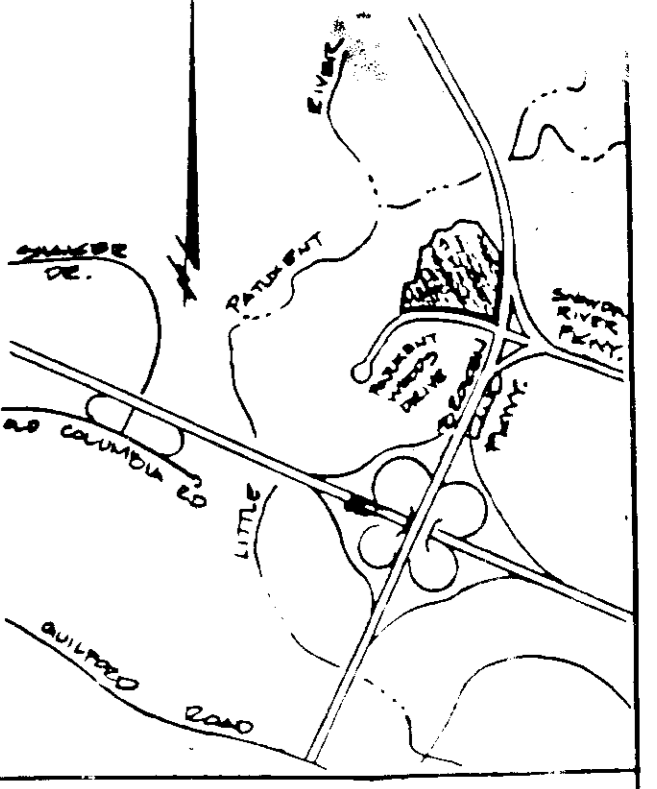






**SEQUENCE OF OPERATION**  
 NOTE THIS SITE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS FOR SDP 85-102 THRU OPERATION #8.  
 1. COMPLETE BUILDING CONSTRUCTION  
 2. COMPLETE VEGETATIVE STABILIZATION  
 3. COMPLETE PAVING  
 4. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES



**PERMITTING NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits for the start of any construction. (192-213)
- All vegetative and structural practices are to be installed according to the provisions of this plan and in accordance with the 1987 MARYLAND REGULATIONS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or re-disturbance, control of temporary stabilization shall be completed within 72 hours for all permanent erosion control structures, dikes, perimeter slopes and all less erodible than 3:1. It shall be on all other erodible or graded areas on the project site.
- All sediment traps/basins shown must be located and varying signs and arrows that indicate in accordance with MD 192-213, ART 15, OF THE HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All sediment control structures must be stabilized within the period specified above in accordance with the HOWARD COUNTY DESIGN MANUAL AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for permanent seedings (Sec. 31) and (Sec. 34), temporary seedings (Sec. 30) and (Sec. 32). Temporary stabilization with which alone can only be done when recommended seedings do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place until they are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

**Site Analysis:**  
 Total Area of Site: 14.62 Acres  
 Area to be graded: 2.25 Acres  
 Area to be vegetatively stabilized: 12.37 Acres  
 Total Area of Site: 14.62 Acres  
 Total Area of Site: 14.62 Acres

Any sediment control practice which is disturbed by paving activity for placement of utilities must be maintained on the same day of disturbance. If maintenance sediment controls must be provided, if necessary by the Howard County DPM sediment control inspector.

All sites with disturbed areas to exceed 2 acres, approval of the inspection agency shall be requested upon completion of stabilization of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other grading or grading inspection approvals may not be authorized until initial approval by the inspection agency is made.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent vegetative cover is needed.

**Site Preparation:** Loosen upper three inches of soil by raking, disking or other suitable means before seeding.

**Plantings:** In lieu of soil test recommendations, use one of the following schedules:  
 - **Preferred:** Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 100 lbs per acre 10-10-10 Fertilizer (14 lbs/1000 sq ft) before seeding. Arrow of disc into upper three inches of soil. At time of seeding, apply 400 lbs of urea 30-0-0 fertilizer (10 lbs/1000 sq ft) and 100 lbs of urea 30-0-0 fertilizer (10 lbs/1000 sq ft) before seeding. Arrow of disc into upper three inches of soil.  
 - **Acceptable:** Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 100 lbs per acre 10-10-10 Fertilizer (14 lbs/1000 sq ft) before seeding. Arrow of disc into upper three inches of soil.

**Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 15 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 30 lbs per acre of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 15 lbs per acre of weeping lovegrass (1.0 lbs/1000 sq ft). For the period October 16 thru February 28, seed with 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Seed with 10 lbs per acre of Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Seeding:** Apply 15 to 20 tons per acre (10 to 20 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (18 gal/1000 sq ft) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

**Site Preparation:** Loosen upper three inches of soil by raking, disking or other suitable means before seeding.

**Plantings:** Apply 400 lbs per acre 10-10-10 Fertilizer (14 lbs/1000 sq ft) before seeding.

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 15 lbs per acre of annual ryegrass (1.2 lbs/1000 sq ft). For the period May 1 thru July 31, seed with 30 lbs per acre of weeping lovegrass (1.0 lbs/1000 sq ft). For the period October 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use seed.

