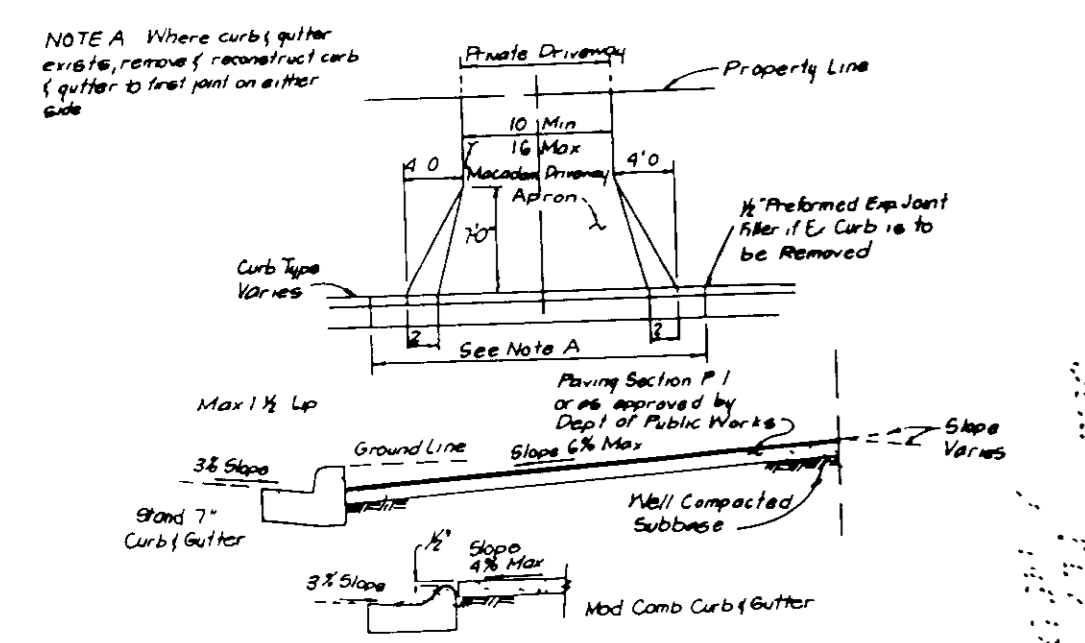
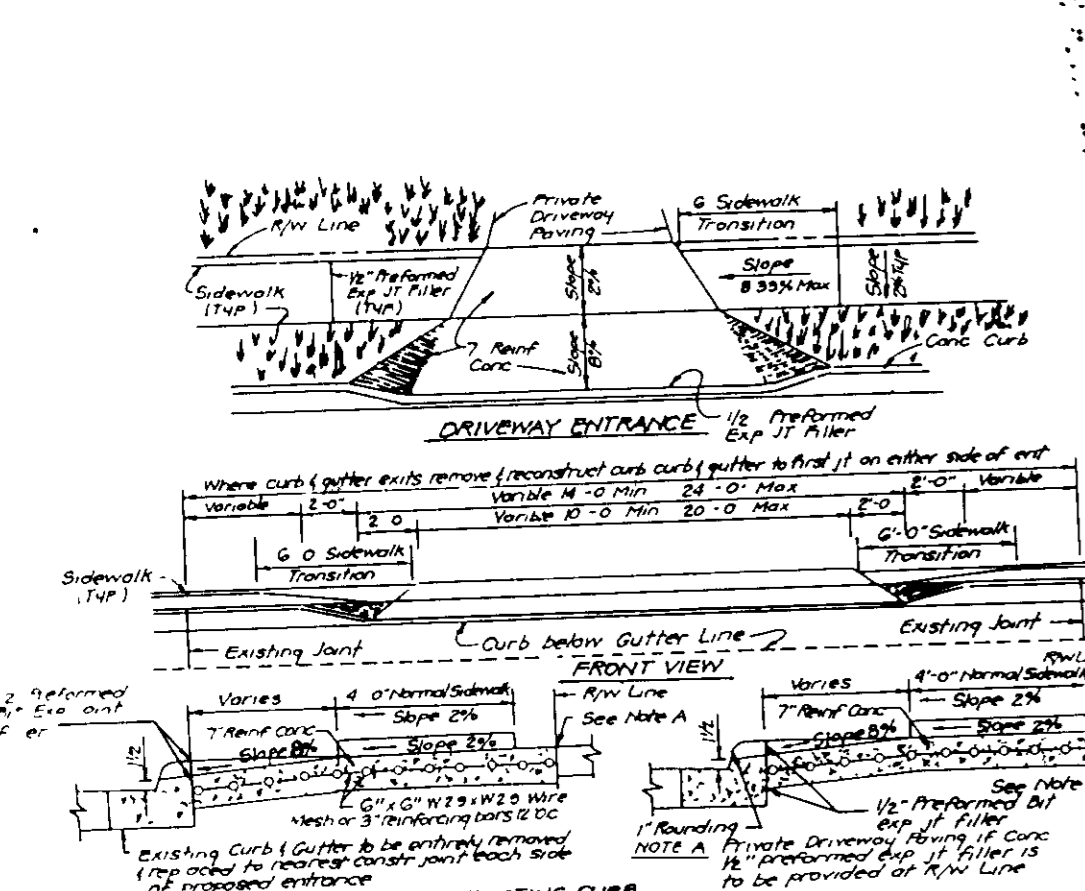


DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK



DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

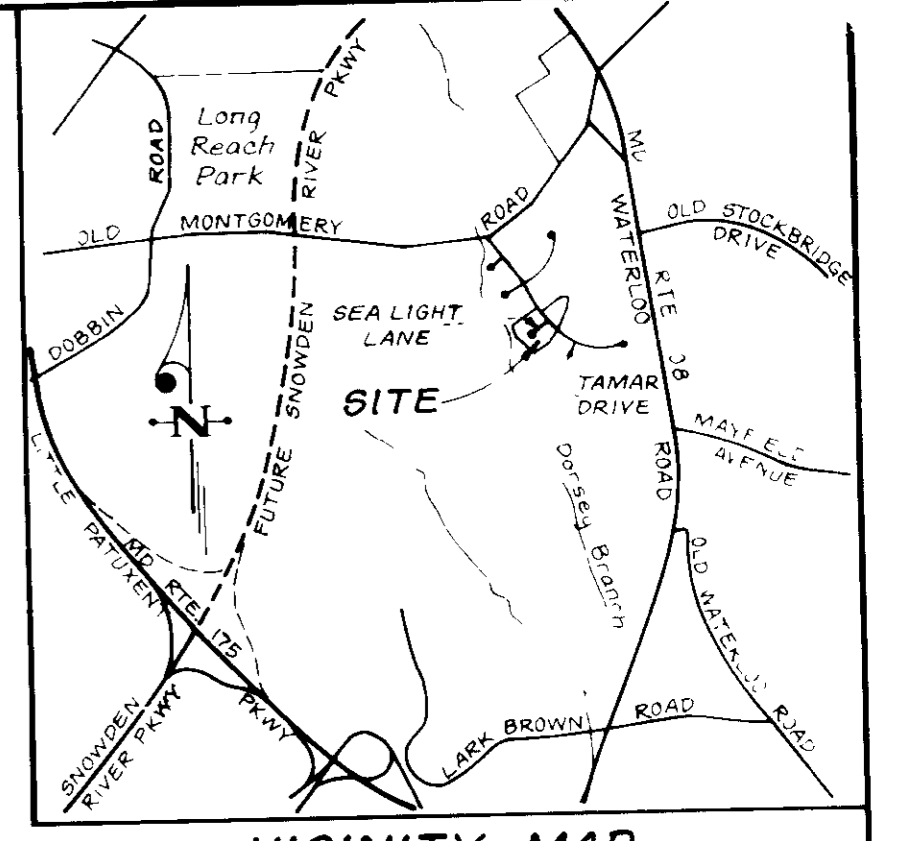
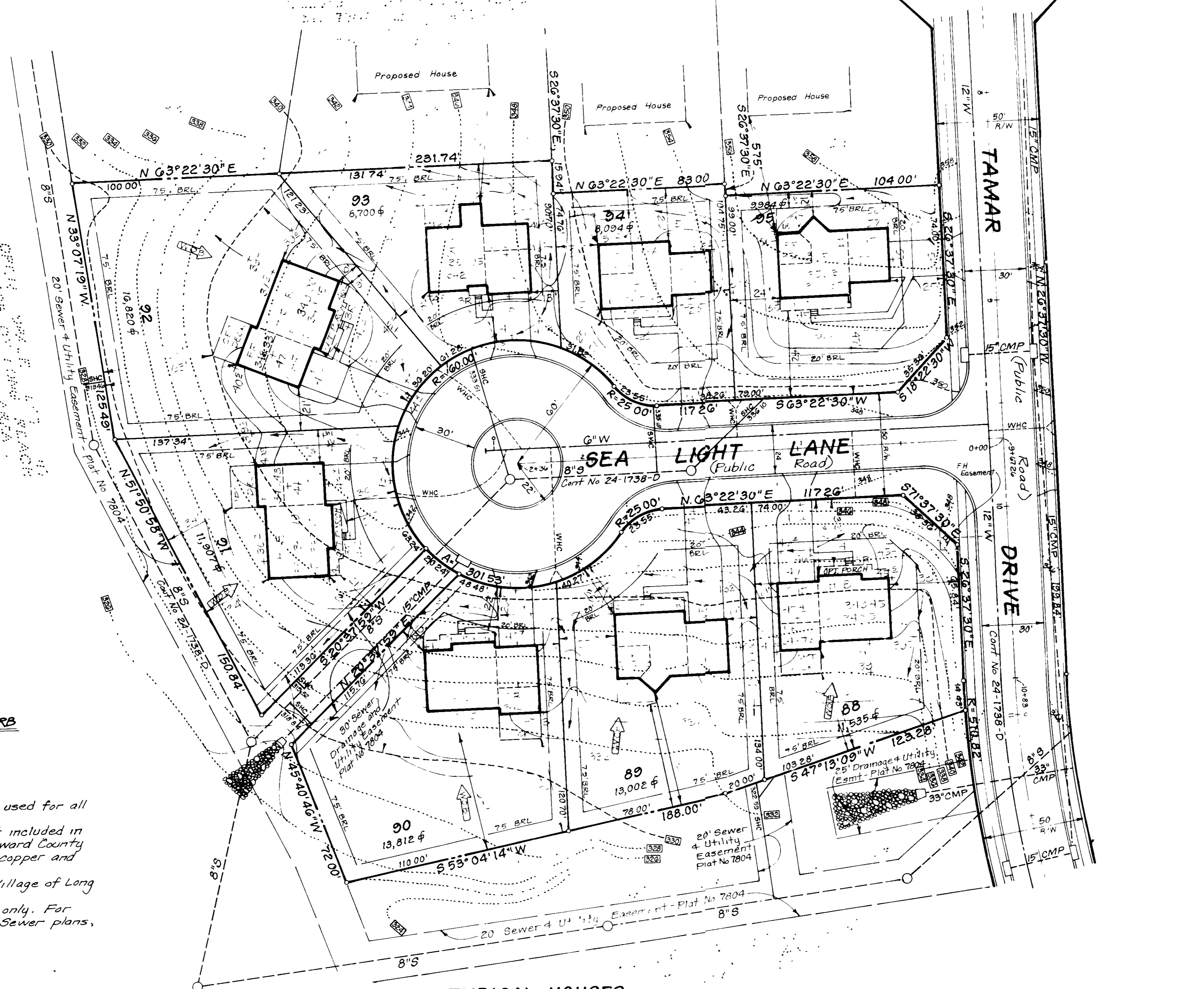


