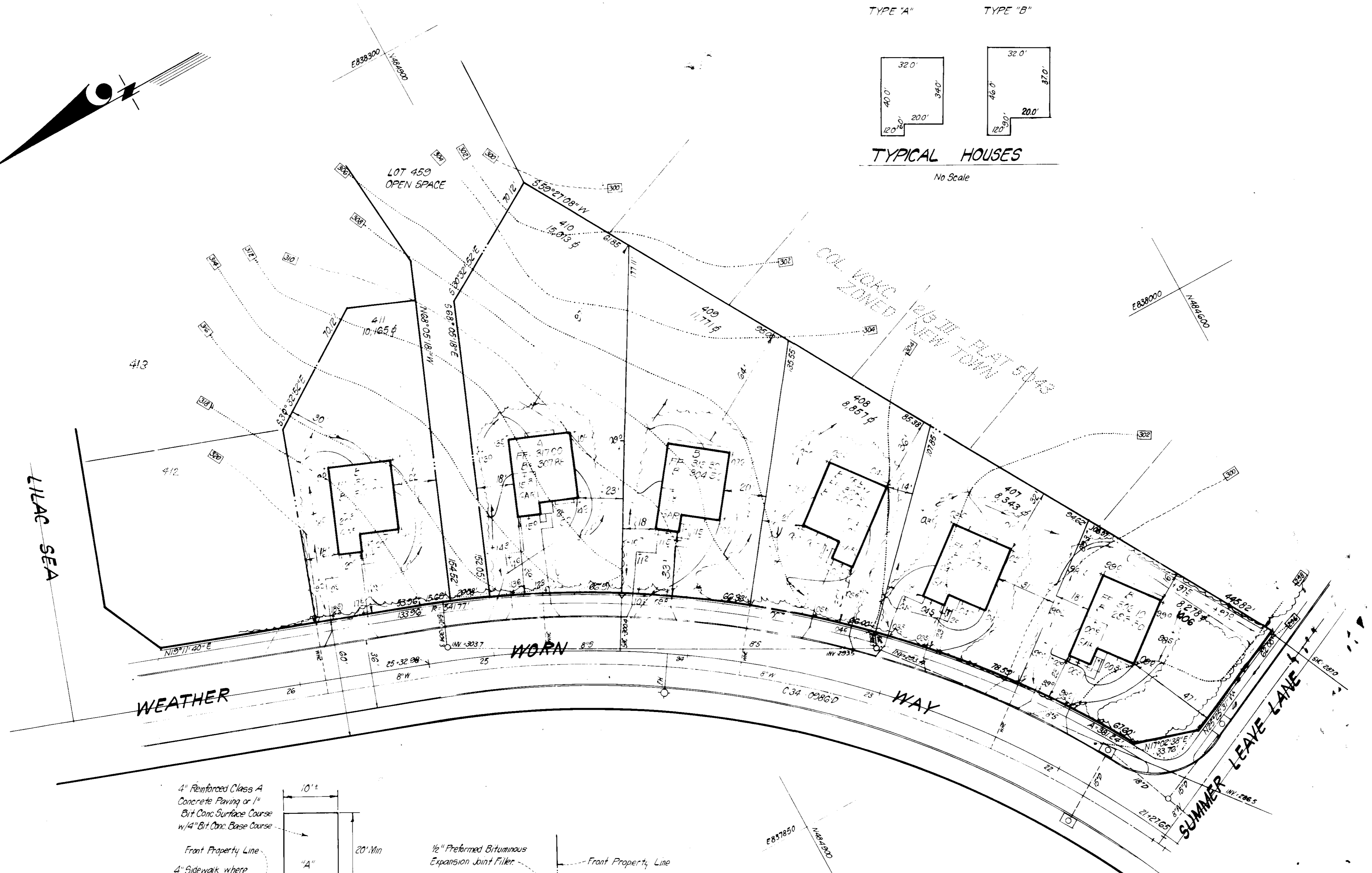
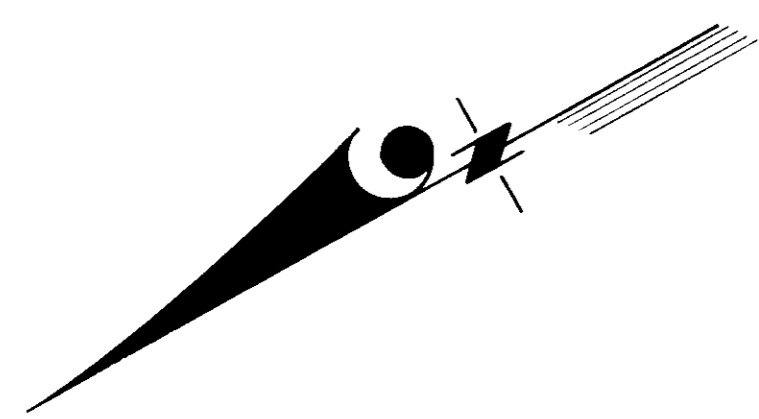


