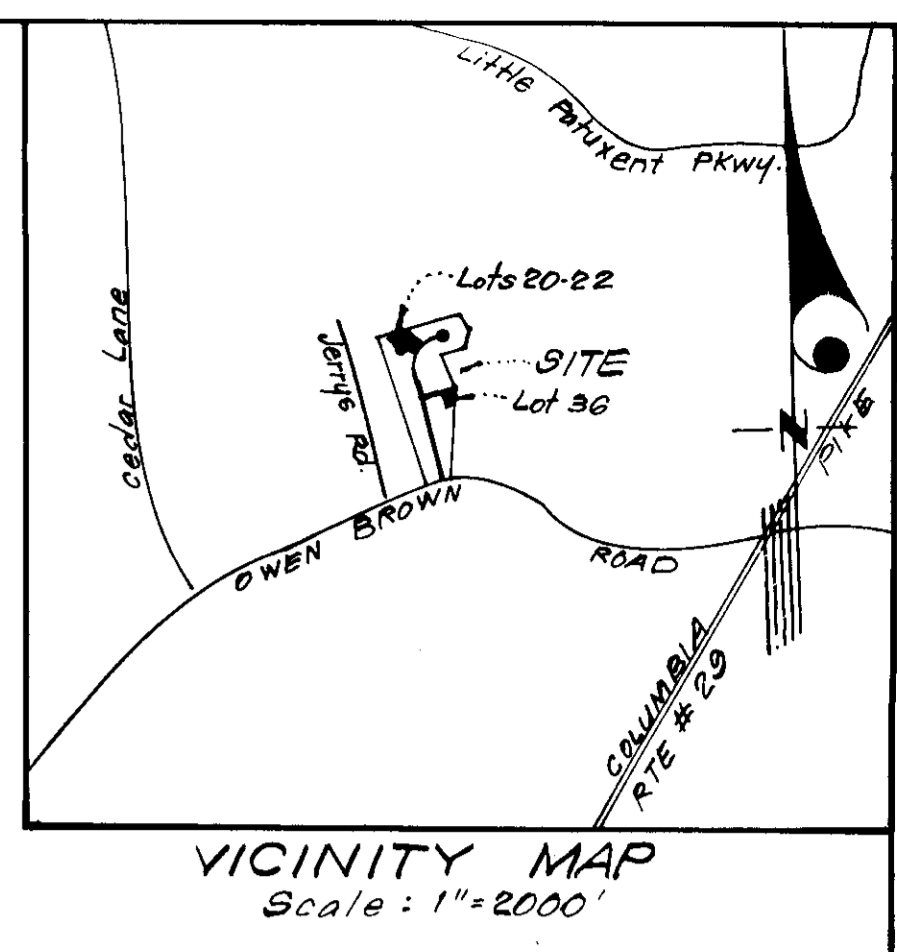
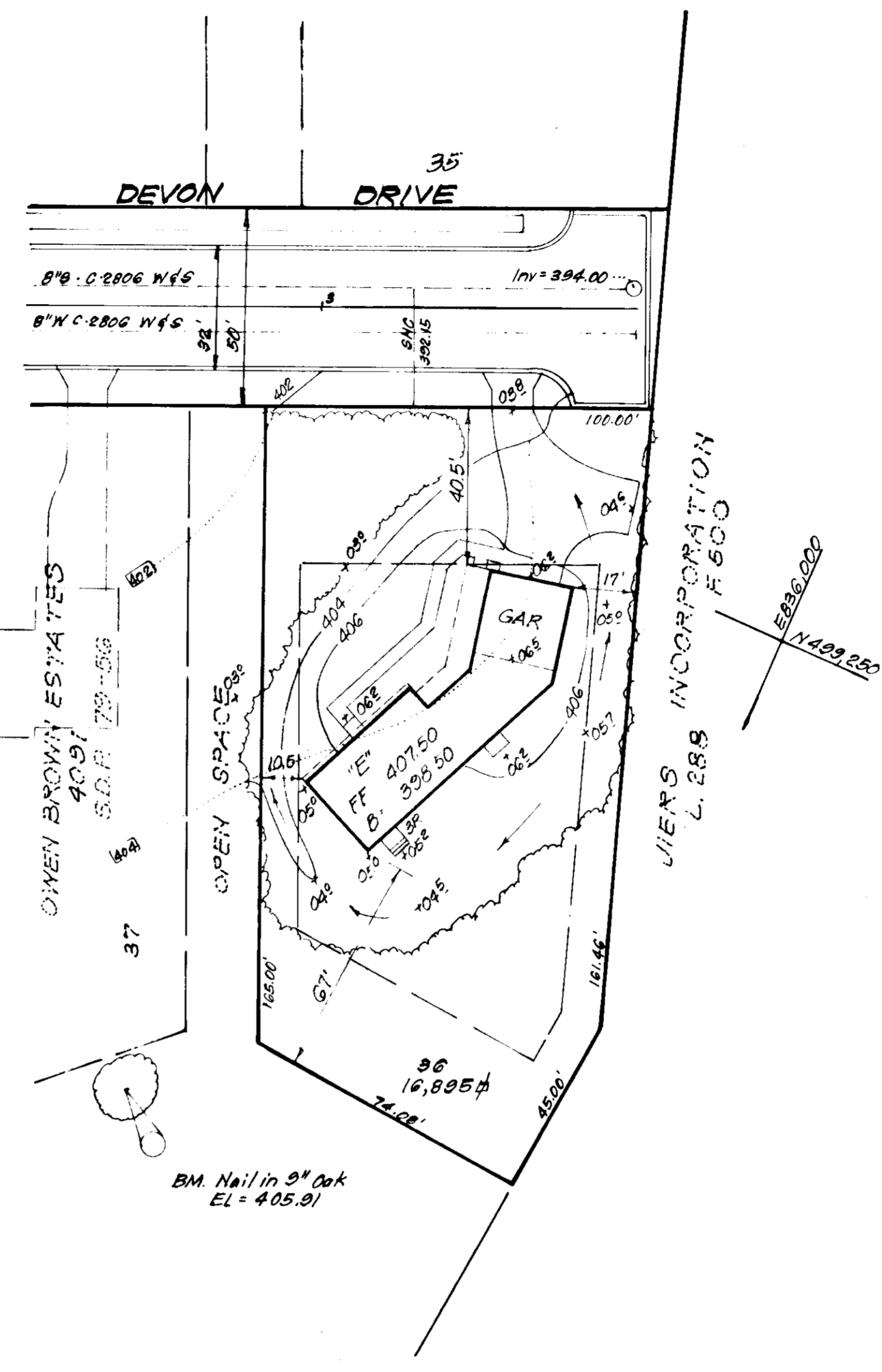
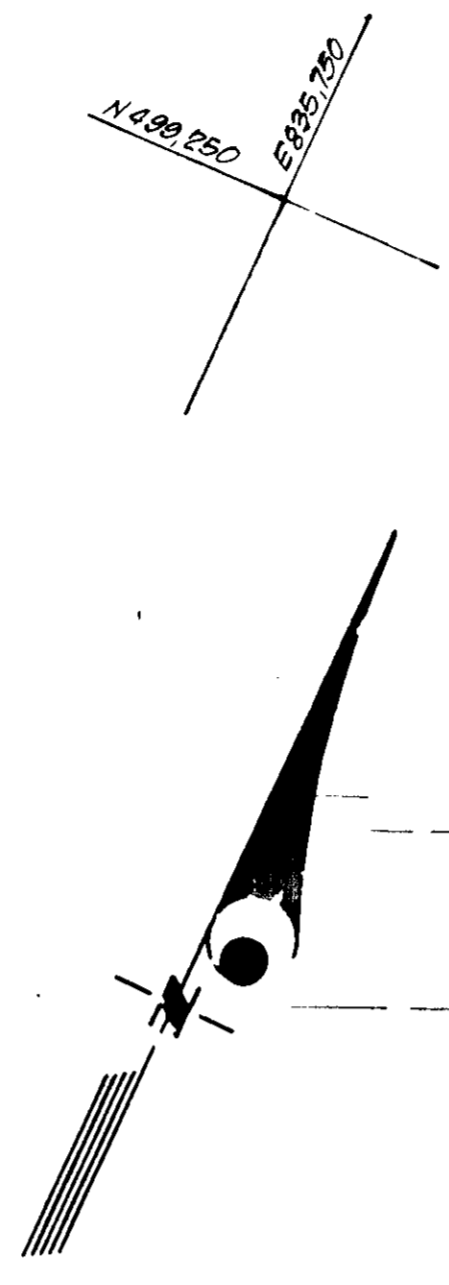