DRIVEWAY ABUTTING CLOSED SECTION WITH STD 7" COMB CURB & GUTTER & SIDEWALK SET BACK FROM CURB

- SPECIAL NOTES**
- 1 Approved Road Construction Plans shall be used for all public utilities.
 - 2 The water and sewer house connections not included in a "Developer's Agreement" shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper and the SHC shall be 4" iron
 - 3 Stormwater Management provided in the Village of Long Reach, F88-78
 - 4 Public water and sewer shown for reference only. For more detailed information - See Water and Sewer plans, Contract No. 24-1738-D

LEGEND

Contour Interval	2 Ft
Existing Contour	950
Proposed Contour	950
Spot Elevation	+52±
Direction of Drainage	→
Walk-Out Basement	→

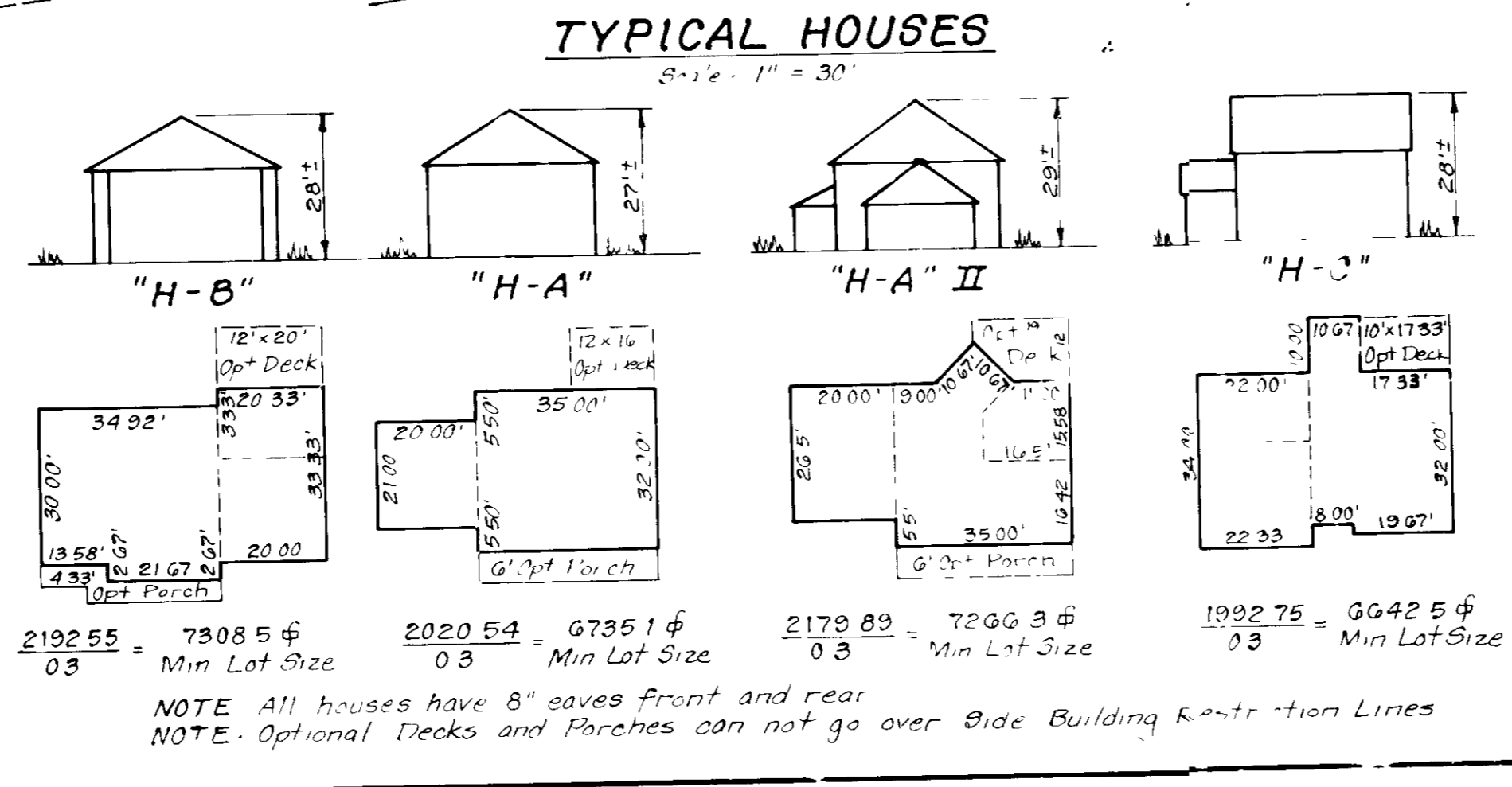


ADDRESS CHART

LOT No	STREET ADDRESS
88	8401 Sea Light Lane
89	8405 " " "
90	8409 " " "
91	8413 " " "
92	8417 " " "
93	8421 " " "
94	8425 " " "
95	8434 Tamar Drive

- GENERAL NOTES**
- 1 Subject property zoned NT per Comprehensive Zoning Plan dated 8/2/85
 - 2 The coordinates shown hereon are based on the Maryland State Grid System and derived from the following Howard County Control Stations 2544002 and 2544008
 - 3 All roads are public and existing.
