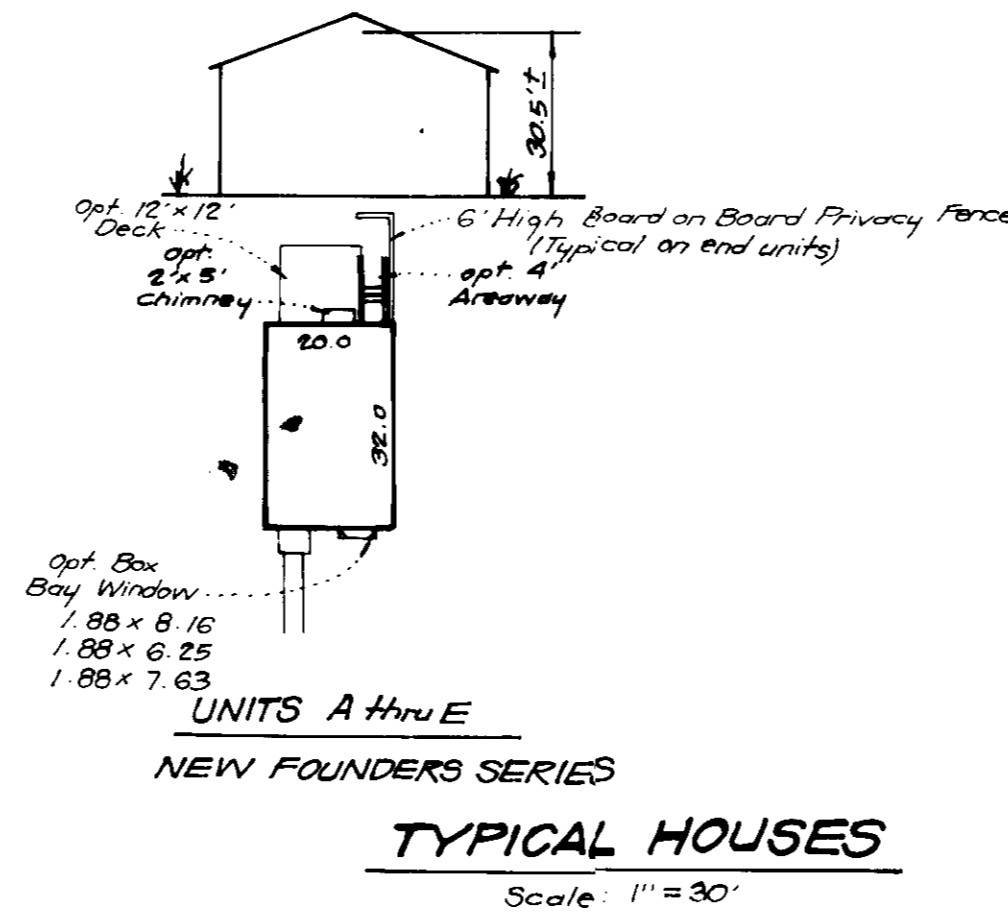
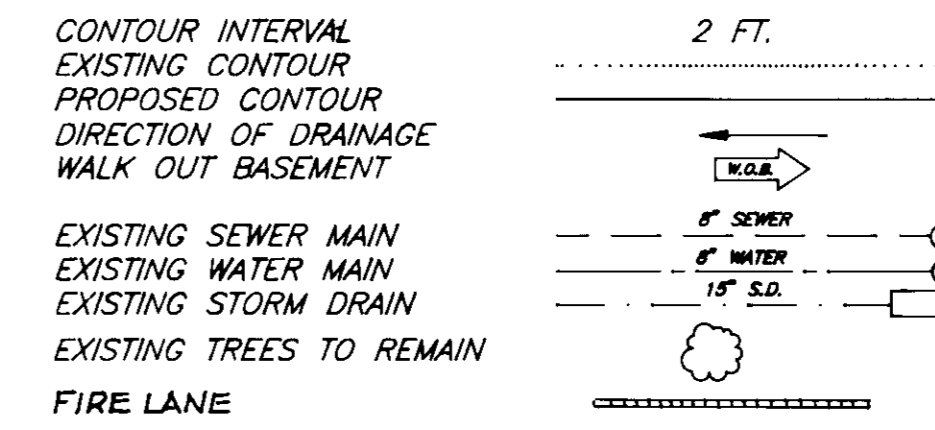


STREET ADDRESS CHART		
LOT NO.	ADDRESS	
B-1	6101 STARBURN PATH	
B-2	6103 STARBURN PATH	
B-3	6105 STARBURN PATH	
B-4	6107 STARBURN PATH	
B-5	6109 STARBURN PATH	
B-6	6111 STARBURN PATH	
B-7	6113 STARBURN PATH	
B-8	6115 STARBURN PATH	
B-9	6117 STARBURN PATH	
B-10	6119 STARBURN PATH	
B-11	6121 STARBURN PATH	
B-12	6123 STARBURN PATH	
B-13	6125 STARBURN PATH	
B-14	6127 STARBURN PATH	
B-15	6129 STARBURN PATH	
B-16	6131 STARBURN PATH	
B-17	6133 STARBURN PATH	
B-18	6135 STARBURN PATH	
B-19	6137 STARBURN PATH	
B-20	6139 STARBURN PATH	
B-21	6141 STARBURN PATH	
B-22	6143 STARBURN PATH	
B-23	6145 STARBURN PATH	
B-24	6147 STARBURN PATH	
B-25	6149 STARBURN PATH	
B-26	6151 STARBURN PATH	
B-27	6153 STARBURN PATH	
B-28	6155 STARBURN PATH	
B-29	6157 STARBURN PATH	
B-30	6159 STARBURN PATH	
B-31	6161 STARBURN PATH	
B-32	6163 STARBURN PATH	
B-33	6165 STARBURN PATH	
B-34	6167 STARBURN PATH	
B-35	6169 STARBURN PATH	
B-36	6171 STARBURN PATH	
B-37	6173 STARBURN PATH	
B-38	6175 STARBURN PATH	
B-39	6177 STARBURN PATH	
B-40	6179 STARBURN PATH	
B-41	6181 STARBURN PATH	
B-42	6183 STARBURN PATH	
B-43	6185 STARBURN PATH	
B-44	6187 STARBURN PATH	
B-45	6189 STARBURN PATH	
B-46	6191 STARBURN PATH	
B-47	6193 STARBURN PATH	
B-48	6195 STARBURN PATH	
B-49	6197 STARBURN PATH	
B-50	6199 STARBURN PATH	
B-51	6201 STARBURN PATH	
B-52	6203 STARBURN PATH	
B-53	6205 STARBURN PATH	
B-54	6207 STARBURN PATH	
B-55	6209 STARBURN PATH	

