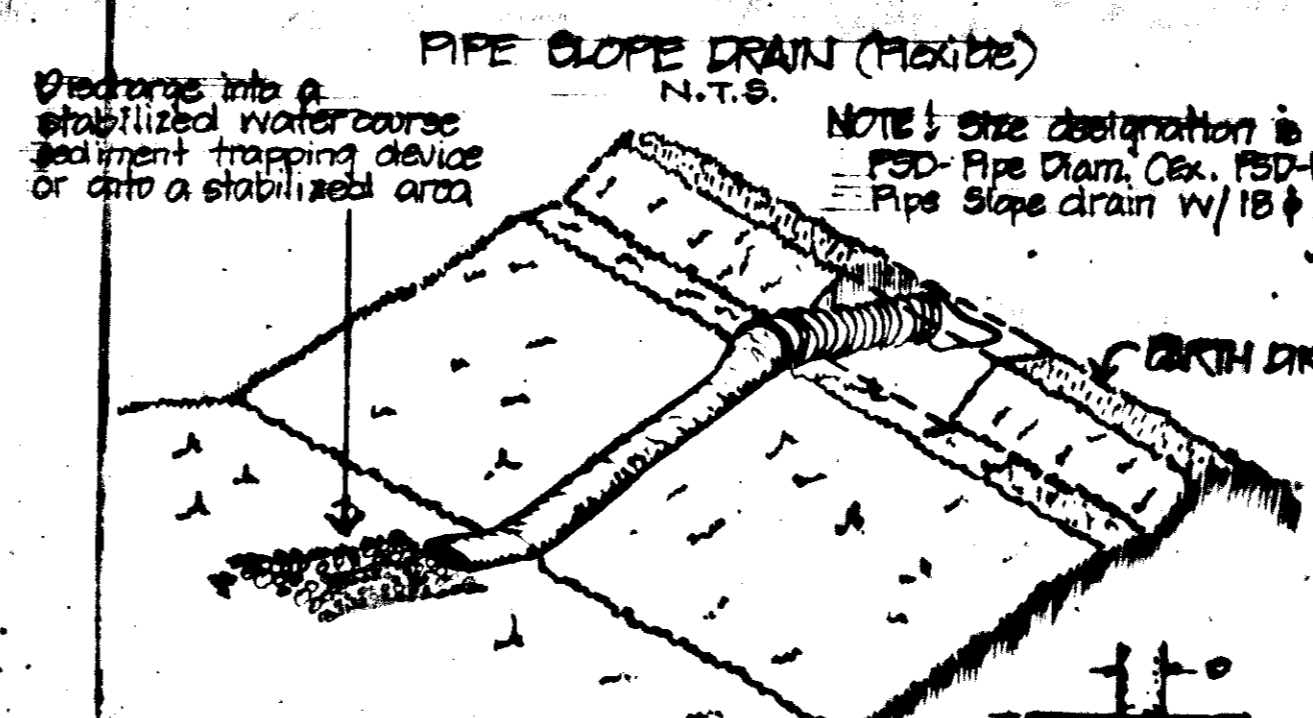
SEDIMENT CONTROL DETAILS
 LOTS 1, 5 thru 20
COLUMBIA TOWN CENTER
 PLAT # 3054-A 55-58 INCLUSIVE
 SECTION 9 AREA 1
 5th ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