 - 4 Any damage to county owned rights-of-way to be corrected at the Developer's expense
 - 5 Total area included: 2.15 Acres
 - 6 Total number of lots: 8
 - 7 Reference Final Development Plan Criteria, Section Two Phase 196
 - 8 Maximum lot coverage is 30%
 - 9 The Contractor or Developer shall contact the Construction Inspection/Survey Division, 24 hrs in advance of commencement of work at 792-2630
 - 10 Existing topography taken from plans prepared by Fisher, Collins and Carter, Inc
 - 11 Reference file numbers S87-39, P87-60, F88-78

Building Restriction Lines
Front 20' Min
Side and Rear 75' Min



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 7-1-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 7/6/88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6/27/88



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

DESIGNED: CMS
DRAWN: LAI
CHECKED: CMS
DATE: 5-4-88

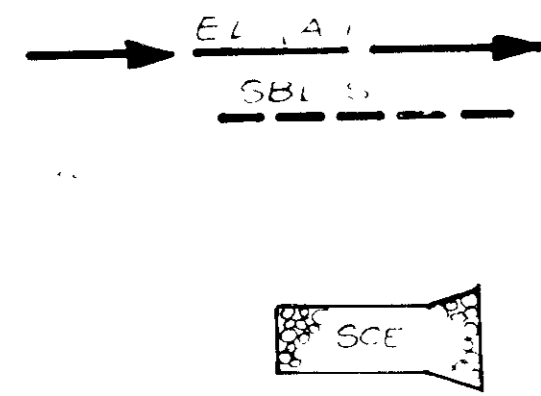
SITE DEVELOPMENT PLAN
LOTS 88-95
COLUMBIA
VILLAGE OF LONG REACH
SECTION 2 AREA 1
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: HALLMARK BUILDERS, INC
P.O. Box 1018
Columbia, Maryland 21044

SCALE: 1" = 30'
DRAWING: 1 of 3
JOB NO: 88-064
FILE NO: 88-064 X

SDP-88-203c

LEGEND



TRAP #1 - S.O.S.T (ST II)