SEWER HOUSE CONNECTION TABLE			
LOT NO.	INV. @ PL.	MIN. CELL.	
B-1	382.4	386.2	
B-2	382.5	386.3	
B-3	382.7	386.3	
B-4	382.8	386.4	
B-5	383.0	386.7	
B-6	383.1	386.7	
B-7	383.4	387.0	
B-8	384.7	388.4	
B-9	385.1	388.8	
B-10	385.2	388.9	
B-11	385.6	389.3	
B-12	385.7	389.4	
B-13	386.1	389.8	
B-14	386.2	389.9	
B-15	386.5	390.2	
B-16	387.5	391.1	
B-17	387.0	390.6	
B-18	387.3	390.9	
B-19	387.0	390.6	
B-20	387.1	390.7	
B-21	387.5	391.1	
B-22	387.7	391.3	
B-23	387.8	391.4	
B-24	388.0	391.6	
B-25	388.1	391.7	
B-26	388.6	392.4	
B-27	388.6	392.2	
B-28	388.4	392.1	
B-29	388.0	391.7	
B-30	387.8	391.4	
B-31	387.7	391.3	
B-32	387.3	391.0	
B-33	386.9	390.5	
B-34	386.5	390.2	
B-35	386.5	390.1	
B-36	386.2	389.8	
B-37	386.1	389.7	
B-38	385.8	389.4	
B-39	386.0	389.5	
B-40	386.1	389.6	
B-41	386.1	389.7	
B-42	385.8	389.4	
B-43	385.6	389.2	
B-44	385.1	388.7	
B-45	384.9	388.5	
B-46	384.3	388.0	
B-47	384.1	387.7	
B-48	383.3	387.0	
B-49	383.1	386.7	
B-50	382.8	386.4	
B-51	382.7	386.3	
B-52	382.5	386.1	
B-53	382.4	386.0	
B-54	382.2	385.9	
B-55	382.1	385.8	



**LEGEND**



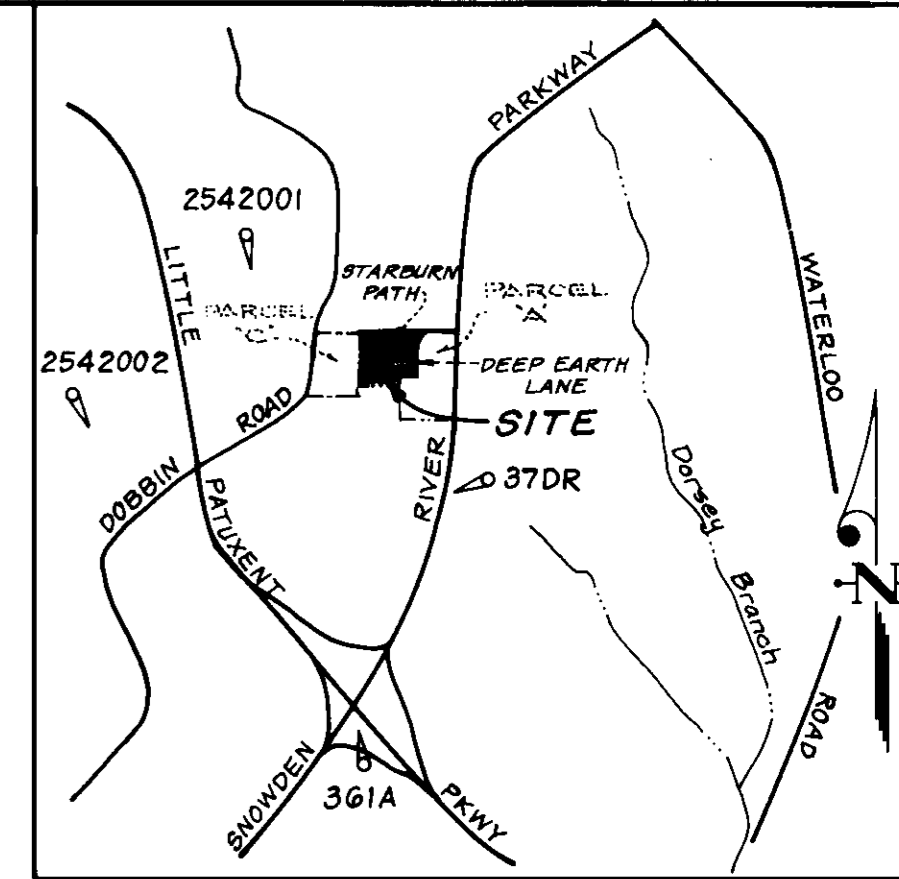
**SITE ANALYSIS**

- Subject property is zoned: NT-SFA per 8/2/85 Comprehensive Zoning Plan, FDP 220-A
- Unit type proposed: Single family attached
- Number of units allowed: 55
- Number of units provided: 55
- Number of parking spaces required: 110 (2 per unit)
- Number of parking spaces provided: 120
- Area tabulation:
 

a) Total area of the parcel	5.90 AC
b) Total lot area	2.88 AC
c) Open space & private parking	2.02 AC
d) Public road area	1.01 AC
- Building coverage permitted: N/A
- Building coverage proposed: 0.80 AC or 17.8%

**GENERAL NOTES:**

- The existing topography shown was taken from approved road construction plans F-93-130 prepared by Deff, McCune & Walker, Inc. on 4-12-93.
- Department of Planning & Zoning reference file numbers are: SP-93-10, WP-93-41, F-93-130, FDP PHASE 220-A
- All roadways are public and existing.
- The coordinates shown herein are based upon plat meridian for Village of Longreach, Section 4 Area 3
- The contractor shall notify the Department of Public Works/Construction Inspection Division at (410) 313-1800 at least (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- Utilities shown as existing are taken from approved Water and Sewer plans, Contract #24-3277-D, approved Road Construction plans F-93-130.
- Storm water management is provided off site in a regional storm water management facility as shown on F-93-130 & F-88-171 Extended Detention/Detention
- Vehicular ingress & egress into public rights-of-way is restricted except at locations approved by Howard County Department of Planning and Zoning.
- Public water and sewer is to be utilized.
- Any damage to county owned rights-of-way to be corrected at the developers expense.
- The area included in this submission is located on Tax Map No. 36, Part of Parcel 20
- All materials and construction to be in accordance with the Howard County Road Construction Codes and Specifications.
- The minimum building setback restrictions from the property lines and the rights-of-way of any public road to be in accordance with the Final Development Plan, Phase 220.
- Wetland evaluation prepared by Geotechnology Associates, Inc. on August 31, 1992.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location of utilities by digging test pits, by hand, at all crossings prior to construction.
- The Contractor or developer agrees to work with the Department of Inspections, Licenses and Permits to resolve any problem with roof water discharge.
- Installation of traffic control devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control".
- Bench marks taken from a Road Construction plans, F-93-130.
- A traffic study was prepared by Wells and Associates, on October 19, 1992 and updated in April, 1993.
- Environmental analysis was submitted with previously approved Preliminary Equipment Sketch Plans, SP-93-10.
- Limit of Submission includes Lots B-1 thru B-55.
- WP-93-43 approved December 8, 1992, to waive Section 16.116(c)(6) to allow grading and removal of vegetation in wetlands and stream buffers.



