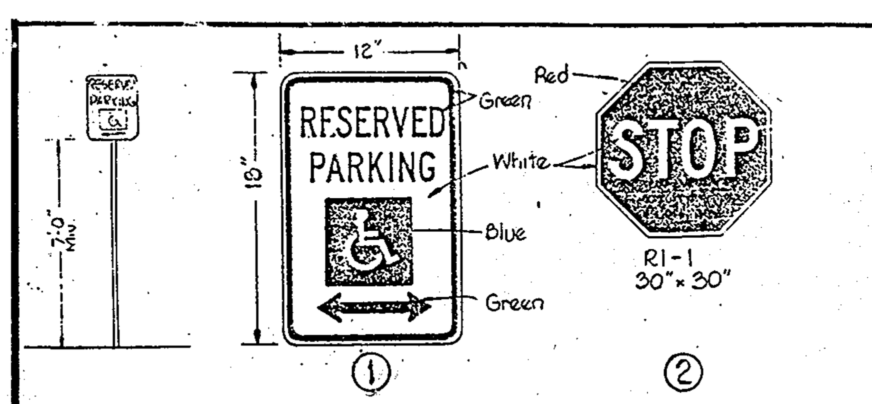
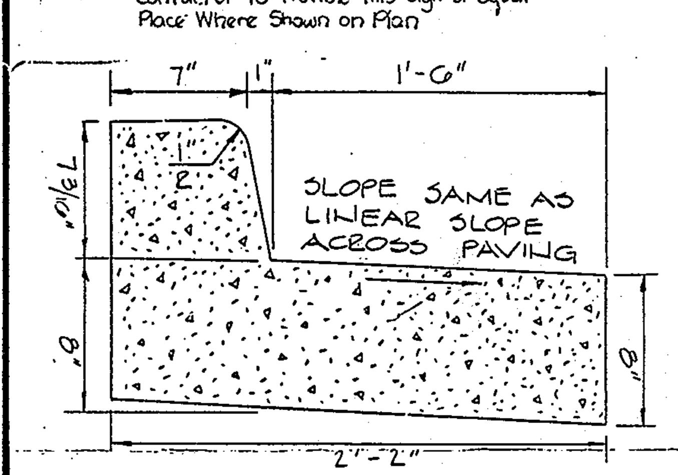