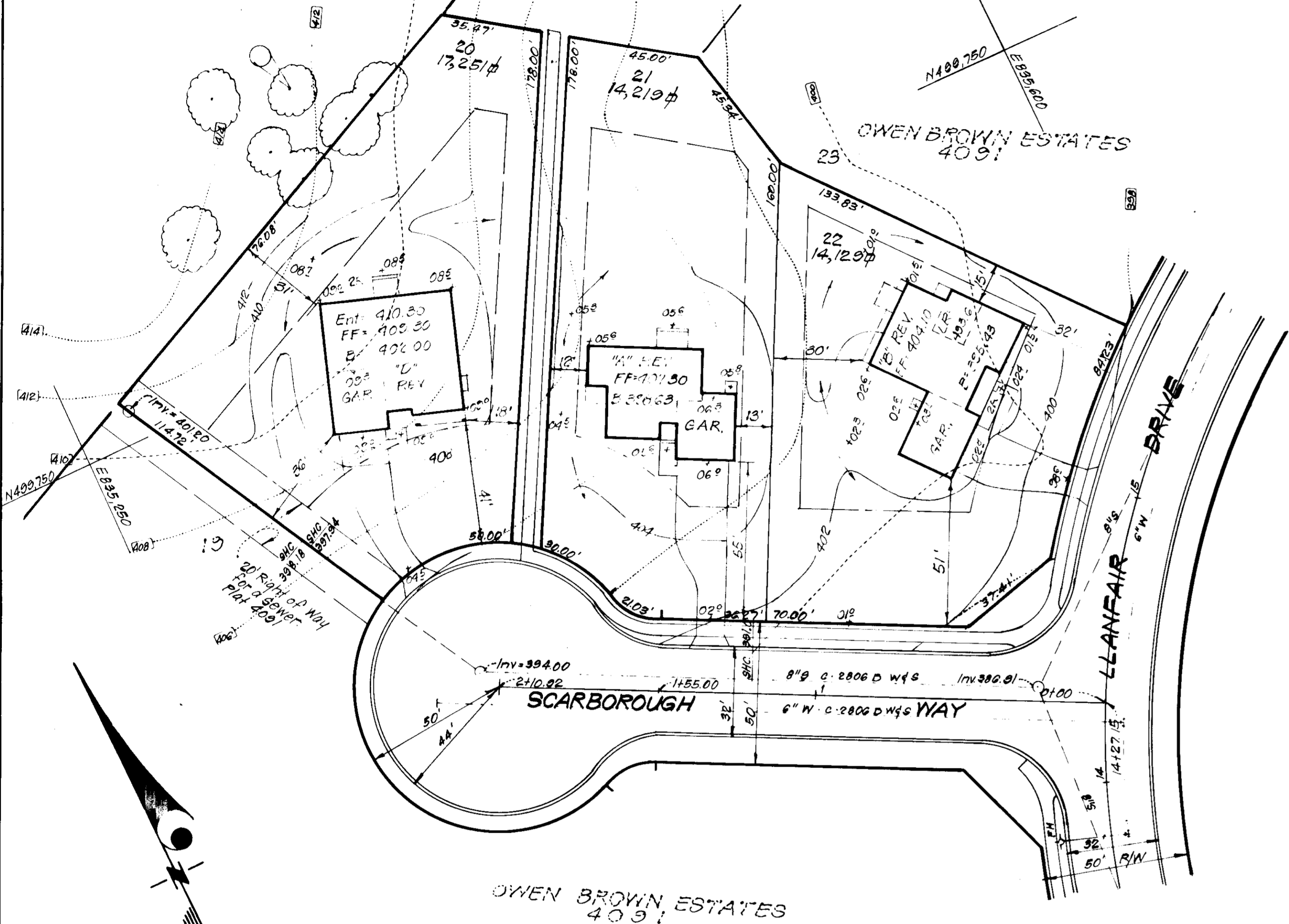
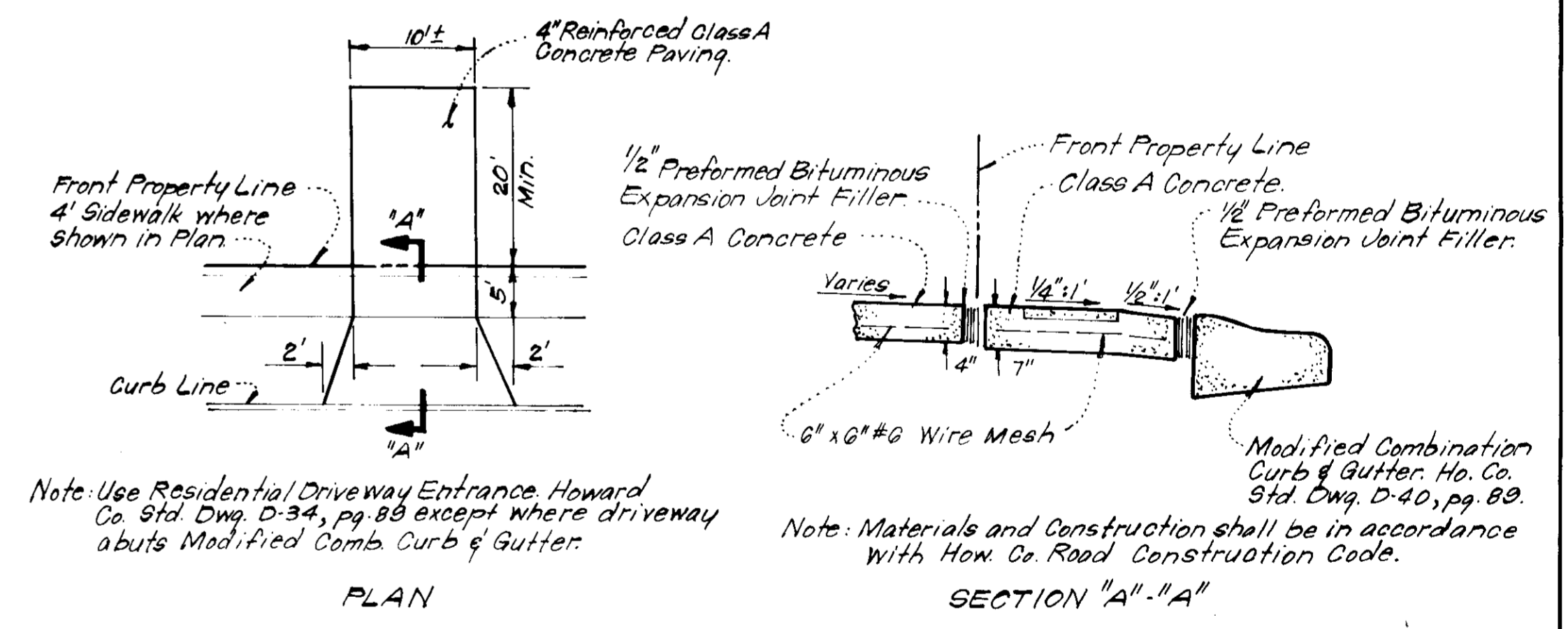