GENERAL NOTES:

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 17B, Part III
3. All coordinates shown hereon are based on Howard County Geodetic Control Traverse which is based upon the Maryland State Plane Coordinates System.
4. The area covered is located on Tax Maps 41 & 42.
5. The total area included in this plan is 143 Acres
6. All roadways are public and existing.
7. Any damage to County Owned rights of way or paving shall be corrected at the developer's expense.
8. Total Number of Lots : 6
9. Storm Water Management Provided in Central Facility in YOKC 2/3 Phase II & III, F80-200c & F81-80

LEGEND:

- 1 Contour Interval 2ft
- 2 Existing Contour
- 3 Proposed Contour
- 4 Spot Elevation
- 5 Direction of Drainage
- 6 Existing trees to be retained
- 7 Walkout Basement



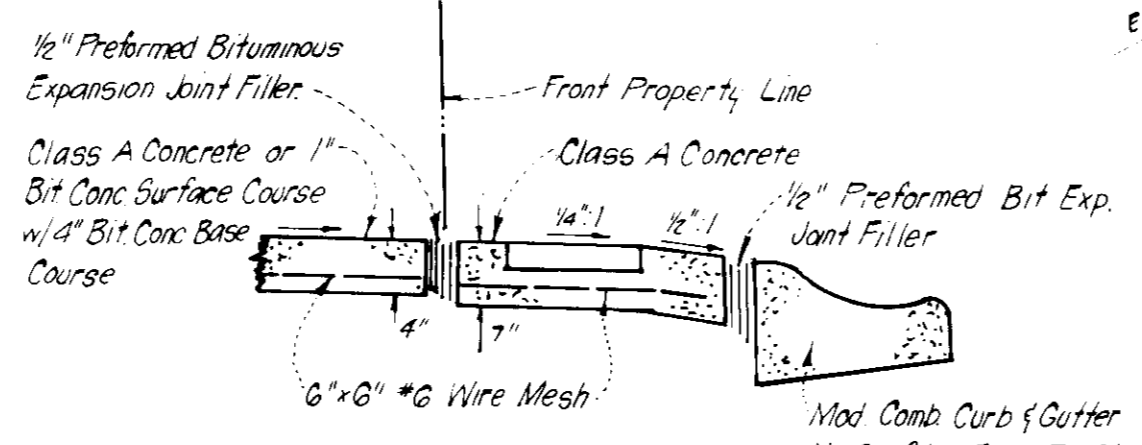
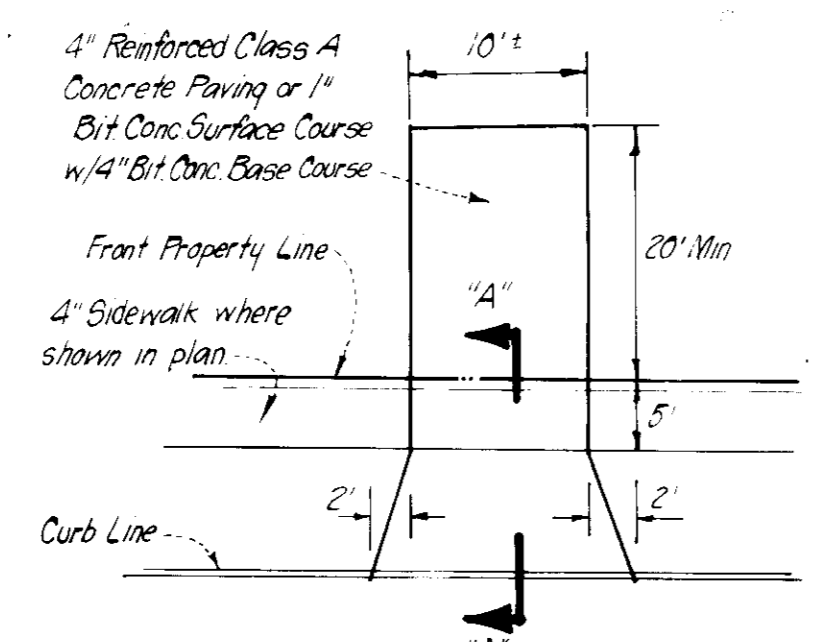
ADDRESS CHART	
LOT	STREET ADDRESS
406	7530 Weather Worn Way
407	7536 "
408	7542 "
409	7548 "
410	7554 "
411	7564 "