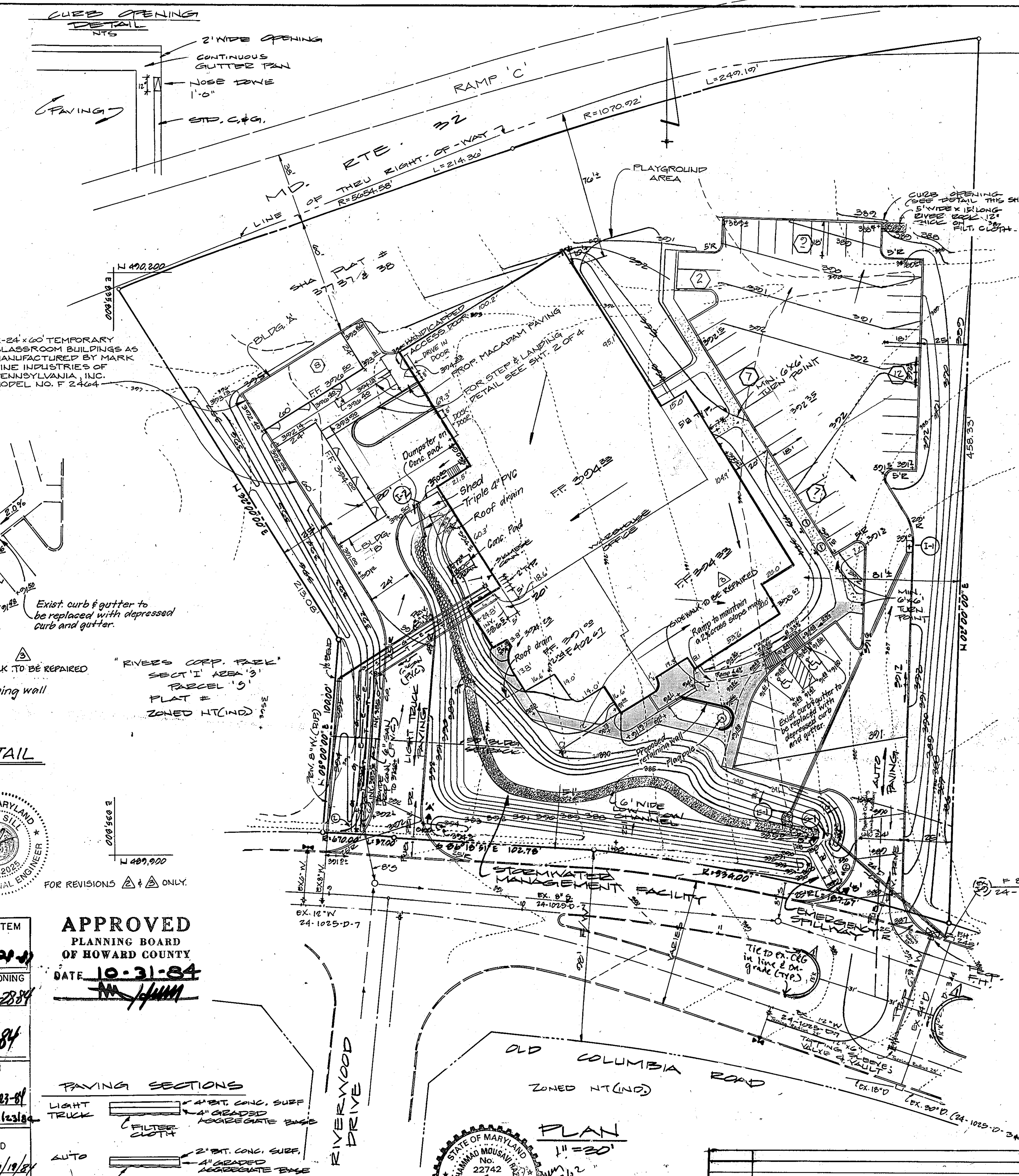

NOTE: Provide 1 Sign For Each Hdcp. Space Contactor to Provide This Sign or Equal Place Where Shown on Plan



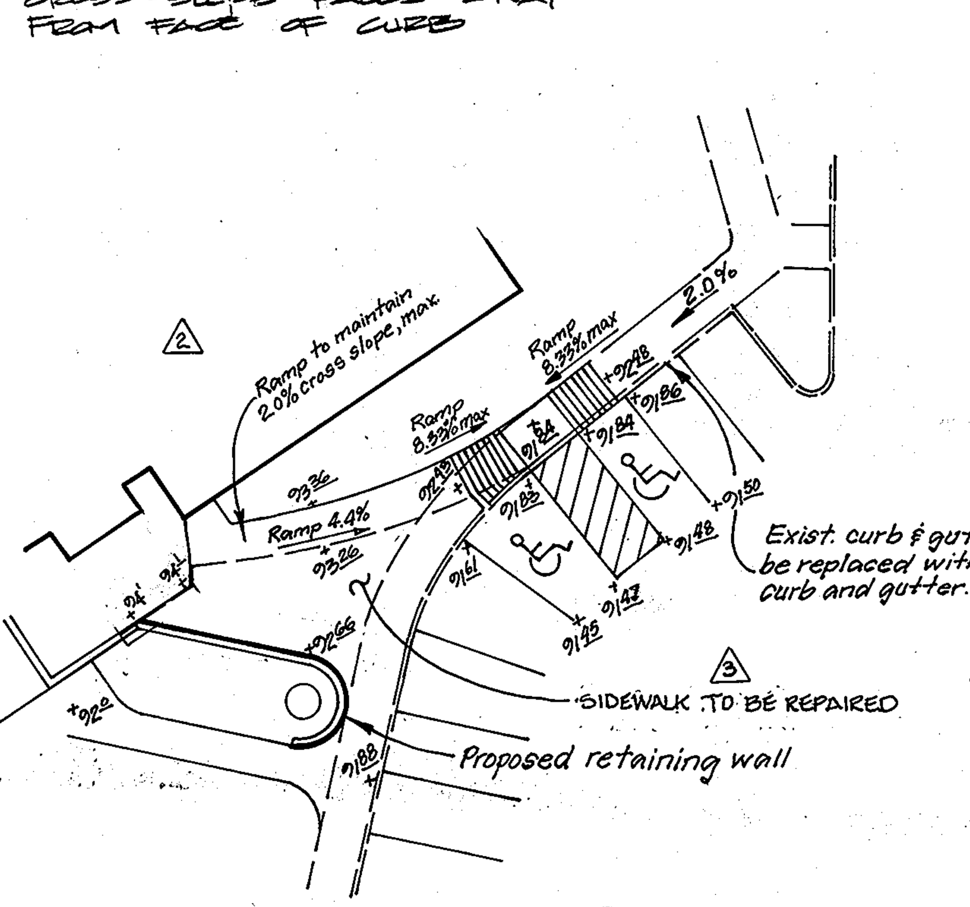

REVERSE SLOPE CURB & GUTTER

NO SCALE

NOTE: TO BE USED WHERE PAVEMENT CROSS-SLOPE FALLS AWAY FROM FACE OF CURB




2-24' x 60' TEMPORARY CLASSROOM BUILDINGS AS MANUFACTURED BY MARK LINE INDUSTRIES OF PENNSYLVANIA, INC. MODEL NO. F 2464




SIDEWALK DETAIL

Scale: 1"=20'