**Seeding:** Apply 15 to 20 tons per acre (10 to 20 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (18 gal/1000 sq ft) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

**HOWARD SOIL CONSERVATION DISTRICT**  
 THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Charles Ziehm* DATE: 4-16-86  
 HOWARD SOIL CONSERVATION DISTRICT

**REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS**  
 SIGNATURE: *James M. Hill* DATE: 4-16-86  
 THE UNITED STATES SOIL CONSERVATION SERVICE

**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS**  
 HOWARD COUNTY HEALTH DEPARTMENT  
 SIGNATURE: *James P. Lee* DATE: 4-17-86  
 COUNTY HEALTH OFFICER

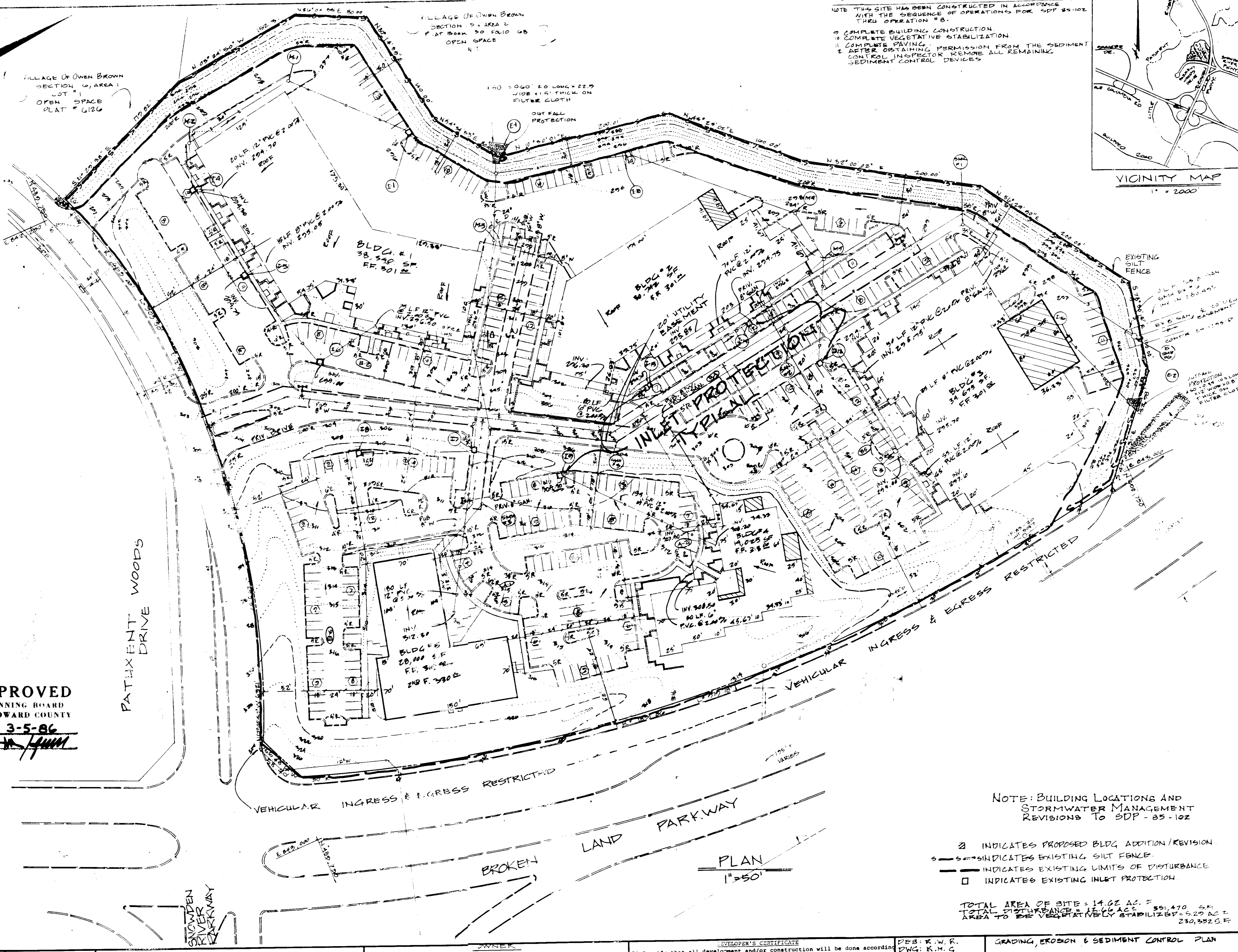
**REVIEWED HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
 SIGNATURE: *Thomas J. Agnew* DATE: 4-17-86  
 PLANNING OFFICER

**REVIEWED FOR DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION**  
 SIGNATURE: *John W. Marshall* DATE: 4-17-86  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM SEWERAGE SYSTEMS AND PUBLIC ROADS**  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 SIGNATURE: *Walter Nimm* DATE: 4-17-86  
 DIRECTOR

**REVIEWED FOR DIVISION OF ENGINEERING & SURVEYING**  
 SIGNATURE: *Michael P. Kelly* DATE: 4-17-86  
 CHIEF BUREAU OF ENGINEERING & SURVEYING

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 3-5-86  
*[Signature]*

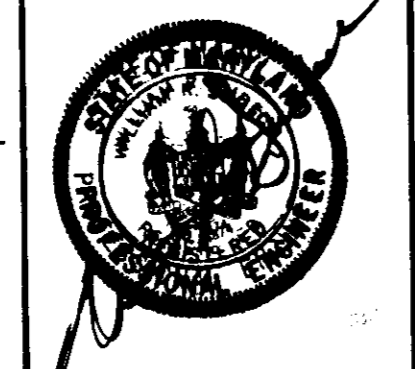


**NOTE: BUILDING LOCATIONS AND STORMWATER MANAGEMENT REVISIONS TO SDP-85-102**

2 INDICATES PROPOSED BLDG ADDITION/REVISION  
 S-S-S INDICATES EXISTING SILT FENCE  
 --- INDICATES EXISTING LIMITS OF DISTURBANCE  
 □ INDICATES EXISTING INLET PROTECTION

TOTAL AREA OF SITE = 14.62 AC. ±  
 TOTAL DISTURBANCE = 2.25 AC. ±  
 AREA TO BE VEGETATIVELY STABILIZED = 5.29 AC. ±  
 230,352 S.F.

