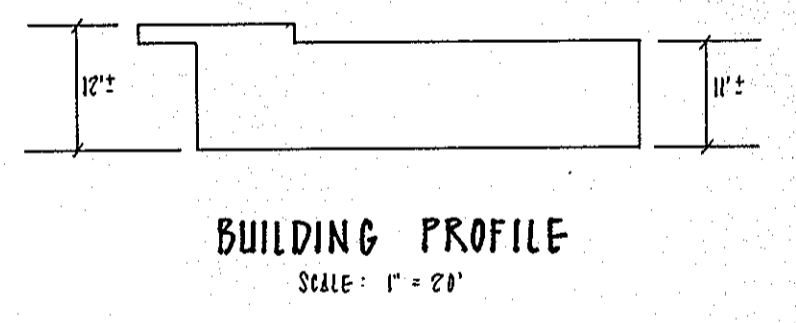
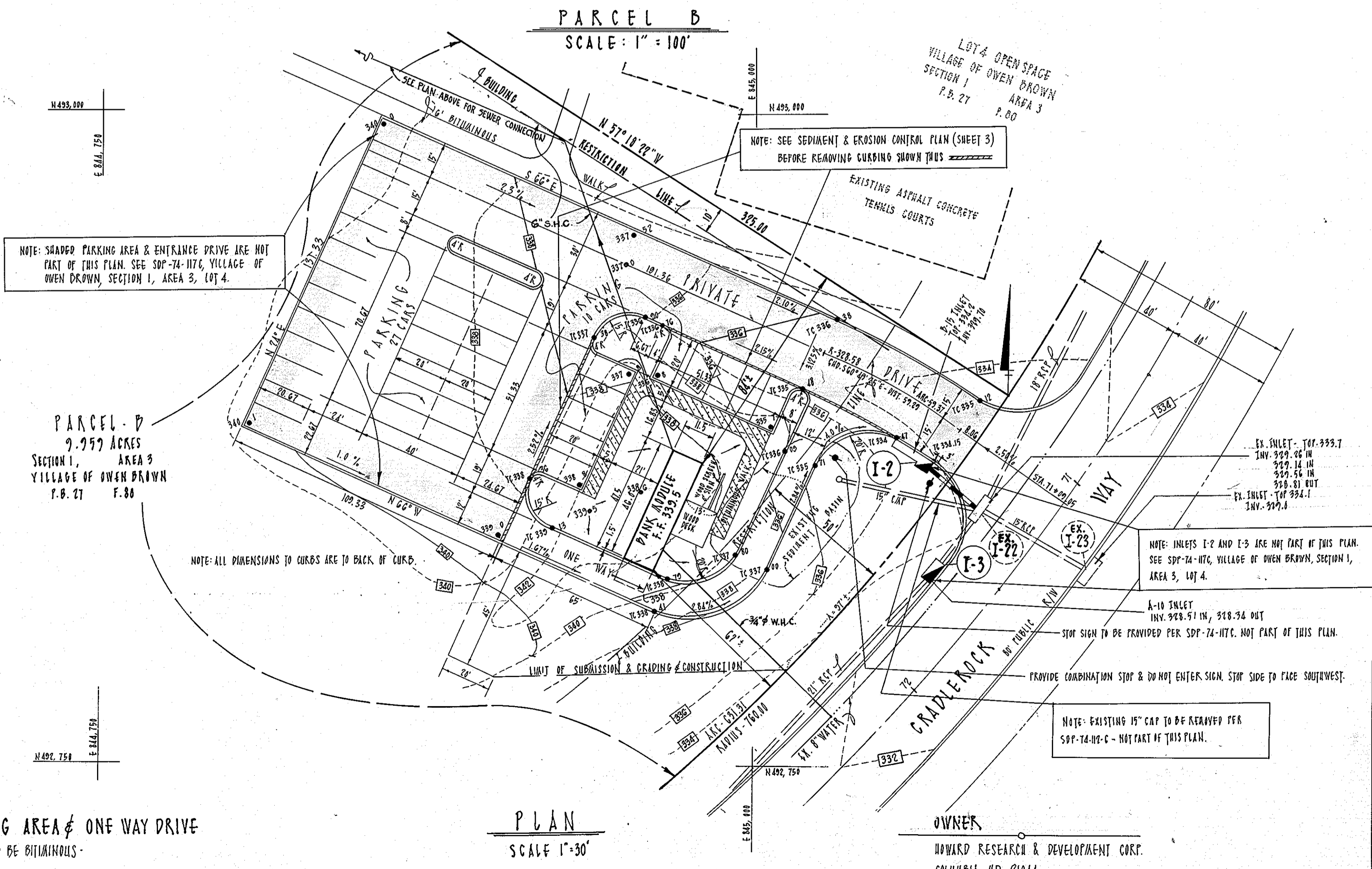
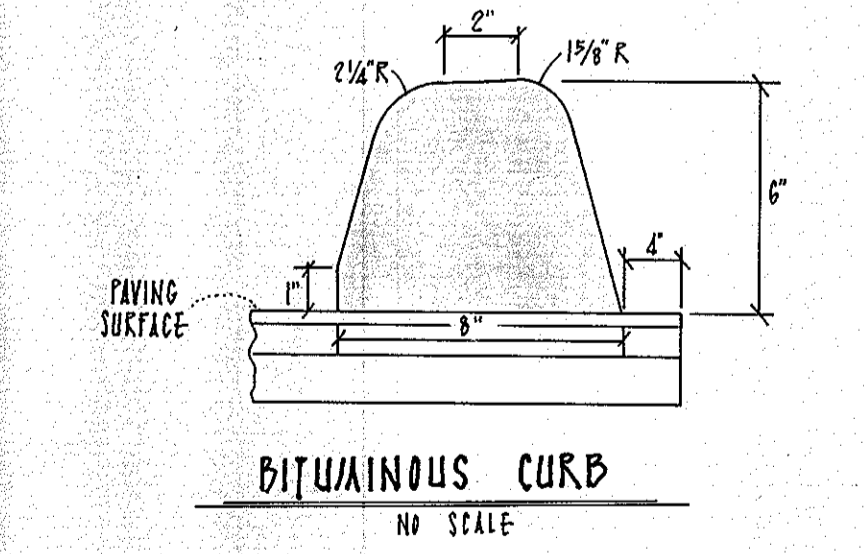