"RIVERS CORP. PARK"
SECT 'I' AREA '3'
PARCEL '5'
PLAT #
ZONED NT(IND)

"RIVERS CORP PARK"
SECT I AREA 3
PARCEL 'Q'
PLAT #
ZONED N.T.(IND)

PLAN

1" = 30'

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER

FOR REVISIONS ② & ③ ONLY.

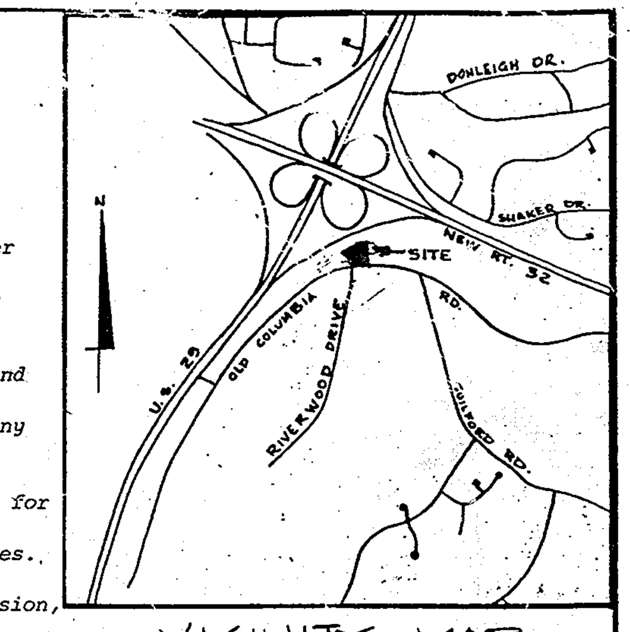
STATE OF MARYLAND MOHAMMAD MOUSAVI RAZAVI No. 22742 REGISTERED PROFESSIONAL ENGINEER

12/17/02

For Revision ① only, Provide Median Break to Site

SITE PLAN
GENERAL NOTES

1. Maximum building height = 50'.
2. All areas not being paved or receiving building coverage shall be stabilized in accordance with the plans approved by the Howard Soil Conservation District.
3. Any damage to public rights-of-way and/or adjacent properties shall be repaired immediately at the contractor's expense.
4. The contractor shall maintain at least a 2' level bench behind all curb and gutter in fill areas.
5. The contractor shall verify all existing utilities to his own satisfaction before starting construction.
6. All slopes shall be 2:1 or flatter.
7. All work shall be done in accordance with Howard County Standard Specifications and Details for Construction, or as shown on these plans.
8. The contractor shall notify the C & P Telephone Co. and the Gas and Electric Company five days prior to starting work shown on these plans by calling "Miss Utility". Call collect 1-559-0100.
9. For details of ramps and signs for the handicapped see the Maryland Building Code for the Handicapped and Aged and as shown hereon.
10. The contractor shall maintain a minimum of 3.5' cover over all proposed water lines.
11. All rip-rap shall be placed on filter cloth.
12. The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hours in advance of commencement of work at 992-2417 or 792-7272.
13. The contractor shall remove all existing paving, curb and gutter, etc. that may interfere with proposed construction.
14. All utilities installed shall receive full trench compaction.
15. All water main tees, bends, caps, etc. shall be buttressed in accordance with Howard County Design requirements.




VICINITY MAP

1" = 2000'

## LEGEND

- ····· 372 ····· Indicates Exist. Contours
- —— 372 —— Indicates Prop. Contours
- Indicates Exist. Curb & Gutter
- Indicates Prop. Curb & Gutter
- Indicates Prop. Paving
- Indicates Prop. Conc. Walks (6' Wide x 4" Thick; Mix #2 Conc., H.C. Std. R-3.05)
- ① Indicates Sign (See Detail This Sheet)
- ① Indicates Number of Parking Spaces
- ♿ Indicates Parking Space Reserved For The Handicapped
- SIDEWALK TO BE REPAIRED ③

AS BUILT LOCATION OF THE BUILDING HAS BEEN FURNISHED VTA ASSOCIATES, INC
4932 HAZELWOOD AVE
BALTO., MD 21206
(301) 866-2001

## SITE DATA

AREA OF SITE = 3.150 Ac±

TOTAL FLOOR AREA = 30,500 S.F.

