

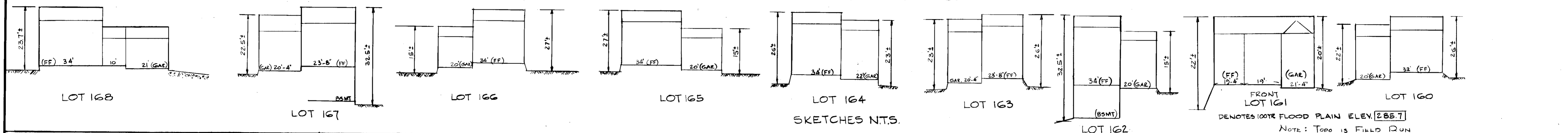
LOCATION MAP  
SCALE: 1" = 800'

REMOVED  
DIVISION OF LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE 7-20-77

NOTE:  
ANY DAMAGE TO COUNTY OWNED RIGHT OF WAY  
AND PAVING SHALL BE CORRECTED AT  
DEVELOPER'S EXPENSE.

SITE GRADING ANALYSIS  
1. TOTAL AREA OF SITE 184 AC±  
2. TOTAL AREA TO BE GRADED 110 AC±  
3. TOTAL AREA PAVED OR ROOFED 0.46 AC±  
4. TOTAL AREA UNDISTURBED 0.74 AC±  
5. NUMBER OF LOTS 7  
6. PRESENT ZONING "SFMD" FOR "IAB" NEW-TOWN  
7. RECORD PLAT RECORDING REFERENCE #3581 & 3582

NOTE:  
DRIVEWAY USE-IN-COMMON  
LOT 161 LIBER. 832 FOLIO 654  
LOTS 161-168 LIBER. 833 FOLIO 354



**DEVELOPER**  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR SEDIMENT AND EROSION CONTROL AND I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*E. C. Jones*  
DEVELOPER  
5/5/77  
DATE

**PROFESSIONAL ENGINEER**  
I CERTIFY THAT THE 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 REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Howard M. Baker* PE 4647  
5/19/77  
DATE

HUDKINS ASSOCIATES  
231 JOSEPH SQUARE  
COLUMBIA, MD 21044

REVIEWED FOR Howard S.C.D.  
AND MEETS TECHNICAL REQUIREMENTS.

*Wendell Bendette*  
7-27-77  
DATE

US SOIL CONSERVATION SERVICE  
7-21-77  
DATE

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

*John D. Mayo*  
7-27-77  
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT.

*Joseph Boycus*  
8-8-77  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*W. C. Crawford*  
8/8/77  
DATE

