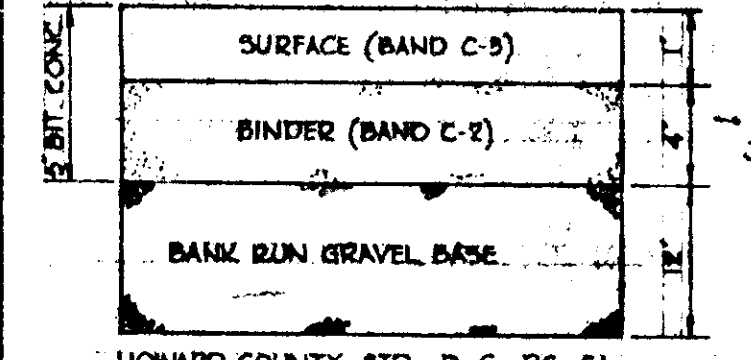


STANDARD 7" COMBINATION CURBS AND GUTTERS
No Scale

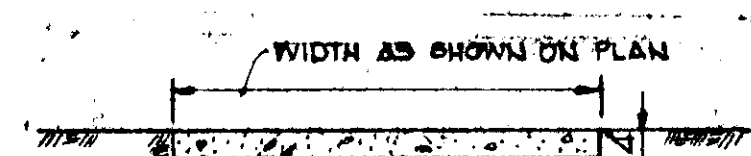


HOWARD COUNTY STD. D-C, PG. C1

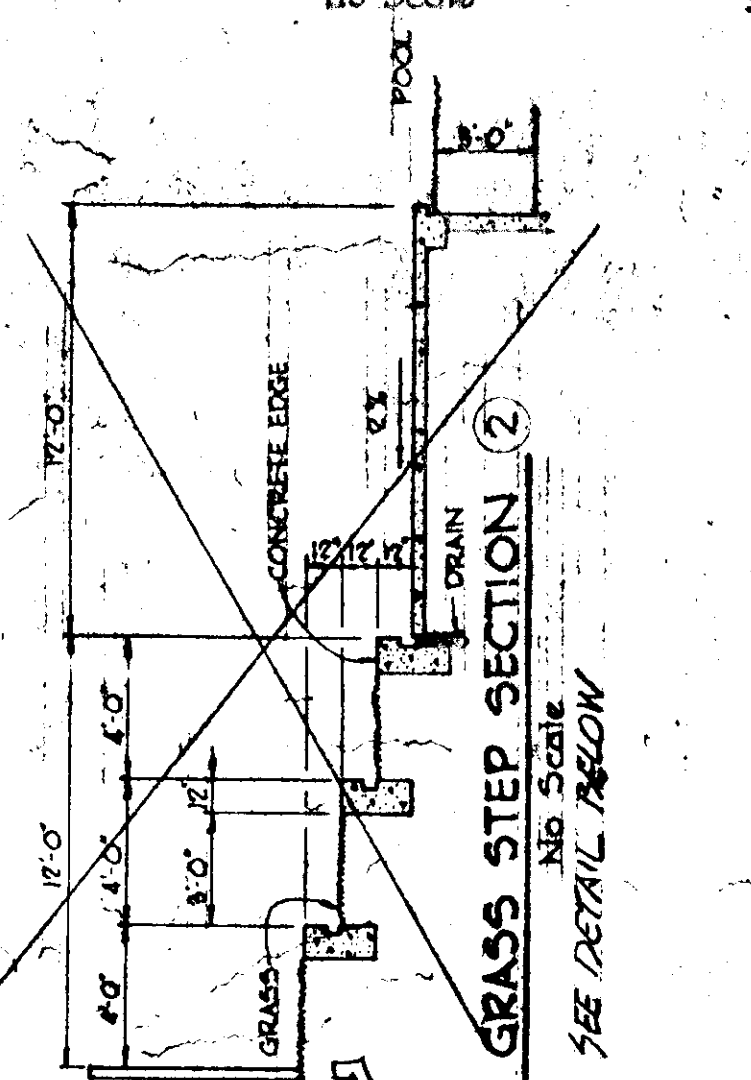
ITEM	SEC.
CLEARING AND GRADING	C-1
SUBGRADE	C-2
BASE COURSE	C-3
BINDER COURSE	C-2B OR B3
SURFACE COURSE	C-31

NOTES:
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31.4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30.3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.