PARKING REQ'D 270 STUDENTS @ 1 SP/6 STUDENTS = 45

PARKING PROV'D = 45 P.S.
(43 @ 9' x 18' w/2' OVERHANG
2 @ 12' x 18' w/2' OVERHANG FOR HANDICAPPED)

FLOOR AREA TO SITE RATIO = 0.84/2.51 = 33.5%

PROPERTY REFERENCE; PLAT ENTITLED "RIVERS CORPORATE PARK" SECT 1 AREA 3 PARCEL 'R' PLAT #

EXISTING ZONING = N.T. (INDUSTRIAL) "F.D.P. 184-A-I"

EX. USE = VACANT

PROP. USE = PRIVATE ACADEMIC ELEMENTARY SCHOOL

AREA TO BE VEGETATIVELY STABILIZED / % OPEN SPACE
35,400 SF = 32.4%

BUILDING COVERAGE = 25,700 SF; 23.6% OF SITE

### STORMWATER MANAGEMENT DATA

| | |
|---|---|
| DRAINAGE AREA | 1.65 Ac± |
| SOIL GROUP | C |
| EXISTING RCN | 74 |
| PROPOSED RCN | 80 |
| AREA LEAVING UNCONTROLLED | 0.86 Ac± |

### ALLOWABLE RELEASE RATE

2 YR. = 3.49 - 2.26 (area leaving uncontrolled) = 1.23 c.f.s.
10 YR. = 8.22 - 4.44 (area leaving uncontrolled) = 3.78 c.f.s.
100 YR. = 14.19 - 6.99 (area leaving uncontrolled) = 7.20 c.f.s.

### PROPOSED FLOWS

| | AFTER MANAGED | BEFORE MANAGEMENT |
|---|---|---|
| * 2 YR. | 0.9 c.f.s. | 5.11 c.f.s. |
| * 10 YR. | 1.55 c.f.s. | 9.52 c.f.s. |
| 100 YR. | 4.33 c.f.s. | 14.5 c.f.s. |

*2 & 10 YR MANAGEMENT REQ'D.; 2, 10, 100 YR PROV'D.

### STORAGE

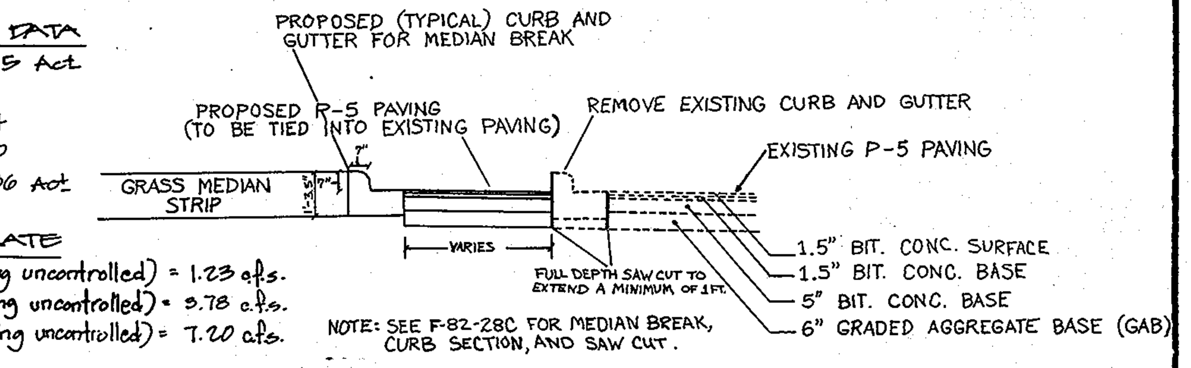
2 YR. Storage Req'd/Prov'd. ····· 8150 C.F.
10 YR Storage Req'd/Prov'd. ····· 10 600 C.F.
100 YR Storage Prov'd. ········ 14 300 C.F.

### STRUCTURAL CLASSIFICATION

Structure Class ···· A
Storage Height Product ···· 4 ft. x 0.348 Ac.Ft. = 1.39 Ac.Ft.²
Watershed Area = 1.65 Ac±

### HYDROLOGIC CRITERIA

Principal Spillway Routing --- 100 YR
Freeboard: Above 100 YR. W.S. ELEV. of 388.87 = 1.13 ft.
Above E.S. CREST ELEV. of 389.00 = 1.0 ft.




