

SHEET INDEX

SHEET NO.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	STORM WATER MANAGEMENT
3	SEDIMENT AND EROSION CONTROL PLAN
4	TOPOGRAPHIC SURVEY

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *[Signature]* DATE 10/9/75

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR *[Signature]* DATE 10-10-75

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 DATE *[Signature]*

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *[Signature]* DATE 10-8-75

CHIEF BUREAU OF HIGHWAYS
 DATE 10/7/75

REVIEWED FOR HOWARD S.C.D. (NAME)
 AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE *[Signature]* DATE 10/1/75
 US SOIL CONSERVATION SERVICE

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

APPROVED: *[Signature]* DATE 10/1/75
 HOWARD S.C.D.

ROSENFELD / HARVEY / MORSE - ARCHITECTS
 350 MADISON AVENUE
 NEW YORK N.Y. 10017
 TEL: (212) 687-9310

KRAVCHENKO & ASSOCIATES
 CONSULTING ENGINEERS
 8 TERESA LANE
 EAST NORTHPORT, NEW YORK 11731
 TEL: (516) 368-6180

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 9-3-75

[Signature]
 NICHOLAS KRAVCHENKO
 MARYLAND REG. NO. 9408

6/30/1975
 DATE

SITE DEVELOPMENT PLAN
 ROUTE ONE HUNDRED BUSINESS PARK
 BLOCK "D" PARCEL "B-1"
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1"=40' JUNE 1975

OWNER - DEVELOPER
 HARWOOD DEVELOPMENT CO., INC.
 C/O WILBUR E. SIMMONS
 2 HOPKINS PLAZA
 BALTIMORE, MARYLAND 21201

LEGEND:

	EXISTING	PROPOSED
CONTOURS	(180)	180
SEWER - SANITARY	S	S
WATER	W	W
TELEPHONE	T	T
POWER LINE	P	P
DRAINAGE	D	D
MANHOLES	O	O
INLETS	I	I

- NOTES:**
- ALL STORM WATER, INLETS AND MANHOLES TO BE STANDARD HOWARD CO. DESIGN. FOR INLETS TYPE 1, 2 & 3 SEE DETAILS ON STORM WATER MANAGEMENT SHEET NO. 2. FOR EXISTING ON-SITE/OFF-SITE DRAINAGE DEVICES AND AREA COMPUTATION, DRAINAGE AREA MAP, STORM DRAINAGE DESIGN, PLAN AND PROFILES, SEE APPROVED PLAN BY CHIEF BUREAU OF PUBLIC WORKS DATED 5-7-1973, SHEET 1 THRU 9, HOWARD CO. FILE NO. F-73-53
 - SEE APPROVED ON-SITE EROSION CONTROL PLAN NO. SE-1 FOR ROUTE ONE HUNDRED BUSINESS PARK, APPROVED FEB 22 1972 BY HOWARD S.C.D.
 - PAVEMENT - BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 MCRC. TACK COAT SHALL BE PROVIDED IN ACCORDANCE WITH SECTION C-31-4 OF MCRC. PAVEMENT SECTION "A" - ENTRANCE DRIVEWAY AND TRUCK DOCK AREA.
 - FOR SEQUENCE OF CONSTRUCTION - SEE SEDIMENT AND EROSION CONTROL PLAN.
 - ANY INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - LATEST EDITION.
 - ALL CURBS TO BE 7" CONC. CURB AS PER MCRC STANDARDS.
 - THE CONTRACTOR IS RESPONSIBLE FOR CHECK AND VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND DESIGN DATA.
 - STOPPING SIGHT DISTANCES AT EACH ENTRANCES - ASSUME 40 MPH SPEED ON SANTA BARBARA ROAD. AASHO SSD AT 40 MPH = 275'. AT BOTH EXITS ONTO SANTA BARBARA ROAD THE SSD IS GREATER THEN 275'.
 - WATER METER TO BE INSTALLED INSIDE THE BUILDING AS PER RULES AND REGULATION OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS COMPLETE WITH THE FOLLOWING:
 - 8" INCH FIRE DETECTOR CHECK VALVE & TRIM
 - 3" DOMESTIC WATER METER & TRIM
 - 8" SPRINKLER SIAMESE CONNECTION WITH CHECK VALVE AND BALL DRIP
 - IN ALL STONE BEDS USE 6" PERF. PIPES
 - FOR DRAINAGE AREAS OUTLINE SEE SEDIMENT AND EROSION CONTROL PLAN.
 - STORM DRAINAGE CALCULATION ARE SHOWN ON SHEET NO. 2. HOWARD COUNTY STANDARD CALCULATION FORMS ARE INCLUDED IN TABLE ON SHEET NO. 2.
 - FOR PLANTING DETAILS SEE SHEET 3.
 - ALL DRIVEWAYS AND PARKING ARE PRIVATE.
 - STONE RETAINAGE BEDS AND TYPICAL INLET SECTION AND DETAILS SHOWN ON SHEET NO. 2.
 - REINFORCING STEEL - ASTM A615-74A
 - BOCA BASIC CODE IS USED FOR DESIGN OF BUILDING.