HOWARD RESEARCH & DEVELOPMENT CORPORATION
L. 455 F. 219

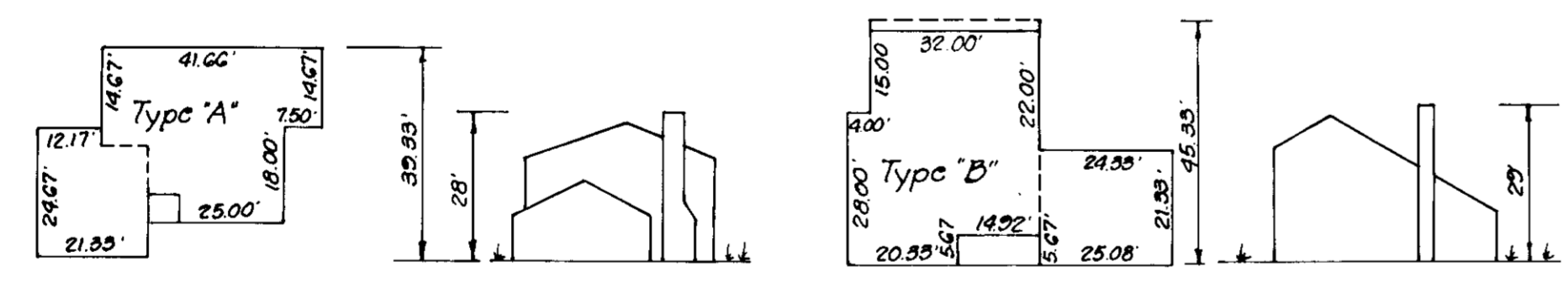


- GENERAL NOTES:**
1. The Land included in this plan is zoned : R-20.
 2. The Lots shown on this plan are located on Tax Map #35.
 3. The plan and coordinates shown hereon are based upon traverse controls for Columbia established by Maps Inc. in 1965 and by Purdum and Jeschke in 1988, which controls were tied to Md. Bureau of Control Survey Monuments and to U.S. Coast and Geodetic Mean Survey monuments in the Columbia area.
 4. The total area included in this plan is : 1.434 Acres.
 5. All roadways are public and existing.
 6. Any damage to county owned rights of way shall be corrected at the developer's expense.
 7. Total Number of Lots in this submission is 4.