NOTE: SEE F-82-28C FOR MEDIAN BREAK, CURB SECTION, AND SAW CUT.

① ROAD AND CURB PROFILE

NOT TO SCALE

### PAVING SECTIONS

LIGHT TRUCK: 4" BIT. CONC. SURF; 4" GRADED AGGREGATE BASE; FILTER CLOTH

AUTO: 2" BIT. CONC. SURF.; 4" GRADED AGGREGATE BASE; FILTER CLOTH

THESE PAVING SECTIONS ARE AS RECOMMENDED BY THE SOILS ENGINEER

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER [signature] DATE: 11-28-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR [signature] DATE: 11-28-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [signature] DATE: 11-28-84

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [signature] DATE: 11-23-84
CHIEF, BUREAU OF ENGINEERING: [signature] DATE: 11/23/84

HOWARD SOIL CONSERVATION DISTRICT
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT: [signature] DATE: 11/19/84
APPROVED: HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
SIGNATURE: [signature] DATE 11-19-84
THE UNITED STATES SOIL CONSERVATION SERVICE

| NO. | REVISION | DATE |
|---|---|---|
| ③ | REVISED SIDEWALK TO SHOW REPAIR AREAS. | 10.30.10 |
| ② | Revised plan per as-built conditions. Revised sidewalk. | 7-29-10 |
| ① | ADD MEDIAN BREAK | 12.17.02 |

### ADDRESS CHART

| PARCEL NUMBER | STREET ADDRESS |
|---|---|
| 'R' | 10350 OLD COLUMBIA ROAD |

| SUBDIVISION NAME | SECT./AREA | LOT/PARCEL # |
|---|---|---|
| RIVERS CORPORATE PARK | 1/3 | PARCEL 'R' |

| PLAT # OR L/F | BLOCK # | ZONE | TAX/ZONE MAP | ELECT DIST | CENSUS TRACT |
|---|---|---|---|---|---|
| 5919 | 1 | N.T. INDUST | 42 | # 6 | 6061.02 |

| WATER CODE | SEWER CODE |
|---|---|
| | |

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204
(301) 825-8120

STATE OF MARYLAND TAPOBRATA CHAKRABARTI NO 8930 REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, 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] 8930 9/7/84
Signature of Engineer Reg. No. Date

OWNER
G.M. RIVERS PROJECT PARTNERSHIP
JOHN MAKTOS & MARK GALLO
c/o
AZTEC ELECTRONICS
# 9040 RTE. 108
COLUMBIA, MD 21045

DEVELOPER
M.O.R. XXIX PARTNERSHIP
8325 GUILFORD RD.
COLUMBIA, MD. 21046
995-1670

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 and 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] 8/29/84
Signature of Developer Date

DES: R.W.R.
DWG. D.E.R.
CHK. R.W.R./T.C.
REVISIONS
7/7/86 BUILDING SETBACK CHANGED FROM 10' TO 2'± (AS-BUILT)
8/22/04 ADDED 2 TEMP. BLDGS.; REV. USE & PARKING; ADD PLAYGROUND AREA; REVISE PROPERTY LINE

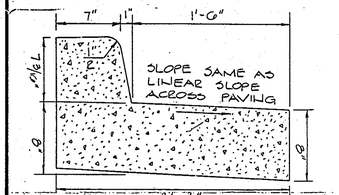
SITE PLAN
FOR
PROPOSED OFFICE & WAREHOUSE
RIVERS CORPORATE PARK
SECT. 1 AREA 3 PARC. 'R'
COLUMBIA

HOWARD CO., MD
SCALE: 1" = 30'
P.N. 5048

ELECT. DIST. # 6
AUGUST 31 1984
SHT # 1 OF 4

SDP 85-47c

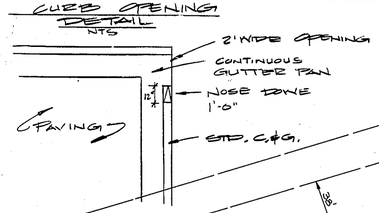
NOTE: Provide 1 Sign For Each Hdcp. Space. Contractor to Provide This Sign or Equal Place Where Shown on Plan