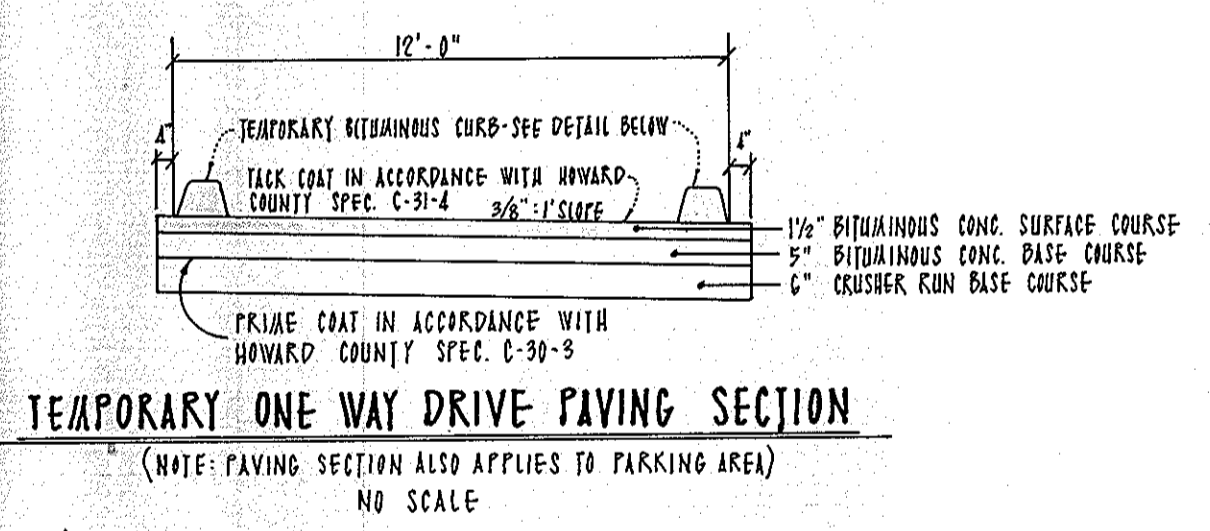
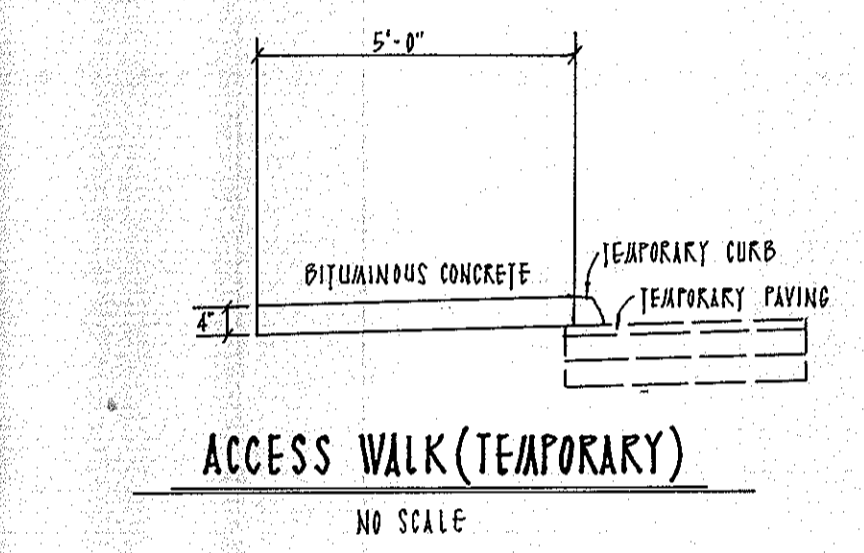
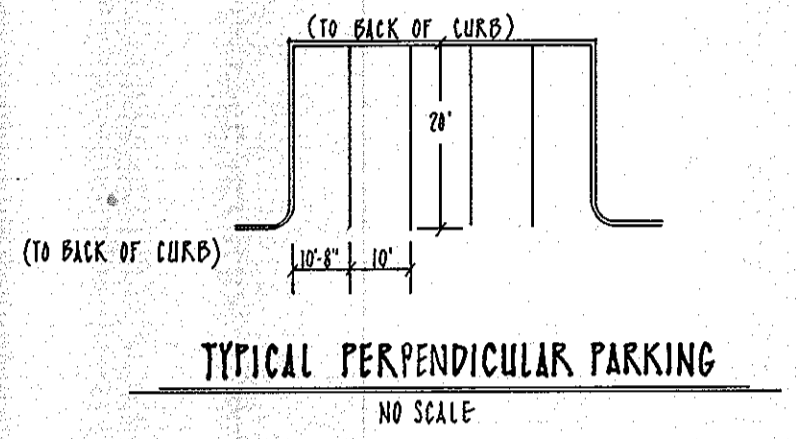