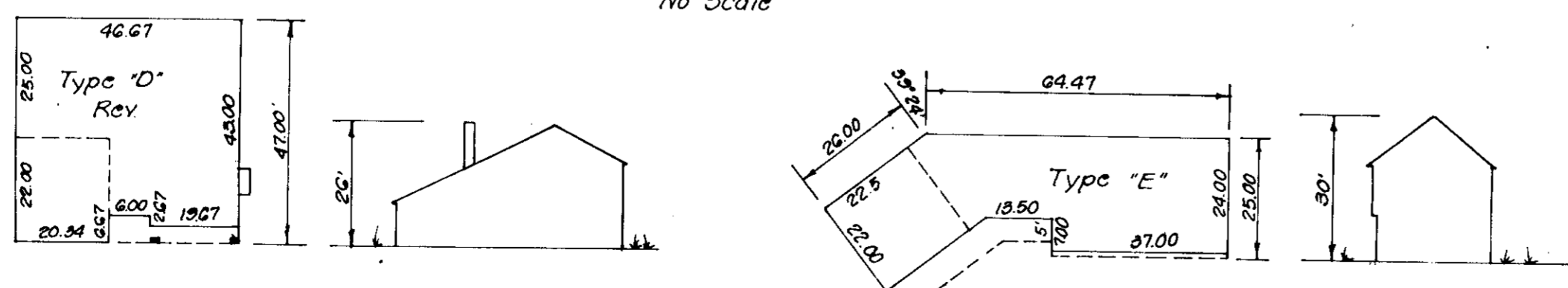
- LEGEND:**
1. Contour Interval 2 Ft.
 2. Existing Contour
 3. Proposed Contour
 4. Spot Elevation + 10'
 5. Direction of Drainage
 6. Existing Trees to be Retained



Note: Use Residential Driveway Entrance, Howard Co. Std. Dwg. D-34, pg. 88 except where driveway abuts Modified Comb Curb & Gutter.
Note: Materials and Construction shall be in accordance with How. Co. Road Construction Code.



TYPICAL HOUSES
No Scale



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
DATE 3-28-79

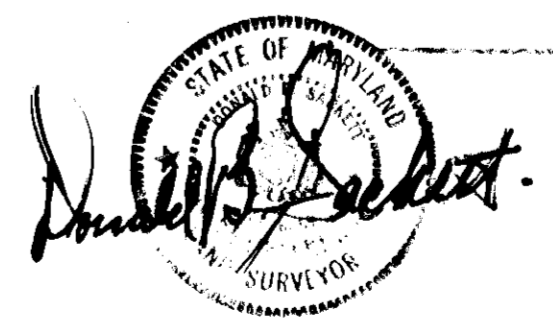
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 3-27-79