SITE ANALYSIS:

A. AREA OF PARCEL	4.98 Acres
B. PRESENT ZONING	M-2
C. TOTAL NUMBER OF EMPLOYEES	80
D. TOTAL FLOOR SPACE	90,000 S.F.
E. TOTAL FLOOR SPACE OF ANY SALES AREA	NONE
F. SUBDIVISION PLAT REFERENCES	PB-30 F-48 WAREHOUSE
G. BUILDING USE	
H. PARKING SPACES REQUIRED FOR EMPLOYEES	40
I. PARKING SPACES PROVIDED FOR EMPLOYEES	53
J. PARKING SPACES PROVIDED FOR VISITORS	47
K. TAX MAP NO.	37

STORM WATER MANAGEMENT TABLE

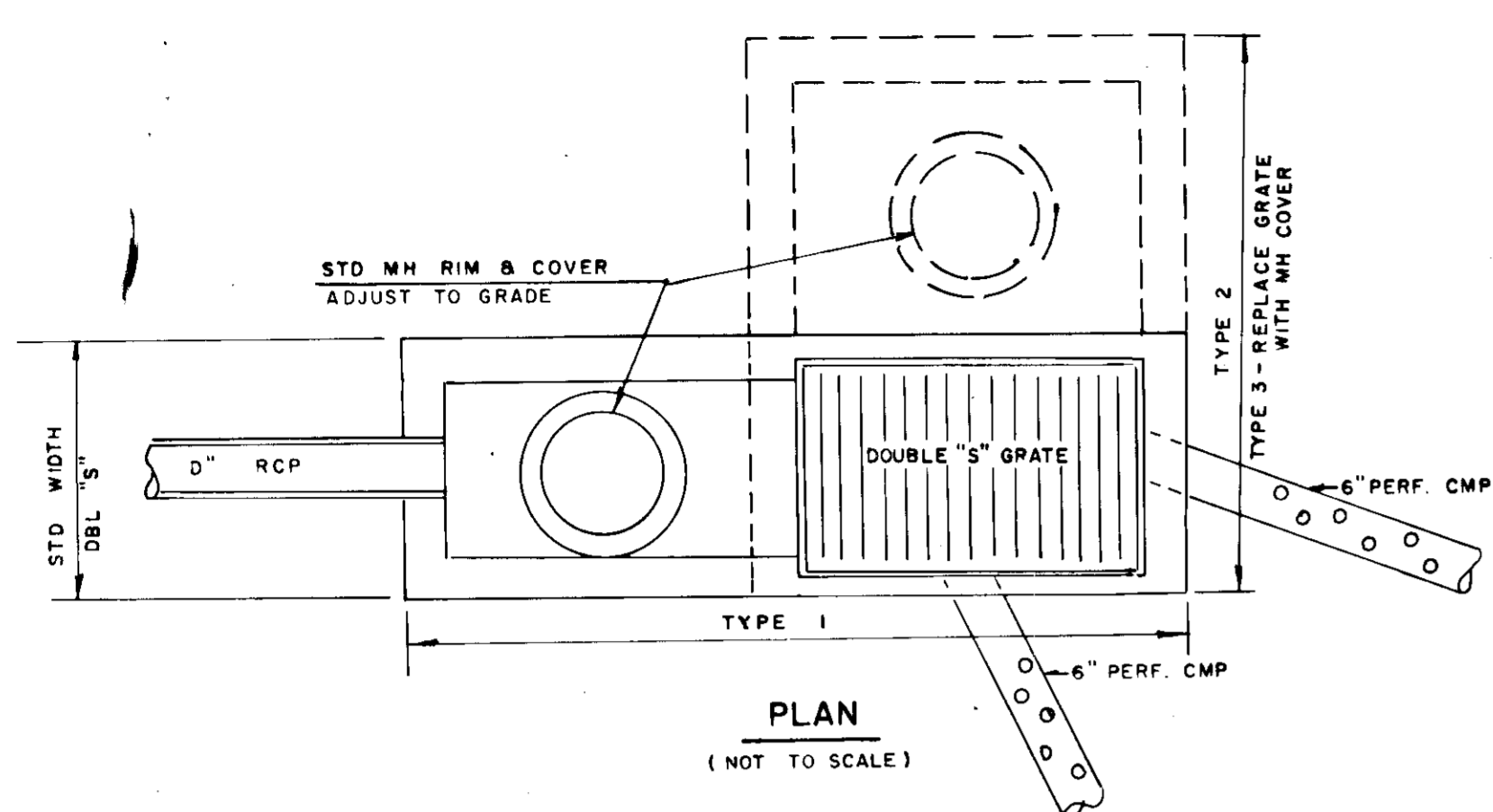
INLET NO. FROM TO	A AREA AC	C ₁₀	C ₂	I ₁₀	I ₂	Q ₁₀ CFS	Q ₂ CFS	Δ Q CFS	V VOL REQ CF	STONE BED			INLET NO.	INLET PIPE	INV. ELEV. UP	INV. ELEV. DOWN	Δ ELEV.	SLOPE %	DIAM	N	VEL. FULL	REMARKS	STR. NO.	INLET & MANHOLE HCRCC TYPE	PROJECT TYPE	HCRCC PAGE NO.		
										DEPTH	WIDTH	LENGTH																
1-1 MH1	0.59	0.9	0.5	6.6	6.6	3.50	0.46			2	30.0	47.7	1	250	178.70	177.45	1.25	0.5	15	0.014	3.2	FOR TOP ELEV. OF EACH STR. SEE PROFILES BELOW.	1-1	STD DBL "S" COMB	1	154		
1-2 MH1	0.16	0.9	0.3	6.6	6.6	0.95	0.13			2	19.5	20.0	2	165	177.45	176.62	0.83	0.5	15	0.014	3.2		1-2	"	"	"	"	
1-3 MH2	1.05	0.9	0.3	6.6	5.0	3.96	1.10	2.86	2860	3	36.0	43.2	3	335	176.62	173.94	2.68	0.8	15	0.014	4.0		1-3	DBL S W/O GRATE	3	"	"	"