- LEGEND**
- 1. CONTOUR INTERVAL
 - 2. EXISTING CONTOURS
 - 3. PROPOSED CONTOURS
 - 4. SPOT ELEVATIONS
 - 5. PROPOSED STORM DRAIN / INLET
 - 6. DIRECTION FLOW

- SITE ANALYSIS**
1. ZONING - NEW TOWN -
 2. AREA - PARCEL B - 9.959 ACRES
 3. AREA - LIMITS OF SUBMISSION - 0.302 ACRES
 4. PARKING REQUIREMENTS - CAR/AM - 36 SPACES
 5. PARKING PROVIDED - 37 SPACES
 6. RECORDED REFERENCES - PLAT BOOK 27 FOLIO 80
 7. FINAL DEVELOPMENT PLAN - PLAT BOOK 26 FOLIO 15-18, 4 150
 8. TOTAL NO. EMPLOYEES - 3
 9. TOTAL FLOOR SPACE - 475 sq ft

GENERAL NOTES

1. ALL PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD COUNTY.



APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: APR 2 1975

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
DATE: 4/11/75

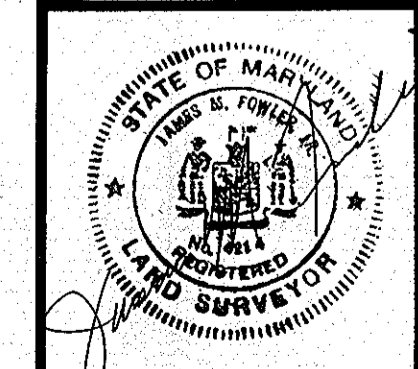
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE - STORM DRAINAGE SYSTEMS AND PUBLIC ROADS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6-12-75

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE - STORM DRAINAGE SYSTEMS AND PUBLIC ROADS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6-9-75

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE - STORM DRAINAGE SYSTEMS AND PUBLIC ROADS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6/5/75

NOTE: TEMPORARY PARKING AREA & ONE WAY DRIVE
ALL PAVING AND CURBING TO BE BITUMINOUS - SEE DETAILS THIS SHEET.

NOTE: CONTOURS AND FEATURES SHOWN AS EXISTING REPRESENT SITE AS IT EXISTED ON SEPTEMBER 2, 1974.



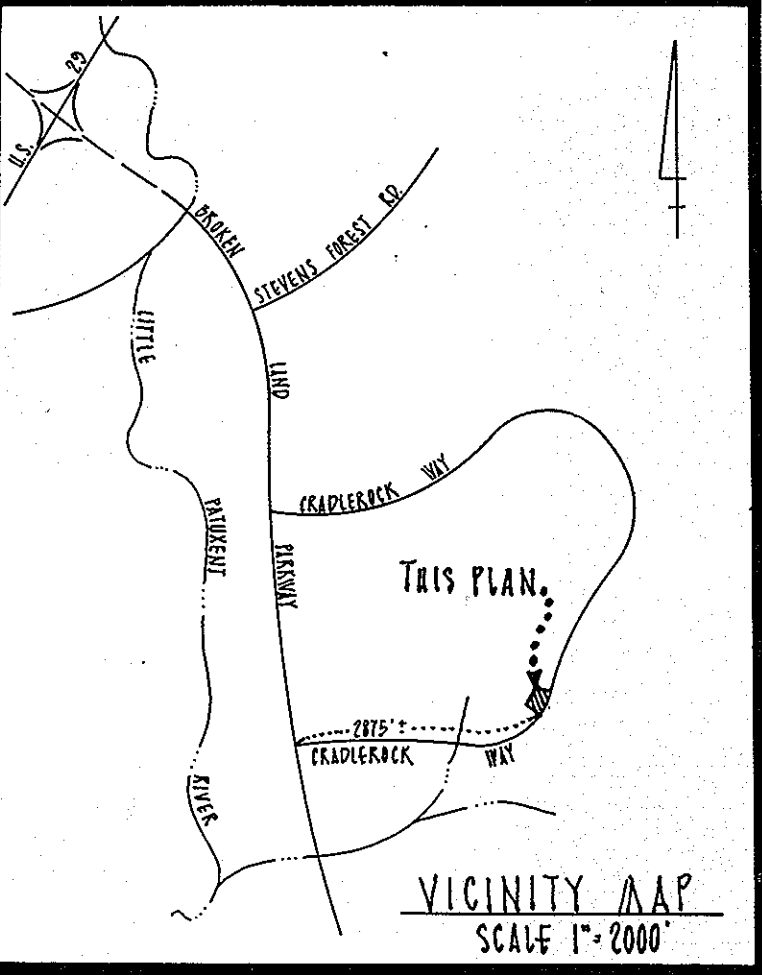
DEVELOPMENT PLAN
PART OF PARCEL "B"
COLUMBIA
VILLAGE OF OWEN BROWN
SECTION 1, AREA 3, PLAT BOOK 27, FOLIO 80
6TH ELECTION DISTRICT, TAX PLATE 36, HOWARD COUNTY, MD.

MACRIS-FOWLER ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
27 W. JEFFERSON ST.
ROCKVILLE, MD. 20850
(301) 762-3658