**VICINITY MAP**

SCALE: 1"=2000'

**BENCHMARKS**

- DESCRIPTION**
- STATION 2542001 (CONCRETE MONUMENT)  
ELEV. 426.971 (FOR VERTICAL CONTROL ONLY)  
STATION IS LOCATED ON BG&E TRANSMISSION LINES, 1060± SW OF DOBBIN ROAD
- DESCRIPTION**
- STATION 37DR (1/4" REBAR)  
N. 169881.1794, E. 416566.7155 (FOR HORIZONTAL CONTROL ONLY)  
STATION IS LOCATED 0.45± MILES NORTH OF RTE. 175 AND 46± EAST OF THE EAST CURB OF SNOWDEN RIVER PARKWAY
- DESCRIPTION**
- STATION 361A (CONCRETE MONUMENT)  
N. 169205.9263, E. 416313.5119 (FOR HORIZONTAL CONTROL ONLY)  
STATION IS LOCATED AT THE SE CORNER OF THE INTERSECTION OF SNOWDEN RIVER PARKWAY AND RTE. 175  
3± FROM CURB AND 5.7± FROM GRADRAIL END

**SHEET INDEX**

DESCRIPTION	SHEET NO.
SITE DEVELOPMENT COVER SHEET	1
SITE DEVELOPMENT PLAN	2
SEDIMENT AND EROSION CONTROL PLAN	3
SEDIMENT AND EROSION DETAILS SHEET	4
LANDSCAPE PLAN	5

OWNER / DEVELOPER:  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MD 21044

SUBDIVISION NAME		SECTION/AREA	LOTS/PARCELS
COLUMBIA-VILLAGE OF LONGREACH		4/3	B-1 THRU B-55
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.
11090 & 11091	12	N.T.	36
WATER CODE		ELECTION DIST.	GENUS TRACT
E-06		6TH	6067 03
SEWER CODE		3530000	

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

*James M. Kaplan, Sr.* 12-20-93  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

*Joseph B. Smith* 11/21/94  
DIRECTOR DATE

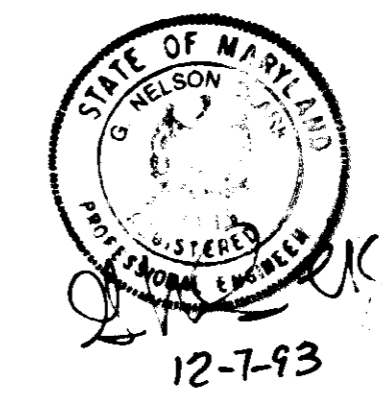
*Chim Summons* 1/21/94  
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

*James P. Shum* 2/15/93  
DIRECTOR DATE

*Charles E. Spason* 12/15/93  
CHIEF BUREAU OF ENGINEERING, M.K. 06 10/1/83 DATE

No.	Rev. Use Typical	REVISIONS	Date
1	Rev. Use Typical		5-18-94



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

7135 MINSTREL WAY • COLUMBIA, MD 21046 • (410) 381-7300 • BALTO. • (410) 671-8000 • WASH.

DESIGNED: MJP  
DRAWN: LAI  
CHECKED: MJP  
DATE: 9-22-93

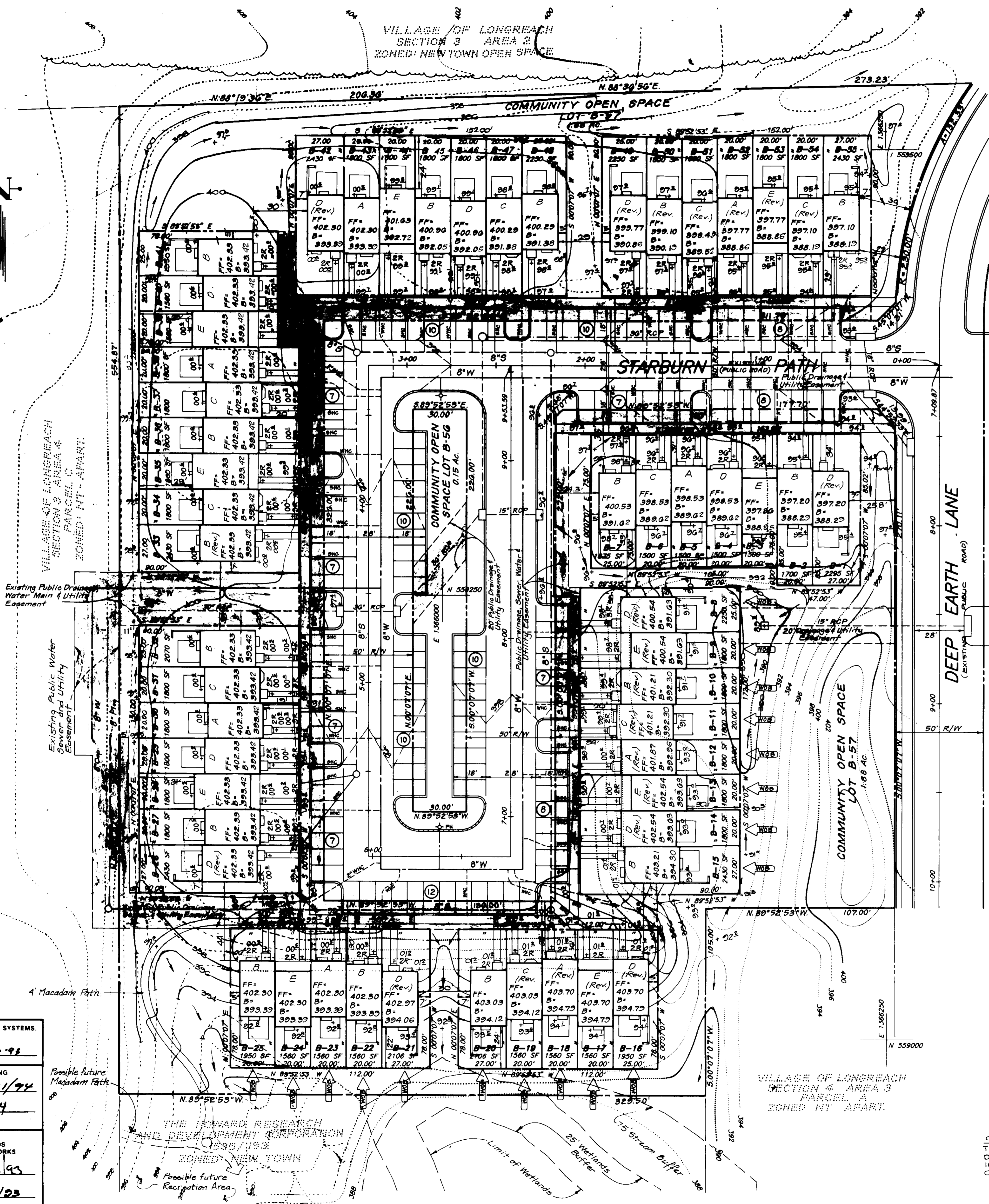
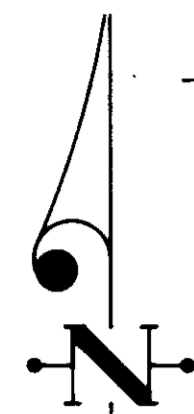
SITE DEVELOPMENT PLAN  
LOTS B-1 THRU B-55  
**COLUMBIA**  
VILLAGE OF LONGREACH  
SECTION 4 AREA 3  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE: As Shown  
DRAWING: 1 OF 5  
JOB NO: 93-090  
FILE NO: 93-090-X

FOR: THE RYLAND GROUP, INC. (Columbia Division)  
7130 Minstrel Way Suite 215  
Columbia, Maryland 21045

SP-94-32

VILLAGE OF LONGREACH  
SECTION 3 AREA 3  
ZONED: NEW TOWN OPEN SPACE



AP. ROVE  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 11-23-93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Boyd*  
COUNTY HEALTH OFFICER DATE 12-20-93