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 4-17-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER [Signature] DATE 5-6-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR [Signature] DATE 5-7-85

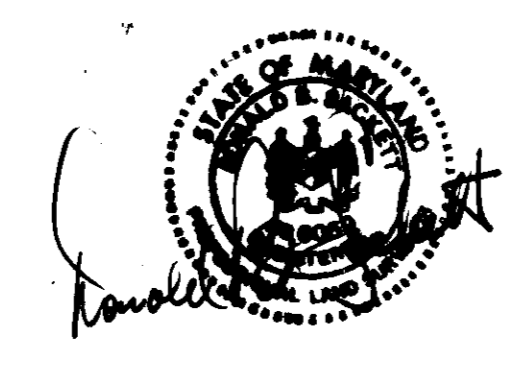
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR [Signature] DATE 4-30-85



Note: Use Residential Driveway Entrance Ho Co Std Drawing R-603, except where driveway abuts Mod Comb Curb & Gutter PLAN

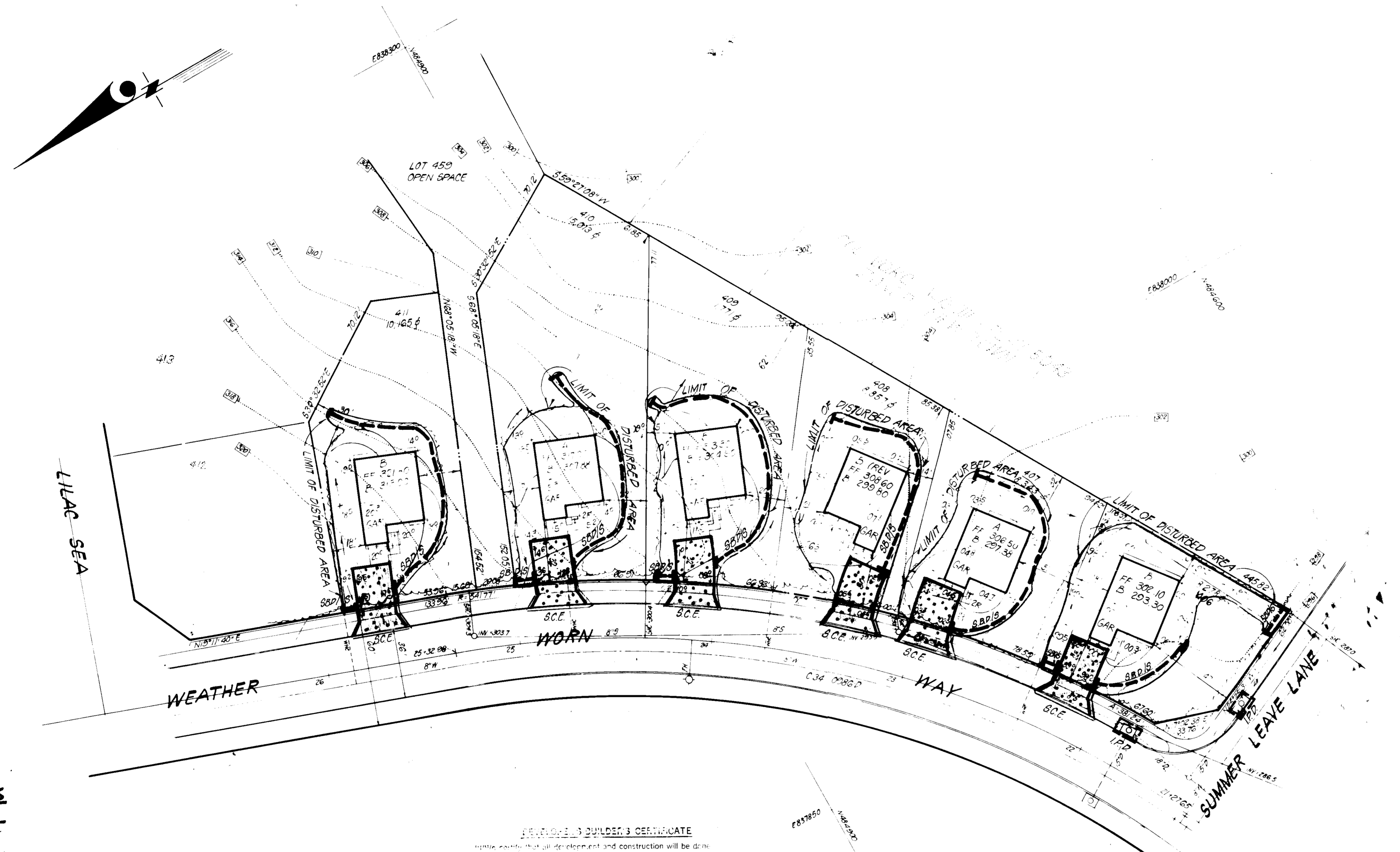
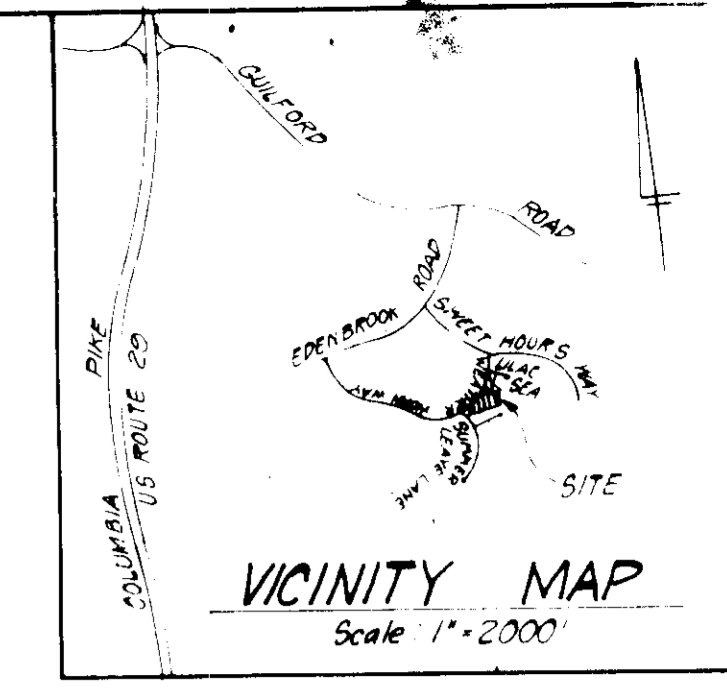
Note: Materials and Construction shall be in accordance with Ho Co Road Construction Code SECTION "A"-"A"

