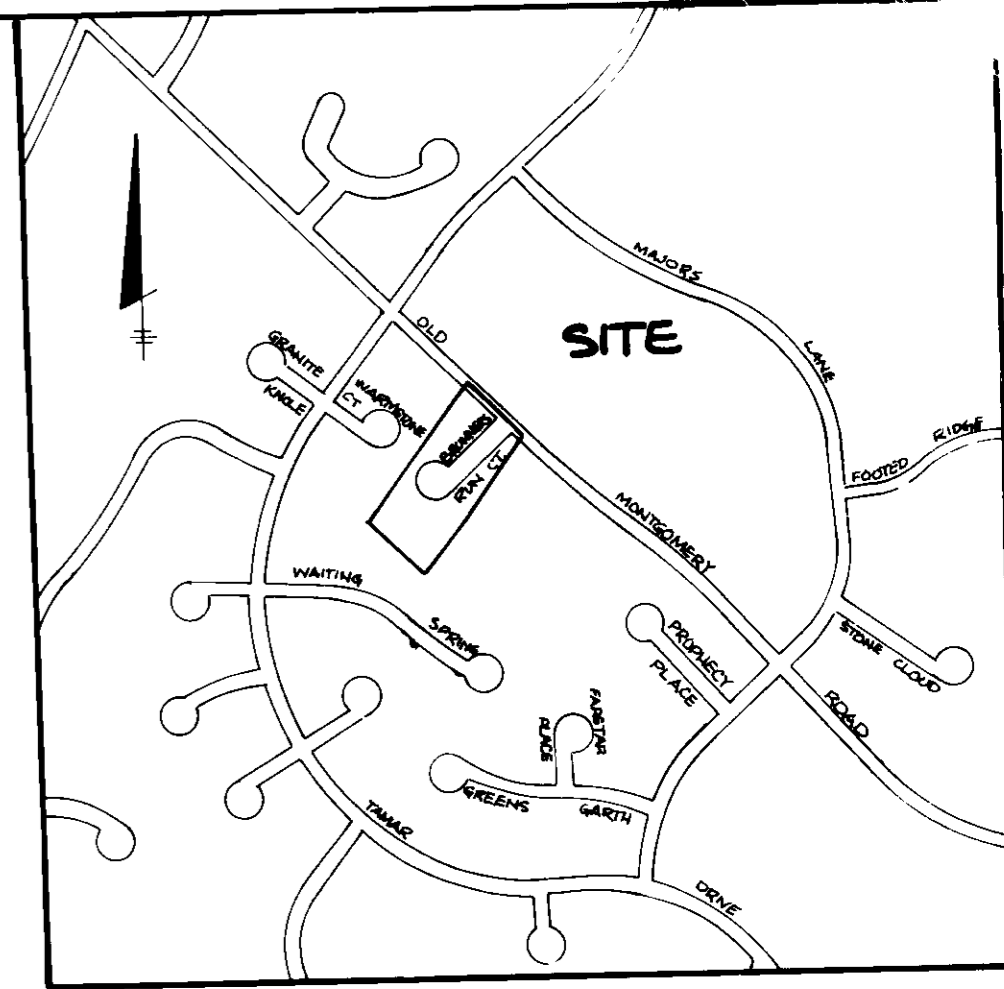


ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
1	9115 OLD MONTGOMERY ROAD
2	9100 BRUNNERS RUN CT
3	9110 " " "
4	OPEN SPACE
5	9120 BRUNNERS RUN CT
6	9125 " " "
7	9117 " " "
8	OPEN SPACE
9	9111 BRUNNERS RUN CT
10	9107 " " "
11	9103 " " "