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

*R. J. Regan*  
8-2-77  
DATE

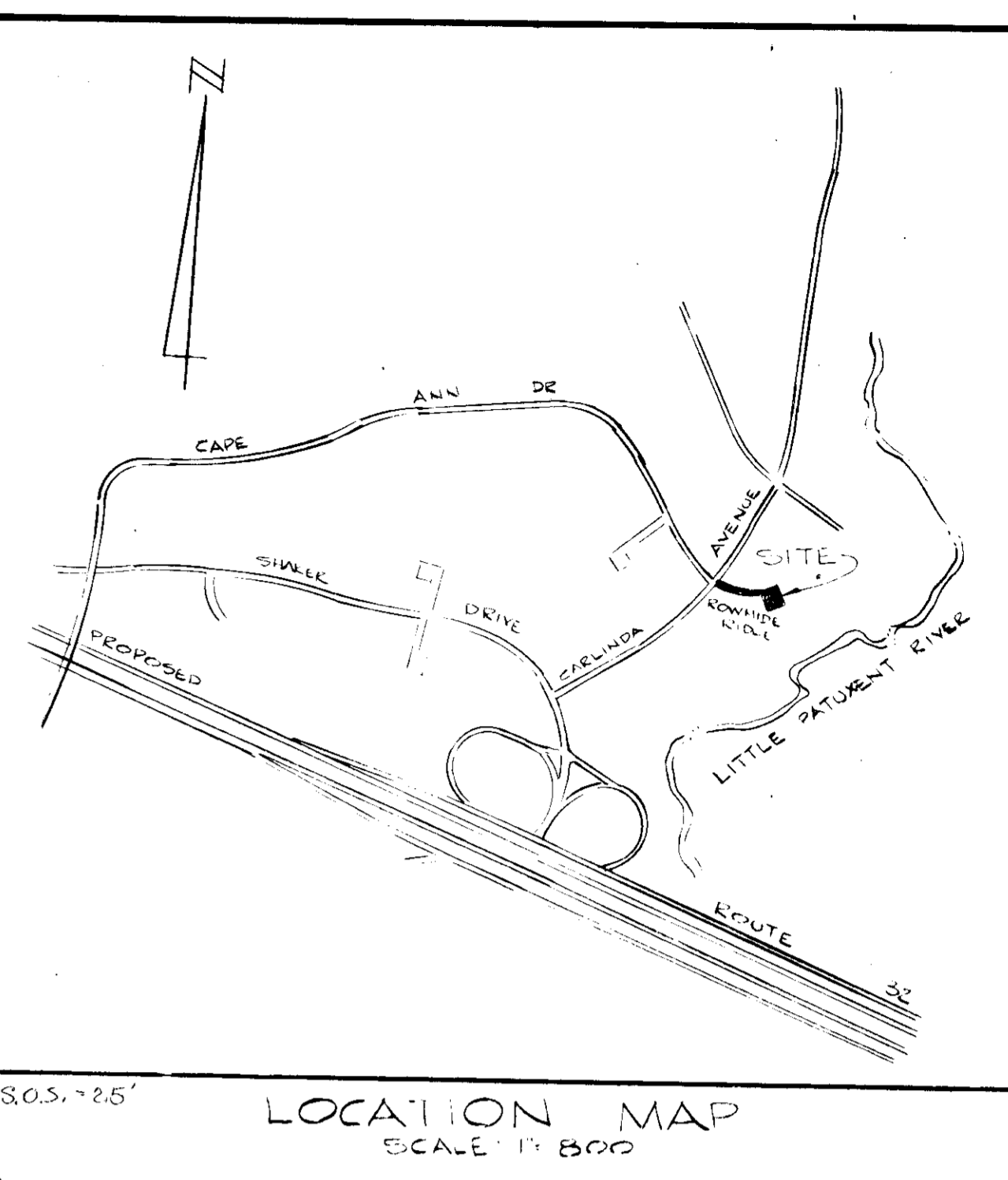