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 3-23-79

DATE 3-22-79

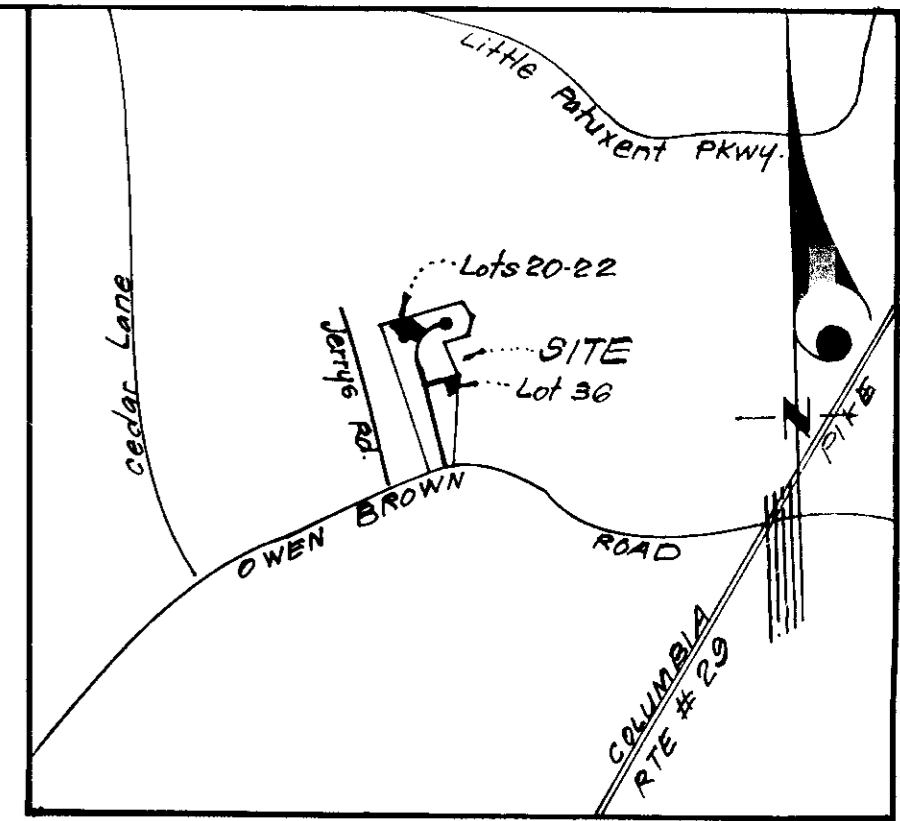
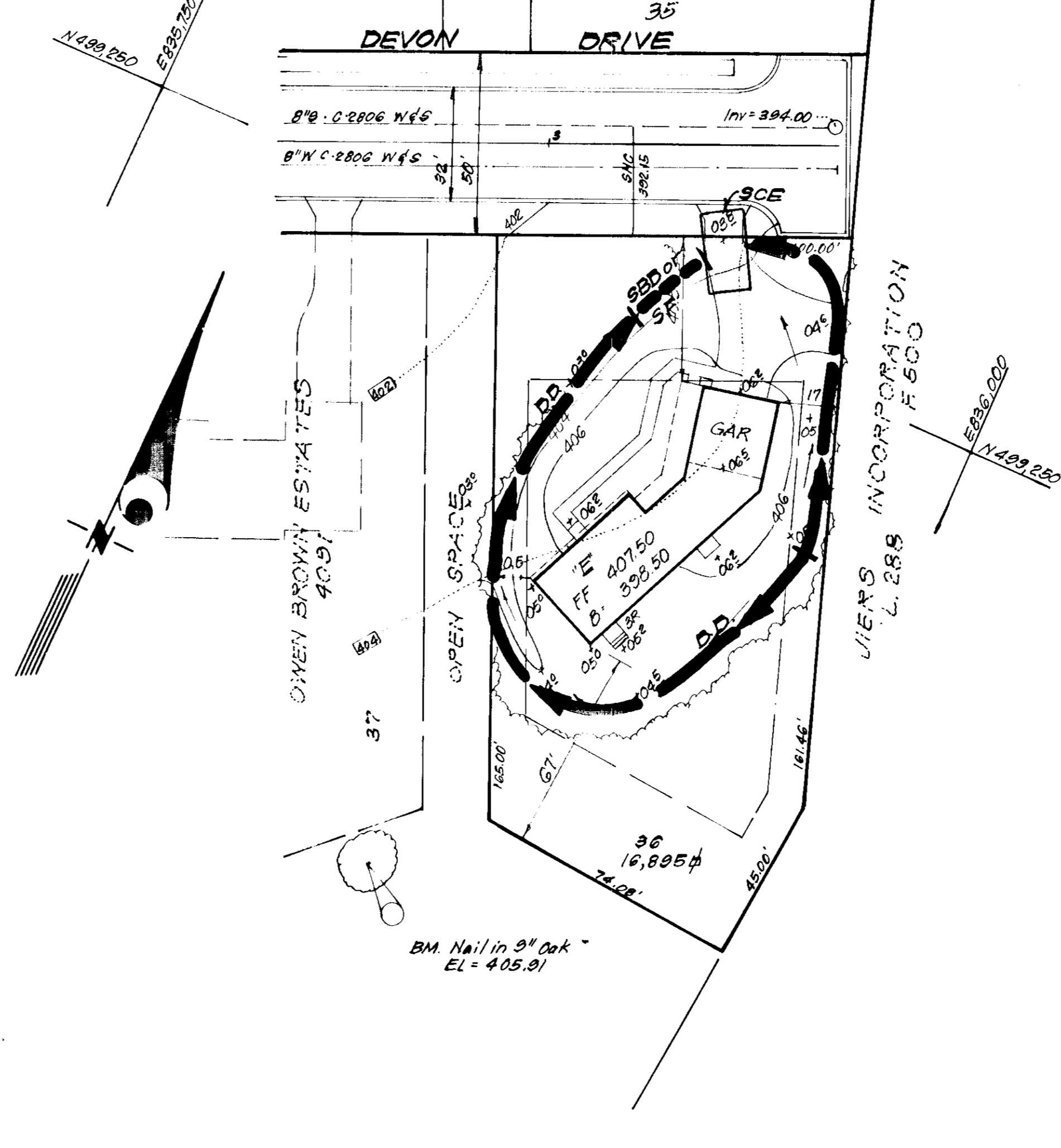
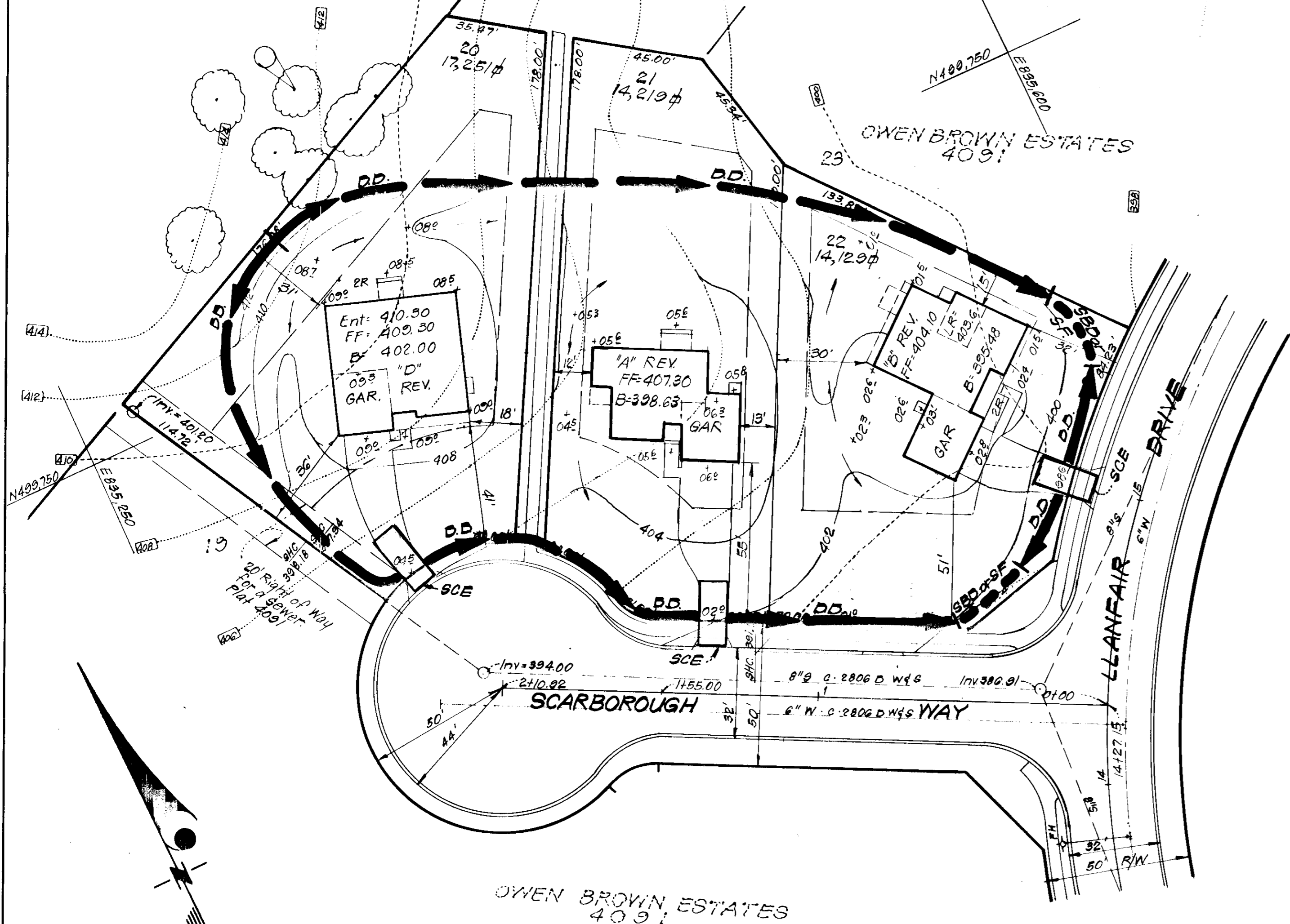
DRIVEWAY ABUTTING MODIFIED COMB CURB & GUTTER
No Scale
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
DATE 3-6-79



CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 CUCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED U.M.E.	SITE DEVELOPMENT PLAN LOTS 20 THRU 22 & LOT 36 OWEN BROWN ESTATES SECTION 1, AREA 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: Avery Homes Inc. Suite 448, 2000 Century Plaza Columbia, Maryland, 21034 Jan, 1978	SCALE 1"=30'
DRAWN U.M.E. K.I.W.		DRAWING 1043
CHECKED U.M.E.		JOB NO. 79-005
DATE Jan, 1978		FILE NO. 79-005X
		SDP 79-89

HOWARD RESEARCH & DEVELOPMENT CORPORATION
L. 455 F. 219



- LEGEND:**
- 1. Contour Interval 2 Ft.
 - 2. Existing Contour ---
 - 3. Proposed Contour ---
 - 4. Spot Elevation +10%
 - 5. Direction of Drainage →
 - 6. Existing Trees to be Retained (Symbol)
 - 7. Diversion Dike DD
 - 8. Straw Bale Dike or Silt Fence SBD or SF
 - 9. Stone Construction Entrance SCE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
John Brown 3-28-79
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
John Brown 3-28-79
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. Nalley 3-23-79
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
DATE

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
C. Wayne Ray 3-14-79
Signature Date
U.S. Soil Conservation Service

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

W. H. Avery 3/17/79
Approved Date
William H. Avery

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 that
I 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.

W. H. Avery Jr 1/17/79
Signature Date
William H. Avery

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.

Richard J. H. Stepp 1-22-79
Signature Date
RICHARD J. H. STEPP



APPROVED
DIVISION OF LAND DEVELOPMENT

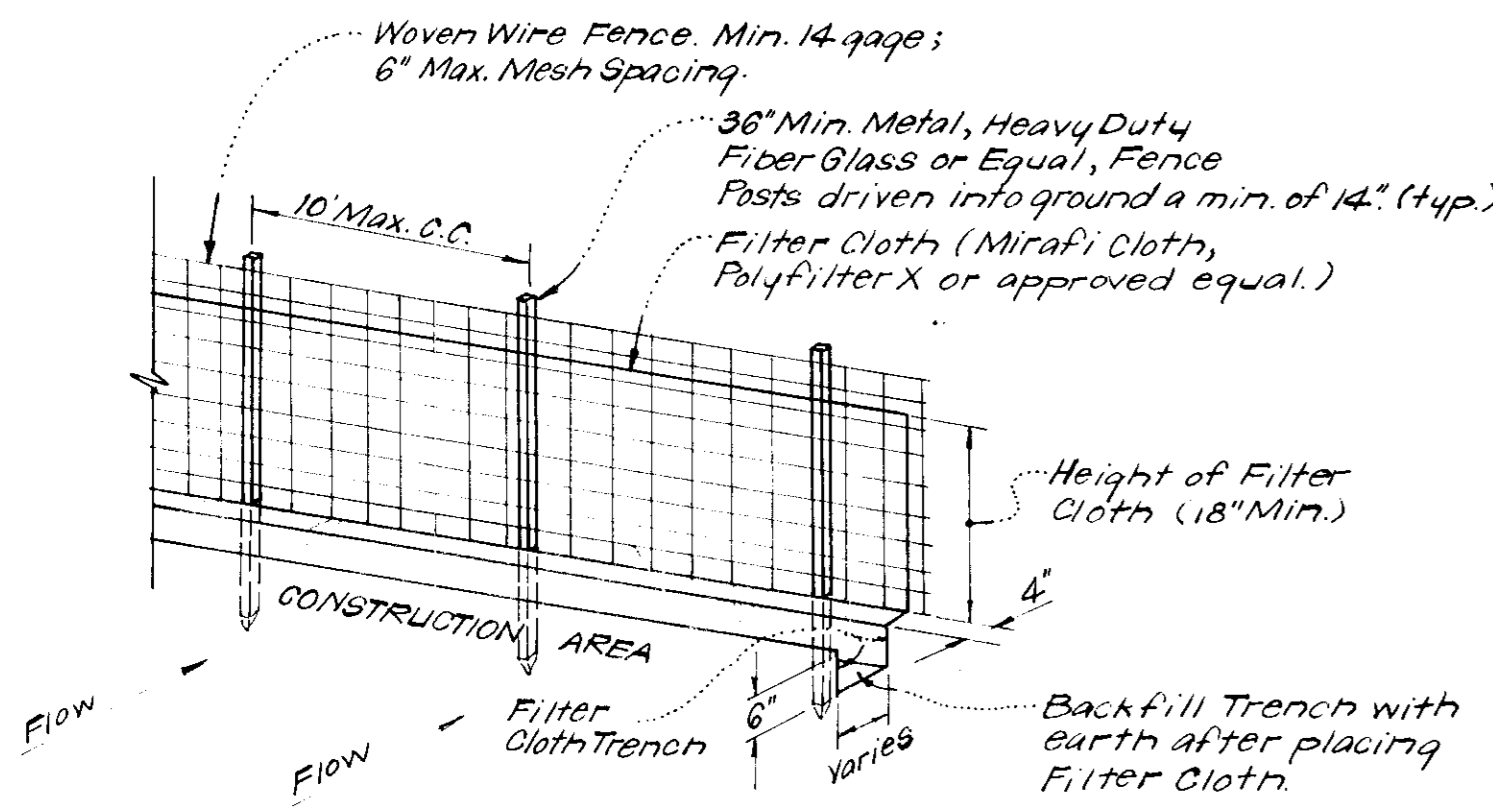
HOWARD COUNTY, MARYLAND
DATE 3-6-79
J.A.M.