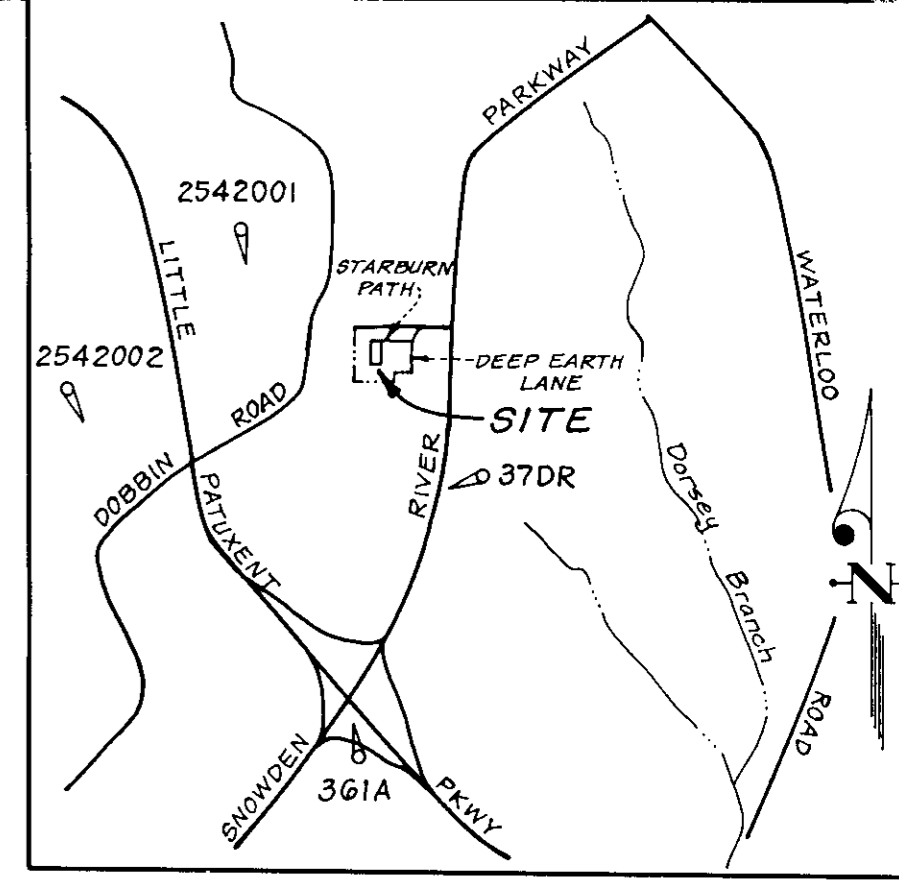
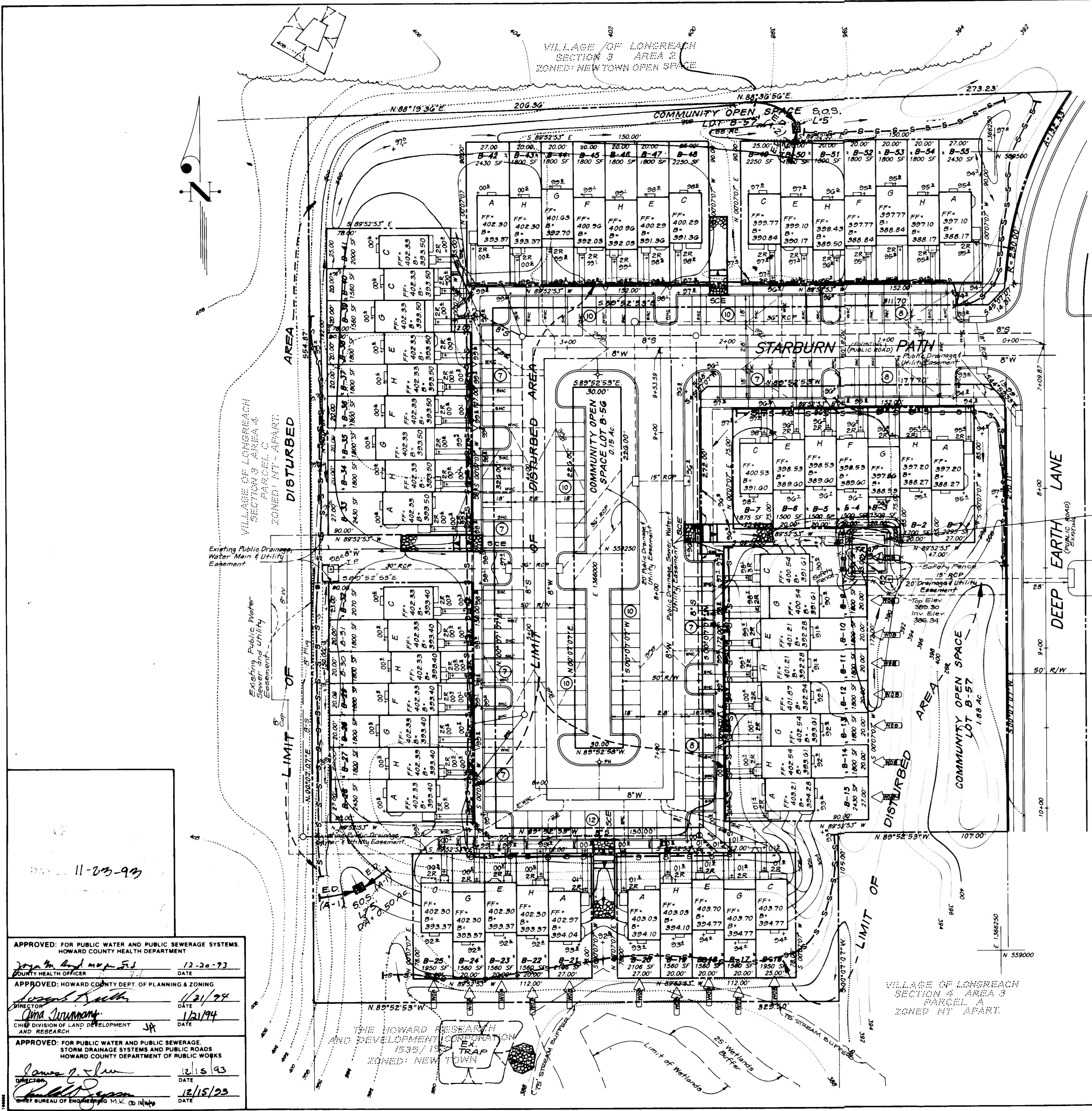
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
*David K. Miller*  
DIRECTOR DATE 11/21/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James J. Schum*  
DIRECTOR DATE 12/15/93

*Charles J. ...*  
CHIEF BUREAU OF ENGINEERING M.K. DATE 12/15/93

1. Revise house type lots B-1 thru B-55		5-18-94
No REVISIONS		Cafe
<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS		
DESIGNED MJP	SITE DEVELOPMENT PLAN LOTS B-1 THRU B-55	SCALE 1" = 30'
DRAWN LAI	COLUMBIA	DRAWING 2 OF 5
CHECKED MJP	VILLAGE OF LONGREACH SECTION 4 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 93-090
DATE 9-22-93	OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATIENT PARKWAY COLUMBIA, MD 21044	FILE NO. 93-090 X





- LEGEND**
- CONTOUR INTERVAL: 2 FT.
  - EXISTING CONTOUR: ---
  - PROPOSED CONTOUR: - - -
  - DIRECTION OF DRAINAGE: →
  - WALK OUT BASEMENT: [Symbol]
  - EXISTING SEWER MAIN: [Symbol]
  - EXISTING WATER MAIN: [Symbol]
  - EXISTING STORM DRAIN: [Symbol]
  - SILT FENCE: - - - - -
  - Existing Super Silt Fence: [Symbol]
  - Earth Dike: → E.D. (A-3) →
  - Stabilized Construction Entrance w/Mountable Berm: [Symbol]
  - Inlet Protection: [Symbol]