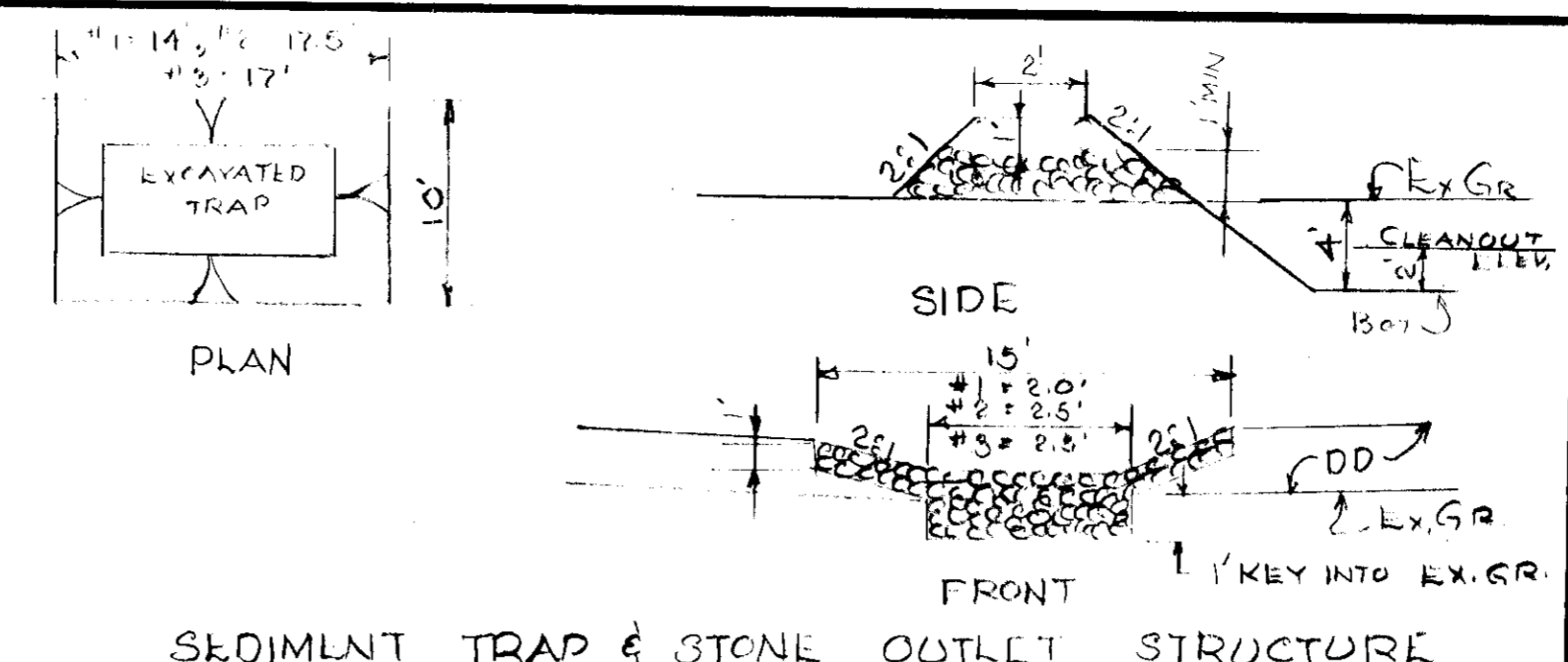
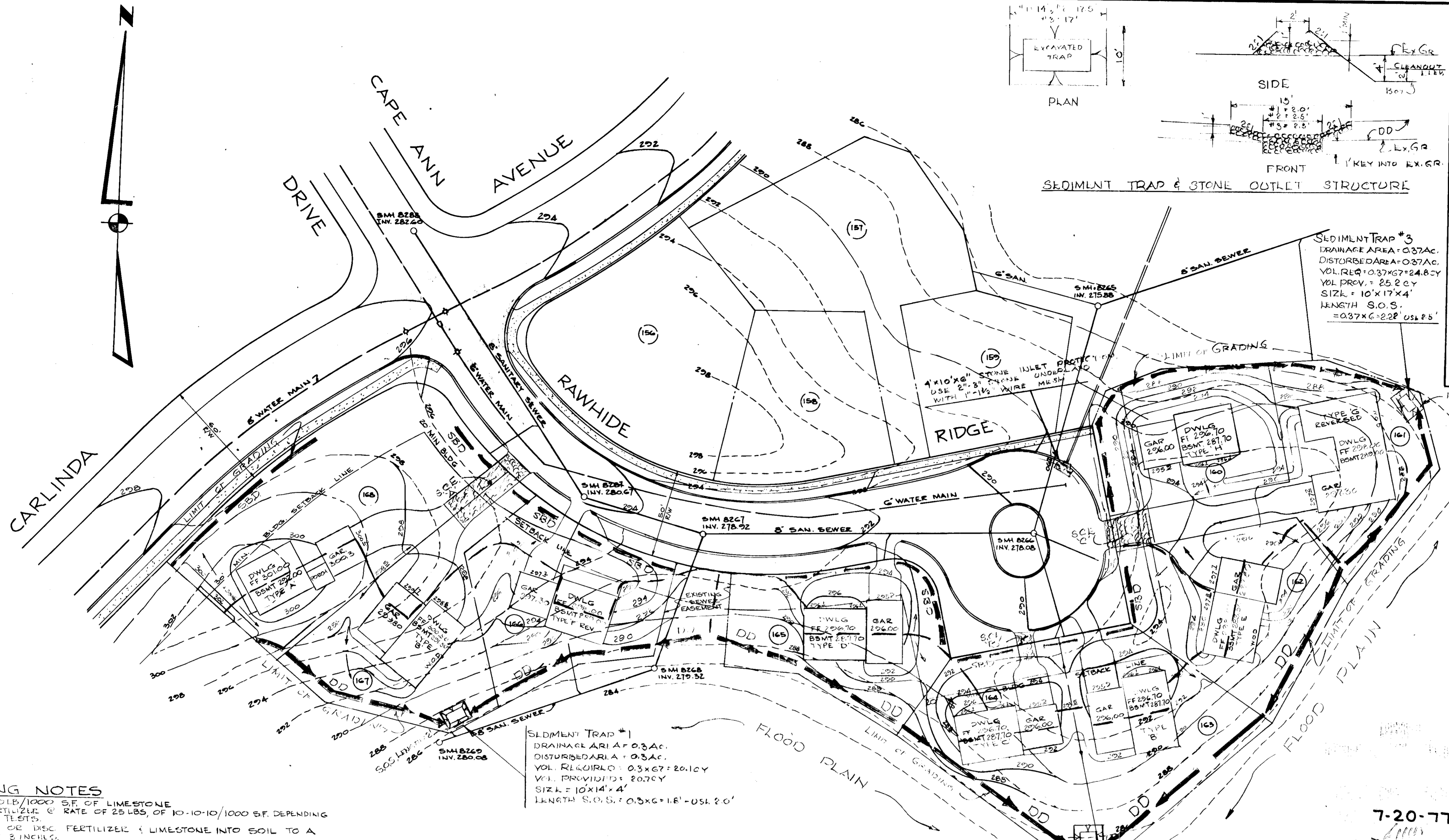
*Lawrence P. McLeod*  
8/2/77  
DATE