17" PAVING SECTION
No Scale



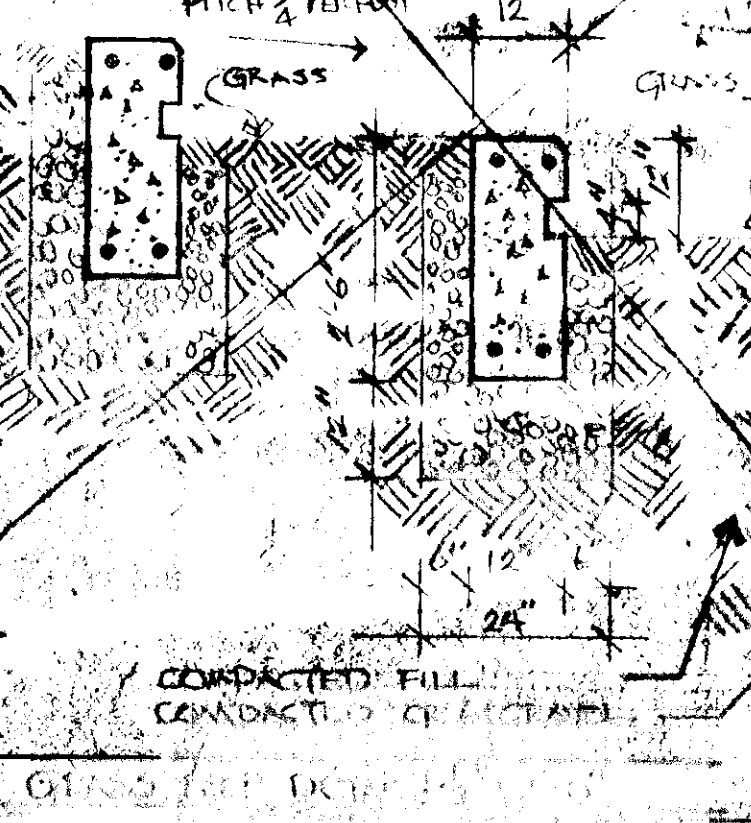
CLASS 'A' CONCRETE
SIDEWALK DETAIL
No Scale