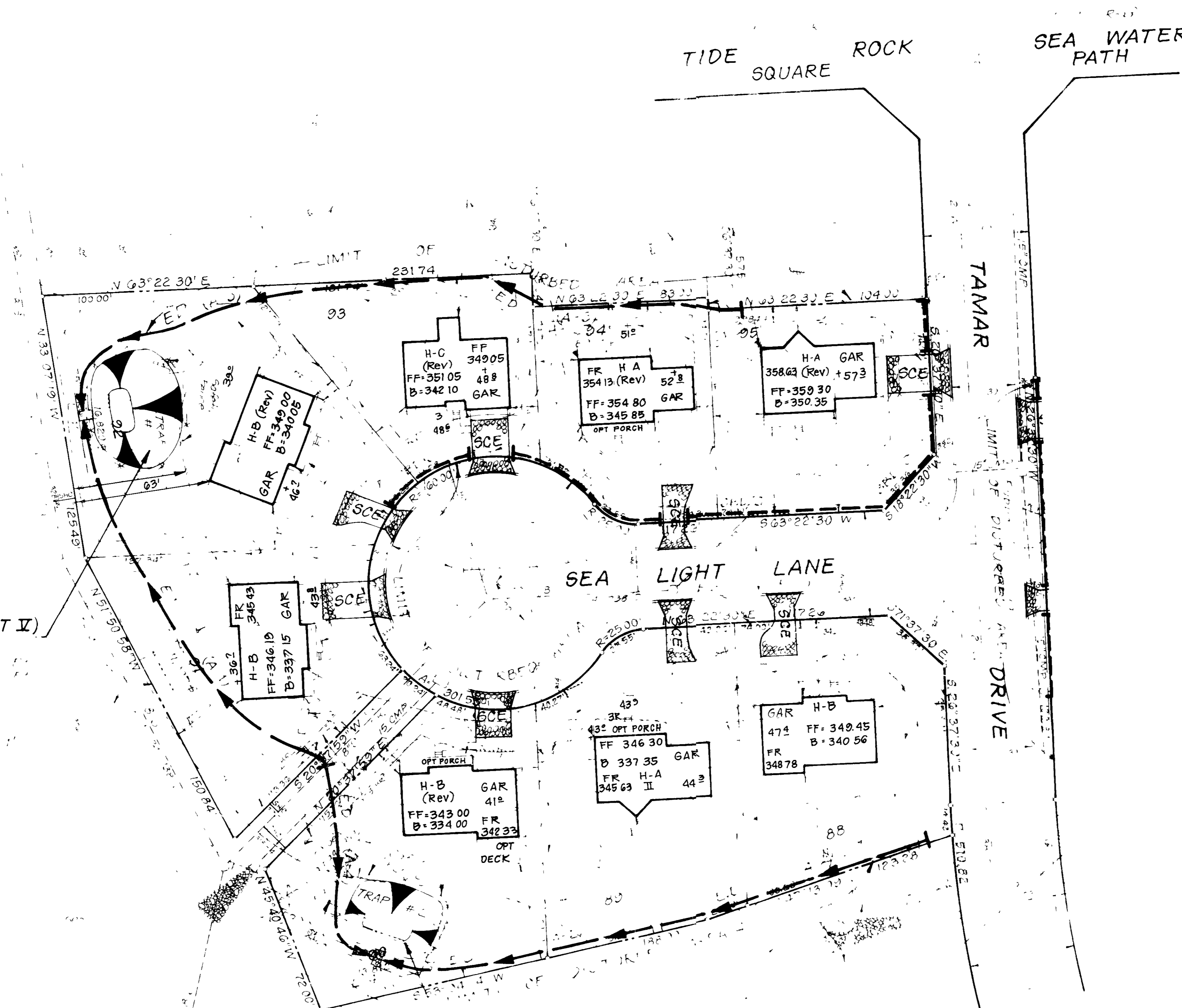
TRAP #2 - S.O.S.T (ST II)

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd M.O.P.E.S. 7-1-88
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
James M. Smith 7/6/88
James M. Smith 7/6/88
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James J. Lane 6/27/88
Elizabeth Anderson-Cole 6/27/88
 DATE

6-2-88
 LKS



Reviewed for HOWARD SCD
 Name
 and meets Technical Requirements
James M. Smith 6/17/88
 Signature Date
 U.S. Soil Conservation Service

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

James M. Smith
 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 Conserva-
 tion District.
Jeffrey L. Schmitt 6/8/88
 Date



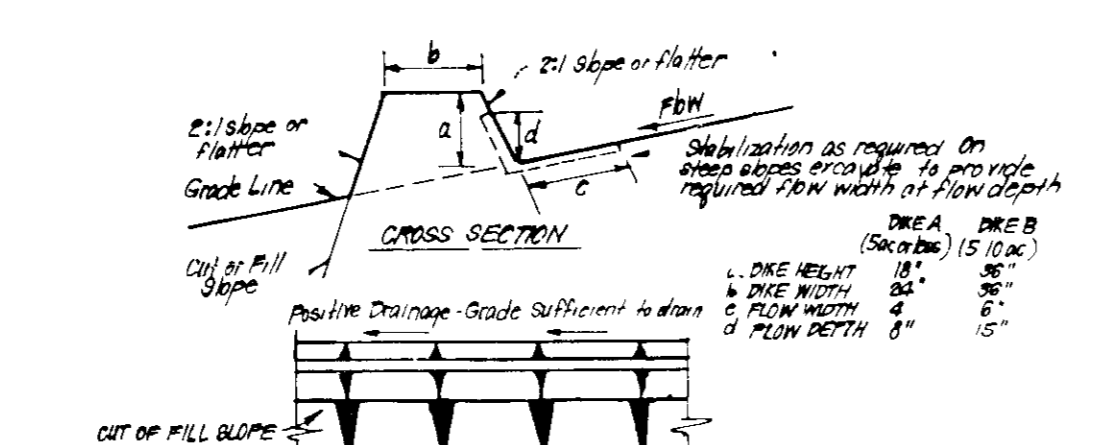
DEVELOPER'S/BUILDERS CERTIFICATE
 "We certify that all development and construction will be done
 according to this plan of development and also for erosion and sediment
 control and that all responsible personnel involved in the construction
 project will have a Certificate of Attendance at a Dept. 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."
James M. Smith 5/11/88
 Signature of Developer/Builder Date