**PROPOSED GRADING PLAN**  
LOTS 160 THRU 168

COLUMBIA  
SECTION I AREA I  
VILLAGE OF KINGS CONTRIVANCE

6<sup>TH</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30'  
DATE APRIL 18, 1977

OWNER/DEVELOPER  
ETHAN GROSSMAN ENGINEER INC.  
1800 GAMEWELL ROAD  
SILVER SPRING, MD 20904  
TEL. 421-0494



**SEDIMENT CONTROL NOTES**

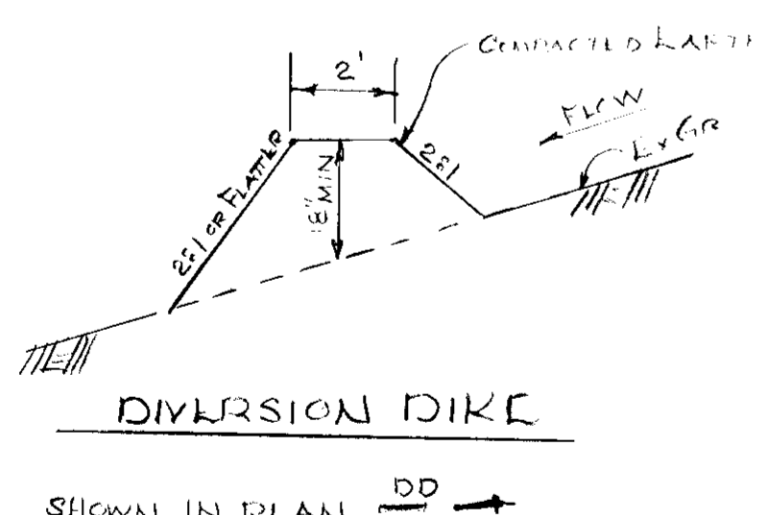
- NOTIFY HOWARD CO. OFFICE OF INSPECTION & PERMITS AT LEAST 24 HOURS BEFORE STARTING ANY WORK. PHONE 425-5000 EXT. 365
  - ALL SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL PERMISSION FOR REMOVAL HAS BEEN OBTAINED FROM THE SEDIMENT CONTROL INSPECTOR.
  - STRUCTURAL MEASURES SUCH AS BERMS, DIKES, TRAPS, BASIN, ETC. WILL BE INSTALLED AND STABILIZED ACCORDING TO THE PLAN, PRIOR TO ANY GRADING, CLEARING OR DISTURBANCE OF EXISTING SURFACE OF THE SITE.
  - ONSITE INSPECTION & MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES INCLUDING CLEANOUT OF SEDIMENT TRAPS & BERMS 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.
- PROCEDURE - PERMANENT SEEDING:**
- APPLY 50 LBS/1000 SF OF LIMESTONE
  - APPLY FERTILIZER @ RATE OF 25 LBS OF 10-10-10 PER 1000 SF DEPENDING ON SOIL TEST.
  - HARROW OR DISC FERTILIZER & LIMESTONE INTO SOIL TO A DEPTH OF 3 INCHES.
  - SEED WITH KY 31 TALL FESCUE @ RATE OF 5 LBS/1000 SF.
  - MULCH WITH SMALL GRAIN STRAW 1.5 TO 2 TONS PER ACRE (15" - 30" / 1000 SF)
  - ANCHOR MULCH W/ SPRAYED ASPHALT @ 0.1 GAL/SQ. YD.
- TEMPORARY SEEDING & SEEDING FOR BERMS:**
- SEED IMMEDIATELY UPON CONSTRUCTION WITH 1 LB RYE GRASS/1000 SF.
  - APPLY 46 LBS/1000 SF OF POLYMERIZED DOLOMITIC LIMESTONE @ 11.5 LBS TO 18.4 LBS/1000 SF OF 10-10-10 FERTILIZER.
  - HARROW OR DISC LIME & FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED HAS BEEN PREPARED ON SLOPING LAND. THE FINAL HARROWING OR DISCING SHOULD BE ON THE CONTOUR.
  - MULCH WITH STRAW @ 15"/1000 SQ. FT.