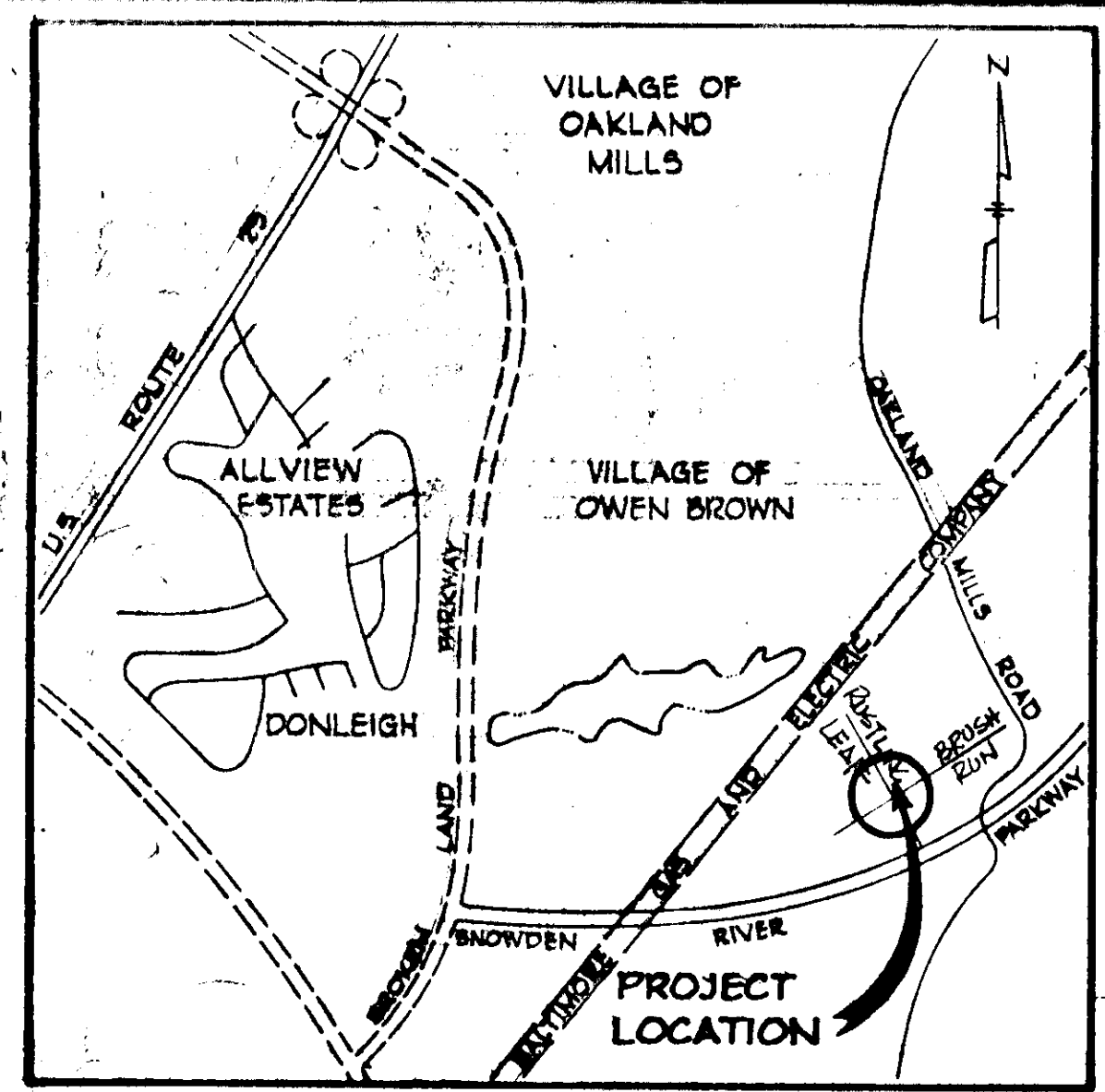
GRASS STEP SECTION
SEE DETAIL ABOVE

6'-0" HEIGHT OF FENCE TYPICAL OF ALL FENCE FROM PROPOSED GRADE. FENCE MATERIAL CHAIN LINK OR OTHER AS BARRIER

ORNT GRASS STEP DETAILS



RIP RAP CHANNEL @ CURB OPENING
No Scale



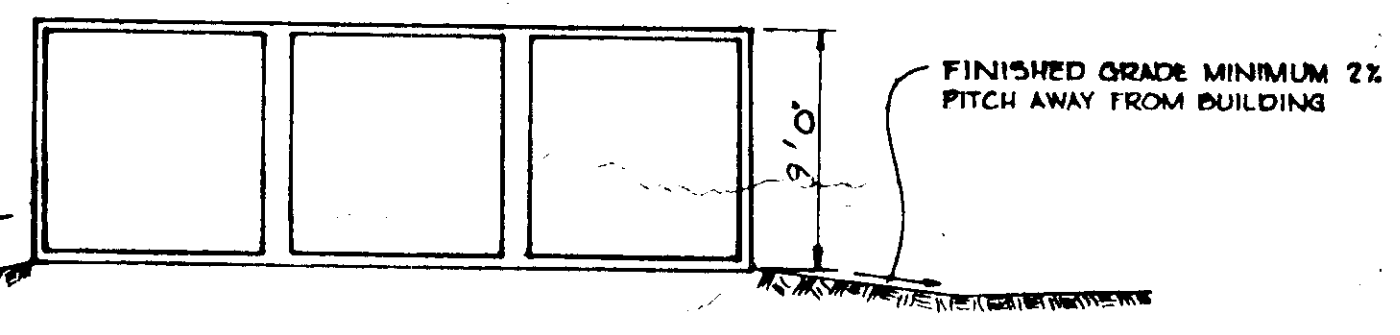
VICINITY MAP
Scale: 1" = 5,000'