CLARK • FINE ROCK • SACKETT INC
 EQUIPMENT AND SUPPLY CENTER
 LOTS 88-95
 COLUMBIA
 VILLAGE OF LONG REACH
 SECTION 2 AREA 1
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 48 MARK BUILDERS INC
 Box 101
 Columbia, Maryland 21044

MCB
 LAI
 MCB
 5-4-88

88-004
 88-004
 88-004
 88-004

- 1) A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
- 2) B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.
- 3) C. Construct Structures, Sidewalks and Driveways.
- 4) D. Final Grade and Stabilize in accordance with Stds. & Specs.
- 5) E. Upon approval of the sediment control inspector remove sediment and erosion controls and stabilize.



CONSTRUCTION SPECIFICATIONS:

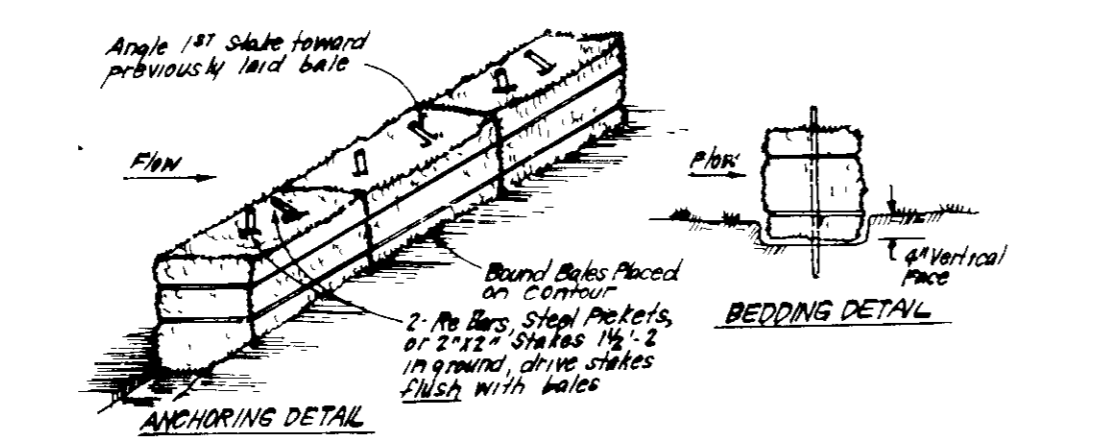
1. All dikes shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized soil outlet.
5. Earth dikes shall have an outlet near foundations with a minimum of 3' clearance. Runoff shall be conveyed to a sediment/trapping device such as a sediment trap or sediment basin where either, the dike channel or the drainage area above the dike are not satisfactorily stabilized.
6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	15-3.0%	Seed or Straw Mulch	Seed or Straw Mulch
2	3.1-5.0%	Seed or Straw Mulch	Seed with or without Straw
3	5.1-8.0%	Seed with or without Straw	Seed with or without Straw
4	8.1-20.0%	Lead Rip Rap 4" Stone	Lead Rip Rap 4" Stone

A Stone to be 2" Stone, or recycled concrete equivalent, in a layer of at least 3" thick and be pressed into soil with construction equipment.
B Rip Rap to be at least 1/4" in a layer of at least 1/4" thick, pressed into soil.
C Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and required maintenance must be provided after each rain.

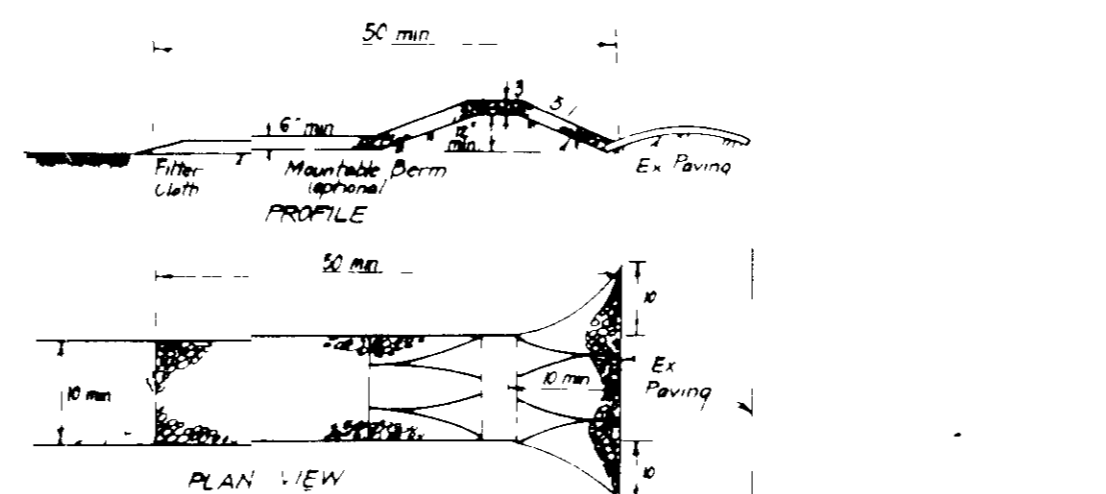
EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. 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.
2. Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal.
3. Dikes shall be securely anchored in place by either 2 stakes or 10 bars driven thru the bale.
4. The 10 bars in each bale shall be driven through the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the soil.
5. Inspection shall be frequent and repair replacement shall be made promptly as needed.
6. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