1-4 MH2	0.47	0.9	0.3	6.6	6.6	2.79	0.86			2	32.0	40.0	4	130	183.40	182.75	0.65	0.5	15	0.014	3.2		1-4	STD DBL "S" COMB	1	"	"	
1-5 MH2	0.13	0.9	0.3	6.6	6.6	0.77	0.13			2	32.0	40.0	4	122	182.75	179.15	3.60	2.95	15	0.014	7.9		1-5	CLASS A-5 OPENING	1	19A		
1-6 MH3	0.29	0.9	0.3	6.6	6.6	1.72	0.26			2	24.0	43.3	5	40	173.94	173.00	0.94	1.5	21	0.014	7.0		1-6	STD DBL "S" COMB	2	154		
MH3	0.08	0.5	0.3	6.6	6.6	0.26	0.06			2	24.0	43.3	5	10	169.34	169.79	0.45	5.5	21	0.014	13.0		1-7	"	"	"	"	
MH4	0.37	0.5	0.3	6.6	6.6	1.98	0.56	1.42	2060	2	24.0	43.3	5	200	173.34	169.34	4.00	2.0	21	0.014	8.0		1-8	"	"	"	"	
MH4	0.10	0.5	0.3	6.6	6.6	0.60	0.16			2	12.0	22.0	7	75	184.62	184.24	0.38	0.5	18	0.014	3.6		MH 1	TYPE "A"	158	"	"	
MH5	0.15	0.5	0.3	6.6	6.6	0.76	0.23	0.53	530	2	12.0	22.0	7	230	184.24	183.07	1.17	0.5	18	0.014	3.6		MH 2	"	"	"	"	
MH5	0.08	0.5	0.3	6.6	6.6	0.26	0.06			2	24.0	43.3	5	10	169.34	169.79	0.45	5.5	21	0.014	13.0	MH 3	"	"	"	"		
MH5	0.10	0.5	0.3	6.6	6.6	0.60	0.16			2	12.0	22.0	7	75	184.62	184.24	0.38	0.5	18	0.014	3.6	MH 4	"	"	"	"		
MH5	0.15	0.5	0.3	6.6	6.6	0.76	0.23	0.53	530	2	12.0	22.0	7	230	184.24	183.07	1.17	0.5	18	0.014	3.6	MH 5	"	"	"	"		