**WRS**  
 WILLIAM R. SUDECK & ASSOCIATES, INC.  
 Consulting Engineers & Land Surveyors  
 112 South Main Street • Bel Air, Maryland 21014  
 301-879-4353 301-838-5833



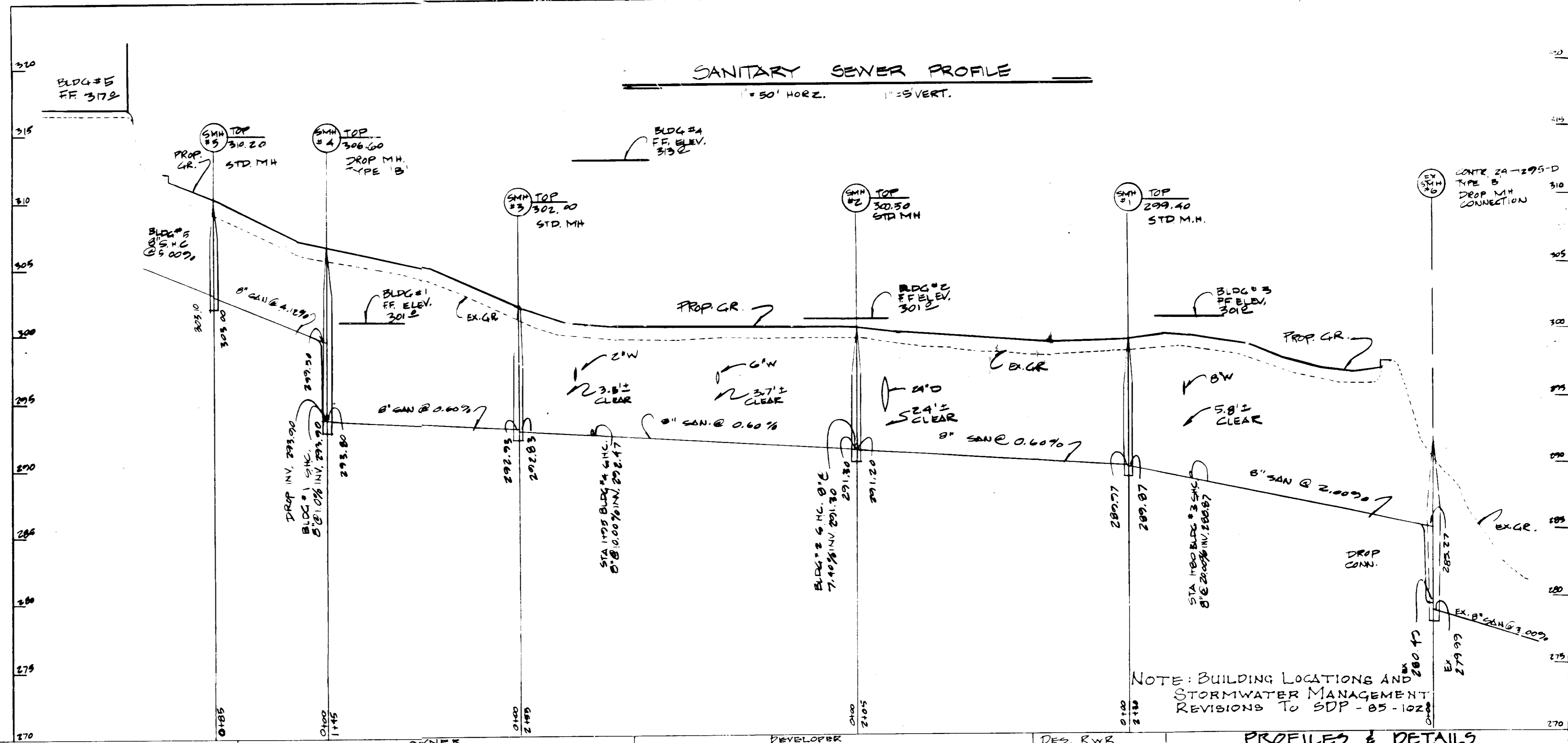
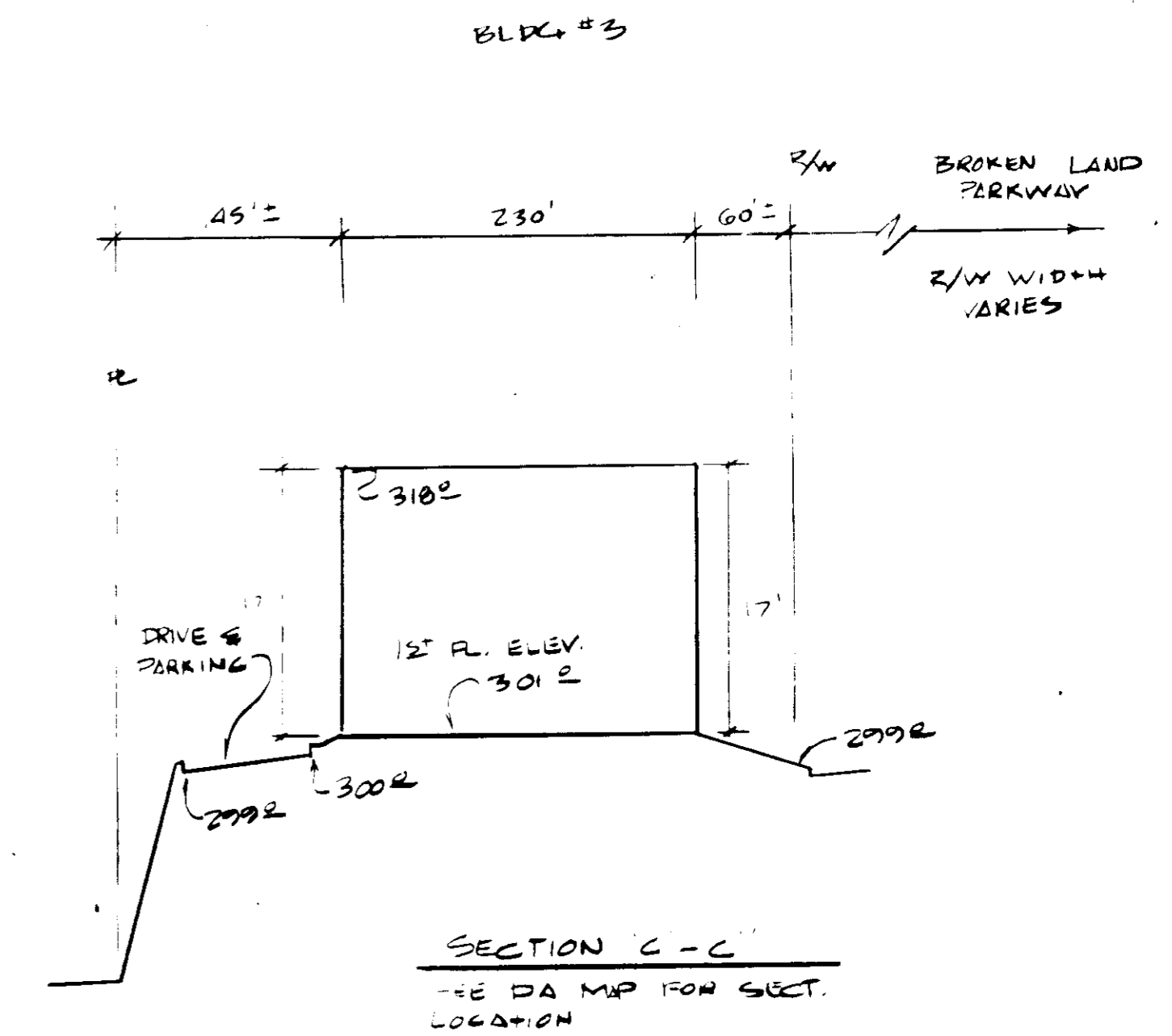