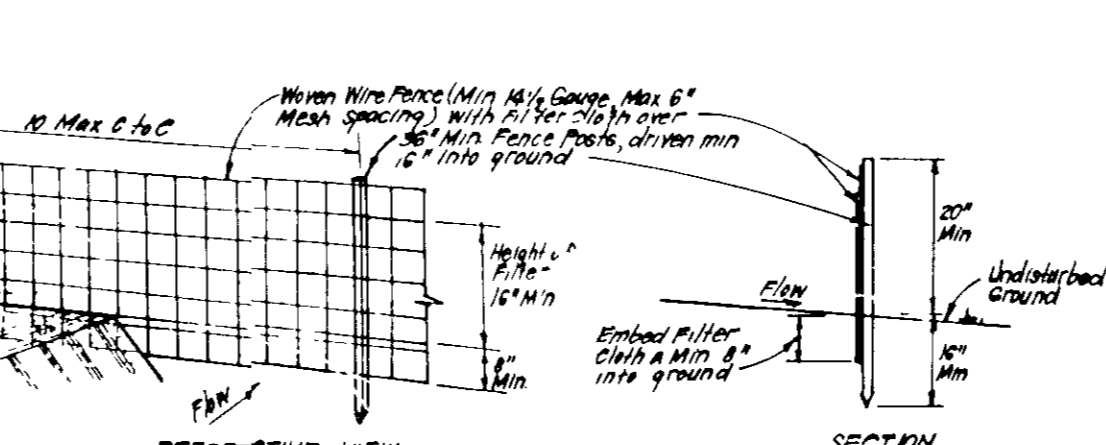
STRAW BALE DIKE DETAIL (SBD)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Stone size: Use 2" Stone or recycled concrete equivalent.
2. Length: As required, but not less than 30" length, except on a single residence or where a 30" length minimum length would apply.
3. Thickness: Not less than 12" inches.
4. Width: Ten (10) feet minimum, but not less than the full width of entry where increase or decrease occurs.
5. Filter Cloth: The entire area over the stone shall be covered with filter cloth. The filter cloth shall be secured to the stone with staples or other fasteners. The filter cloth shall be secured to the stone with staples or other fasteners. The filter cloth shall be secured to the stone with staples or other fasteners.
6. Surface Water: All surface water flowing or diverted toward construction entrances shall be kept from the entrance. If any impurities are present, a mound shall be built up to prevent tracking of sediment into public rights of way. This mound shall be periodic, the drawing with additional stone be considered. Mound and surface water shall be cleaned up if any impurities are present. All sediment applied, grassed, seeded or tracked onto public rights of way must be removed immediately.
7. Weeping: Weeds shall be removed to remove sediment from the entrance into public rights of way. When weeding is required, it shall be done in an area stabilized with 1/4" stone which drains into an approved sediment trapping device.
8. Periodic inspection and required maintenance shall be provided after each rain.

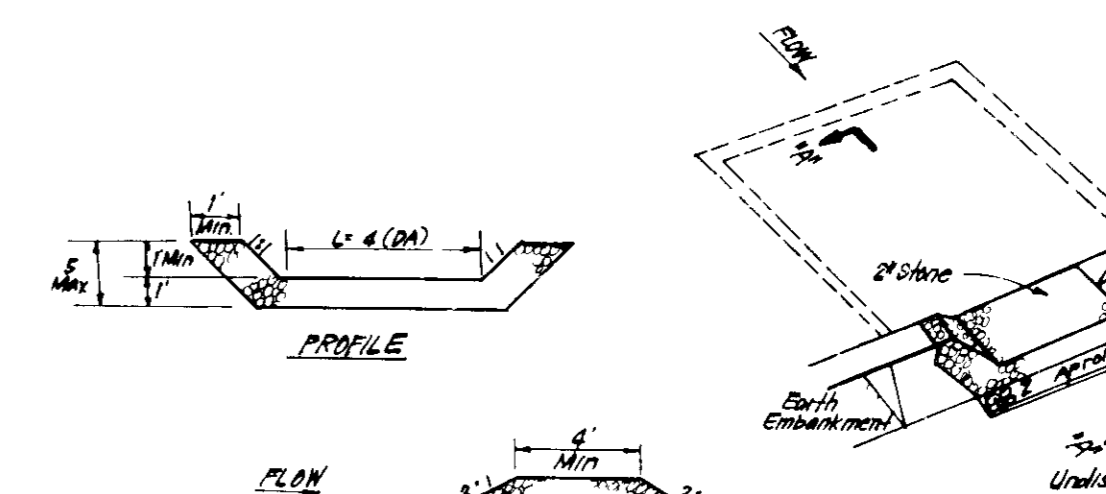
STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. When wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter Cloth to be fastened securely to woven wire fence with ties spaced every 30" in top and mid section.
3. When 2 sections of filter cloth begin each other they shall be overlapped by 6" after which they shall be fastened together.
4. Maintenance shall be performed as needed and material removed when it begins to develop in soil.