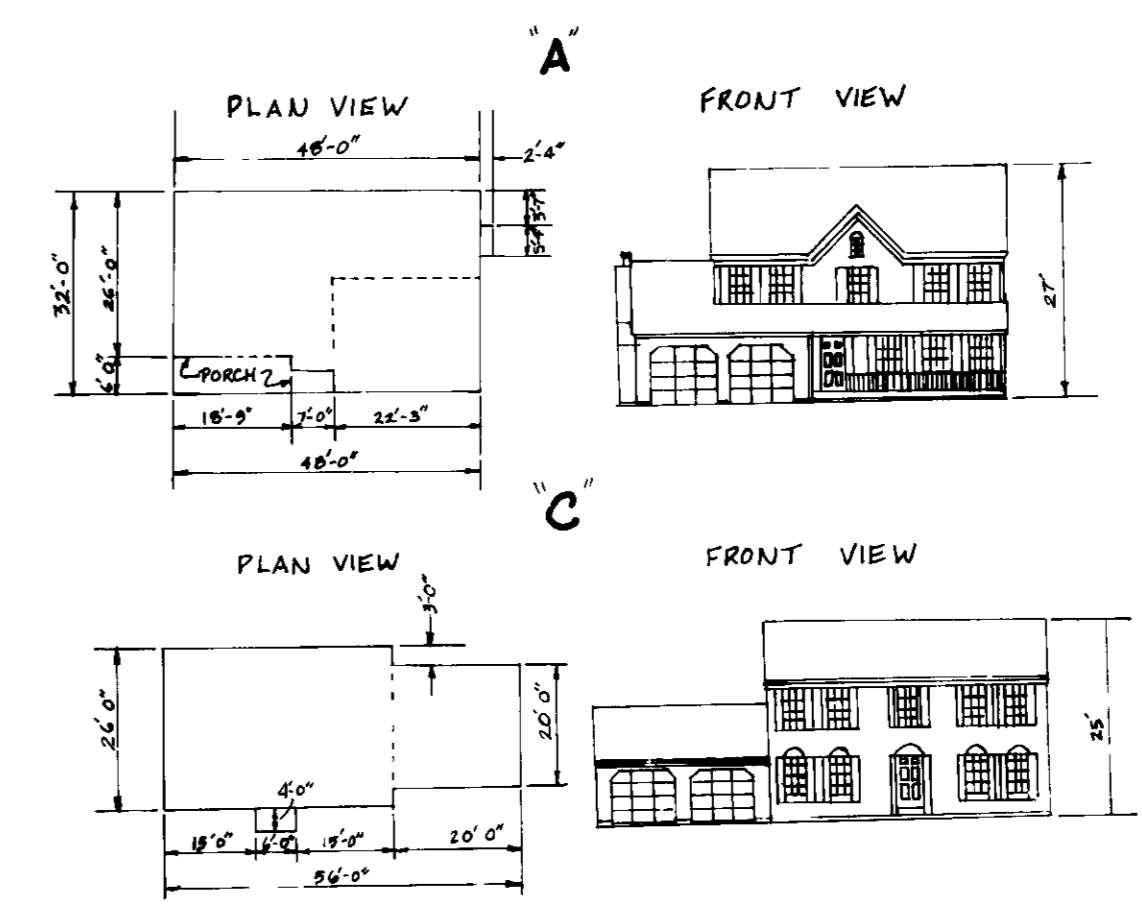


VICINITY MAP  
SCALE 1"=600'

**SITE ANALYSIS**

- TOTAL AREA = 3.006 Ac. 130,706 sq ft
- ZONING - R-12
- PARKING  
REQUIRED - 2 ps/LOT x 2 x 9 = 18 ps  
PROVIDED - 2 x 9 = 18 ps
- AREA OF OPEN SPACE = 0.4027 Ac.  
a) 100 YEAR FLOOD PLAIN = 0  
b) OPEN SPACE REQUIRED = 0.4027 Ac  
c) OPEN SPACE PROVIDED = 0.4027 Ac
- AREA OF LOTS = 1.9838 Ac
- AREA OF ROADS = 0.6141 Ac
- NUMBER OF RESIDENTIAL UNITS THIS PLAN = 9
- PROPERTY ON TAX MAP 36, PARCEL 47
- PARKING SPACES REQUIRED = 2/LOT x 9 RES. LOTS = 18  
PARKING SPACES PROVIDED = 2/GARAGE x 9 GARAGES = 18