GENERAL NOTES

- ALL WATER AND SEWER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM OF 3'-0" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE INDICATED BY THE ENGINEER, A MINIMUM OF FIVE DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS PRIOR TO STARTING THE WORK SHOWN ON THESE DRAWINGS:
BELL TELEPHONE SYSTEM 393-3649
LONG DISTANCE CABLE DIVISION 393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO. 539-8000 Ext. 691
- SEE SHEET 2 OF 2 FOR SEDIMENT CONTROL DETAILS.
- RUSTLING LEAF AND BRUSH RUN ARE EXISTING PUBLIC ROADS

SITE ANALYSIS

TOTAL AREA OF PARCEL:	1.545 ACRES
PRESENT ZONING:	NEW TOWN FDP PB 20, F40
INTENDED USE OF SITE:	RECREATIONAL FACILITY - SWIMMING POOL
TOTAL DAILY USERS:	240 PERSONS
TOTAL BUILDING COVERAGE:	940 SQ. FT.



ELEVATION - BATHHOUSE BUILDING
No Scale

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY"

De W. Powell 4/24/78
DEVELOPER

"I 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 CONSERVATION DISTRICT"

Robert H. Hahn 3/24/78
ARCHT. 01; 2838-A
DATE

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

Joseph B. Bowers 5/18/78
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas A. Amigo 5/22/78
PLANNING DIRECTOR
DATE

James W. Hulse 5/22/78
CHIEF, DIV. OF LAND DEVELOPMENT
DATE

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

Richard E. Breuler 5/15/78
DIRECTOR
DATE

Robert H. Hahn 5-15-78
CHIEF, BUREAU OF ENGINEERING
DATE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 4-12-78