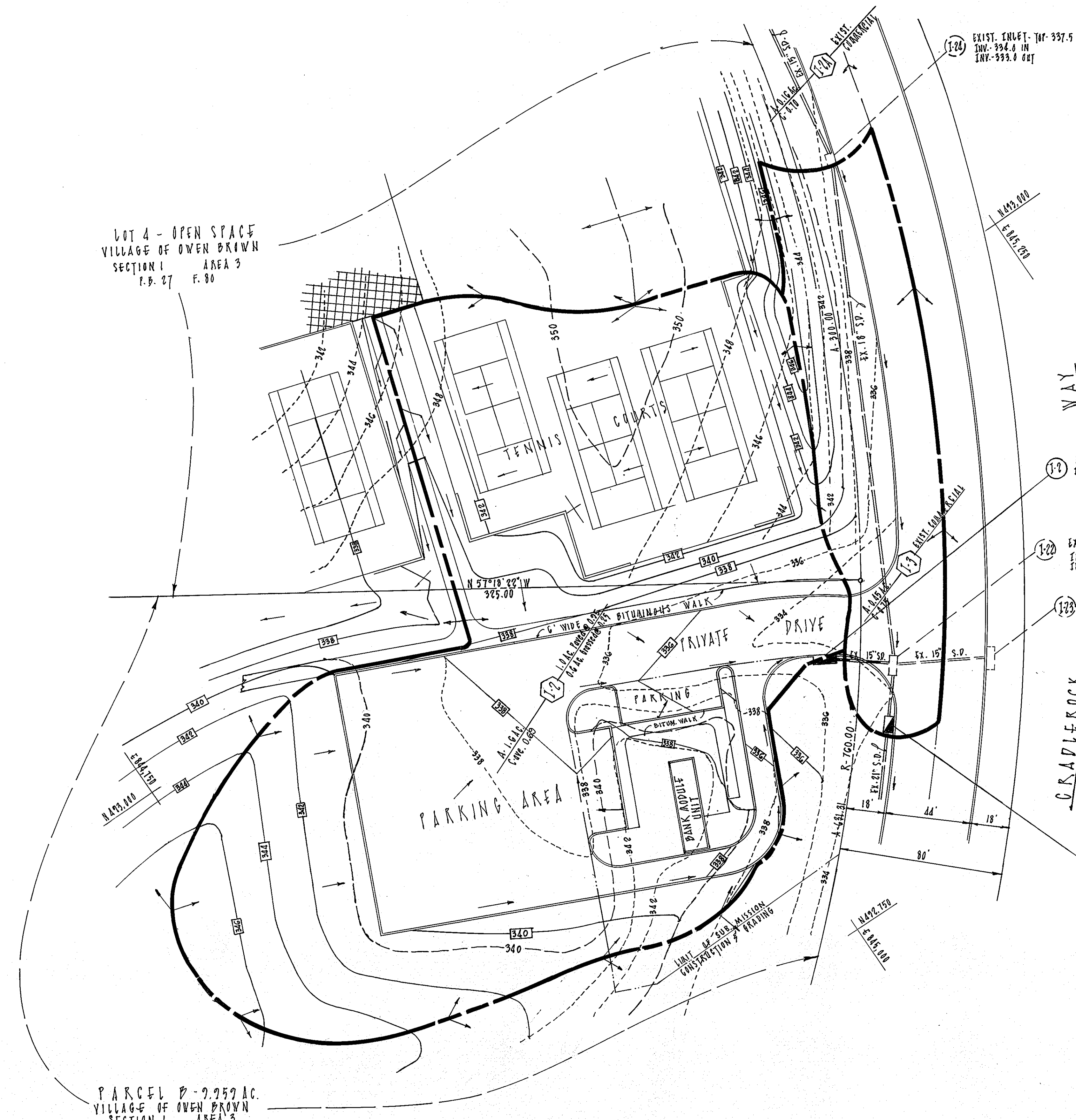
REVISIONS		
N°	DATE	BY

DESIGNED J.H.S.	DRAWN S.C.B.
CHECKED J.H.F.	DATE 4-19-74
SCALE AS SHOWN	JOB NO. 74-524-1
SHEET 1 OF 3	

SDP-75-29



LOT 4 - OPEN SPACE
VILLAGE OF OWEN BROWN
SECTION 1 AREA 3
P.B. 27 F. 80



- (I-1) PROP. INLET TOP- 993.0' INV. 929.78 OUT
- (I-20) EXIST. INLET TOP- 993.7 INV. 929.26 IN, INV. 929.14 IN, INV. 929.96 IN, INV. 928.81 OUT
- (I-23) EXIST. INLET TOP- 994.1 INV. 929.8
- (I-3) PROP. INLET TOP- 996.5' INV. 928.91 IN, INV. 928.34 OUT

NOTE: INLETS I-2 AND I-3 ARE NOT PART OF THIS PLAN, FOR PROFILES SEE SDP- 74-117C.

LEGEND

1. CONTOUR INTERVAL 2 FOOT
2. EXISTING CONTOURS
3. PROPOSED CONTOUR
4. PROPERTY LINE
5. LIMITS OF DRAINAGE INCREMENT AREA
6. DIRECTION OF FLOW
7. EXISTING STORM DRAIN & INLET

PARCEL B - 9.259 AC.
VILLAGE OF OWEN BROWN
SECTION 1 AREA 3
P.B. 27 F. 80

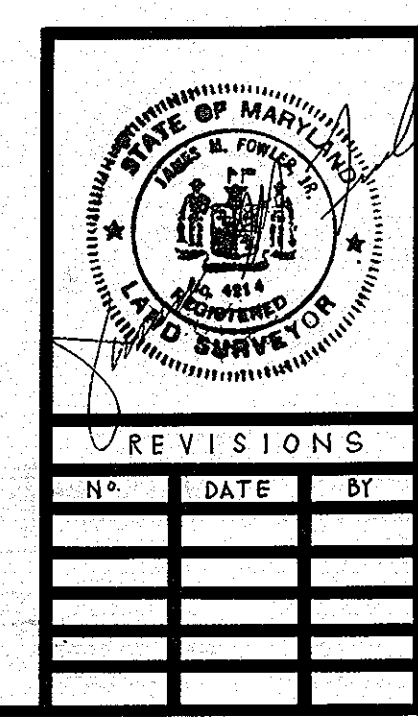
PLAN
1" = 30'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
APR 2 1975

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	<i>[Signature]</i> COUNTY HEALTH OFFICER	6/11/75 DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING	<i>[Signature]</i> PLANNING DIRECTOR	6-12-75 DATE
<i>[Signature]</i> CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING		6/11/75 DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i> DIRECTOR	6-9-75 DATE
<i>[Signature]</i> CHIEF BUREAU OF HIGHWAYS		6/5/75 DATE

OWNER
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
COLUMBIA, MARYLAND 21044