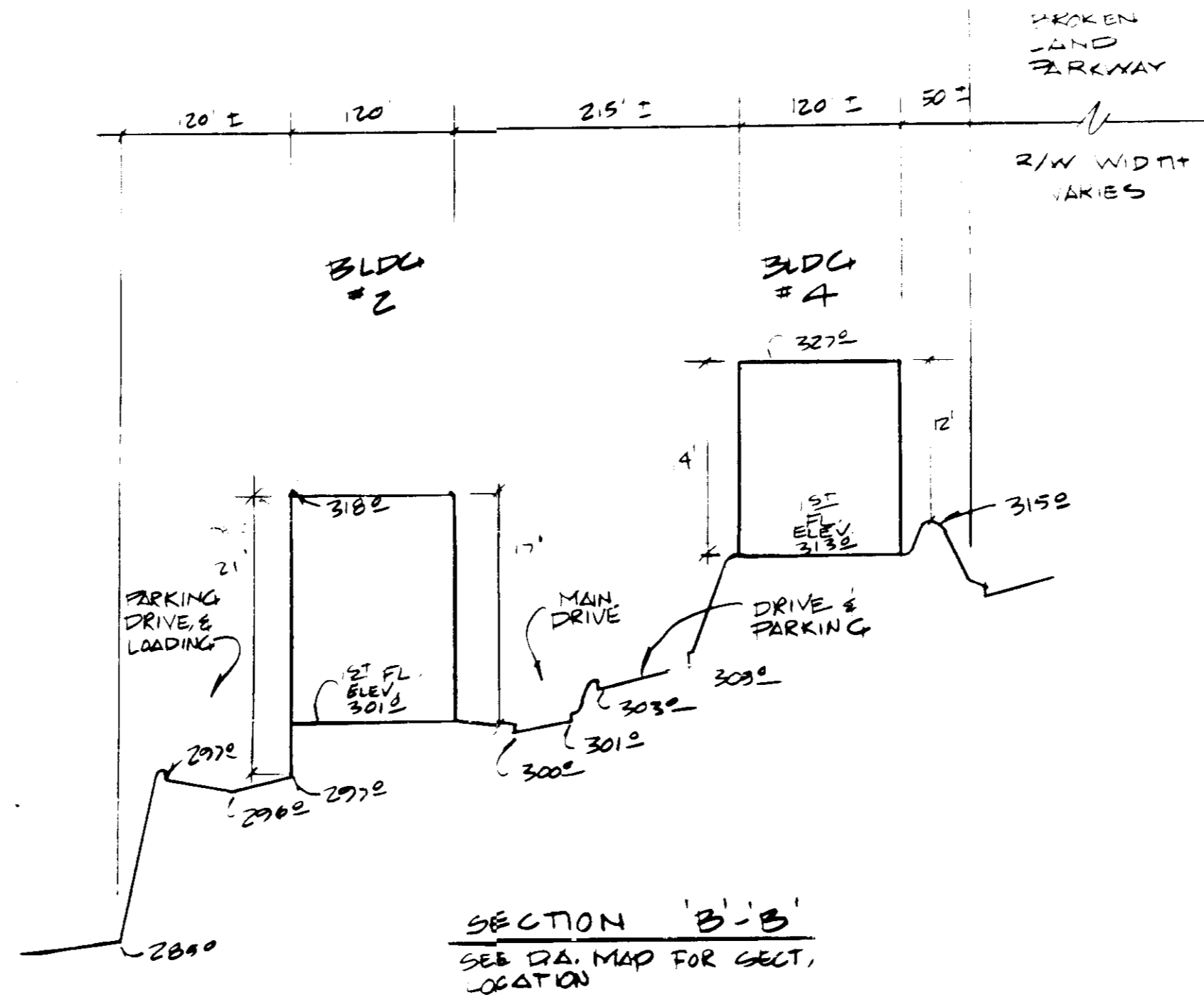
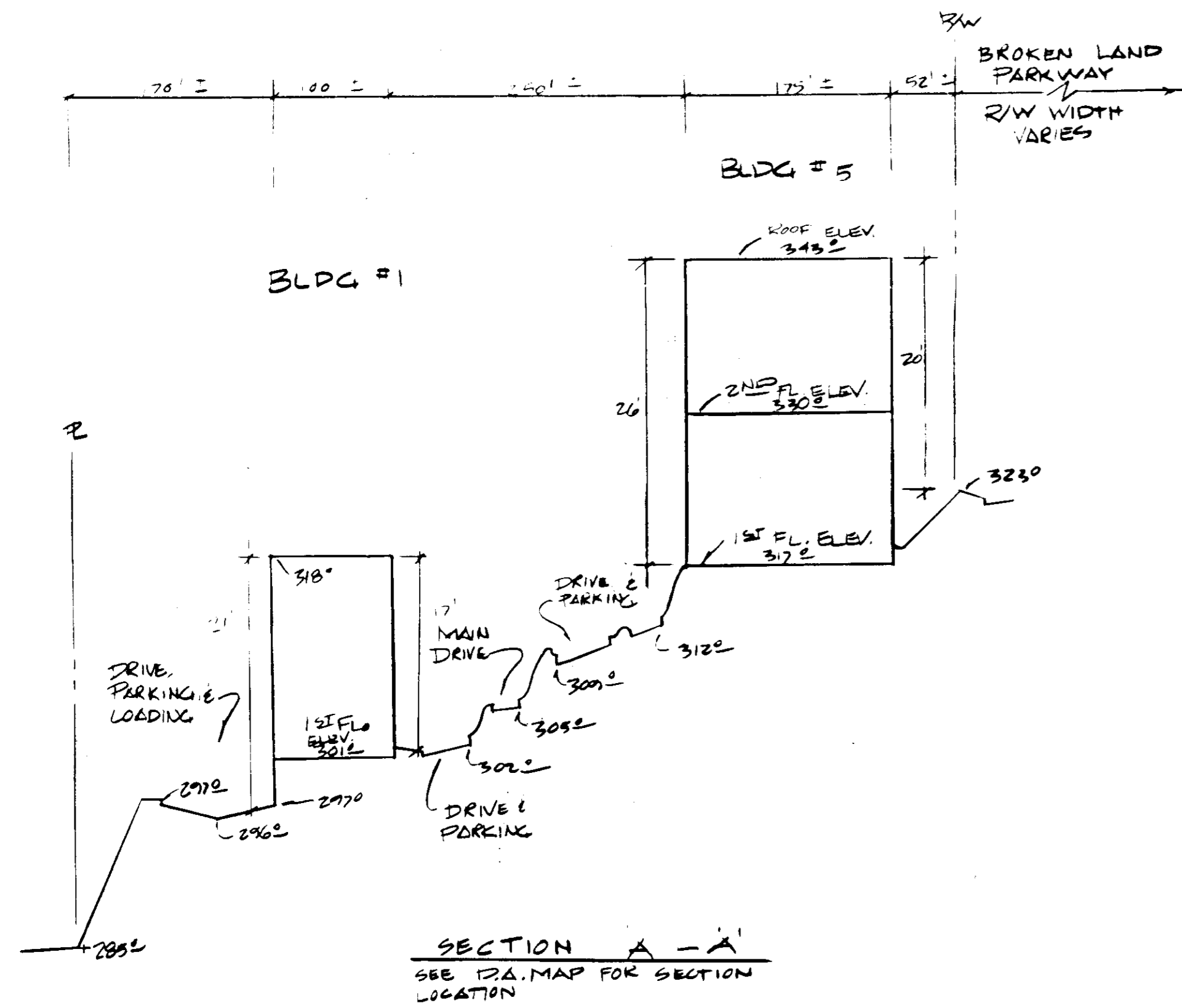
**ENGINEER'S CERTIFICATE**  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Signature of Engineer: *William R. Sudeck* Reg. No. 4874 Date: 1/15/86

**THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION**  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND, 21044  
 202-600-0005  
 DEVELOPER / CONTRACT PURCHASER  
 MANEIKIN CORPORATION  
 RIVERS CENTER  
 0970 OLD COLUMBIA ROAD  
 COLUMBIA, MARYLAND 21046  
 703-1610

**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 erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.  
 Signature of Developer: *Don [Signature]* Date: 3/1/86

**GRADING, EROSION & SEDIMENT CONTROL PLAN**  
 FOR  
 PROPOSED OFFICES FOR RESEARCH & DEVELOPMENT  
 VILLAGE OF OWEN BROWN  
 SECTION 6 AREA 1 PARCEL 10  
 COLUMBIA  
 HOWARD CO., MD.  
 SCALE: AS SHOWN  
 ELECT. DIST. # 6  
 DATE: DEC. 1, 1984  
 REV. 1/15/86  
 SDP-86-152





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

APPROVED: *Robert J. Zelen* DATE: 4-16-86  
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: *James M. Niles* DATE: 4-16-86  
THE UNITED STATES SOIL CONSERVATION SERVICE

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

*James M. Niles* 4-17-86  
COUNTY HEALTH OFFICER

APPROVED: *Thomas M. Niles* 4-17-86  
PLANNING DIRECTOR

*James M. Niles* 4-17-86  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

*William R. Sudeck* 4-17-86  
DIRECTOR

*William R. Sudeck* 4-17-86  
CHIEF BUREAU OF ENGINEERING

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 3-5-86  
*William R. Sudeck*

**WRS**  
WILLIAM R. SUDECK & ASSOCIATES, INC.  
Consulting Engineers & Land Surveyors  
112 South Main Street • Bel Air, Maryland 21014  
301-879-4353 301-838-3833



ENGINEER  
*William R. Sudeck* 4874  
WILLIAM R. SUDECK P.E.C.E.N.  
DATE

OWNER  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10215 LITTLE PATRICK PARKWAY  
COLUMBIA, MARYLAND, 21044  
902-0005