**TYPICAL HOUSE TYPES**



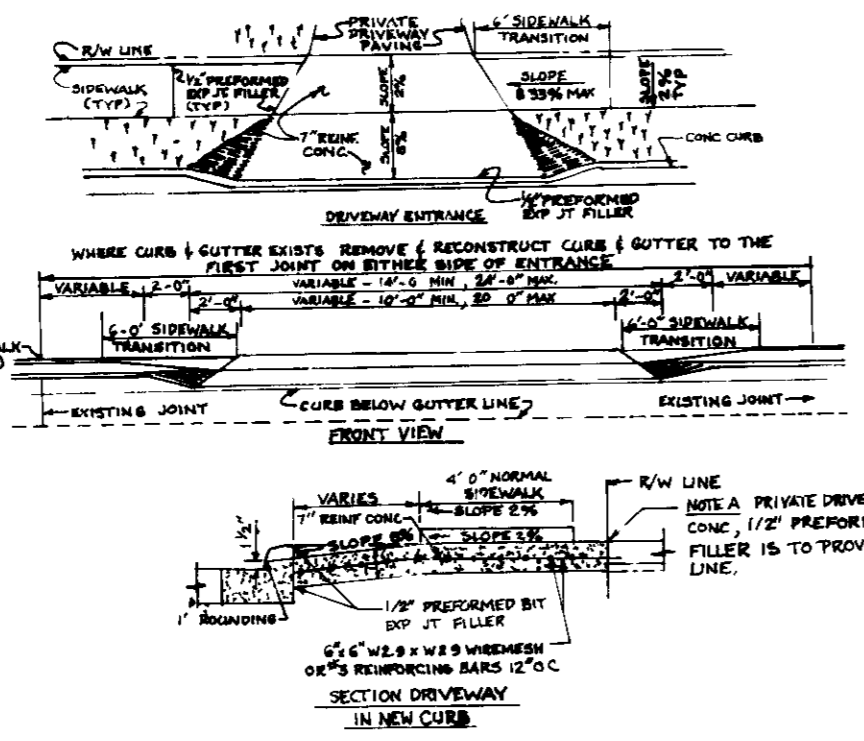
**GENERAL NOTES**

- PROPERTY ON SOILS MAP #20 - PREDOMINANT SOILS R-22, G1B2
- BENCHMARK "A" - 1/4" IRON NAIL IN 2 1/2" MONTGOMERY ROAD @ WEST END OF SITE EL. 410.11  
"B" - IRON PIPE @ SOUTH END OF SITE EL. 397.42
- BASED ON BOUNDARY & TOPOGRAPHIC SURVEY BY SHANABERGER & LANE
- SEE 5-87-98, P. 87-74
- CONSTRUCT 3" HC WITHIN LOT 5 @ 100%
- LEGEND  
EXISTING CONTOURS ----- 404  
PROPOSED CONTOURS [---] 424
- SEDIMENT CONTROL FOR ENTIRE SITE PROVIDED UNDER F-88-B2  
ADDITIONAL SEDIMENT CONTROL TO BE PROVIDED ON AN INDIVIDUAL LOT BASIS IF NEEDED
- TWO PARKING SPACES OF SIZE 9 x 18 EACH FOR ALL LOTS 1-11

**OPEN SPACE CALCULATIONS**

AREA OF LOTS	% OPEN SPACE REQUIRED	OPEN SPACE REQUIRED
0,400# - 0,599#	30%	12,600.00
0,600# - 0,799#	20%	1,920.00
0,800# - 1,199#	10%	1,080.00
12,000# AND OVER	0%	1,920.00
TOTAL OPEN SPACE REQUIRED		17,520.00
OPEN SPACE PROVIDED		17,544.18

**TYPICAL DRIVEWAY ENTRANCE DETAIL**



11-24-87  
LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE 9-12-88  
COUNTY HEALTH OFFICER  
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE 9-23-88  
DIRECTOR  
DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 9-11-88  
DIRECTOR  
CHIEF, BUREAU OF ENGINEERING  
DATE 9-9-88