CROZIER ARCHITECTS
LANDSCAPE ARCHITECTS
VILLAGE OF OWEN BROWN
SUITE 400 EAST GARDEN ST.
BALTIMORE, MARYLAND 21201

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 4-12-78

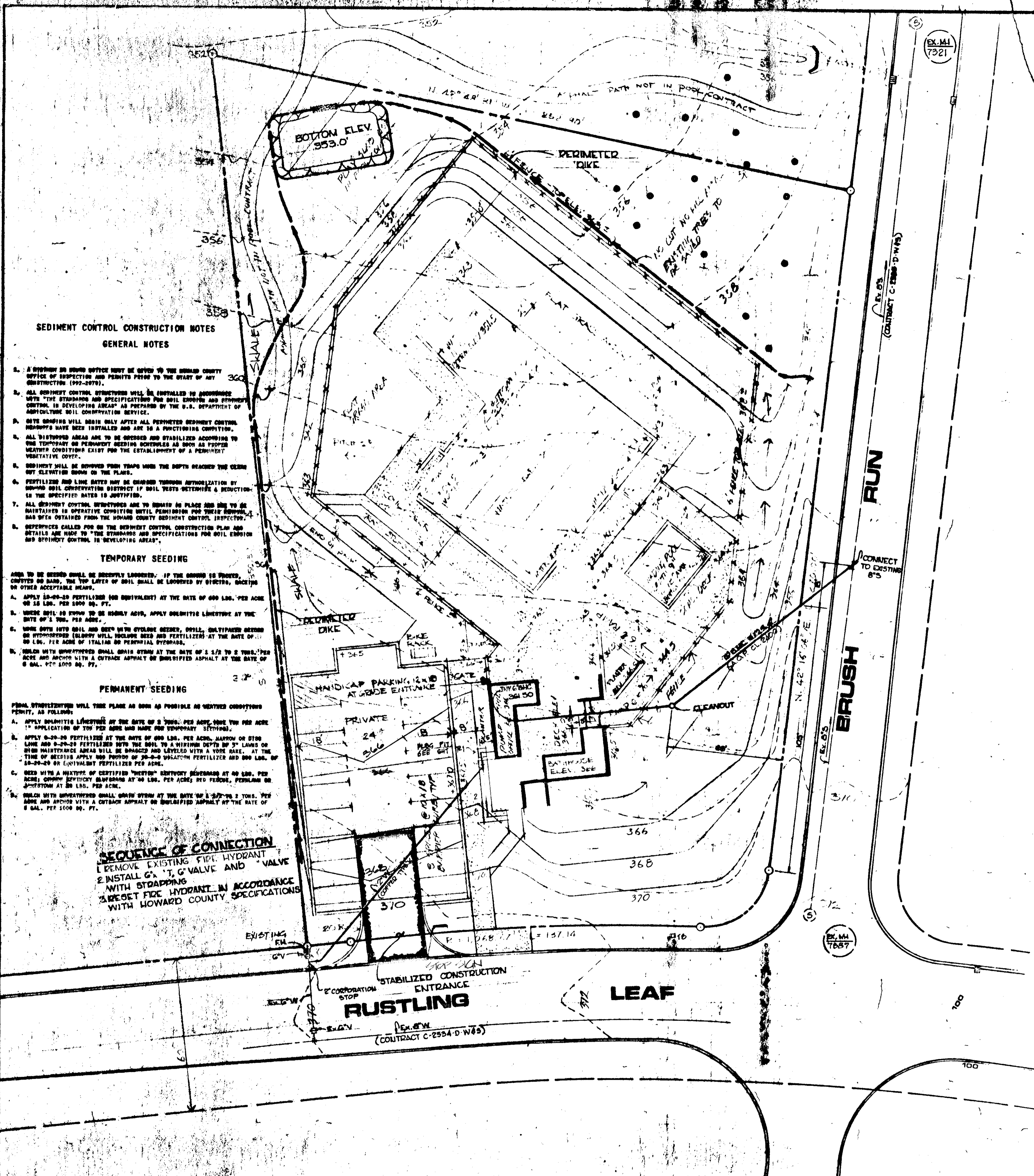
REGISTERED PROFESSIONAL ENGINEER
NO. 1088 A
Robert H. Hahn
4-24-78

COLUMBIA
VILLAGE OF OWEN BROWN
Lot 337

SECTION 2, AREA 3
LOT 337

PLAT NUMBER 8052
Tax Map No. 42
ELECTION DISTRICT GUILFORD 106
HOWARD COUNTY, MARYLAND

SDP-78-88c



SEDIMENT CONTROL CONSTRUCTION NOTES
GENERAL NOTES

- A PERMIT TO EXCAVE MUST BE OBTAINED FROM THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (1992-2078).
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED TO ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SOIL EROSION CONTROL STRUCTURES ARE TO BE INSTALLED IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMANENT SOIL EROSION CONTROL IS DEVELOPED AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- ALL DISTURBED AREAS ARE TO BE RESEED AND STABILIZED ACCORDING TO THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SEDIMENT SHALL BE REMOVED FROM TRAPS WHEN THE DRAINAGE REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- FERTILIZER AND LIMING SHALL BE APPLIED THROUGH AUTHORIZATION BY THE HOWARD COUNTY OFFICE OF PLANNING AND ZONING. THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS IS APPLICABLE.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO BE MAINTAINED IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMANENT SOIL EROSION CONTROL IS DEVELOPED AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- REFERENCES CALLED FOR IN THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