DRIVEWAY ABUTTING MODIFIED COMB CURB & GUTTER
No Scale



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

DESIGNED B.A.F.	SITE DEVELOPMENT PLAN LOTS 406 THRU 411 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2, AREA 3, PHASE III 6 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN V.H.L.		DRAWING 1 of 3
CHECKED B.A.F.		JOB NO. 84-026
DATE Feb 25, 1985	FDR ALLAN HOMES, INC. PO Box 1038 Columbia, MD 21044	FILE NO. 84-026 X



- LEGEND:**
- 1 Contour Interval 2'±
 - 2 Existing Contour
 - 3 Proposed Contour
 - 4 Spot Elevation 105.7
 - 5 Direction of Drainage
 - 6 Existing trees to be retained
 - 7 Walkout Basement
 - 8 Stabilized Construction Entrance SCE
 - 9 Inlet Protection Detail IPD
 - 10 Strain Bale Dike/Silt Fence SBD/S

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: **4-17-85**

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
Joseph E. ... 5-6-85
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Thomas ... 5-7-85
DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
... 5-6-85
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 5-1-85
DATE

DIRECTOR
... 4-30-85
DATE

CHIEF BUREAU OF ENGINEERING
...
DATE

Reviewed for **HOWARD** S.C.D.
Name
and meets Technical Requirements
L. Helm 4-29-85
Signature Date
U.S. Soil Conservation Service

DATE 4/29/85
Approved

DEVELOPER'S/BUILDER'S CERTIFICATE
I hereby 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 Nominance 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 deemed necessary.