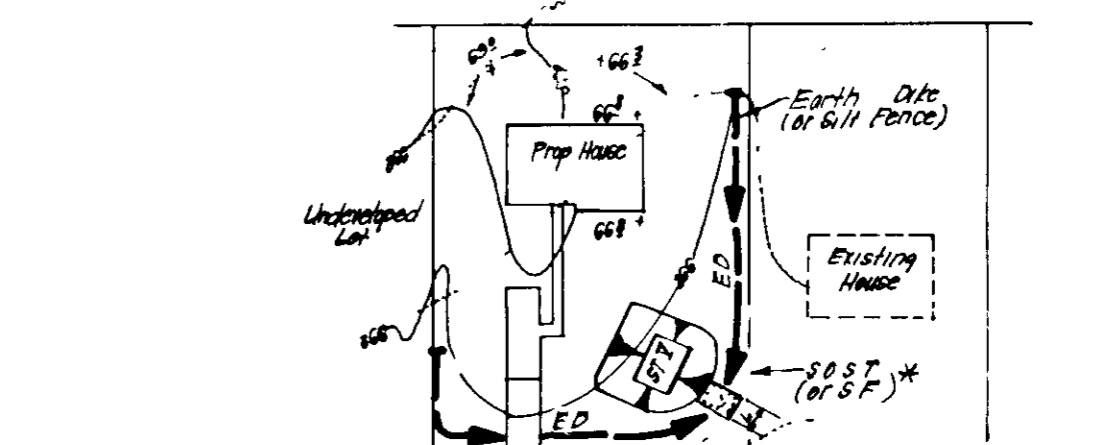
DILT FENCE DETAIL (DF)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be compacted.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized 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 4" with 1" thickness of 2" aggregate placed on the up-slope side of the small rip rap or crushed 1/2" rip rap. The rip rap shall be placed in place of crushed 1/2" rip rap.
5. Sediment shall be removed and trap restored to its original condition when the sediment has accumulated to 1/2" the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.)
NO SCALE



* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be constructed at the same time or on any lots showing a sediment trap.

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

2) Site Visit: 215 Net
1,500 Net
0.40 Net
1,850 Net
2,320 Net
N/A

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9) Additional sediment control may be provided, if deemed necessary by the Howard County PWS sediment control inspector.

10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other existing or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

11) If necessary and to be constructed on a "As-Built" basis, or random, Single Lot Sediment Control is shown below 4 will be implemented.

12) All dikes shall be blocked at the end of each day (see detail below) N/A

13) The 40' length of straw bale dikes/silt fence equals

PERMANENT SEEDING NOTES

Apply to all cleared areas not subject to immediate further disturbance which a permanent cover is needed.

Soil Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously tilled.

Soil Amendments: In lieu of soil test recommendations use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1200 lbs per acre 10-10-10 fertilizer (28 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 1/2 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 (0.5 lbs/1000 sq ft) of weeping lovegrass. During the period of October 15 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 seed 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 untreated 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 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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.

Soil Preparation or Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously tilled.

Soil Amendments: 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 1 thru November 15, seed with 35 bushel per acre of annual ryegrass (3 1/2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 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 seed.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated 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 site and methods not covered.

CONSTRUCTION SEQUENCE:

Activity	Number of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	5
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	21
C. Construct Structures, Sidewalks and Driveways.	180
D. Final Grade and Stabilize in accordance with Stds. & Specs.	10
E. Upon approval of the sediment control inspector remove sediment and erosion controls and stabilize.	5

* NOTE: Existing trap on Lot 90 may not be replaced by proposed trap #2 until permission to do so has been granted by the Howard County Sediment Control Inspector.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 7-1-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 7/6/88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 7/6/88

CHIEF BUREAU OF ENGINEERING
DATE: 6/24/88

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
DATE: 6/17/88

SIGNATURE: [Signature]
DATE: 6/17/88

U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District

APPROVED
Howard S C D DATE

DEVELOPERS/BUILDERS CERTIFY

[Signature]

5-11-88



5/11/88 Date
Jeffrey L. Schwab

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

DESIGNED: MCB
DRAWN: LAI
CHECKED: MCB
DATE: 5-4-88

SEDIMENT AND EROSION CONTROL PLAN
LOTS 88 - 95
COLUMBIA
VILLAGE OF LONG REACH
SECTION 2 AREA 1
GTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'
DRAWING: 3 of 3
JOB NO: 88-064
FILE NO: 88-0943E

FOR: HALLMARK BUILDERS, INC
P.O. Box 1018
Columbia, Maryland 21044

SDP-88-203-C