**SODDING NOTES**

- APPLY 50 LBS/1000 SF OF LIMESTONE
- APPLY FERTILIZER @ RATE OF 25 LBS OF 10-10-10/1000 SF DEPENDING ON SOIL TESTS.
- HARROW OR DISC FERTILIZER & LIMESTONE INTO SOIL TO A DEPTH OF 3 INCHES.
- LAY SOG CAREFULLY, INSURING THAT ALL JOINTS ARE BUTTED TIGHT
- SOG TO BE WATERED IMMEDIATELY AFTER INSTALLATION.
- ROLL SOG IMMEDIATELY AS SECTIONS ARE COMPLETED

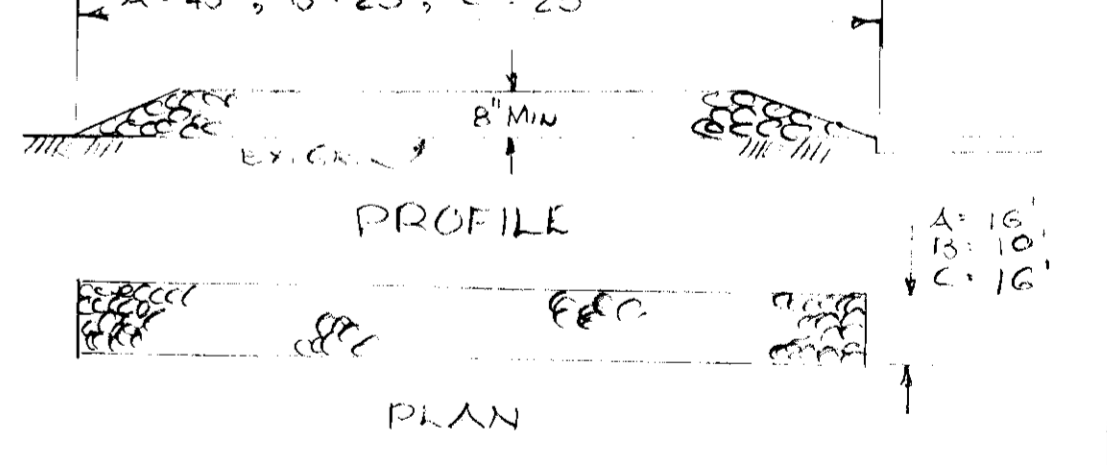
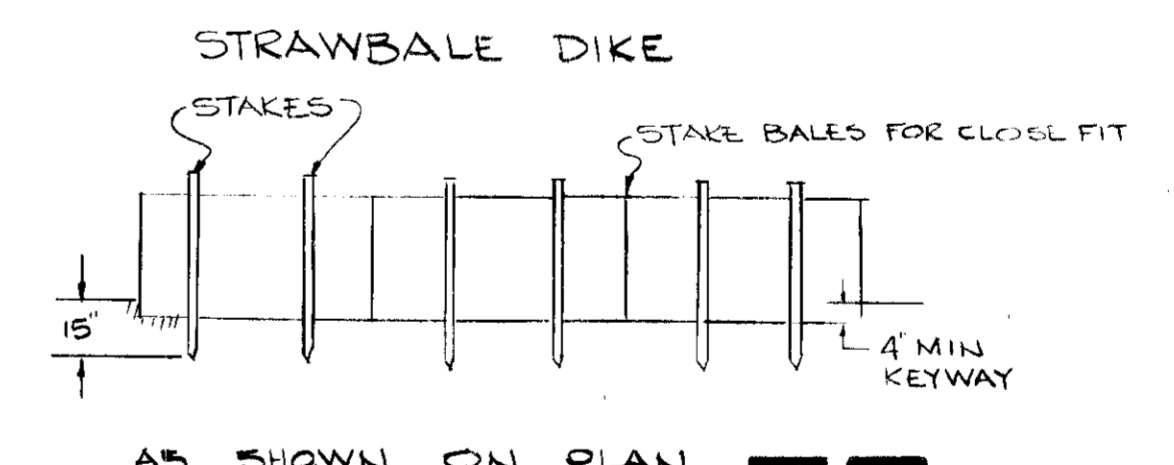
**PHASE OF CONSTRUCTION:**