DEVELOPER / CONTRACT PURCHASER  
MANEKIN CORPORATION  
RIVERS CENTER  
10510 OLD COLUMBIA ROAD  
COLUMBIA, MD. 21046  
DEVELOPER

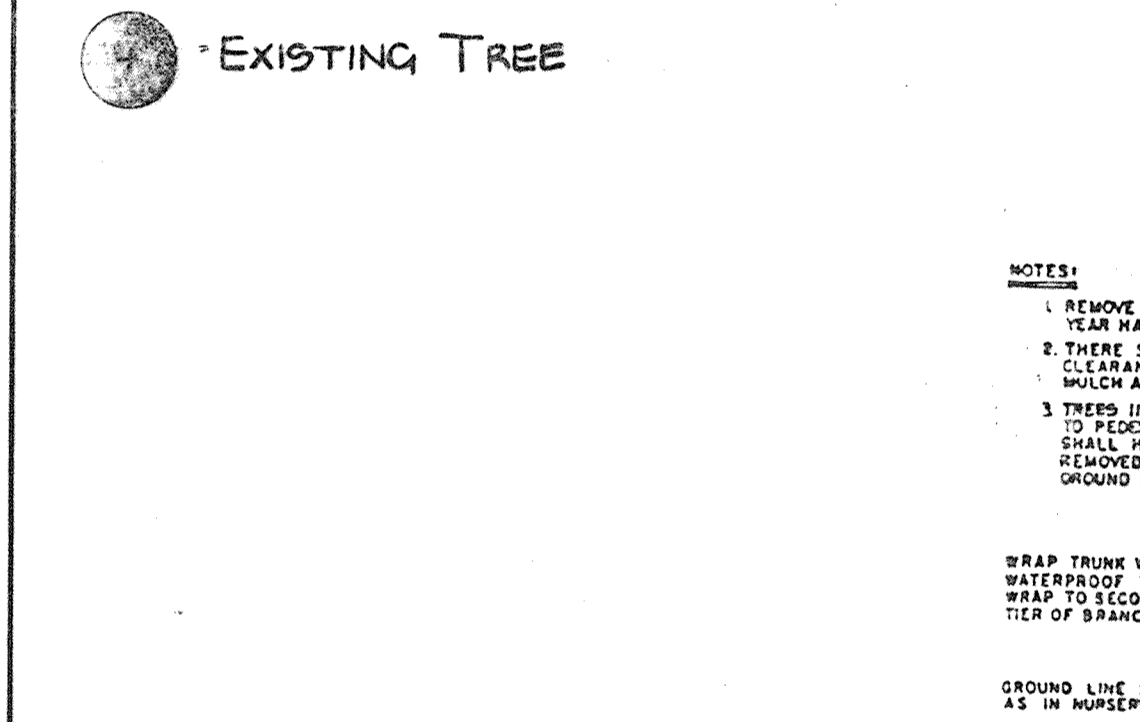
DES. RWR  
DWG. KMG  
CHK. RWR

*James M. Niles* 3/1/86  
DATE

**PROFILES & DETAILS**  
FOR  
PROPOSED OFFICES FOR RESEARCH & DEVELOPMENT  
VILLAGE OF OWEN CROWN  
SECTION G AREA 1 PARCEL C  
COLUMBIA  
HOWARD CO., MD. ELECT. DIST. # G  
SCALE AS SHOWN DATE

SDP-86-152

| KEY                    | APPROX. QUANT. | COMMON NAME                 | SIZE      | COMPL. REMARKS |
|------------------------|----------------|-----------------------------|-----------|----------------|
| <b>SHADE TREES</b>     |                |                             |           |                |
| 1-1                    | 10             | ACER SACCHARINUM            | 2'-2 1/2" |                |
| 1-2                    | 4              | CERATOPHYLLUM LAPONICUM     | 2'-3"     |                |
| 1-3                    | 26             | PLATANUS ACERIFOLIA         | 2'-3"     |                |
| 1-4                    | 12             | QUERCUS ACUTIFOLIA          | 2'-3"     |                |
| 1-5                    | 25             | QUERCUS PHellos             | 2'-3"     |                |
| 1-6                    | 14             | ZELKOVA SERRATA             | 2'-3"     |                |
| <b>FLOWERING TREES</b> |                |                             |           |                |
| F-1                    | 14             | CRATAEGUS CRUGGALLI         | 2'-2 1/2" |                |
| F-2                    | 14             | CRATAEGUS KOUZEA            | 2'-2 1/2" |                |
| F-3                    | 11             | KOELREUTERIA PANICULATA     | 2'-2 1/2" |                |
| F-4                    | 23             | MALUS HIPHENSIIS            | 2'-2 1/2" |                |
| F-5                    | 20             | PRUNUS SUDHIRTHELLA PENDULA | 2'-2 1/2" |                |
| F-6                    | 14             | PRUNUS YEDDONSIS            | 2'-2 1/2" |                |
| <b>EVERGREEN TREES</b> |                |                             |           |                |
| E-1                    | 10             | CEDRUS ATLANTICUS           | 8'-10"    |                |
| E-2                    | 0              | CHAMAECYPARIS OBUSA         | 5'-6"     |                |
| E-3                    | 0              | GRYTOPHORIA JAPONICA        | 5'-6"     |                |
| E-4                    | 50             | PILEA ARIENS                | 0-8"      |                |
| E-5                    | 73             | PINUS STROBUS               | 0-8"      |                |
| E-6                    | 74             | PINUS THUNBERGII            | 0-8"      |                |
| E-7                    | 14             | ILEX OPACA                  | 5'-6"     |                |



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

APPROVED: *Robert W. Zieher* DATE: 4-16-86  
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: *John M. Zieher* DATE: 4-16-86  
THE UNITED STATES SOIL CONSERVATION SERVICE