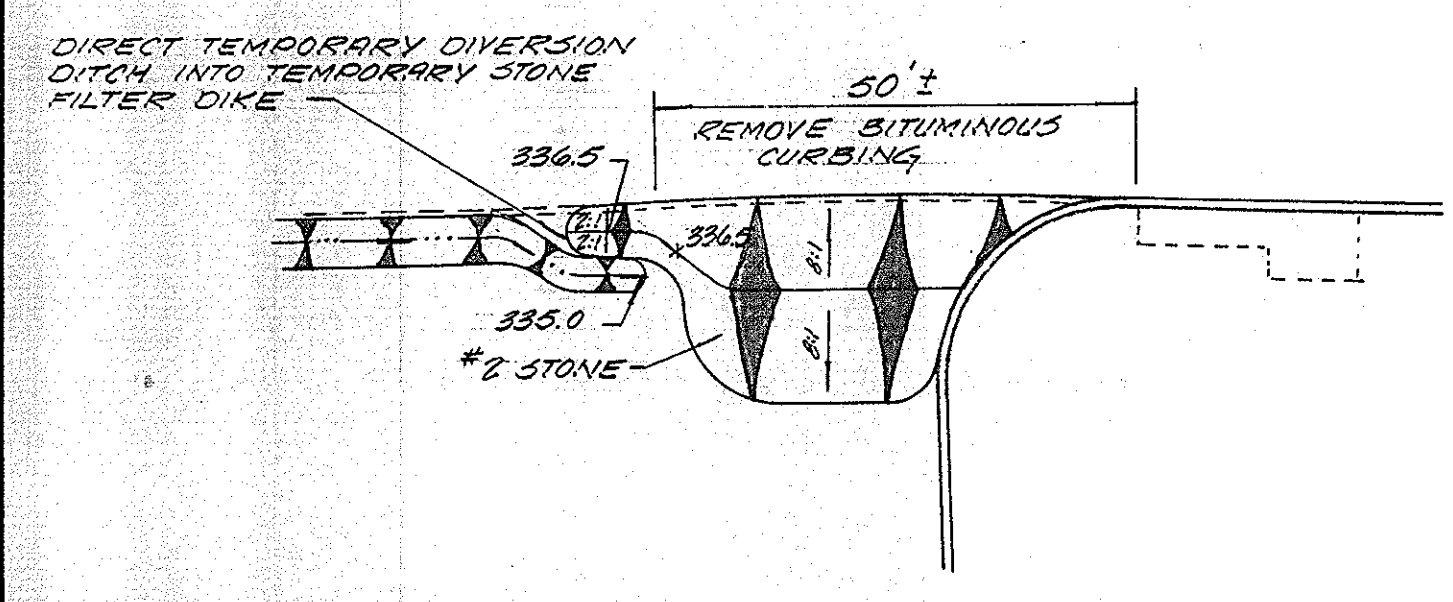
DEVELOPER
COLUMBIA BANK AND TRUST COMPANY
COLUMBIA, MARYLAND 21044



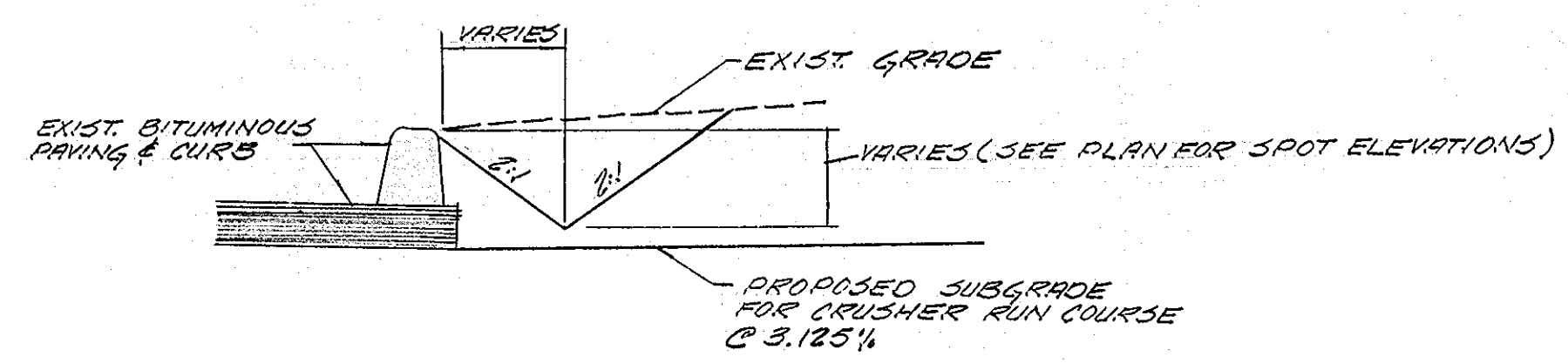
DRAINAGE AREA MAP
PART OF PARCEL "B"
COLUMBIA
VILLAGE OF OWEN BROWN
SECTION 1, AREA 3, PLAT BOOK 27, FOLIO 80
6TH ELECTION DISTRICT, TAX PLATE 36, HOWARD COUNTY, MD.