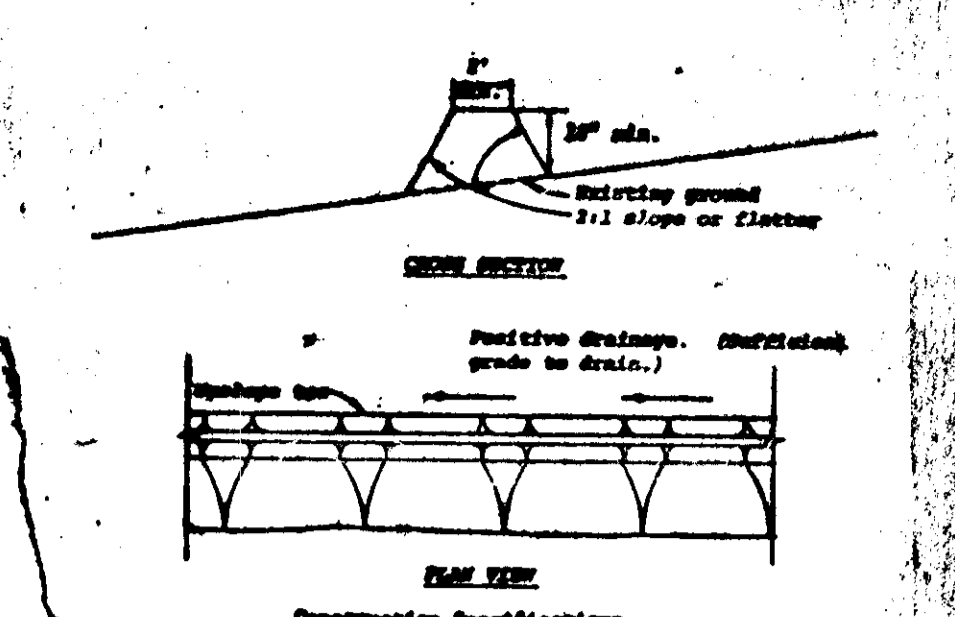
TEMPORARY SEEDING

- AREA TO BE SEED SHALL BE SOONEST LAID, IF THE GROUND IS STONY, COVERED OR SANDY, THE TOP LAYER OF SOIL SHALL BE LOOSEND BY DIGGING OR OTHER ACCEPTABLE MEANS.
- APPLY 10-20-20 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 10 LBS. PER 1000 SQ. FT.
 - SEED SHALL BE SOWN TO BE SOWNLY SEED, APPLY SODIUM SULFATE LIME AT THE RATE OF 1 TON. PER ACRE.
 - SOIL TO BE SOWN SHALL BE WITH CYCLOPS GRASS, ORILL, MULTIFLORA SEEDS OR HYPOCHOERIS (LAWN) WILL INCLUDE SEED AND FERTILIZER AT THE RATE OF 10 LBS. PER ACRE OF ITALIAN RYE GRASS PERMANENT.
 - SEED WITH HYPOCHOERIS SHALL SOWN AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CRACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 1 GAL. PER 1000 SQ. FT.