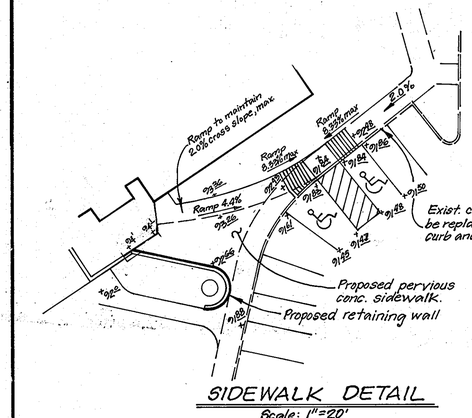



REVERSE SLOPE CURB & GUTTER

NO SCALE

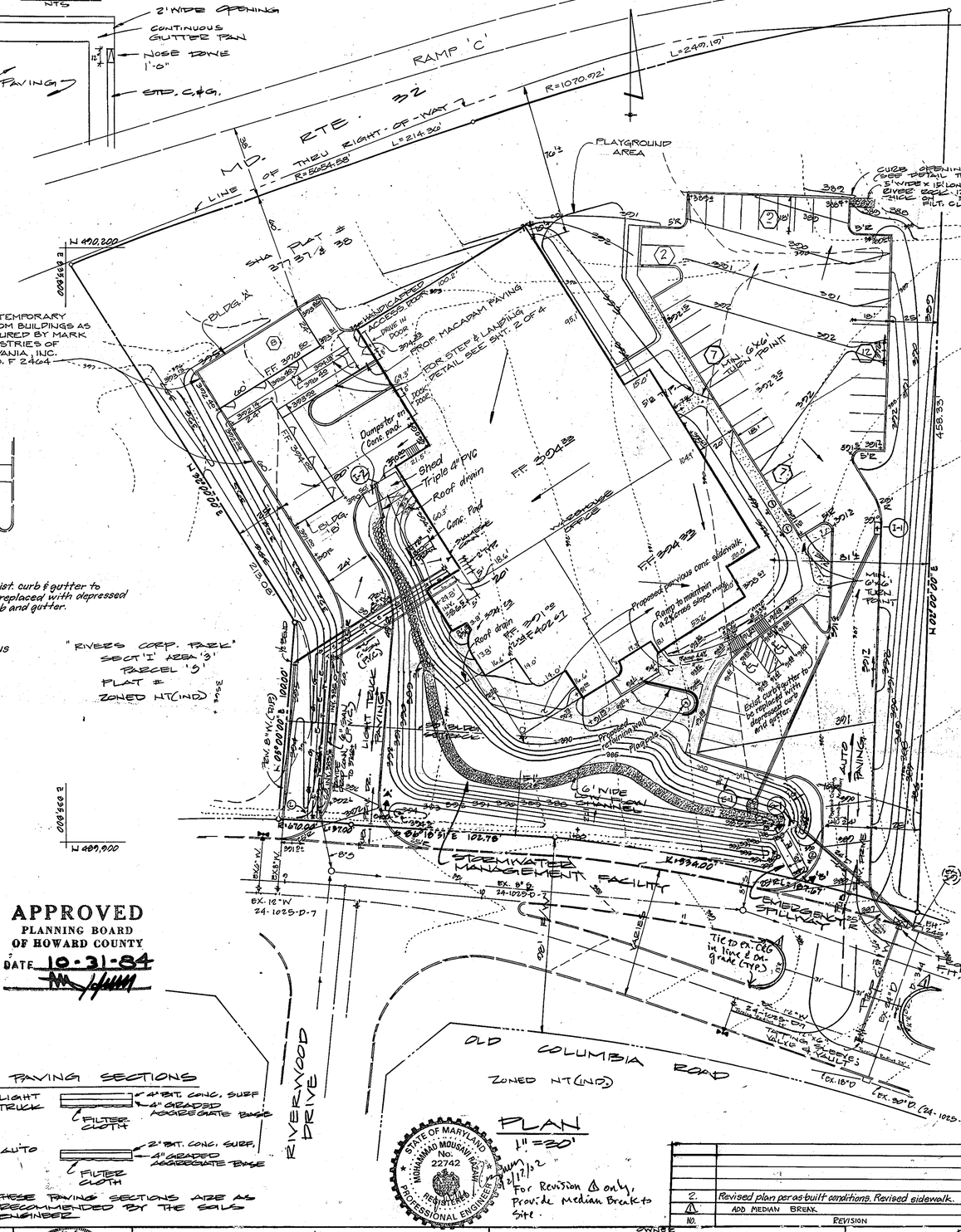
NOTE: TO BE USED WHERE PAVEMENT CROSS-SLOPE FALLS AWAY FROM FACE OF CURB




SIDEWALK DETAIL

Scale: 1"=20'