**TRAP NO. 1 SIST (ST-III)**  
 Drainage Area 1.0 Ac. (Ex.); 0.82 Ac. (Prop.)  
 Storage Req'd. 1800 CF  
 Storage Provided = 2025 CF  
 Depth 3 Ft.  
 Top of S Inlet 389.30  
 Clean Out Elev. 386.8  
 Bottom Elev. 385.3  
 Bottom Dimensions 23'x21'  
 1:1 Side Slopes

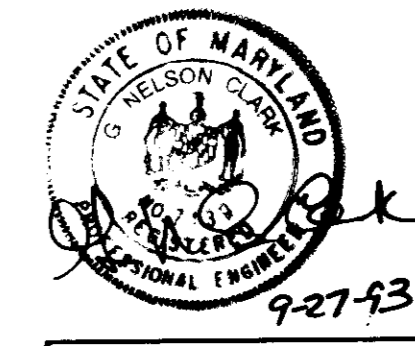
Reviewed for HOWARD S.C.D. Name  
 and meets Technical Requirements  
 Signature: *[Signature]*  
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: *[Signature]*  
 Approved

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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."

*Maurice M. Simpkins* 9-26-93  
 The Ryland Group, Inc. Date



OWNER:  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PARKWAY  
 COLUMBIA, MD 21044

<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 981-7500 BALTO • (301) 621-8100 WASH		
DESIGNED KIWM	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b> <b>LOTS B-1 THRU B-55</b> <b>COLUMBIA</b> VILLAGE OF LONGREACH SECTION 4 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN BAL		DRAWING 3 OF 5
CHECKED KIWM		JOB NO. 93-090
DATE 9-22-93		FILE NO. 93-090SE
FOR THE RYLAND GROUP, INC. (Columbia Division) 7130 Minstrel Hwy Suite 215 Columbia, Maryland 21045		

**ENGINEER'S CERTIFICATE**

I hereby certify that this plan for Sediment and Erosion 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]* 9-27-93  
 G. Nelson Clark Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* 12-20-93  
 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 DIRECTOR: *[Signature]* 12/1/94  
 DATE  
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH: *[Signature]* JK

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* 12/15/93  
 DATE  
 CHIEF BUREAU OF ENGINEERING: *[Signature]* M.K.

11-23-99

93P-91-32

**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, if not previously loosened.

**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.) before seeding, and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding.  
 2) 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. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)

**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 (0.5 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 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 unrattled 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 reseeding.

**TEMPORARY SEEDING NOTES**

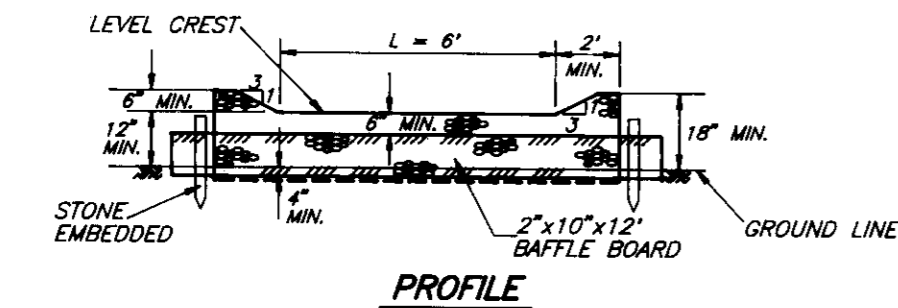
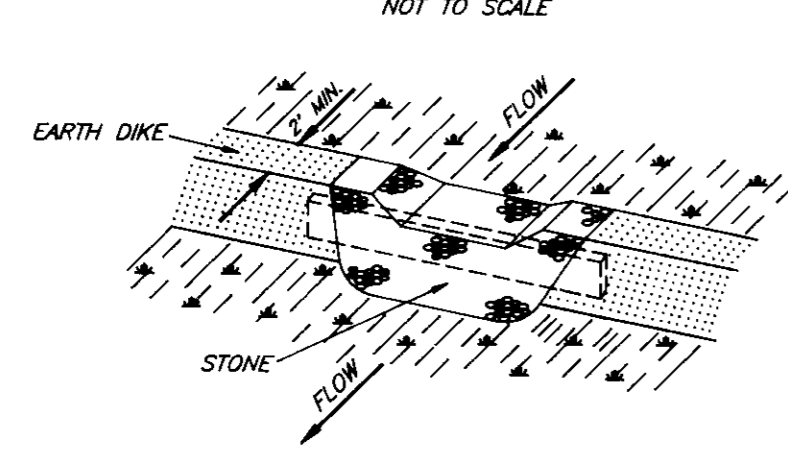
**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

**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 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (3.2 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 sod.

**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq ft) of unrattled 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.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

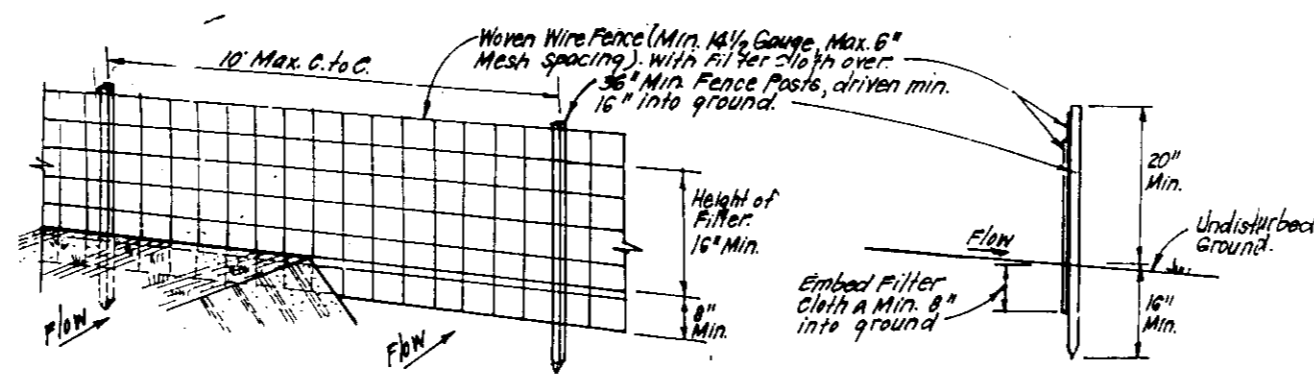
**STONE OUTLET STRUCTURE**



**CONSTRUCTION SPECIFICATIONS**

1. THE STONE SHALL BE CRUSHED STONE. GRAVEL MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. THE STONE SHALL MEET MSHA SIZE NO. 2 OR MASHO DESIGNATION MASH SIZE NO. 2 OR 24.
2. THE CREST OF THE STONE DIKE SHALL BE AT LEAST SIX INCHES LOWER THAN THE LOWEST ELEVATION OF THE TOP OF THE EARTH DIKE AND SHALL BE LEVEL.
3. THE STONE OUTLET STRUCTURE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR INCHES.
4. THE MINIMUM LENGTH, IN FEET, OF THE CREST OF THE STONE OUTLET STRUCTURE SHALL BE SIX.
5. THE STONE OUTLET STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN, AND THE STONE SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE STONE, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
6. THE BAFFLE BOARD SHALL BE EXTENDED ONE FOOT INTO THE DIKE, STAKED AND EMBEDDED 4 INCHES INTO EXISTING GROUND.

\* DRAINAGE AREA LESS THAN 1/2 ACRE.