DESIGN CRITERIA

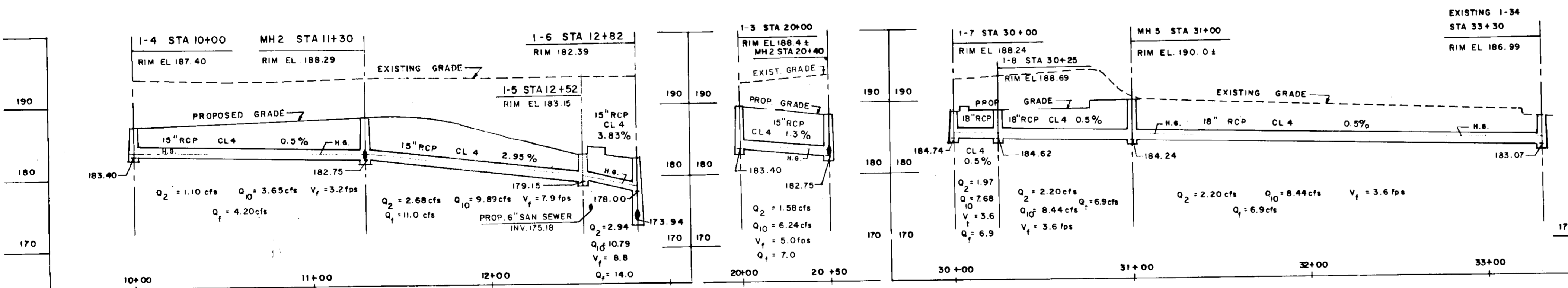
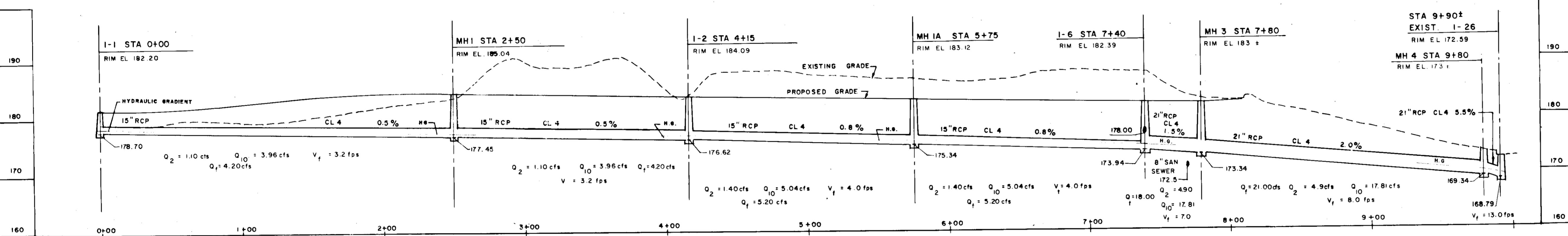
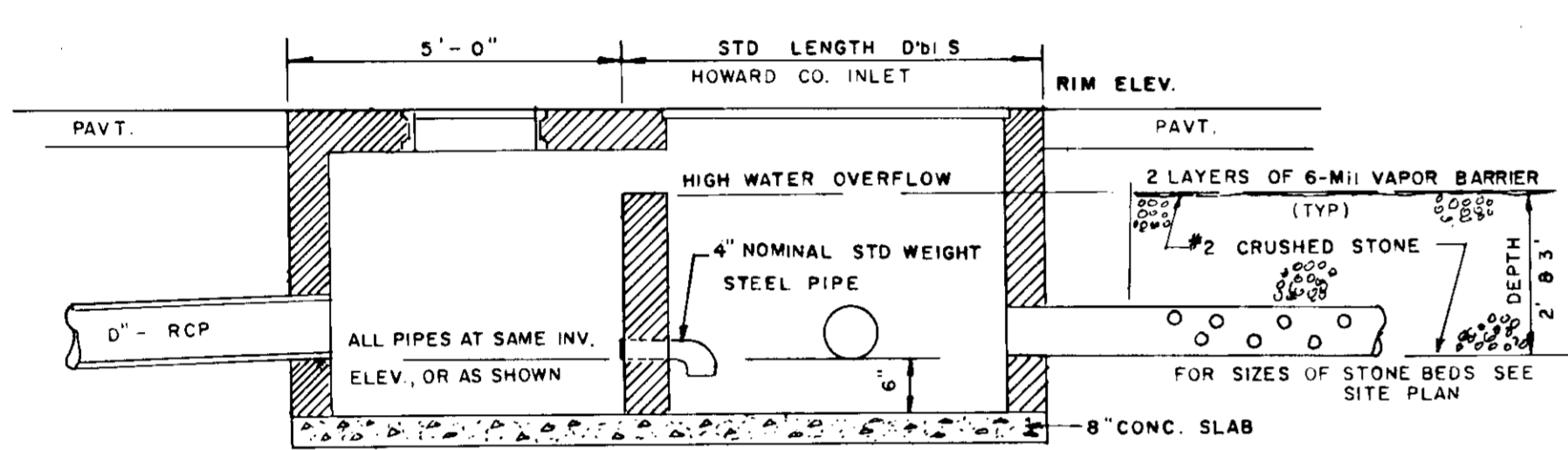
- DESIGN STORM FOR DEVELOPMENT 10 Yrs.
- RELEASE RATE STORM AND SYSTEM DESIGN 2 Yrs.
- RETAIN THE DIFFERENCE FOR 7 MINUTES (420 sec)
- Q = ACI = RUNOFF - PEAK DISCHARGE OF WATERSHED DUE TO DESIGN STORM
- A = AREA OF WATERSHED IN ACRES
A_p - PAVED, A_r - ROOF AREA, A_g - GRASSED AREA
- C = COEFFICIENT OF RUNOFF
a) Existing Condition 0.3
b) Grassed Area 0.5
c) Paved or Roof Area 0.9
- I = INTENSITY OF RAINFALL IN INCHES PER HR. FOR 7 MIN. STORM DURATION
I₁₀ 6.6
I₂ 5.0
I₂ 0.014
- N = COEFFICIENT OF RAUGHNES
- FOR STONE RETAINAGE BEDS USE NO. 2 STONE VOID RATIO = 0.75 TO 1.00 POROSITY = 0.42 TO 0.50 USE 0.42
- USE DESIGN CHARTS PREPARED BY BUREAU OF PUBLIC ROADS - "HYDRAULIC DESIGN SERIES NO. 3"
- ARROWS → SHOWN INDICATES FLOW

NOTES:

- FOR DRAINAGE LAYOUT SEE SITE DEVELOPMENT PLAN
- FOR DRAINAGE AREAS SEE SEDIMENT AND EROSION PLAN



NOTE: ALL WALL, TOP & BOTTOM SLAB THICKNESS AND FRAME CONN. TO INLETS SHALL CONFORM TO HOWARD CO. STANDARDS.



APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 10/9/75
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 10-10-75
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 10-8-75
DIRECTOR DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 10/7/75
CHIEF, BUREAU OF HIGHWAYS DATE

REVIEWED FOR HOWARD S.C.D.
(NAME)
AND MEETS TECHNICAL REQUIREMENTS
[Signature] 10/7/75
SIGNATURE DATE
US SOIL CONSERVATION SERVICE

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APPROVED: *[Signature]* DATE 10/1/75
HOWARD S.C.D.