PLAN

1"=30'

PAVING SECTIONS




THESE PAVING SECTIONS ARE AS RECOMMENDED BY THE SOILS ENGINEER

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: DATE: 11-28-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: DATE: 11-28-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION:
DATE: 11-28-84

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: DATE: 11-27-84
CHIEF, BUREAU OF ENGINEERING: DATE: 11/23/84

HOWARD SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
DISTRICT: DATE: 11/19/84
APPROVED: HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
SIGNATURE: DATE 11-19-84
THE UNITED STATES SOIL CONSERVATION SERVICE

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204
(301) 825-8120

ENGINEER'S CERTIFICATE

"I certify that this plan for road construction, 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 — Prof. Reg. No. 8930 — Date 9/7/84

OWNER
G.M. RIVERS PROJECT PARTNERSHIP
JOHN MAKOS + MARK GALLO
c/o
AZTEC ELECTRONICS
# 240 RTE 108
COLUMBIA, MD 21045

DEVELOPER
M.O.R.E., XXIX PARTNERSHIP
8515 GUILFORD RD.
COLUMBIA MD. 21046
995-1070

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 and 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. Developer agrees that this plan will not be made unless authorized by the Howard Soil Conservation District.

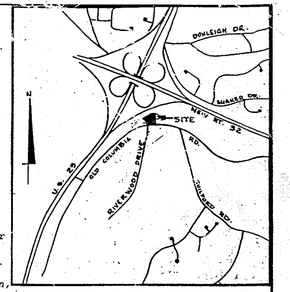
Signature of Developer — Date 8/29/84

| NO. | REVISION | DATE |
|---|---|---|
| 2. | Revised plan per as-built conditions. Revised sidewalk. | 7-29-10 |
| 1. | ADD MEDIAN BREAK. | 12-17-02 |

DBS: R.W.E.
DWG. DES.
CHK. RWG/TC.
REVISIONS
7/11/85 BUILDING SETBACK CHANGED FROM 10' TO 25' (AS-BUILT)
8/22/94 ADDED 2 TEMP. BLDGS.; REV. USE & PARKING; ADD PLAYGROUND AREA & REVISE PROPERTY LINE

SITE PLAN
GENERAL NOTES

1. Maximum building height = 50'.
2. All areas not being paved or receiving building coverage shall be stabilized in accordance with the plans approved by the Howard Soil Conservation District.
3. Any damage to public rights-of-way and/or adjacent properties shall be repaired immediately at the contractor's expense.
4. The contractor shall maintain at least a 2' level bench behind all curb and gutter in fill areas.
5. The contractor shall verify all existing utilities to his own satisfaction before starting construction.
6. All slopes shall be 2:1 or flatter.
7. All work shall be done in accordance with Howard County Standard Specifications and Details for Construction, or as shown on these plans.
8. The contractor shall notify the C & P Telephone Co. and the Gas and Electric Company five days prior to starting work shown on these plans by calling "Miss Utility". Call collect 1-559-0100.
9. For details of ramps and signs for the handicapped see the Maryland Building Code for the Handicapped and Aged and as shown hereon.
10. The contractor shall maintain a minimum of 3.5' cover over all proposed water lines.
11. All rip-rap shall be placed on filter cloth.
12. The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hours in advance of commencement of work at 992-2417 or 792-7272.
13. The contractor shall remove all existing paving, curb and gutter, etc. that may interfere with proposed construction.
14. All utilities installed shall receive full trench compaction.
15. All water main tees, bends, caps, etc. shall be buttressed in accordance with Howard County Design requirements.
16. Sidewalk added as part of redline revision 2 to be pervious concrete in accordance with the Maryland Stormwater Act of 2007.




VICINITY MAP

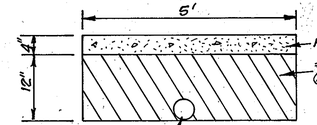
1" = 2000'

LEGEND

| | |
|---|---|
| 372 | Indicates Exist. Contours |
| 372 | Indicates Prop. Contours |
| | Indicates Exist. Curb & Gutter |
| | Indicates Prop. Curb & Gutter |
| | Indicates Prop. Paving |
| | Indicates Prop. Conc. Walks (6' Wide x 4" Thick; Mix #2 Conc., H.C. Std. R-3.05) |
| ① | Indicates Sign (See Detail This Sheet) |
| ① | Indicates Number of Parking Spaces |
| & | Indicates Parking Space Reserved For The Handicapped |

Sidewalk utilizing pervious concrete.