Allan Washak 4-1-85
Signature of Developer/Builder Date
ALLAN WASHAK

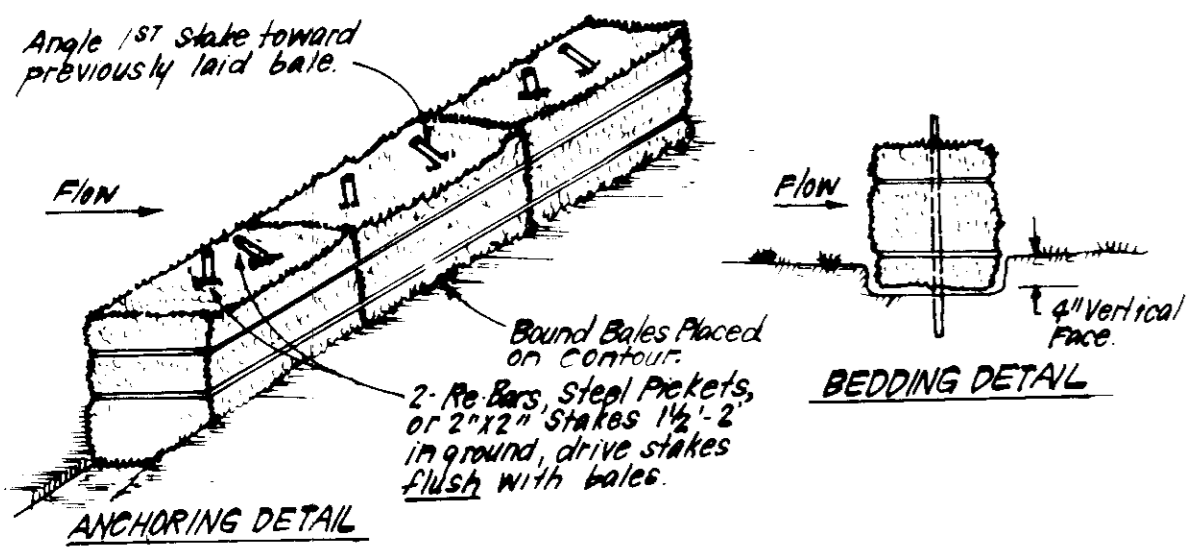


ENGINEER'S CERTIFICATE
I certify that this plan for development, erosion, sediment control, storm drainage, and inlet protection was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Maryland. I have notified the Howard Soil Conservation District. I have notified the district that I will provide the flow and silt control plan that will be filed "as built" of the plan within 30 days of completion.

G. Nelson Clark 4-1-85
Signature of Engineer Date
G. Nelson Clark

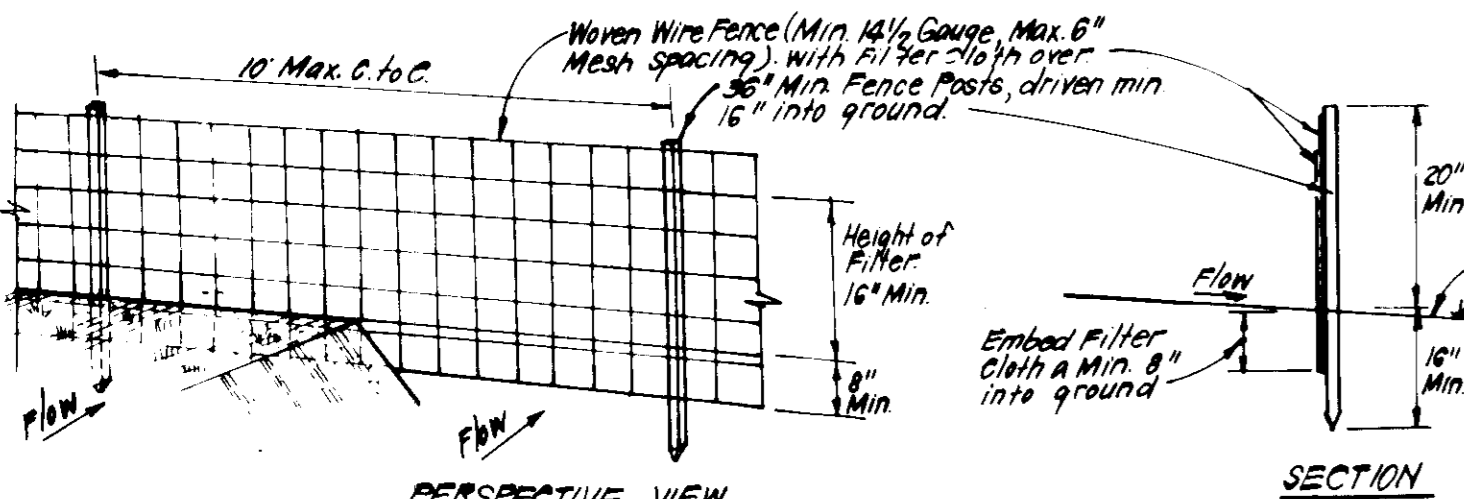
CFE		CLARK • FINEFROCK & SACKETT	
ENGINEERS • PLANNERS • SURVEYORS		11317 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400	
DESIGNED R.P.	SEDIMENT & EROSION CONTROL PLAN LOTS 406 THRU 411	SCALE 1"=30'	
DRAWN V.H.L.	COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2, AREA 3, PHASE III 6 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 2 OF 3	JOB NO. 84-026
CHECKED R.P.			FILE NO. 84-026-9E
DATE April 1, 1985	FOR ALLAN HOMES, INC. PO Box 1058 Columbia, MD 21044		