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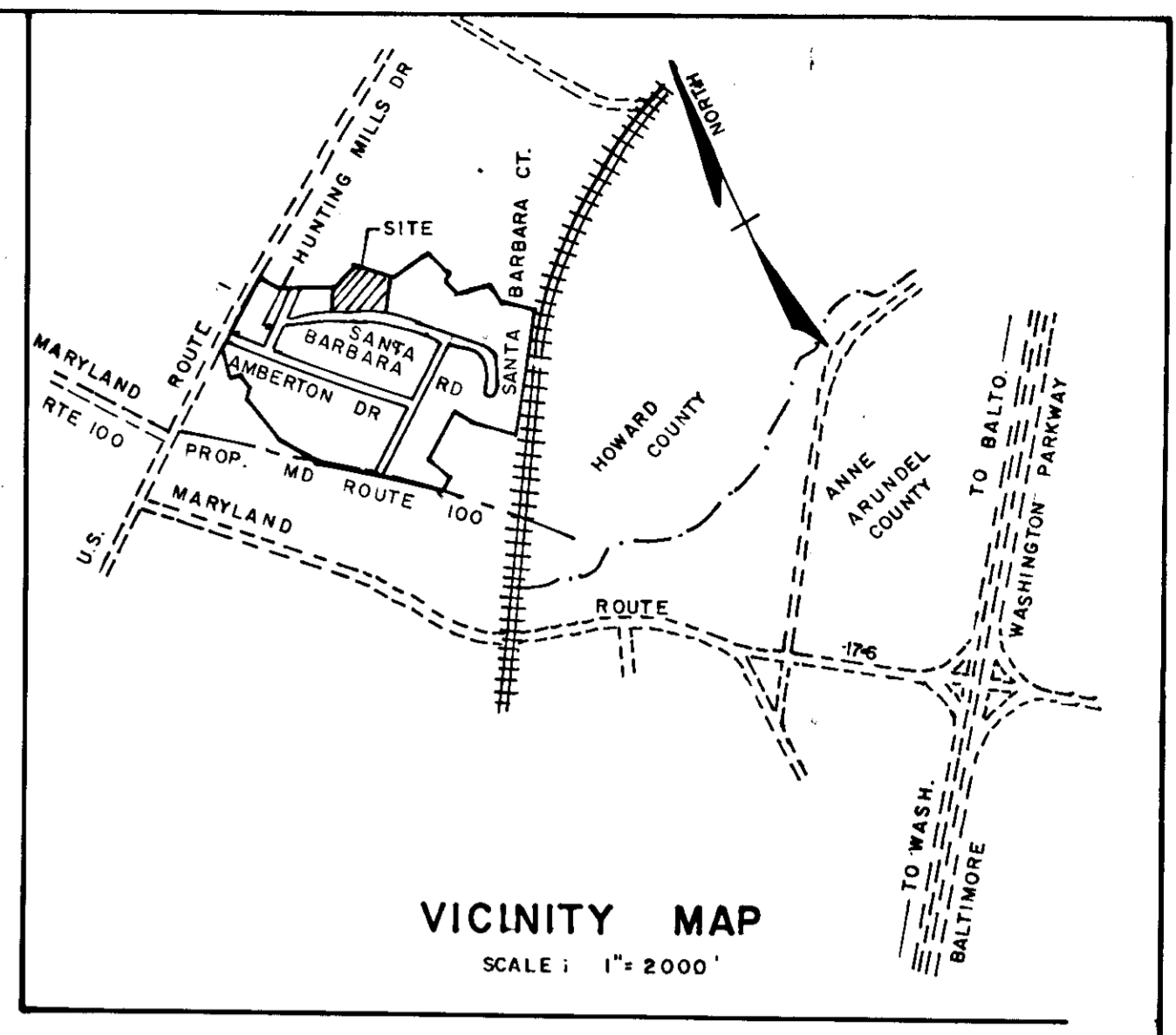
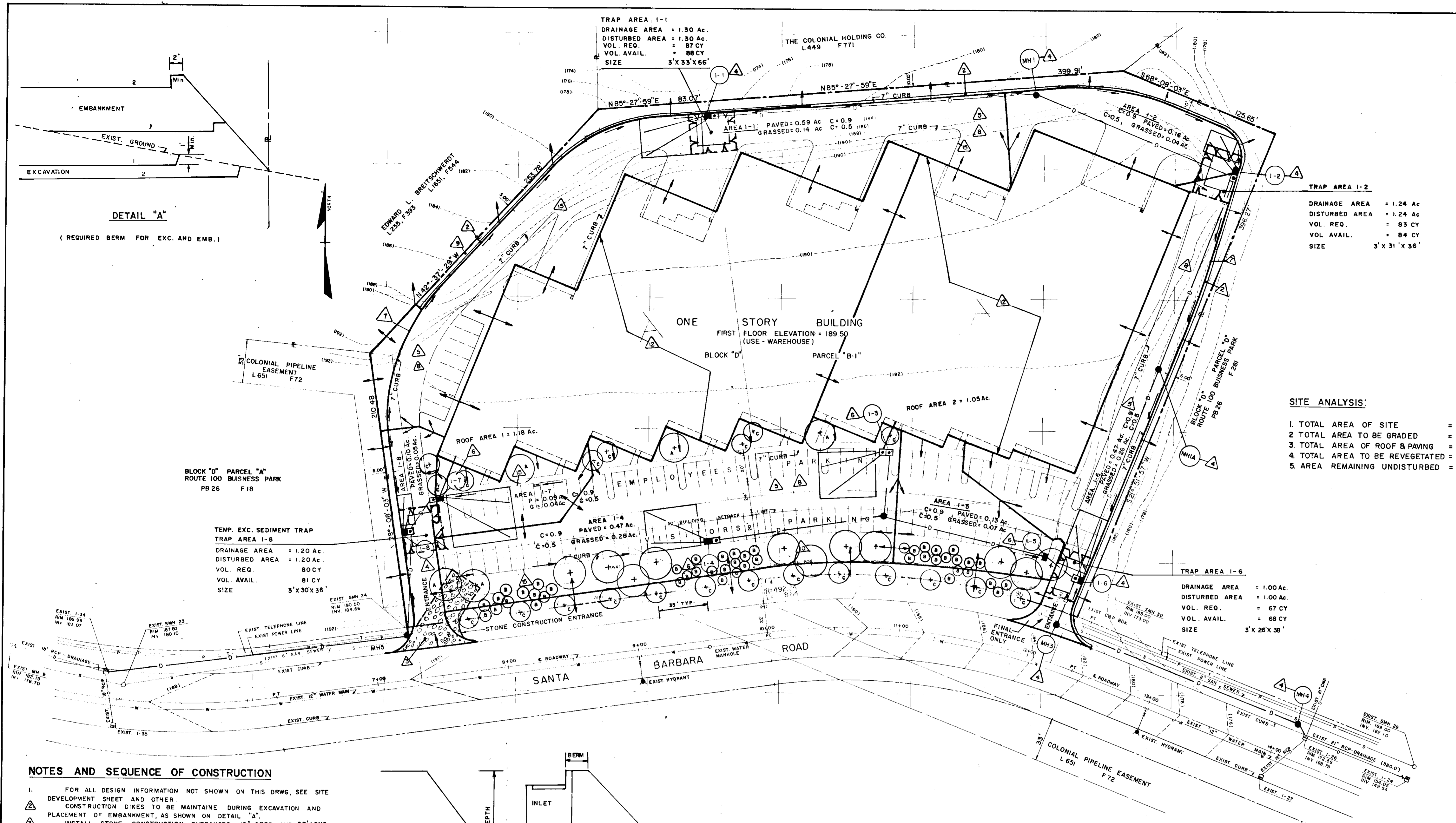
APPROVED
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 9-3-75