MACRIS-FOWLER ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS, SURVEYORS, PLANNERS
27 W. JEFFERSON ST.
ROCKVILLE, MD. 20850
(301) 762-3858

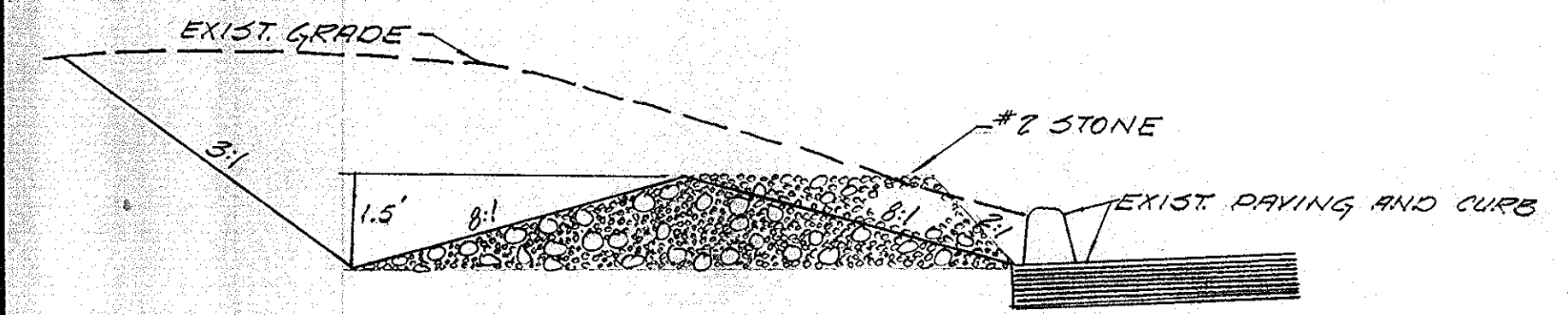
DESIGNED J.A.S.	DRAWN J.K.K.
CHECKED Y.S.	DATE 7/22/74
SCALE 1"=50'	JOB NO. 74-504-1
SHEET 2 OF 3	



PLAN
NO SCALE

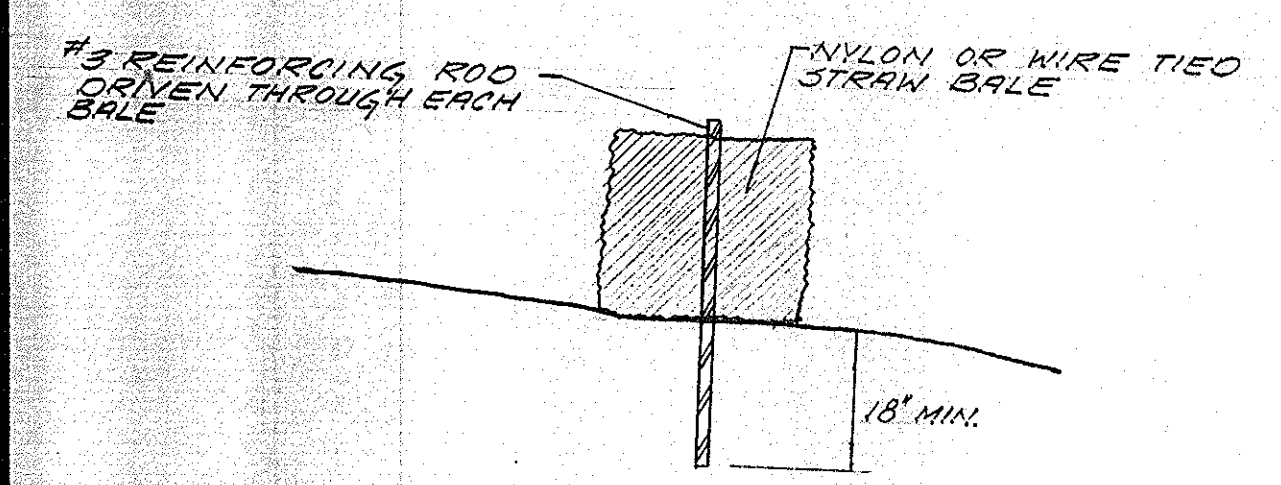


TEMPORARY DIVERSION DITCH
NO SCALE



PROFILE
NO SCALE

TEMPORARY STONE FILTER DIKE & CONSTRUCTION ENTRANCE



CROSSSECTION OF TEMPORARY STRAW BALE FILTER DIKE
NO SCALE

DEVELOPER'S CERTIFICATE

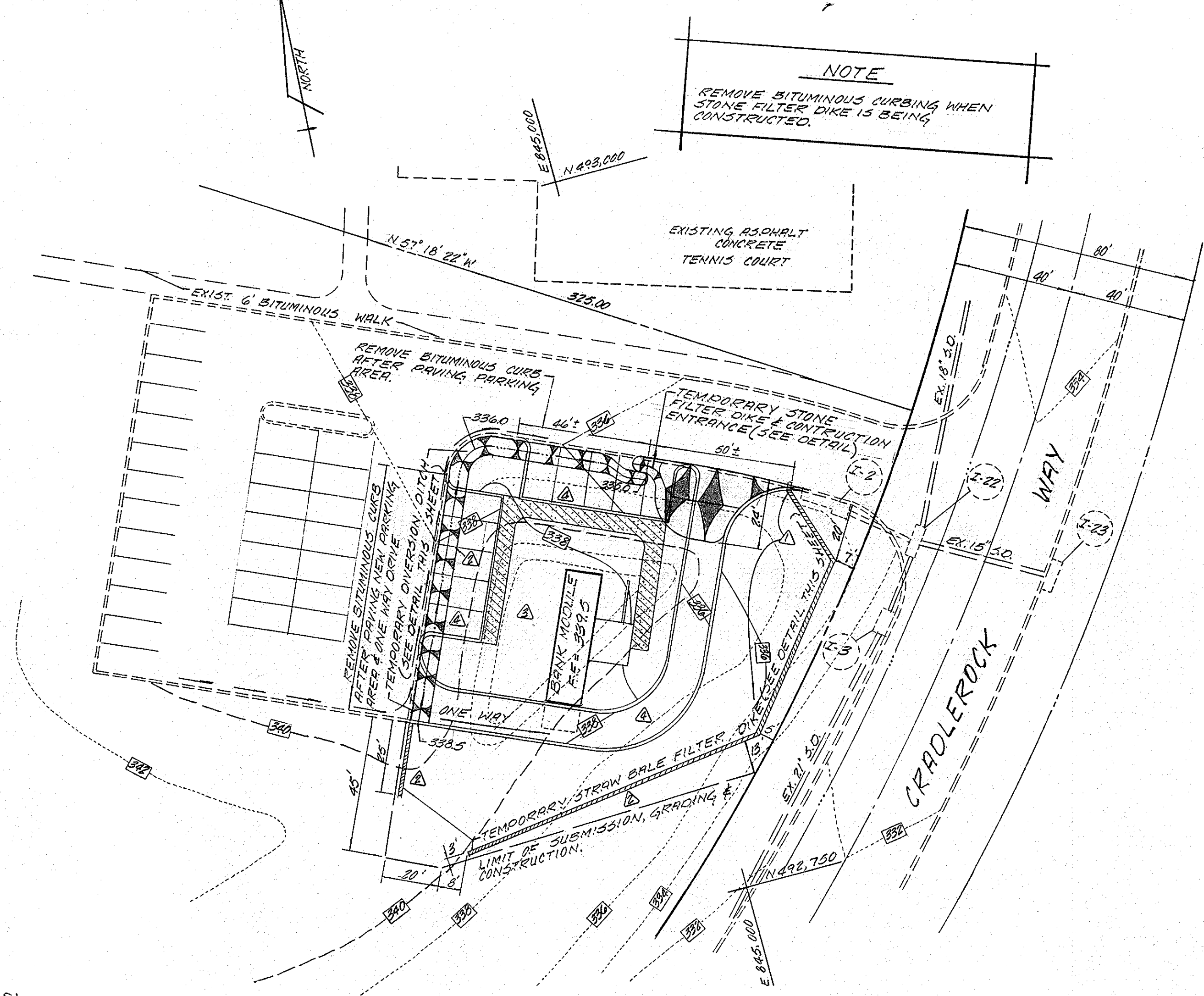
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS THEY DEEM NECESSARY. DEVIATION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