SDP-85-135c



- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal.
 - Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
 - Inspection shall be frequent and repair/replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

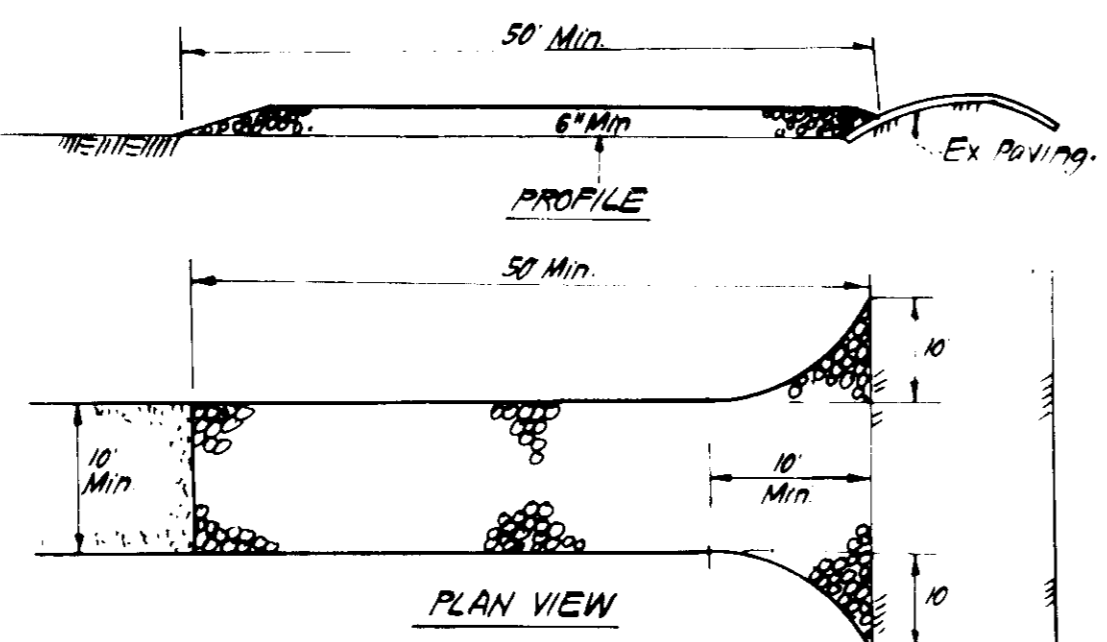
STRAW BALE DIKE DETAIL (SBD)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 - Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
 - When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in silt fence.