NO	REVISIONS	DATE

**SHANABERGER & LANE**  
8726 TOWN & COUNTRY BLVD  
SUITE 203  
ELLCOTT CITY, MD 21043  
(301) 461-9563

**DEVELOPER:**  
CSI HOMES  
PO BOX 2036  
COLUMBIA, MD 21045

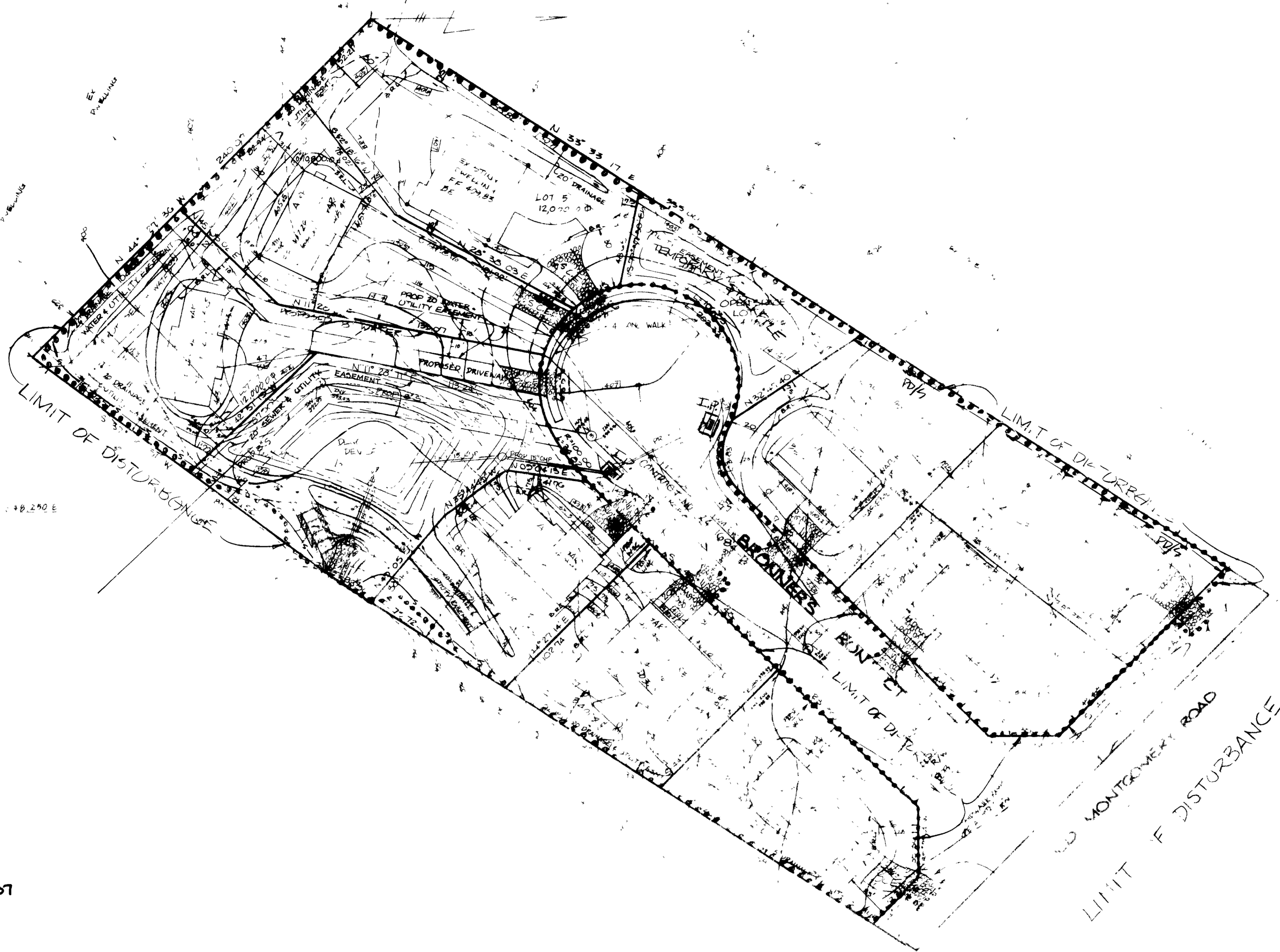
**OWNER:**  
CSI HOMES  
PO BOX 2036  
COLUMBIA, MD 21045

**SUBDIVISION NAME:** BRUNNER'S RUN  
**SECT./AREA:** 1  
**LOT/PARCEL:** 1-11  
**TAX MAP:** 36  
**ZONE:** R-12  
**ELEC. DIST.:** 6  
**SEWER CODE:** 577  
**WATER CODE:** 4  
**SITE DEVELOPMENT PLAN:** BRUNNER'S RUN, LOTS 1-11  
**6" ELECTION DISTRICT:** HOWARD COUNTY, MD  
**TAX MAP 36 PARCEL 47:** 5-87-58, P. 87-74  
**F-88-B2**

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

DATE

**DEVELOPER'S CERTIFICATE**  
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
DATE 9-25-87  
DRAWN SLM, LCL  
CHECKED CFS  
SCALE 1"=30'  
PROJECT NO. 87-01



PLAN

11-24-87  
LKS

Joseph M. Boyd, M.D. for S.C.  
*Urdin*  
 Division of Community Planning and Land Development  
 9-12-88  
 9-22-88  
 9-21-88  
 9/4/88  
 9-9-88

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL. **POND IS NOT APPROVED**  
 James Mottelm 11/4/88  
 U.S. SOIL CONSERVATION SERVICE DATE  
 THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT  
 Robert W. Zickus 9/2/88  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SHANABERGER LANE

DEVELOPER  
 OWNER  
 CSI HOMES  
 P.O. BOX 2036  
 COLUMBIA, MD 21045

8025 11 12  
 E-04  
 6069 02  
 5333700  
 EROSION & SEDIMENT CONTROL PLAN  
 BRUNNERS RUN LOTS 1-5

*Christopher O. Stubbs*  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 CHRISTOPHER O. STUBBS, PRES.