- OBTAIN CLEANING PERMIT
- INSTALL SEDIMENT CONTROL DEVICES & STABILIZE
- ROUGH GRADE SITE
- PROCEED WITH BUILDING & UTILITY CONSTRUCTION
- REMOVE DEVICES AS REQUIRED
- FINE GRADE SITE
- STABILIZE ACCORDING TO SEEDING NOTES
- REMOVE DEVICES AFTER OBTAINING HOWARD CO APPROVAL



**VEGETATIVE COVER OPTIONS**

- FEB 1 TO MAY 1
1. SOG
  2. SEED & MULCH
- MAY 1 TO AUG 15
1. SOG
  2. MULCH ANCHOR TOOL THEN SEED DURING NEXT PERIOD.
- AUG 15 TO NOV 1
1. SOG
  2. SEED & MULCH
- NOV. 1 TO FEB. 1
1. SOG - DELAY UNTIL NEXT PERIOD IF GROUND IS FROZEN
  2. MULCH ANCHOR TOOL THEN SEED DURING NEXT SEED PERIOD.



NOTE: ALL ACCESS TO LOTS DURING CONSTRUCTION SHALL BE ONLY THROUGH 3 STONE CONSTRUCTION ENTRANCES. SHOWN IN PLAN

**DEVELOPER**  
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*Ethan Grossman*  
5/5/77  
DATE

**PROFESSIONAL ENGINEER**  
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*Howard M. Kelly* PE 4647  
5/19/77  
DATE

HUDKINS ASSOCIATES  
281 JOSEPH SQUARE  
COLUMBIA, MD 21044

REVIEWED FOR Howard SCD  
AND MEETS TECHNICAL REQUIREMENTS

*Wendell Smith*  
7-27-77  
DATE

US SOIL CONSERVATION SERVICE

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

*John D. Wilson*  
7-27-77  
DATE

HOWARD SCD

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

*Regina Jordan*  
8-8-77  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
PLANNING DIRECTOR

*J.N. Crowl, P.E.*  
8/1/77  
DATE

CHIEF DIVISION OF LAND DEVELOPMENT

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

*Pat Bagnall*  
8-2-77  
DATE

*David N. McLeod*  
8/2/77  
DATE

CHIEF BUREAU OF HIGHWAYS

**PROPOSED SEDIMENT CONTROL PLAN**  
LOTS 160 THRU 168  
COLUMBIA SECTION I AREA I  
VILLAGE OF KINGS CONTRIVANCE  
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30'  
DATE: APRIL 18, 1977

OWNER/DEVELOPER  
ETHAN GROSSMAN ENGINEER INC.  
1800 GAMEWELL ROAD  
SILVER SPRING, MD 20904  
TEL. 421-0424