[Signature]
NICHOLAS KRAVCHENKO, JR
MARYLAND REG. NO. 9408

6/30/1975
DATE

STORM WATER MANAGEMENT
ROUTE ONE HUNDRED BUSINESS PARK
BLOCK "D" PARCEL "B-1"
FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1"=40' JUNE 1975

OWNER - DEVELOPER
HARWOOD DEVELOPMENT CO., INC.
C/O WILBUR E. SIMMONS
2 HOPKINS PLAZA
BALTIMORE, MARYLAND 21201



TRAP AREA 1-2
 DRAINAGE AREA = 1.24 Ac.
 DISTURBED AREA = 1.24 Ac.
 VOL. REQ. = 83 CY
 VOL. AVAIL. = 84 CY
 SIZE 3' X 31' X 36'

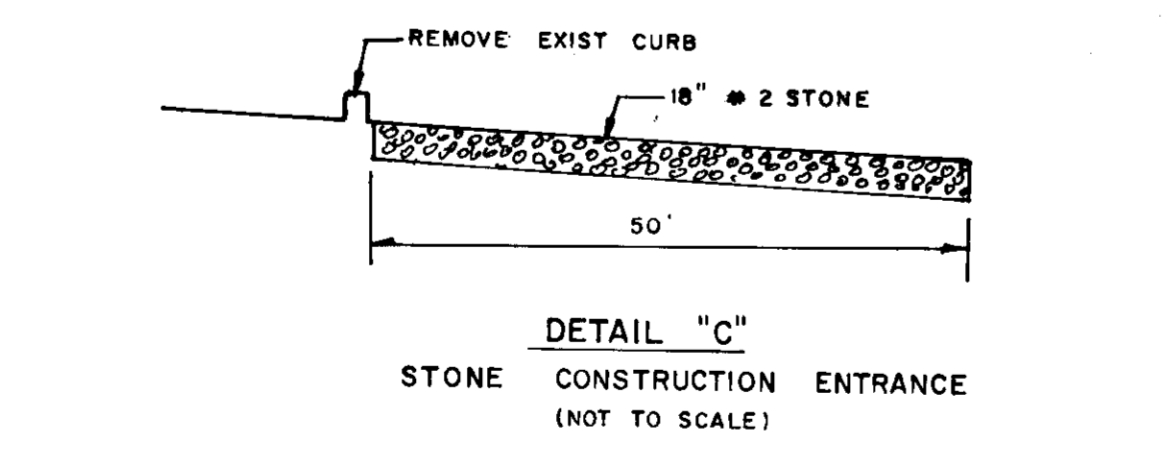
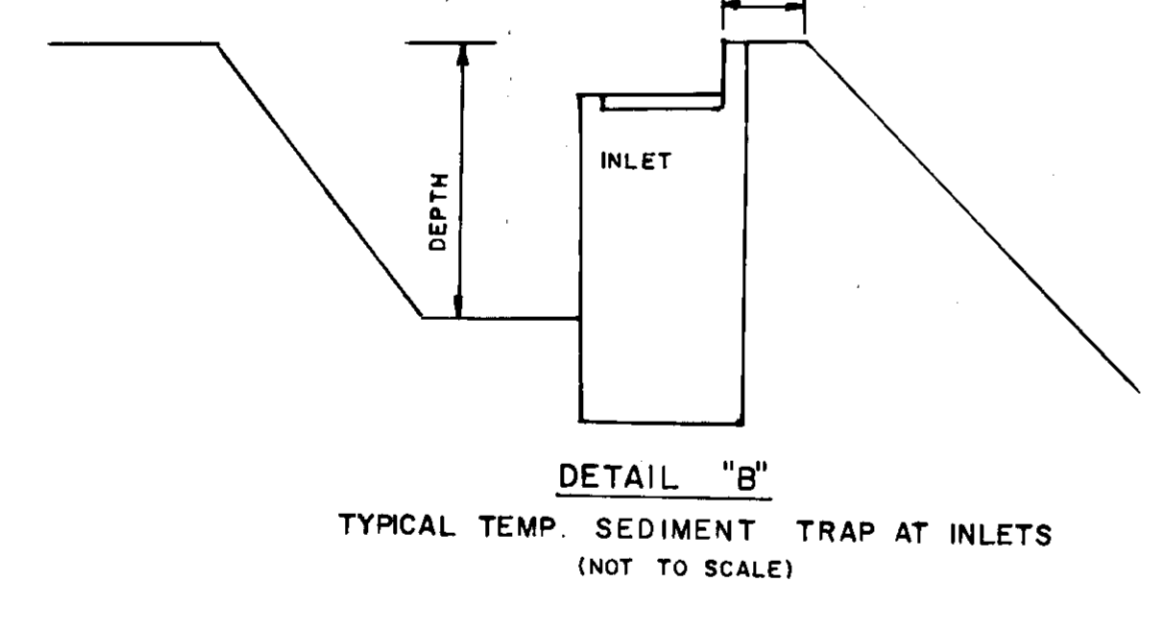
SITE ANALYSIS:
 1. TOTAL AREA OF SITE = 4.98 Ac.
 2. TOTAL AREA TO BE GRADED = 4.98 Ac.
 3. TOTAL AREA OF ROOF & PAVING = 4.05 Ac.
 4. TOTAL AREA TO BE REVEGETATED = 0.92 Ac.
 5. AREA REMAINING UNDISTURBED = 0