John F. Train
SIGNATURE OF DEVELOPER
Mar 14, 1975
DATE

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

James M. Fulk
SIGNATURE OF SURVEYOR
Sept 22, 1974
DATE



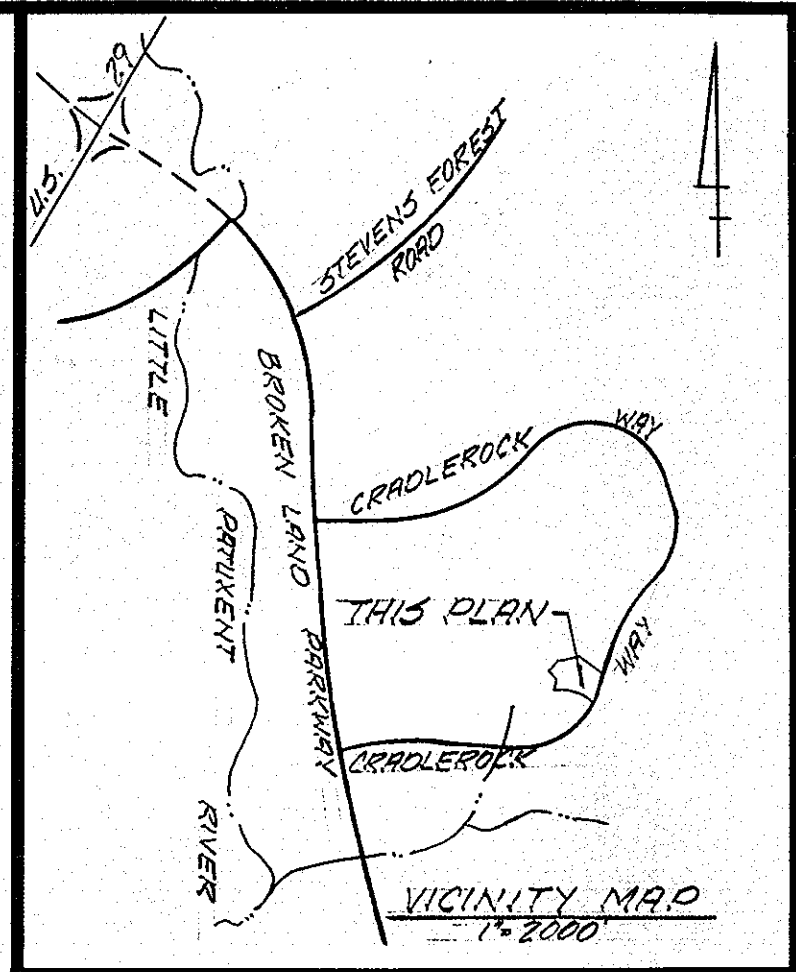
PLAN
SCALE: 1" = 30'

LEGEND

- 340 --- EXIST. GRADE AND/OR PROPOSED FINISHED GRADE PER S.D.P. 74-117C. SEE NOTE.
- 340 --- PROPOSED GRADE
- / --- EXIST. AND/OR PROPOSED FEATURES/STRUCTURES PER S.D.P. 74-117C. SEE NOTE.

NOTE: AS GRADING, PAVING & CONSTRUCTION IS PRESENTLY OCCURRING ON THIS SITE AS PER S.D.P. 74-117C (VILLAGE OF OWEN BROWN, SECTION 1, AREA 3, LOT 4) GRADES SHOWN THUSLY --- 340 ---, OR FEATURES/STRUCTURES SHOWN THUSLY --- / ---, SHOULD SUBSTANTIALLY REPRESENT THE TOPOGRAPHY OF THIS SITE PRIOR TO ANY GRADING, PAVING, AND/OR CONSTRUCTION PER THIS PLAN. FOR EXIST. TOPOGRAPHY AS OF SEPTEMBER 2, 1974. SEE SHEET 1.