Note: For Bearings and Distances of Individual Lot Lines, See Plat # 4021

<p>CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400</p>		
DESIGNED	J.L.S.	SCALE 1"=30'
DRAWN	J.M.E.	DRAWING 2 of 3
CHECKED	R.L.W.	JOB NO. 79-005
DATE	J.L.S.	FILE NO. 79-0059E
<p>FOR: OWEN BROWN ESTATES SECTION 1 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND Avery Homes Inc. Suite 445, 2000 Century Plaza Columbia, Maryland, 21044</p>		
<p>SDP-79-89</p>		

GENERAL NOTES

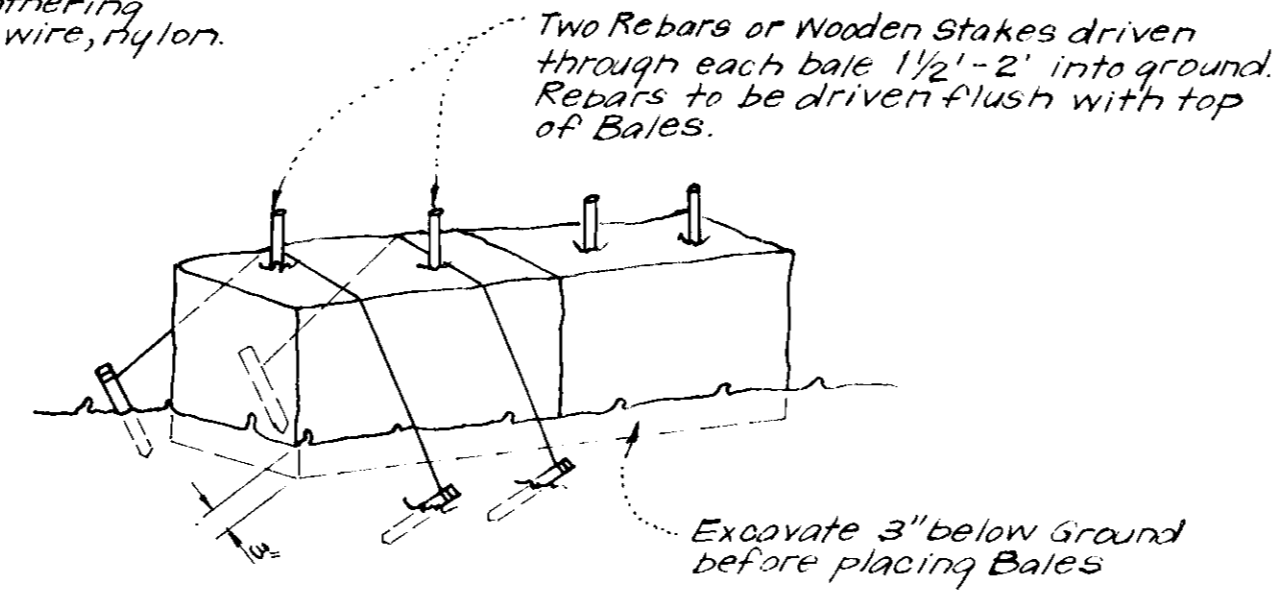
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See Note # 6 for stabilization 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. sprout 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 = 1.435 Acres
 - Area to be Roofed = 0.183 Acres
 - Area to be Paved = 0.093 Acres
 - Area to be Seeded = 0.757 Acres
 - Area Undisturbed = 0.402 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 sht, 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 = 75 - L.F.



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

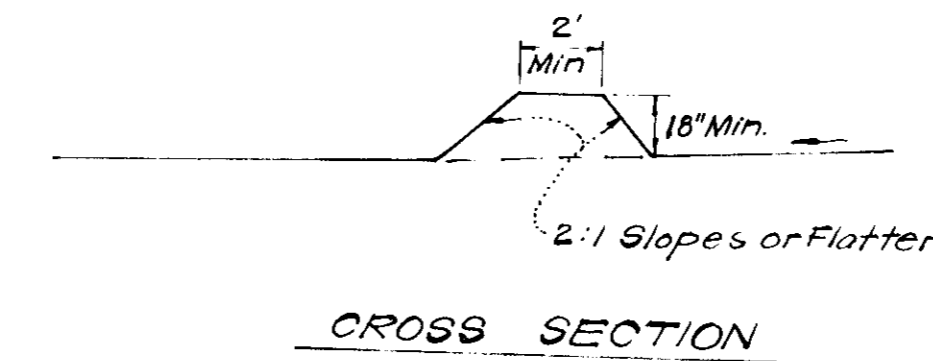
SILT FENCE DETAIL (S.F.)
No Scale

All Bales shall be tied with non-weathering materials, i.e. wire, nylon.

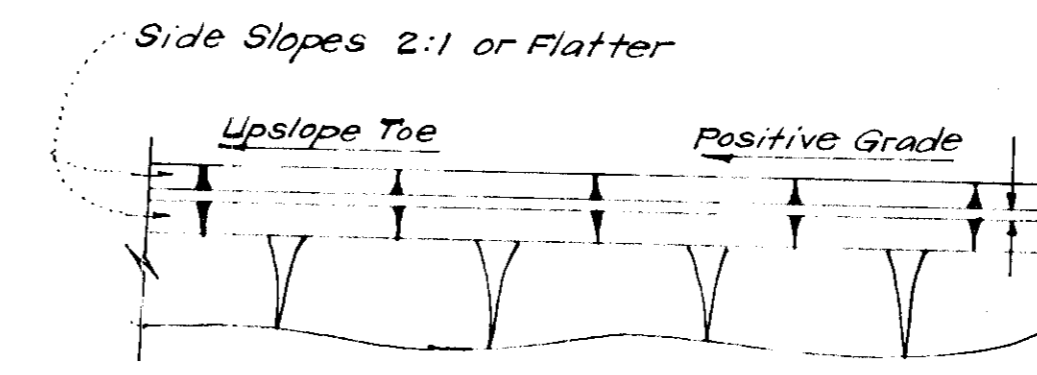


- NOTE:**
- In lieu of the use of rebar each Straw Bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