DESIGN	SCALE
DRN.	As Shown
DATE	
CHECKED	SHEET
Jan 1978	7 of 7
DATE	FILE NO.
	182627 4-102-03

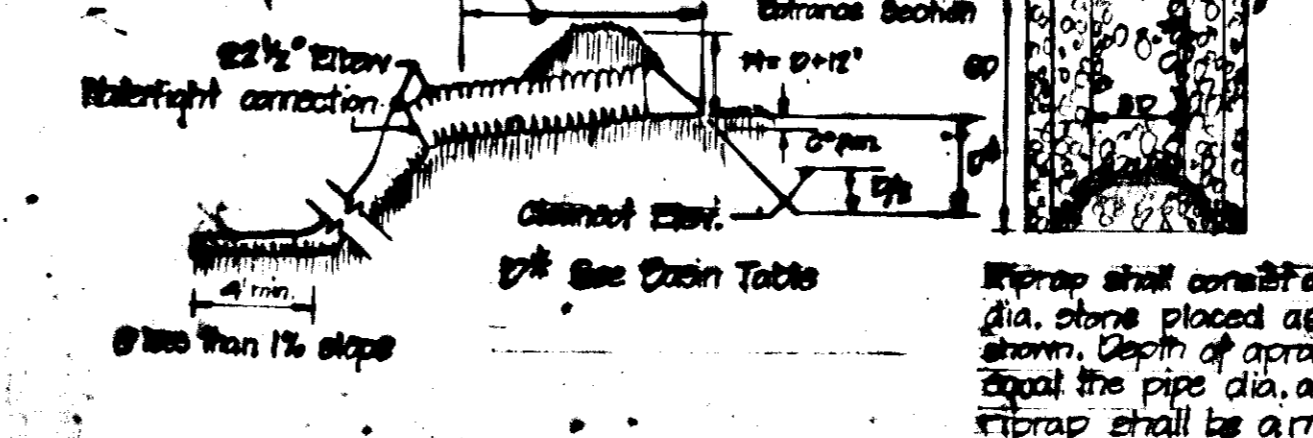
SDP-79-167c



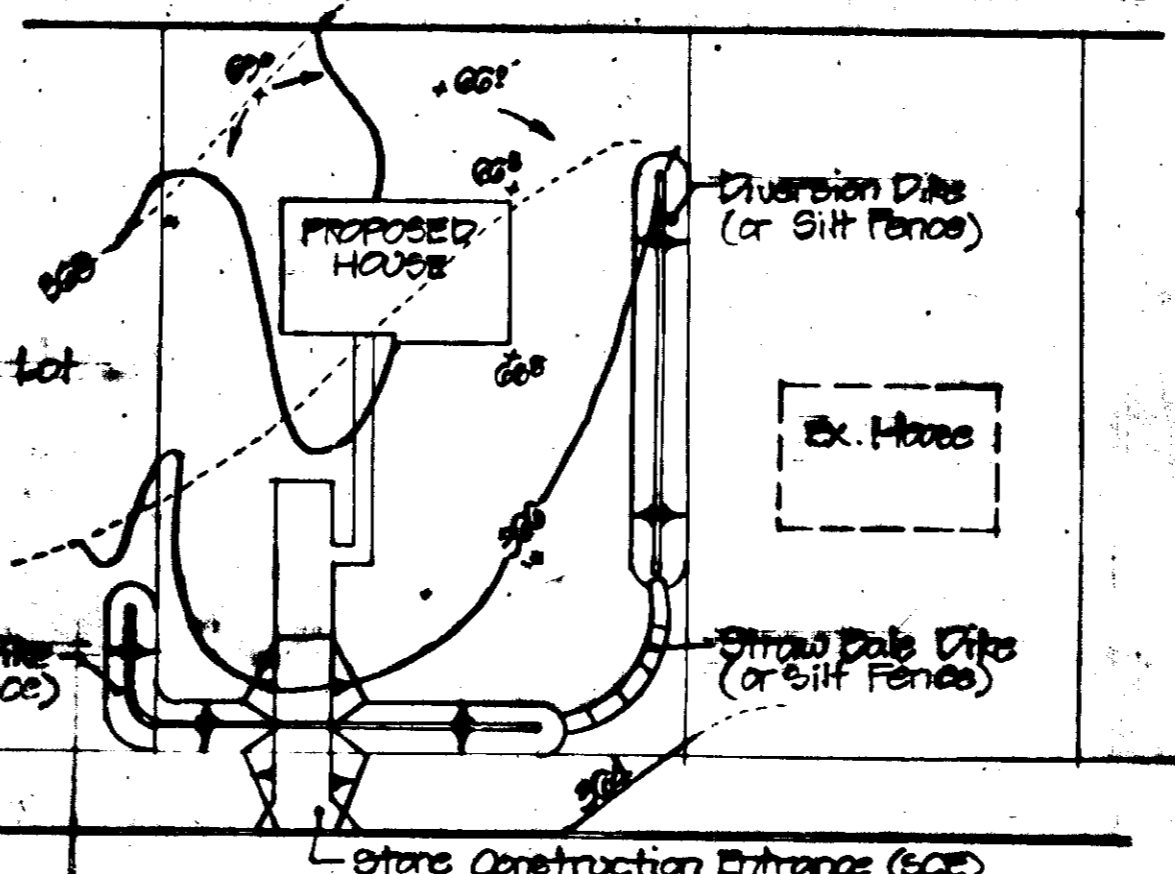
STRAW BALE DIKE



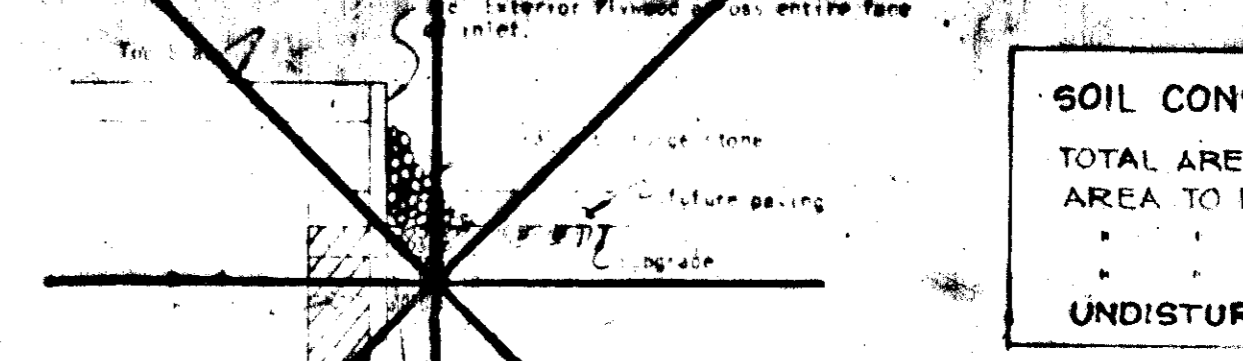
PIPE SLOPE DRAIN (FLEXIBLE)



STONE OUTLET SEDIMENT TRAP

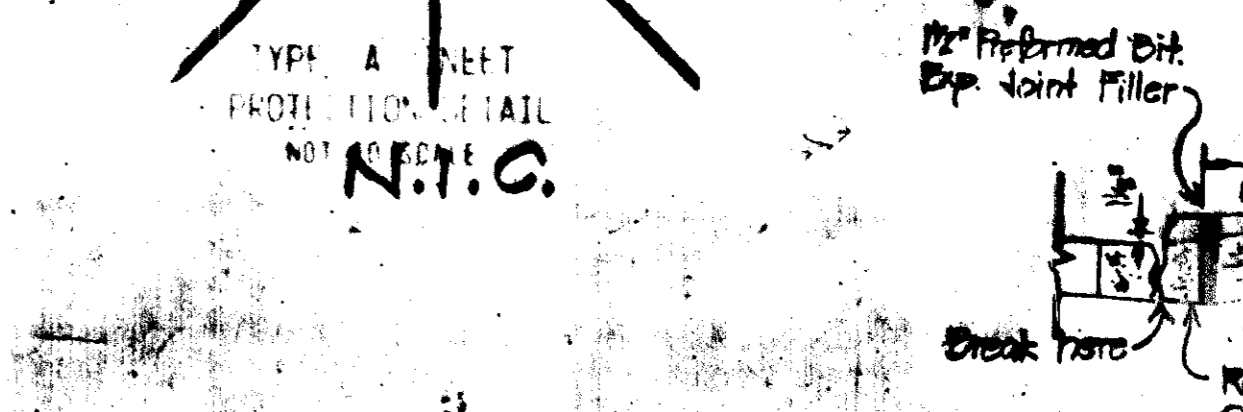


TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN



SOIL CONSERVATION SITE ANALYSIS:

TOTAL AREA OF SITE	7.8 Acres
AREA TO BE GRADED	5.0 Acres
PAVED	N/A
REVEGETATED	5.0 Acres
UNDISTURBED AREA	2.8 Acres



SILT FENCE DETAIL

DRIVEWAY SECTION IN EX. CURB
 N.T.S.

OWNER/DEVELOPER:
 Winchester Homes, Inc.
 P.O. Box 55
 Pasadena, Md. 21122
 (301) 644-1800

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 7-26-79
 JMM