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE
 APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE
 CHIEF, BUREAU OF HIGHWAYS DATE

REVIEWED FOR HOWARD COUNTY (NAME) S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE DATE
 US SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: DATE
 HOWARD S.C.D.

- NOTES AND SEQUENCE OF CONSTRUCTION**
- FOR ALL DESIGN INFORMATION NOT SHOWN ON THIS DRWG, SEE SITE DEVELOPMENT SHEET AND OTHER.
 - CONSTRUCTION DIKES TO BE MAINTAINED DURING EXCAVATION AND PLACEMENT OF EMBANKMENT, AS SHOWN ON DETAIL "A".
 - INSTALL STONE CONSTRUCTION ENTRANCES 18" DEEP AND 50' LONG.
 - INSTALL ALL INLETS & MHS EXCEPT 1-3 & 1-7 AND CONNECT TO EXISTING DRAINAGE SYSTEMS, TO CREATE OUTLET FOR SEDIMENT CONTROL TRAPS.
 - BEGIN GRADING OF PAVED AREAS TO SUBGRADE.
 - INSTALL REMAINING STORM DRAINAGE SYSTEM AND MAINTAIN SILTING TRAPS AT ALL INLETS.
 - INSTALL OUTSIDE CURB FOR TOTAL PERIMETER OF SITE.
 - INSTALL STONE BASE FOR ALL PROPOSED PAVED AREAS.
 - ALL PERIMETERS OF SITE BETWEEN PROPERTY LINE AND PAVED AREAS TO BE STABILIZED IMMEDIATELY AND AS FOLLOWS:
 - PROVIDE KY 31 & CROWN VETCH AT 50 lbs/Ky/Ac. 30 lbs/CV/Ac.
 - LIME APPLICATION - 2000 lbs/Ac.
 - FERTILIZER APPLICATION - 5/10/10 AT 1000 lbs/Ac.
 - MULCHING - 3000 TO 4000 lbs STRAW/Ac. ANCHORED WITH PLASTIC NETTING WHERE SLOPES ARE STEEPER THAN 3:1.
 - HYDROSEED OR OVERSEED ALL GRASSED AREA IN FRONT OF VISITORS PARKING DURING CONSTRUCTION.
 - AFTER FINAL STABILIZATION IS DONE, A CONTRACTOR IS RESTRICTED FROM PLACING ANY MATERIAL OR EQUIPMENT IN THESE AREAS.
 - EXCAVATE FOR BUILDING AND REMOVE EXCESS MATERIAL TO THE APPROVED SITE FOR EROSION AND SEDIMENT CONTROL.
 - COMPLETE BUILDING AS PER PLANS.
 - CLEAN ALL BUILDING DEBRIS.
 - GRADE ALL PAVED AREAS AND INSTALL REMAINING CURBS.
 - PROVIDE FINAL STABILIZATION FOR ALL AREAS AND AS OUTLINED IN NOTE 9, EXCEPT G. KY 31 @ 1.5 lbs/1000 S.F. AND KY BLUEGRASS @ 1.5 lbs/1000 S.F.
 - RECOMMENDED LOCATION FOR TRAILERS AND EQUIPMENT IS PARKING AREA IN FRONT OF PROPOSED BUILDING.
 - DELIMITS SEQUENCE ITEMS.

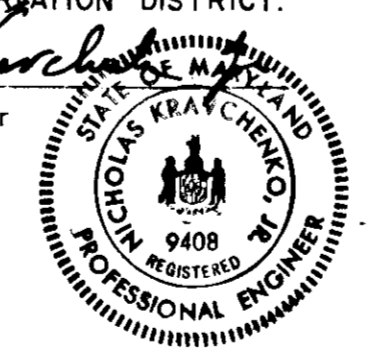


THE PLANT LIST

KEY	QUAN.	COMMON NAME	BOTANICAL NAME	SIZE	B+B	REMARKS
A	16	RED MAPLE	ACER RUBRUM	2 1/2" - 3"	B+B	25' O.C. MIN. SPACING
B	46	WHITE PINE	PINUS STOBUS	5' - 6' HT	B+B	10' O.C. MIN. SPACING
C	21	RADIANT FLOWERING CRAB	MALLIS FLORIBUNDA "RADIANT"	2 1/2" - 3"	B+B	35' O.C. IN FRONT

DEVELOPER'S CERTIFICATE
 "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 AGENT, AS ARE DEEMED NECESSARY."
 Signature of Developer
 Date 6/30/75

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 Signature of Engineer
 Date 6/30/1975