TOTAL AREA OF PARCEL B = 9.959 AC.
TOTAL AREA LIMITS OF SUBMISSION = 0.362 AC.



SOIL EROSION AND SEDIMENT CONTROL NOTES

1. STRUCTURAL MEASURES SUCH AS BERMS, DIKES, TRAPS, BASINS, ETC., WILL BE INSTALLED AND STABILIZED ACCORDING TO THIS PLAN PRIOR TO ANY OTHER GRADING, CLEARING, OR DISTURBANCE OF THE EXISTING SURFACE ON THIS SITE.
2. ALL STRUCTURAL SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD SOIL CONSERVATION DISTRICT, PHONE 465-5100 OR 465-5000 EXTENSION 302.
3. NOTIFY THE HOWARD CONSERVATION DISTRICT AT LEAST 24 HOURS BEFORE STARTING ANY WORK, PHONE 465-5100 OR 465-5000.
4. DIKES WHEREVER SHOWN SHALL CONFORM TO THE U.S.C.D. S.D.P. AND SPECIFICATIONS NOS. 2000 TO 2400, AND AS DETAILED ON THESE PLANS.
5. CONSTRUCTED BERMS, DIKES, DAM, ETC., WILL BE CONFLICTED BY SEVERAL PASSES WITH THE CONSTRUCTION EQUIPMENT.
6. CONTINUED INSPECTION AND MAINTENANCE WILL BE THE RESPONSIBILITY OF THE DEVELOPER ON A DAY TO DAY BASIS.
7. SEED OR SOD ALL EXPOSED SOIL IN GRASS AREAS WITHIN 72 HOURS OF CUTTING OR FILLING TO FINISHED GRADE IN CONFORMANCE WITH U.S.C.D. STANDARDS AND SPECIFICATIONS AND THESE NOTES. LAY BASE COURSE IN PAVED AREAS OR PROTECT WITH BITUMINOUS MULCH OR OTHER METHODS APPROVED BY THE ENGINEER WITHIN 72 HOURS OF FINE GRADING.
8. TEMPORARY SEEDING:

GROUND LIMESTONE	2000 LBS./ACRE - WORK INTO TOP 3" OF SOIL
FERTILIZER	1000 LBS./ACRE - 5-10-10
MULCH	1500 LBS./ACRE - STRAW (WHEAT PREFERRED)
SEED	40 LBS./ACRE - RYE GRASS
BINDER	ASPHALT SPRAY @ RATE OF GAL. PER 100 SQ. FT.
ALTERNATE	HYDROSEED FERTILIZER, SEED & MULCH USING "TURFIDER" OR APPROVED EQUAL.
9. PERMANENT SEEDING:	
GROUND LIMESTONE	2000 LBS./ACRE - WORK INTO TOP 3" OF SOIL
FERTILIZER	1000 LBS./ACRE - 5-10-10
SEED	80% KENTUCKY 31 TALL FESCUE 15% MERION BLUEGRASS 5% RYE GRASS
SEEDING RATE	200 LBS./ACRE
BINDER	HYDROSEED FERTILIZER, SEED AND BINDER (TURFIDER OR EQUAL)
10. STEEP SLOPES:	
SAME AS TEMPORARY SEEDING EXCEPT ADD 15 LBS./ACRE CROWNFHAT TO RYE GRASS. IF HYDROSEED, APPLY FIBER MULCH AS SECOND STEP.	

SEQUENCE OF CONSTRUCTION

1. BRING THIS AREA TO GRADE AND CONSTRUCT AND MAINTAIN TEMPORARY STRAW BALE FILTER DIKE AS SHOWN ON PLAN AND DETAILS.
2. CONSTRUCT AND MAINTAIN OTHER TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN AND DETAILS.
3. BEGIN GRADING OF SITE AND BRING TO APPROXIMATE FINISHED GRADE IN AREAS THAT ARE NOT TO BE PAVED.
4. GRADE & PAVE PARKING AREAS AND ONE WAY DRIVE. REMOVE REMAINING BITUMINOUS CURBING AS SHOWN.
5. FINALIZE GRADING & STABILIZE ALL DISTURBED AREAS.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE APR. 2 1975
Thomas B. Harris

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

Adrian W.D.
COUNTY HEALTH OFFICER
6/11/75
DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James H. Harris
PLANNING DIRECTOR
6-12-75
DATE

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

J. P. Tolbert
DIRECTOR
6-9-75
DATE

D. M. McLeod
CHIEF BUREAU OF HIGHWAYS
6/5/75
DATE

REVIEWED HOWARD S.C.D.

AND MEETS TECHNICAL REQUIREMENTS

James M. Nelson
SIGNATURE
U.S. SOIL CONSERVATION SERVICE
6-3-75
DATE

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

APPROVED *Richard J. Nelson*
HOWARD S.C.D.
6-3-75
DATE

DEVELOPER
COLUMBIA BANK & TRUST COMPANY
COLUMBIA, MD. 21044

OWNER
HOWARD RESEARCH & DEVELOPMENT CORP.
COLUMBIA, MARYLAND 21044
PHONE: 301-730-7700

SOIL EROSION AND SEDIMENT CONTROL PLAN
PART OF PARCEL "B"
COLUMBIA
VILLAGE OF OWEN BROWN
SECTION 1, AREA 3, PLAT BOOK 27, FOLIO 80
6TH ELECTION DISTRICT, TAX PLATE 36, HOWARD COUNTY, MD.

DESIGNED J.M.S. DRAWN S.C.B.
CHECKED J.M.F. DATE 9-19-74
SCALE AS SHOWN JOB NO. 74-594-1
SHEET 3 OF 3

MACRIS-FOWLER ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS, SURVEYORS, PLANNERS
27 W. JEFFERSON ST. ROCKVILLE, MD. 20850
(301) 340-8705 (301) 762-3858