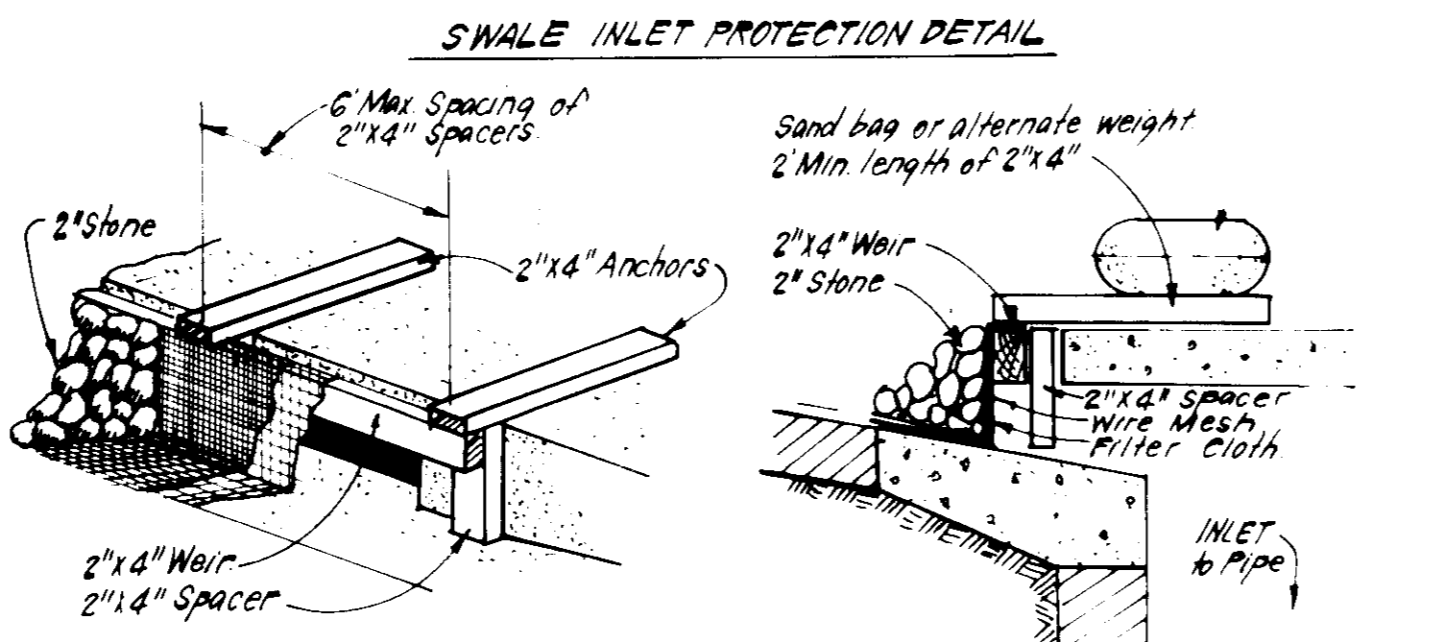
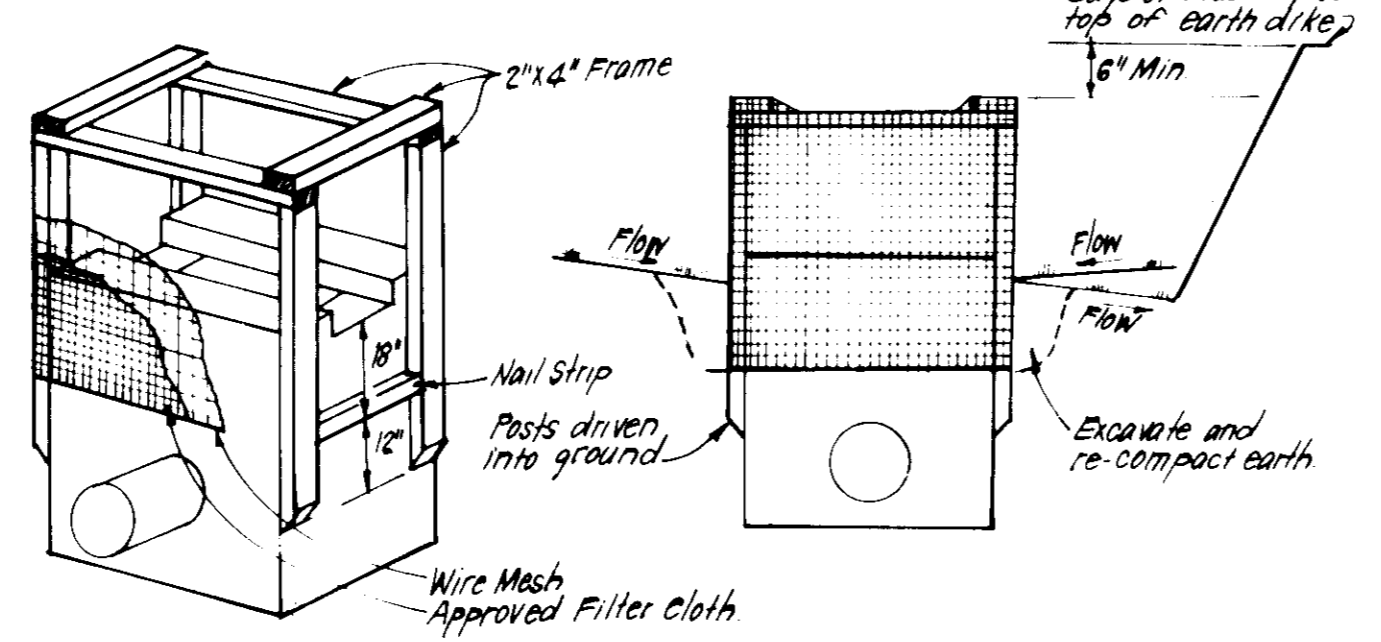
SILT FENCE DETAIL (S)
NO SCALE

POSTS: Steel, either T or U Type or 2" x 4" Hardwood
 FENCE: Woven Wire, 1 1/2 Gauge, 6" Max. Mesh Opening
 FILTER CLOTH: Filter X, Miraflo 100X, Stabilinks, T140N or Approx. equal
 PREFABRICATED UNIT: Geofab, Envirofence, or Approx. equal



- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a slope residence lot where a 100 min length would apply).
 - Thickness - Not less than 6".
 - Width - Ten foot min, but not less than the full width at point where ingress occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights of way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights of way must be removed immediately.
 - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights of way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- I. MATERIALS:**
- Wooden frame is to be constructed of 2x4 construction and 1/2" lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, E15, 40, 85, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in diameter, since fines would clog the cloth.
- II. PROCEDURE: SWALE DITCHLINE OR YARD INLET PROTECTION**
- Excavate completely around inlet to a depth of 18" below notch elevation.
 - Drive 2x4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2x4 frame using overlap joint shown. Top of frame will be 6" below edge of roadway adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Postion securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
 - Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct a compacted earth dike in the ditch line below the top of the earth dike. It is to be at least 6" higher than the top of frame (weir).
 - The structure must be inspected frequently and filter fabric replaced when clogged.
- II. PROCEDURE: CURB INLET PROTECTION**
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2x4 weir (measuring throat length plus 2") as shown on std. drawing.
 - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2x4 weir.
 - Securely nail the 2x4 weir to 2" long 2x4 spacers to be located between the weir and inlet face.
 - Place the assembly against the inlet throat and nail (min 2" lengths of 2x4) to the top of the weir at spacer locations. These 2x4 anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a min. 1" beyond ends of throat opening.
 - From the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow to inlet.

INLET PROTECTION DETAIL (I.P.D.)
NO SCALE

- SEDIMENT CONTROL NOTES**
- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437)
 - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - Following initial soil disturbance or redistribution, 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 shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). 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 permission for their removal has been obtained from the Howard County Sediment Control Inspector.
 - Site Analysis:

Total Area of Site	149 acres
Area Disturbed	065 acres
Area to be roofed or paved	025 acres
Area to be vegetatively stabilized	040 acres
Total Cut	320 Cu. yds
Total Fill	620 Cu. yds
Offsite waste/borrow area location	
 - 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 controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
 - If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
 - All pipes to be blocked at the end of each day (see detail below).
 - The total amount of straw bale dikes/silt fence equals 790 L.F.

- CONSTRUCTION SEQUENCE:**
- Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
 - Excavate for foundations and Rough Grade.
 - Construct Structures, Sidewalks and Driveways.
 - Final Grade and stabilize in accordance with Sigs & Specs.
 - Upon approval of the sediment control inspector, remove sediment and erosion control and stabilize.

- 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, discing or other acceptable means before seeding.
- Soil Amendments:** In lieu of soil test recommendations, use one of the following schedules:
- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 soil. At 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 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 (1.4 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 of 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 grain 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.

- 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, discing or other acceptable means before seeding.
- Soil Amendment:** 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 25 bushel per acre of annual rye (3.2 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 16 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 grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.
- Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

Reviewed for HOWARD COUNTY DEPARTMENT OF PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 Howard County Health Department
 7-29-85
 Approved
 4/29/85
 Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 6-6-85
 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 5-7-85
 DATE

APPROVED: CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 2-6-85
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 5-1-85
 DATE

APPROVED: CHIEF BUREAU OF ENGINEERING
 4-30-85
 DATE

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 4-17-85
 [Signature]

DEVELOPER'S/BUILDER'S CERTIFICATE

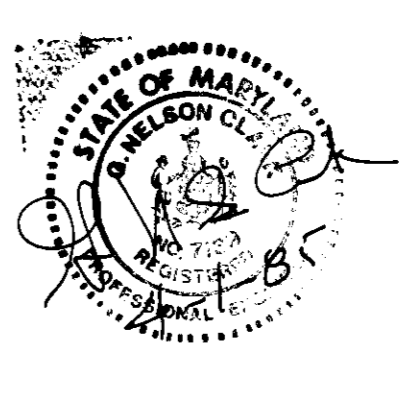
I certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training 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 if they are needed.

[Signature] 4-1-85
 Allan Washak

ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion, and sediment control will be done in a practical and workable fashion based on my personal on-site inspection of the site conditions. I have also provided and discussed with the requirements of the Howard Soil Conservation District. I have notified the District that the plan provides the Howard Soil Conservation District with a final filed "as built" of the pond within 30 days of completion.

[Signature] 4-1-85
 G. Nelson Clark



CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 1131E LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED R.P.	SEDIMENT & EROSION CONTROL PLAN LOTS 40G THRU 41I COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2, AREA 3, PHASE III 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: ALLAN HOMES, INC. P.O. Box 1058 Columbia, MD 21044	SCALE As Shown
DRAWN V.H.L.		DRAWING 3 of 3
CHECKED R.P.		JOB NO 84-026
DATE April 1, 1985		FILE NO 84-026 SE