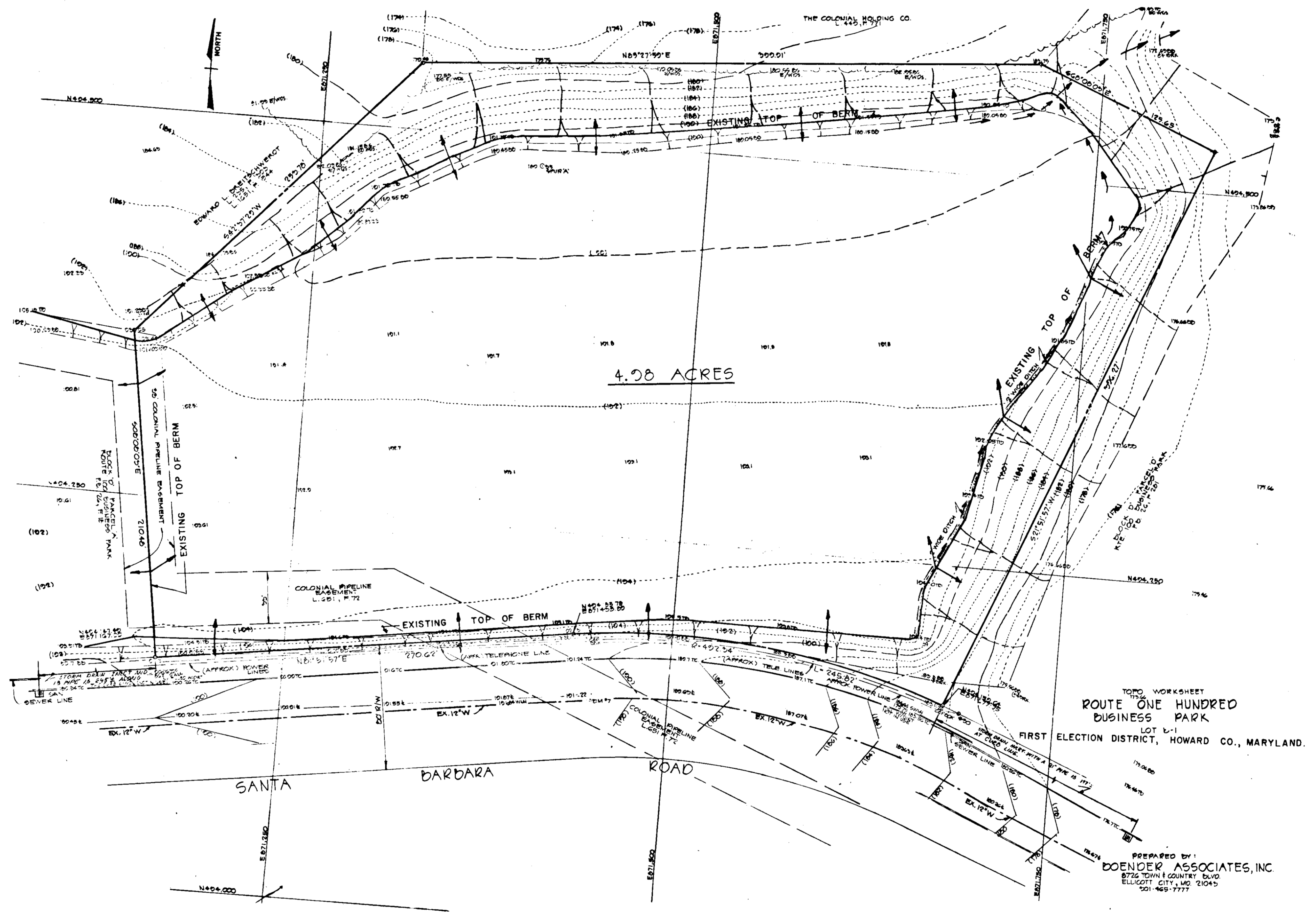


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SEDIMENT AND EROSION CONTROL PLAN
 ROUTE ONE HUNDRED BUSINESS PARK
 BLOCK "D" PARCEL "B-1"
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 40'
 JUNE 1975

OWNER - DEVELOPER
 HARWOOD DEVELOPMENT CO., INC.
 C/O WILBUR E. SIMMONS
 2 HOPKINS PLAZA
 BALTIMORE, MARYLAND 21201



4.08 ACRES

TOPOG WORKSHEET
 ROUTE ONE HUNDRED
 BUSINESS PARK
 LOT 1-1
 FIRST ELECTION DISTRICT, HOWARD CO., MARYLAND.

PREPARED BY:
 DOENDER ASSOCIATES, INC.
 8722 TOWN & COUNTRY BLVD
 ELLICOTT CITY, MD 21045
 501-469-7777

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *[Signature]* 10/9/75
 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR *[Signature]* 10-10-75
 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

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 DIRECTOR *[Signature]* 10-8-75
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 CHIEF, BUREAU OF HIGHWAYS

REVIEWED: FOR HOWARD (NAME) S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE *[Signature]* 10/1/75
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 US SOIL CONSERVATION SERVICE

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APPROVED *[Signature]* DATE 10/1/75
 HOWARD S.C.D.

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 9-3-75



[Signature]
 NICHOLAS KRAVCHENKO, JR.
 MARYLAND REG. NO. 9408

TOPOGRAPHIC SURVEY WITH EXIST. S.E.C. AND ON-SITE/OF-SITE DRAINAGE DIVIDES

HARWOOD DEVELOPMENT CO., INC.
 C/O WILBUR E. SIMMINS
 2 HOPKINS PLAZA
 BALTIMORE, MARYLAND 21201

SHEET 4 OF 4
 SCALE 1" = 40'