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

*John M. Zieher* DATE: 4-17-86  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

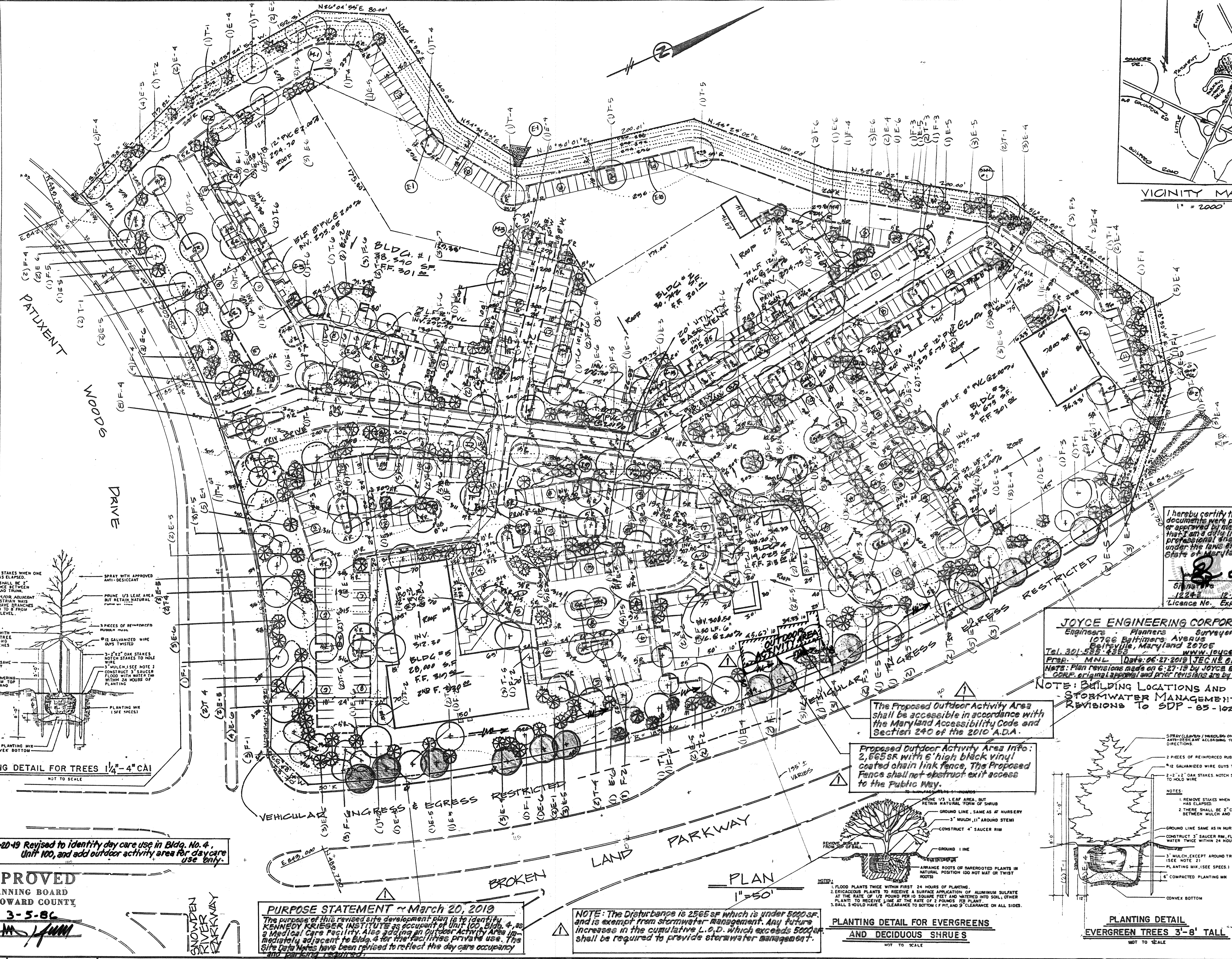
*John M. Zieher* DATE: 4-17-86  
PLANNING DIRECTOR

*John M. Zieher* DATE: 4-17-86  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

*John M. Zieher* DATE: 4-17-86  
DIRECTOR

*John M. Zieher* DATE: 4-17-86  
CHIEF BUREAU OF ENGINEERING

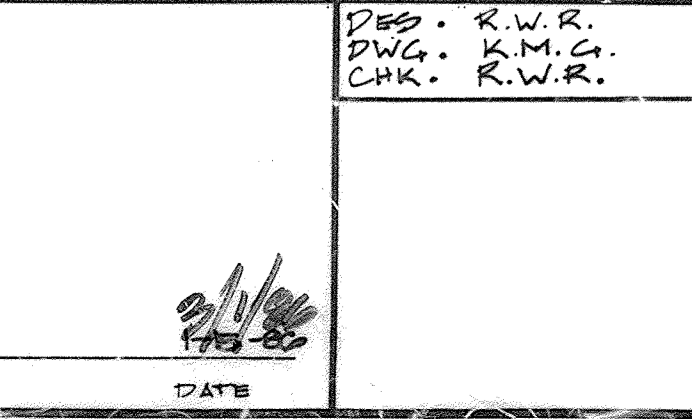


**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: 3-5-86

*William R. Sudeck* 4874 REG. NO. DATE

**PURPOSE STATEMENT ~ March 20, 2019**  
The purpose of this revised site development plan is to identify KENNEDY KRIEGER INSTITUTE as occupant of Unit 100, Bldg. 4, as a Medical Care Facility. Also adding an outdoor activity area immediately adjacent to Bldg. 4 for the facility's private use. This Site Data Notes have been revised to reflect the day care occupancy and parking required.