SDP-88-77

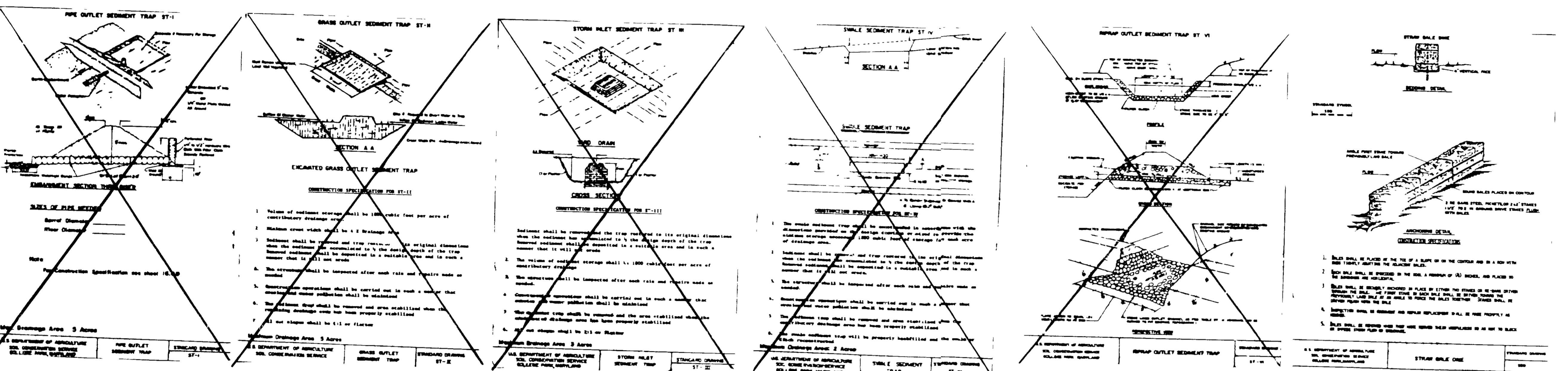
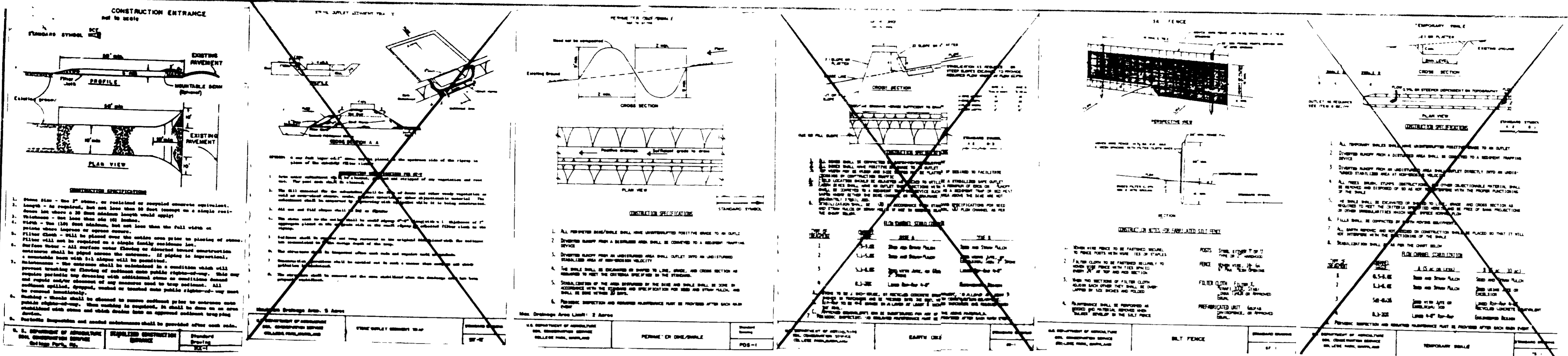
# SEDIMENT CONTROL NOTES