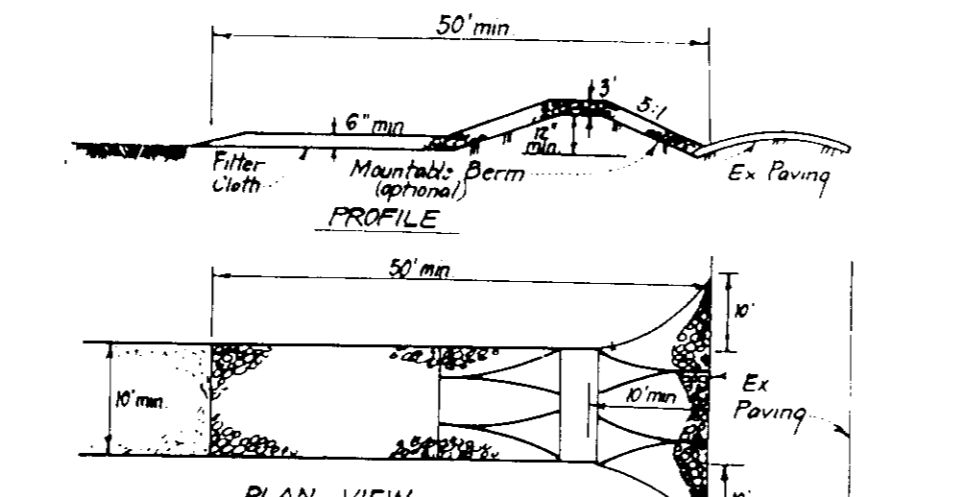


**CONSTRUCTION SPECIFICATIONS:**  
 1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.  
 2. Filter cloth to be fastened securely to woven wire fence with wire spaced every 24" at top and mid sections.  
 3. When 2 sections of filter cloth adjoin each other they shall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

**POSTS:** 2" x 4" or 4" x 4" Type of 1/2" diameter  
**FENCE:** Woven Wire, 1 1/2" Gauge, 6" Max. Mesh Opening  
**FILTER CLOTH:** Filter Cloth, Mynal, 60#, Sublink, T100N or Approved Equal  
**PREFABRICATED UNIT:** Geotub, Envirofence, or Approved Equal

**SILT FENCE DETAIL (S)**

NO SCALE

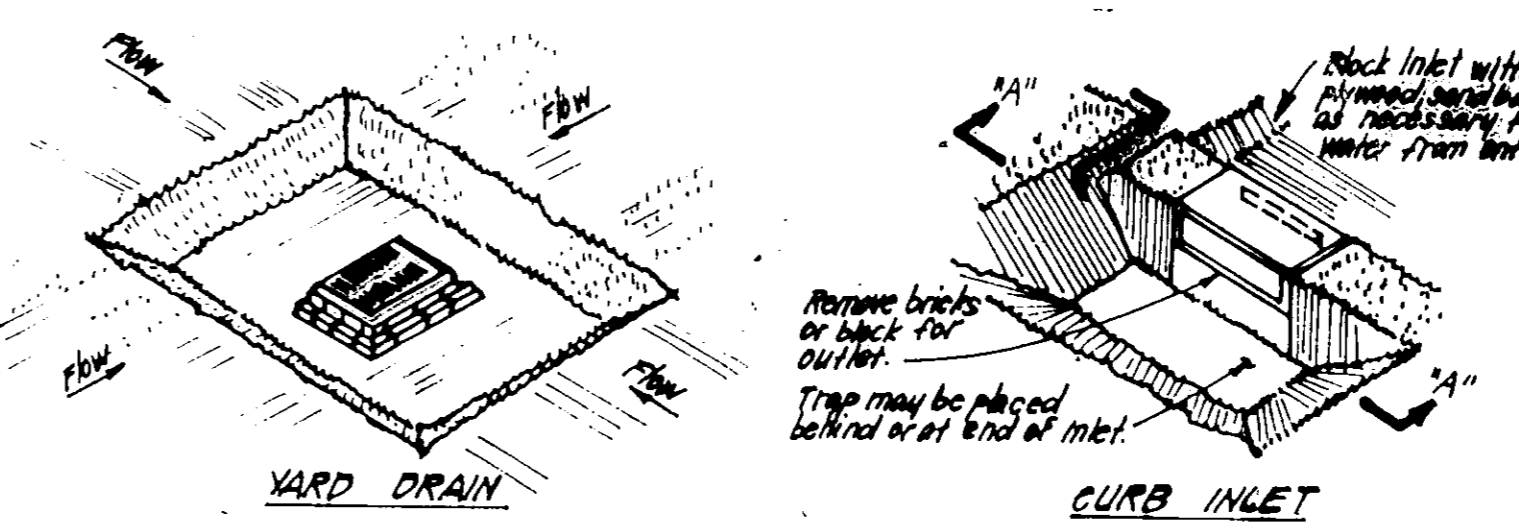


**CONSTRUCTION SPECIFICATIONS:**

1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a simple residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
5. 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.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5" slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment onto public rights-of-way. This may require periodic top dressing with additional filter cloth as deemed and repair and/or cleanup of any materials used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**