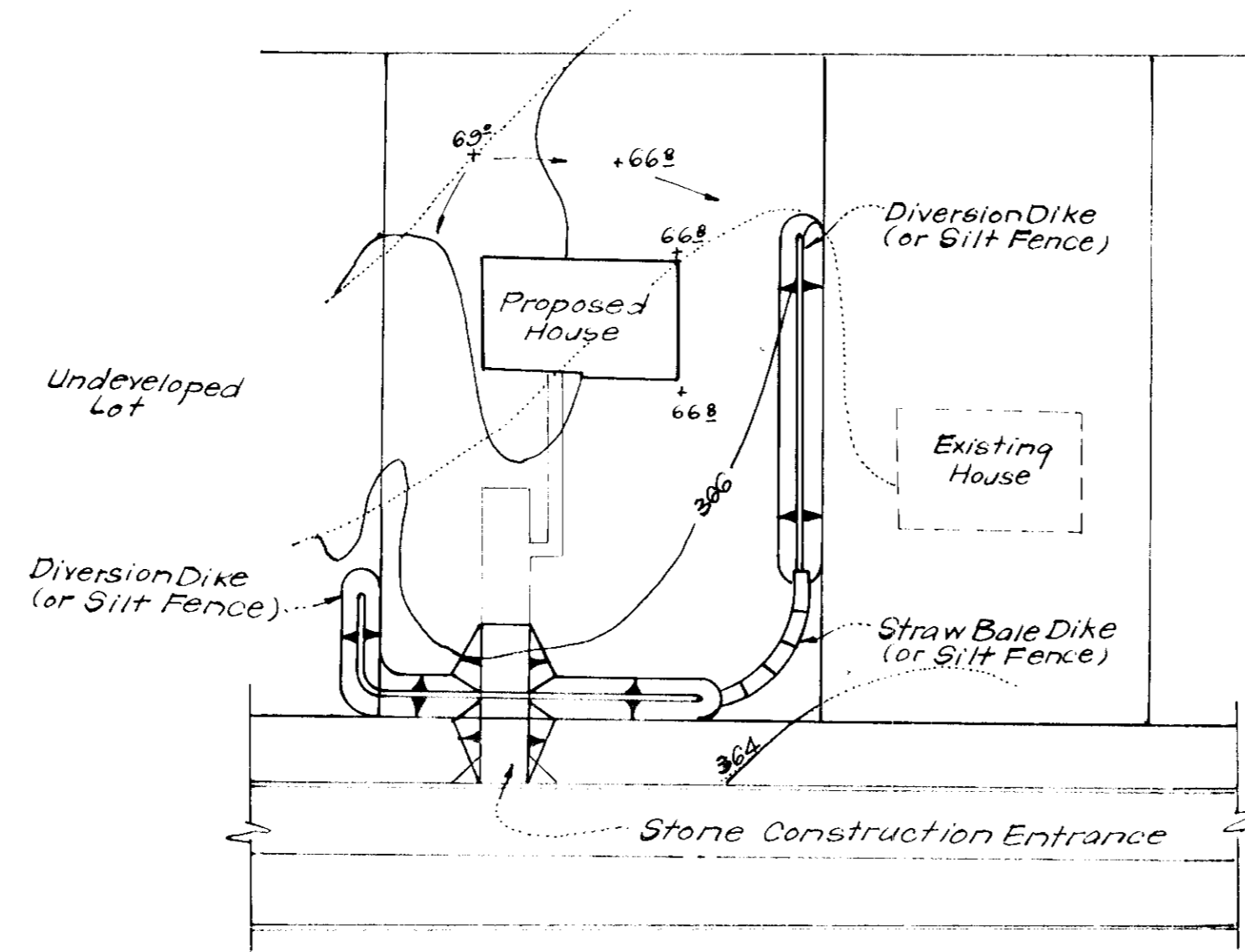
TYPICAL STRAW BALE DETAIL (S.B.D.)
No Scale



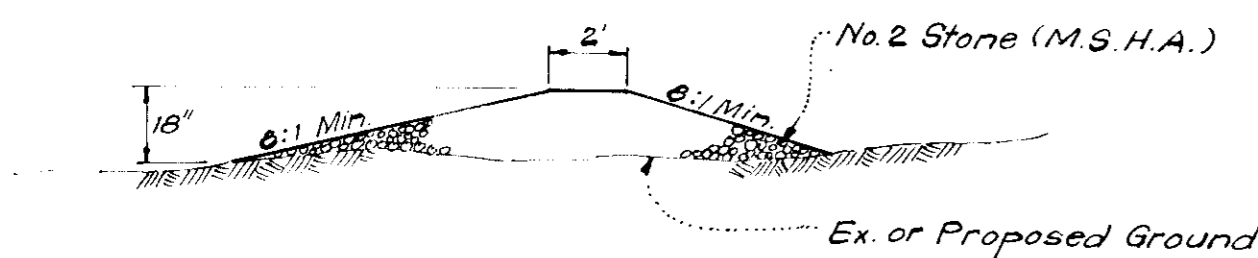
CROSS SECTION



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



TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN
No Scale



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

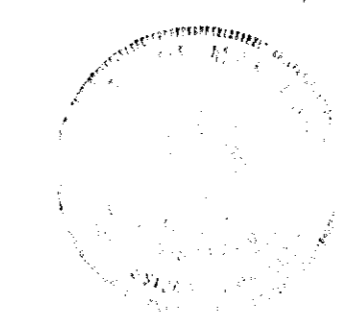
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 3-6-79

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 APPROVED BY HOWARD COUNTY OFFICE OF PLANNING & ZONING
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Reviewed for Howard S.C.D. and meets Technical Requirements
 Signature: Wayne Ray Date: 3/14/79
 U.S. Soil Conservation Service

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 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: Wm. H. Avery Jr. Date: 4/17/79
 William H. Avery

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: Richard J.H. Stepp Date: 1-22-79
 RICHARD J.H. STEPP



CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 1115 BIRCHWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 508-1400

DESIGNED	J.L.S.	SCALE	As Shown
DRAWN	J.L.S.	DRAWING	3 of 3
CHECKED	R.W.L.	JOB NO.	79005
DATE	J.L.S.	FILE NO.	79005SE

FOR: AVERY HOMES, INC.
 Suite 445, 2000 Century Plaza
 Columbia, Maryland 21044
 SDP-79-89