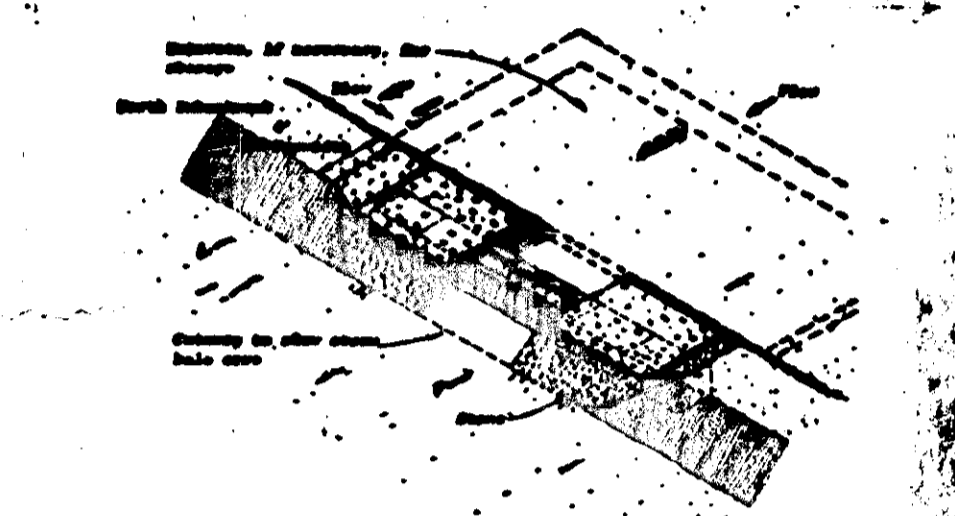
PERMANENT SEEDING

- PERMANENT SEEDING WILL TAKE PLACE AS SOON AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
- APPLY SODIUM SULFATE LIME AT THE RATE OF 1 TON. PER ACRE PER 1000 SQ. FT. APPLICATION OF TOP PER ACRE AND MADE FOR TEMPORARY SEEDING.
 - APPLY 10-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE, HAYSTACK OR STON LIME AND 10-20-20 FERTILIZER TO THE SOIL TO A DEPTH OF 10 TO 12 INCHES ON MAINTENANCE AREAS WILL BE BRANDED AND LAYED WITH A VISE DATE. AT THE TIME OF SEEDING APPLY 100 POUNDS OF 10-20-20 WATER SOLUBLE FERTILIZER AND 100 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
 - SEED WITH A MIXTURE OF CERTIFIED HYPERION SEEDS AT 40 LBS. PER ACRE; COMMON SPITCHICK BARRINGTON AT 40 LBS. PER ACRE; RED FESCUE, PERMANENT OR SPITCHICK AT 10 LBS. PER ACRE.
 - SEED WITH HYPOCHOERIS SHALL SOWN AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CRACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 1 GAL. PER 1000 SQ. FT.

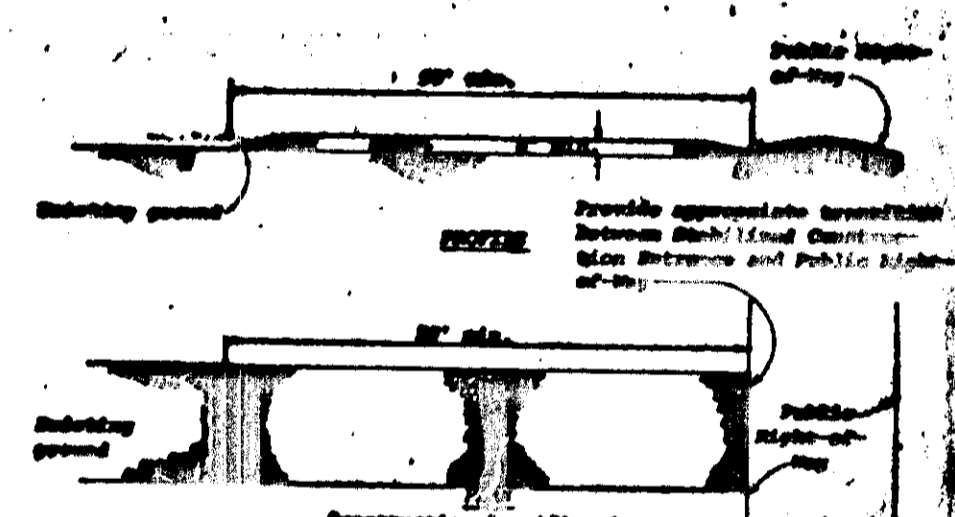
SEQUENCE OF CONNECTION
REMOVE EXISTING FIRE HYDRANT
INSTALL G.I. VALVE AND
WITH STRAPPING
RESET FIRE HYDRANT IN ACCORDANCE
WITH HOWARD COUNTY SPECIFICATIONS