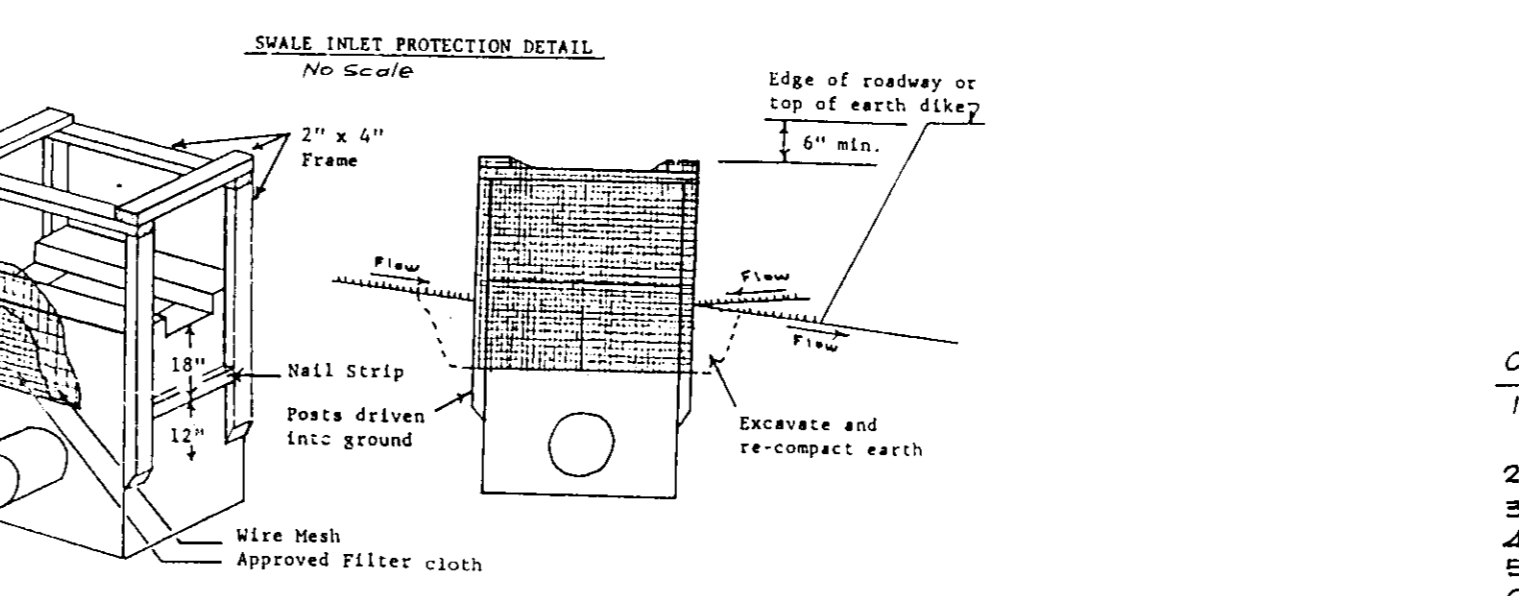
NO SCALE



**CONSTRUCTION SPECIFICATIONS:**  
 1. Sediment shall be removed and the trap restored to its original dimensions when sediment has accumulated to the design depth or the trap removed sediment shall be deposited in a suitable area away from the trap.  
 2. The volume of sediment storage shall be 1000 cu ft/acre of contributory drainage.  
 3. The structure shall be inspected after each rain and repairs made as needed.  
 4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.  
 5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.  
 6. All cut slopes shall be 1:1 or flatter.

**STORM INLET SEDIMENT TRAP (S/ST) ST III**

NO SCALE



**CONSTRUCTION SPECIFICATIONS**

- MATERIALS:**
1. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
  2. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
  3. Filter cloth must be of a type approved for this purpose, resistant to sunlight with a size, EOL 40-85, to allow sufficient passage of water and removal of sediment.
  4. Stone is to be 2" in size and clean, since fines would clog the cloth.
- PROCEDURE:**
1. Excavate completely around the inlet to a depth of 18" below notch elevation.
  2. Drive 2" x 4" post 1' into ground at four corners of inlet. Place nail strips between posts on end of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (web) must be 6" below edge of roadway adjacent to inlet.
  3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
  4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elevation. Fasten securely to frame. Ends must meet at post, be overlapped and fastened down.
  5. Backfill around inlet in compacted 6" layers until layer of earth is even with the notch elevation on ends and top elevation on sides.
  6. If inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (web).
  7. This structure must be inspected frequently and the filter fabric replaced when clogged.

**SEDIMENT AND EROSION CONTROL NOTES**

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (319-1895).
2. 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 SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
3. 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.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. 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) soil (Sec. 54), temporary seeding (Sec. 52) 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.
6. 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.
7. **SITE ANALYSIS:**  
 Total Area of Site: 2.34 AC  
 Area Disturbed: 0.82 AC  
 Area to be roofed or paved: 0.82 AC  
 Area to be vegetatively stabilized: 2.20 AC  
 Total Cut: 14.50 CY  
 Total Fill: 14.00 CY  
 Offsite Waste/Borrow Area Location: \_\_\_\_\_
8. Any sediment control practice which is disturbed by grading actively for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County DPM Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. All pipes to be blocked at the end of each day (see detail this sheet).
12. The total amount of silt fence = 2445 LF

\* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit numb. at the time of construction.

CONSTRUCTION SEQUENCE:	NO. OF DAYS
1. Install grading permit	7
2. Install sediment and erosion control devices and stabilize.	14
3. Excavate for foundations, rough grade and temporarily stabilize.	30
4. Construct structures, sidewalks and driveways.	60
5. Final grade and stabilize in accordance with Stds. and Specs.	14
6. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

11-23-93

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.**  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: [Signature] DATE: 12-20-93

**APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING**  
 Director: [Signature] DATE: 1/21/94  
 Chief Division of Land Development and Research: [Signature] DATE: 12/1/94

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.**  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director: [Signature] DATE: 12/15/93  
 Chief Bureau of Engineering: [Signature] DATE: 12/15/93

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 Reviewed for HOWARD S.C.D. Name: [Signature] Date: 12/10/93  
 and meets Technical Requirements of the Environmental 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.

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for Sediment and Erosion 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 DATE: 9-27-93

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature] DATE: 12/10/93

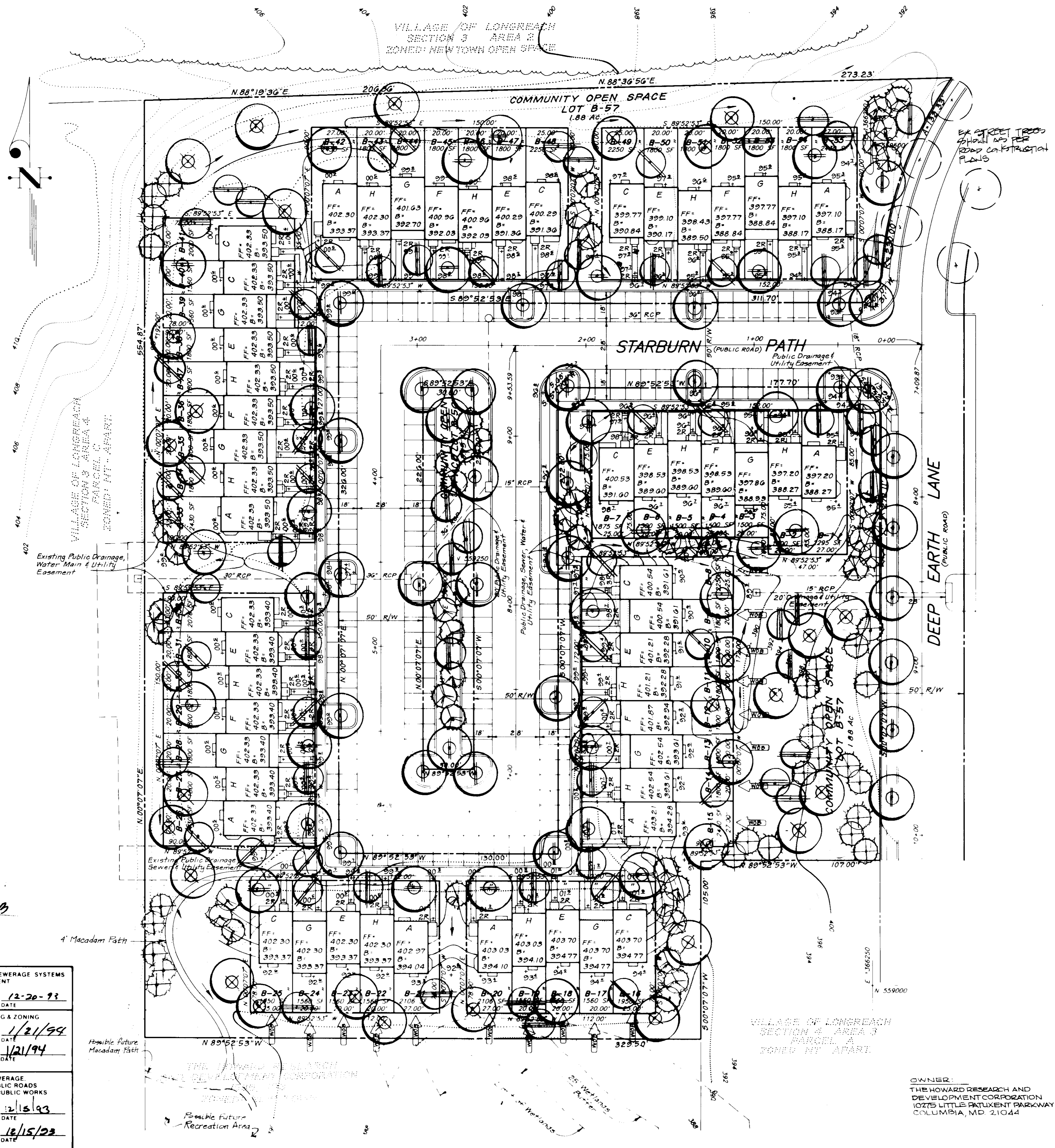
**CLARK • FINEROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 481-7500 • BALTO • (301) 427-8100 • WASH