**NOTE: The Disturbance is 2565 SF which is under 5000 SF and is exempt from stormwater management. Any future increases in the cumulative L.O.D. which exceeds 5000 SF shall be required to provide stormwater management.**



**LANDSCAPE PLAN FOR PROPOSED OFFICES FOR RESEARCH & DEVELOPMENT VILLAGE OF OWEN BRYAN SECTION G AREA 1 PARCEL B COLUMBIA**

HOWARD CO., MD. SCALE: AS SHOWN

ELECT. DIST. # 0  
DATE: DEC. 1, 1986  
REV: DEC. 1, 1986

**WRS WILLIAM R. SUDECK & ASSOCIATES, INC.**  
Consulting Engineers & Land Surveyors  
112 South Main Street • Bel Air, Maryland 21014  
301-879-4353 301-838-5833

**ENGINEER**  
*William R. Sudeck* 4874 REG. NO. DATE

**OWNER**  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10715 LITTLE PATIENT PARKWAY  
COLUMBIA, MARYLAND, 21044  
202-600-0033

**DEVELOPER / CONTRACT PURCHASER**  
MANEKIN CORPORATION  
RIVERS CENTER  
1020 OLD COLUMBIA ROAD  
COLUMBIA, MD. 21046  
202-600-1610

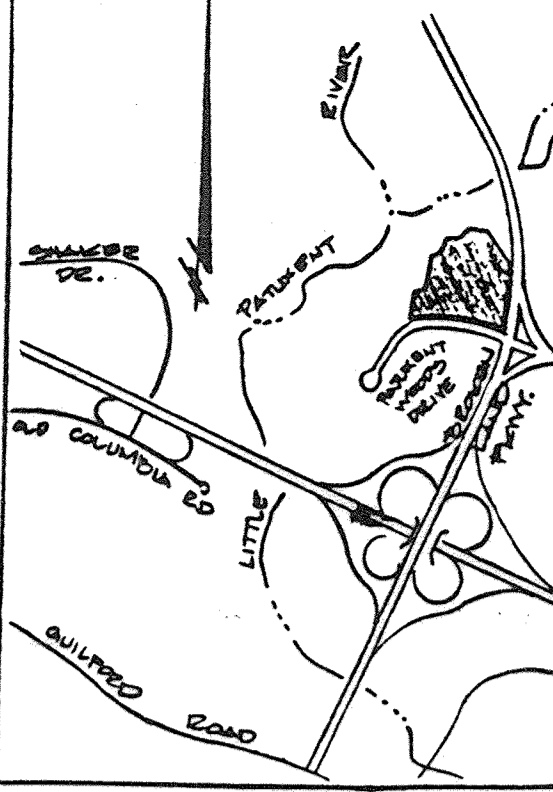
**DEVELOPER**  
*Donald Mankin*  
DONALD MANKIN

**DES. R.W.R. DWG. S.M.G. CHK. R.W.R.**

**LANDSCAPE PLAN FOR PROPOSED OFFICES FOR RESEARCH & DEVELOPMENT VILLAGE OF OWEN BRYAN SECTION G AREA 1 PARCEL B COLUMBIA**

HOWARD CO., MD. SCALE: AS SHOWN

ELECT. DIST. # 0  
DATE: DEC. 1, 1986  
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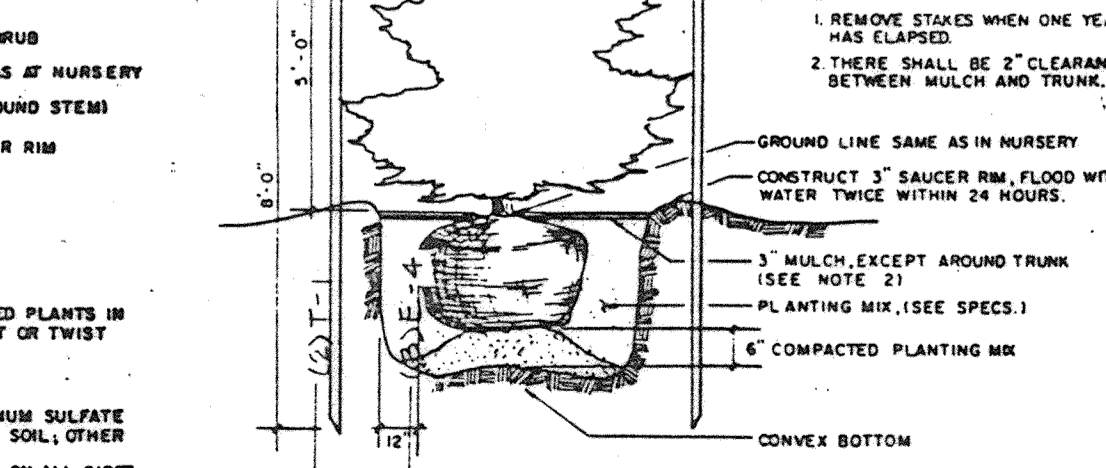
I hereby certify that the documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland.

*John M. Zieher* 67010  
67010  
12243 12-17-2020  
Licence No. Exp. 08/24

**JOYCE ENGINEERING CORPORATION**  
Engineers Planners Surveyors  
10766 Baltimore Avenue  
Bethesda, Maryland 20706  
Tel. 301-585-4353 www.joyceeng.com  
Pres. MNL Date: 06-27-2019 JEC No. 019-001  
Notes: Plan revisions made on 6-27-19 by JOYCE ENG. CORP. original approval and prior revisions are by others.

**NOTE: BUILDING LOCATIONS AND STORMWATER MANAGEMENT REVISIONS TO SDP-86-102**

The Proposed Outdoor Activity Area shall be accessible in accordance with the Maryland Accessibility Code and Section 240 of the 2010 A.D.A.



**LANDSCAPE PLAN FOR PROPOSED OFFICES FOR RESEARCH & DEVELOPMENT VILLAGE OF OWEN BRYAN SECTION G AREA 1 PARCEL B COLUMBIA**

HOWARD CO., MD. SCALE: AS SHOWN

ELECT. DIST. # 0  
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