- 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. (992-2437)
- 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 SPECIFICATIONS 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 perimeter in accordance with 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. 31) and (Sec. 34), temporary seedings (Sec. 30) and mulching (Sec. 32.) Temporary stabilization with mulch alone can only be done when recommended seedings 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	2,475 Acres
Area to be roofed or paved	1.14 Acres
Area to be vegetatively stabilized	1,277.5 Acres
Total Cut	0.00 Cu. yds
Total Fill	0.00 Cu. yds
Off-site waste/borrow area location	
- 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 must be provided, if deemed necessary by the Howard County DEW sediment control Inspector.
- 10) On all areas 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) If houses are to be constructed on an "As-Built" basis, at random, single lot sediment control as shown below shall be implemented.
- 12) All pipes to be blocked at the end of each day - see detail below.
- 13) The total amount of straw bale dikes/silt fence equals 175 L.P.

## SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT FOR LOTS IF NOT DONE AT SAME TIME AS ROAD GRADING
2. INSTALL SILT FENCE
3. EXCAVATE FOR FOUNDATIONS & ROUGH GRADE
4. CONSTRUCT STRUCTURES, SIDEWALKS, & DRIVEWAYS
5. FINAL GRADE, STABILIZE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS
6. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, CONVERT BASIN NO. 1 TO SWM POND, AS FOLLOWS:
  - A. PUMP OUT IMPOUNDED WATER
  - B. REMOVE SILT AND DEWATERING DEVICE
  - C. SILT REMOVED FROM POND IS TO BE SPREAD IN EITHER STOCKPILE AREA, DRIED, AND USED TO FILL POND TO FINISHED DIMENSIONS
  - D. GRADE POND TO FINISHED DIMENSIONS AS SHOWN ON SHEET 1 AND AS SHOWN ON SHEET 2 OF 5 OF F-88-82 CUT & DIAM ORIFICE INTO RISER (INV. = 395.65)
  - E. SEED POND AND STOCKPILE AREAS ACCORDING TO PERMANENT SEEDING NOTES
  - F. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES



**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-term vegetation cover is needed.

**Soil Preparation:** Loosen upper three inches of soil by raking, stirring or other acceptable means before seeding; if not previously loosened.

**Soil Amendment:** Apply 600 lbs per acre 20-20-20 fertilizer (24 lbs/1000 sq ft).

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 20 lbs per acre 10-10-10 fertilizer (12 lbs/1000 sq ft) before seeding. For other periods, seed with 20 lbs per acre of seedling fertilizer (12 lbs/1000 sq ft). For the period November 15 thru February 15, provide cover by applying 2 tons per acre 20-20-20 granular fertilizer (24 lbs/1000 sq ft) and seed with 20 lbs per acre of seedling fertilizer (12 lbs/1000 sq ft) or 20 lbs per acre of seedling fertilizer (12 lbs/1000 sq ft) before seeding.

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### CONSULTANT'S CERTIFICATION

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard County Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature: *[Signature]* Md. License No. 102047 Date: 9/28/87

Name: G. J. SHANABERGER

### OWNER/DEVELOPER CERTIFICATION

"I certify that all development and/or construction will be done according to these plans and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Signature: *[Signature]* Date: 9/28/87

Name/Developer (Name and Title): \_\_\_\_\_

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: 9/28/87

HOWARD SOIL CONSERVATION DISTRICT

DESIGNED BY: \_\_\_\_\_

DRAWN BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

DATE: 9-25-87

BY: NO. \_\_\_\_\_

REVISION: \_\_\_\_\_

DATE: \_\_\_\_\_

DEVELOPER:  
 CSI HOMES  
 PO BOX 2036  
 COLUMBIA, MD 21045

OWNER:  
 CSI HOMES  
 PO BOX 2036  
 COLUMBIA, MD 21045

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

Signature: *[Signature]* DATE: 9-12-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Signature: *[Signature]* DATE: 9-23-87

DIRECTOR: *[Signature]* DATE: 9-23-87

DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC UTILITIES

DIRECTOR: *[Signature]* DATE: 9-28-88

CHIEF, BUREAU OF ENGINEERING

GRADING AND SEDIMENT CONTROL NOTES & DETAILS  
 BRUNNERS RUN, LOTS 1-11  
 TAX MAP NO. PARCEL 47  
 SHEET 3 OF 3