DESIGNED KIWM	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b> LOTS B-1 THRU B-55 <b>COLUMBIA</b> VILLAGE OF LONGBRACH SECTION 4 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN BAL		DRAWING 4 OF 5
CHECKED KIWM		JOB NO. 93-090
DATE 9-27-93		FILE NO. 93-090SE

FOR: THE RYLAND GROUP, INC. (Columbia Division)  
 7130 Minstrel Way Suite 215  
 Columbia, Maryland 21045

SDP-94-32

VILLAGE OF LONGREACH  
SECTION 3 AREA 2  
ZONED: NEW TOWN OPEN SPACE

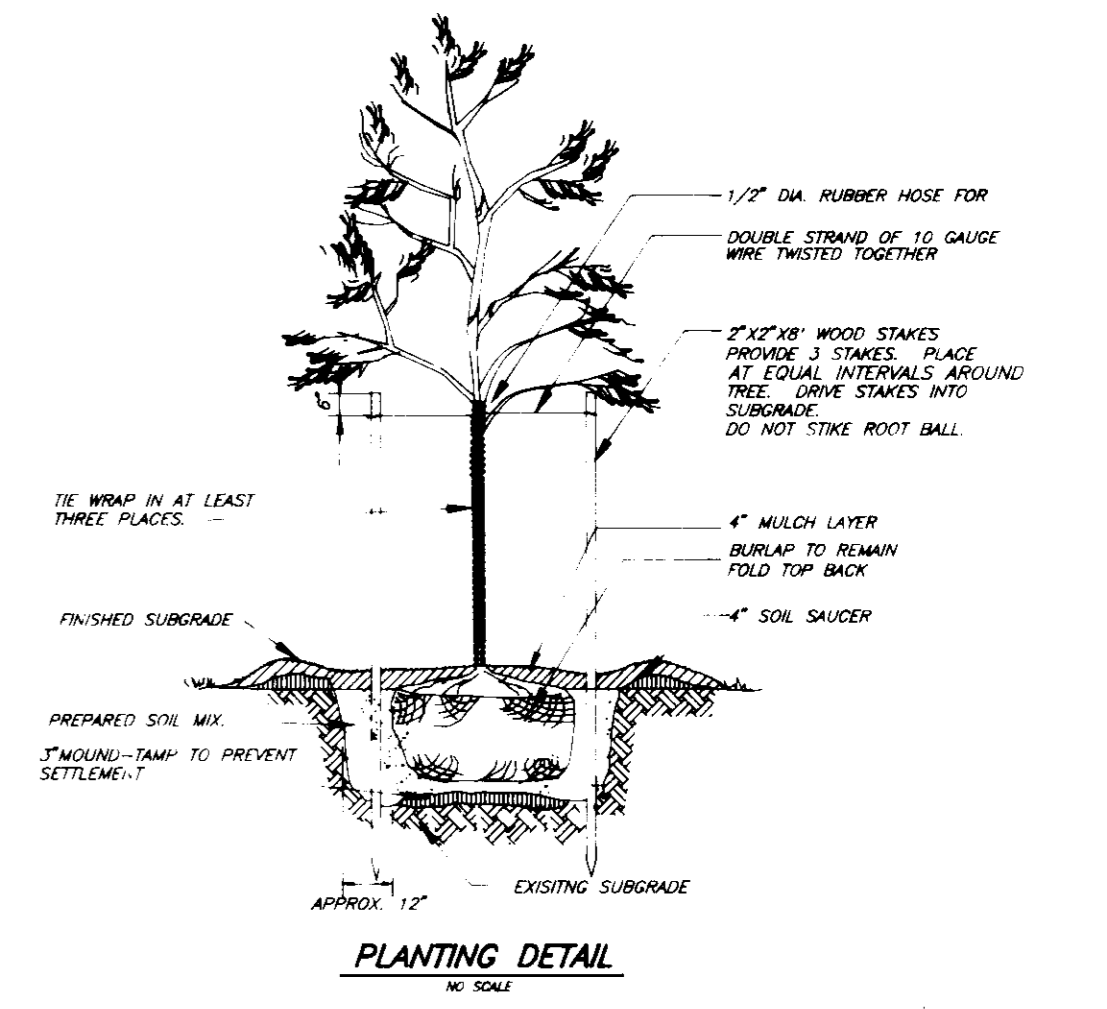


PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QNTY	REMARKS
SHADE TREES				
(Symbol)	Acer rubrum "Red Sunset"	2-1/2" X 3" cal. 12-14' Ht.	38	B & B Heavy Heads
(Symbol)	Red Sunset Maple			
(Symbol)	Gleditsia tri. inermis "Shademaster"	2-1/2" X 3" cal. 12-14' Ht.	25	B & B Heavy Heads
(Symbol)	Shademaster Honeylocust			
(Symbol)	Quercus phellos Willow Oak	2-1/2" X 3" cal. 12-14' Ht.	28	B & B Heavy Heads
FLOWERING/EVERGREEN TREES				
(Symbol)	Cornus kousa Kousa Dogwood	2"- 2 1/2" cal. 8'-10' Ht.	8	B & B Heavy Heads
(Symbol)	Magnolia stellata Star Magnolia	2"- 2 1/2" cal. 8'-10' Ht.	20	B & B Heavy Heads
(Symbol)	Malus zumi calocarpa Zumi Crab	2"- 2 1/2" cal. 8'-10' Ht.	17	B & B Heavy Heads
(Symbol)	Prunus serrulata "Kwanzan" Kwanzan Cherry	2"- 2 1/2" cal. 8'-10' Ht.	29	B & B Heavy Heads
(Symbol)	Tsuga canadensis Canadian Hemlock	6'-8' Ht.	48	B & B Heavy Heads
(Symbol)	Pinus strobus White Pine	6'-8' Ht.	26	B & B Heavy Heads
(Symbol)	Indicates Street Trees from F-93-18			

NOTES

- All planting shall be done in accordance with Columbia, H.R.D. planting specifications.
- Contractor shall verify location of all underground utilities prior to digging.
- Final location of plant material may vary per final field conditions.
- Street trees shown supercede trees shown on approved road construction plans.
- Financial Surety for the proposed 100 landscaping trees, the amount of \$15,000.00 is part of the Builders grading permit application.



DATE: 11-03-93

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

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

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

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE ALTERNATIVE COMPLIANCE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE & THE LANDSCAPE MANUAL.

**CLARK • FINEPROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

LANDSCAPE PLAN  
LOTS B-1 THRU B-55  
COLUMBIA

VILLAGE OF LONG REACH  
SECTION 4 AREA 2  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DESIGNED: MJP  
DRAWN: MJP, LAI  
CHECKED: MJP

SCALE: 1" = 30'  
DRAWING: 5 of 5  
JOB NO: 93-090  
FILE NO: 93-090LS

DATE: 0-22-93 FOR THE RYLAND GROUP, INC  
7120 MINISTEL WAY, SUITE 215  
COLUMBIA, MD 21045



OWNER:  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MD 21044

SDP-94-32