- PERIMETER DIKE**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - Retained runoff from a protected or stabilized upland area shall be carried directly into an undisturbed stabilized area or into a gravel spreader or grade stabilization structure.
 - Retained runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or sediment basin or to an area protected by any of these practices.
 - Disturbance, when required, shall be done in accordance with Standards and Specifications for Grading Operations. The minimum area to be stabilized shall be the channel flow area.
 - Periodic inspection and required maintenance shall be provided.
- Standard Symbol: [Symbol]
- * Drainage area less than 5 acres



- STONE OUTLET**
- Stone outlet shall be machine compacted and covered with a gravel spreader or grade stabilization structure.
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- SEDIMENT TRAP**
- Stone outlet - One 18" dia. or 2 (2-1/2" to 1") or ASTM No. 20 (1/2" to 1-1/2"). See standard stone.
 - Length - As effective, but not less than 20 feet.
 - Thickness - Not less than 12" (12" to 18").
 - Width - Not less than full width of all pipes or drains.
 - Banking - When necessary, banks shall be sloped to prevent runoff prior to entrance into public right-of-way. When banking is required, it shall be done on an area stabilized with crushed stone which drains to an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 - Maintenance - The entrance of sediment into public right-of-way shall be prevented by periodic top dressing with additional stone as conditions demand and repair and/or placement of any necessary sand to trap sediment. All sediment spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.
- Standard Symbol: [Symbol]

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 4-12-78

THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: *Wes EARP* 4-28-78
Howard S.C.D. Date

THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

C. Wayne Ray 4-28-78
U.S. Soil Conservation Service Date

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY"

De A. Revell 4/24/78
DEVELOPER DATE

"I 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 CONSERVATION DISTRICT"

Robert J. Alton 4/24/78
ARCHITECT. 2858-A DATE

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

Joyful Brooks 5-18-78
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas L. Kamin 5-22-78
DATE

John W. Muckerman 5-22-78
CHIEF, DIV. OF LAND DEVELOPMENT DATE

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

Richard E. Sredanberg 5/15/78
DIRECTOR DATE

W. L. Hark 5-15-78
CHIEF, BUREAU OF ENGINEERING DATE

SEDIMENT CONTROL STONE OUTLET DATA:

DRAINAGE AREA	1.28 AC.
DISTURBED AREA	1.28 AC.
VOLUME (C.Y.):	86
REQUIRED:	86
AVAILABLE:	86
CLEANOUT ELEVATION	364.0
DEPTH TO CREST	2.0'
BOTTOM DIMENSIONS	25'x46'

- SEQUENCE OF CONSTRUCTION:**
- OBTAIN GRADING PERMIT.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE
 - INSTALL STONE OUTLET SEDIMENT TRAP AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
 - INSTALL PERIMETER AND DIVERSION DIKES AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
 - INSTALL EXCAVATED TRAP.

CROZIER ASSOCIATES
LANDSCAPE ARCHITECTS/PLANNERS
VILLAGE OF CROSS KEYS
SUITE 408 EAST QUADRANGLE,
BALTIMORE, MARYLAND 21210
301-383-8818

ROBERT J. ALTON
ARCHITECT

Robert J. Alton 4-24-78

COLUMBIA
VILLAGE OF OWEN BROWN
Lot 337

SECTION 2, AREA 3
LOT 337

PLAT NUMBER 8052
Tax Map No. 42
ELECTION DISTRICT GUILFORD NO. 8
HOWARD COUNTY, MARYLAND

SDP-78-88

HOPEWELL NEIGHBORHOOD CENTER SWIMMING POOL FACILITY
COLUMBIA ASSOCIATION COLUMBIA, MD.

CROZIER ASSOCIATES
LANDSCAPE ARCHITECTS/PLANNERS
VILLAGE OF CROSS KEYS
SUITE 408 EAST QUADRANGLE,
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