AS BUILT LOCATION OF THE BUILDING HAS BEEN FURNISHED: VTA ASSOCIATES, INC 4932 HAZELWOOD AVE BALTO., MD 21206 (301) 866-2001




PERVIOUS CONCRETE SIDEWALK SECTION

N.T.S.

"RIVERS CORP. PARK"
SECT I AREA 3
PARCEL 'Q'
PLAT #
ZONED NT(IND)

SITE DATA

AREA OF SITE = 3.150 ac±

TOTAL FLOOR AREA = 30,500 SF.

PARKING REQ'D 270 STUDENTS @ 1 SP/6 STUDENTS = 45

PARKING PROV'D = 45 P.S. (43 @ 9'x 18' w/2' OVERHANG; 2 @ 12'x 18' w/2' OVERHANG FOR HANDICAPPED)

FLOOR AREA TO SITE RATIO = 0.89/2.51 = 35.5%

PROPERTY REFERENCE: PLAT ENTITLED "RIVERS CORPORATE PARK" SECT 1 AREA 3 PARCEL 'E' PLAT #

EXISTING ZONING = N.T. (INDUSTRIAL) F.D.P. 184-A-I

EX. USE = VACANT

PROP. USE = PRIVATE ACADEMIC ELEMENTARY SCHOOL

AREA TO BE KEPT ALTERNATELY STABILIZED/% OPEN SPACE 35,400 SF. = 32.4%

BUILDING COVERAGE = 25,700 SF. ; 23.6 % OF SITE

STORMWATER MANAGEMENT DATA

| | |
|---|---|
| DRAINAGE AREA | 1.65 Ac± |
| SOIL GROUP | C |
| EXISTING RCN | 74 |
| PROPOSED RCN | 80 |
| AREA LEAVING UNCONTROLLED | 0.86 Ac± |

ALLOWABLE RELEASE RATE

2 YR. = 3.40 - 2.26 (area leaving uncontrolled) = 1.23 cfs.
10 YR. = 8.22 - 4.44 (area leaving uncontrolled) = 3.78 c.f.s.
100 YR. = 14.10 - 6.90 (area leaving uncontrolled) = 7.20 cfs.

| PROPOSED FLOWS | AFTER MANAGEMENT | BEFORE MANAGEMENT |
|---|---|---|
| 2 YR. | 0.72 cfs. | 5.11 c.f.s. |
| 10 YR. | 1.98 cfs. | 9.92 cfs |
| 100 YR. | 4.93 cfs. | 14.6 c.f.s. |

* 2 & 10 YR MANAGEMENT EQUIV.: 2, 10, 100 YR PROVID.

STORAGE

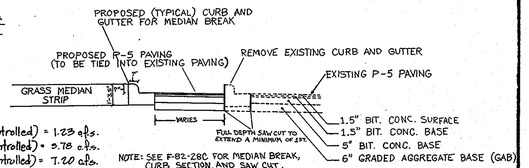
2 YR. Storage Req'd/ Prov'd. ---- 3150 C.F.
10 YR Storage Req'd/ Prov'd. ------ 10 600 C.F.
100 YR Storage Provid. ------- 14 300 C.F.

STRUCTURAL CLASSIFICATION

Structure Class --- A
Storage Height Product ---- 4ft. x 0.948 Ac.Ft. = 1.30 Ac.Ft.
Watershed Area = 1.65 Ac±

HYDROLOGIC CRITERIA

Principal Spillway Rating -- 100 YR.
Freeboard: Above 100 YR. W.S. ELEV. of 298.87 = 1.13 Ft.
Above E.S. CREST ELEV. of 300.00 = 1.0 Ft.




NOTE: SEE F-82-28C FOR MEDIAN BREAK, CURB SECTION, AND SAW CUT.

ROAD AND CURB PROFILE

NOT TO SCALE

ADDRESS CHART

| PARCEL NUMBER | STREET ADDRESS |
|---|---|
| 'R' | 10350 OLD COLUMBIA ROAD |

| SUBDIVISION NAME | SECT./AREA | LOT/PARCEL # |
|---|---|---|
| RIVERS CORPORATE PARK | 1/3 | PARCEL 'R' |

| PLAT # OR L/F | BLOCK # | ZONE | TAX/ZONE MAP | ELECT. DIST. | CENSUS TRACT |
|---|---|---|---|---|---|
| 5010 | 1 | N.T. INDUST | 42 | 6TH CO | 6061.02 |

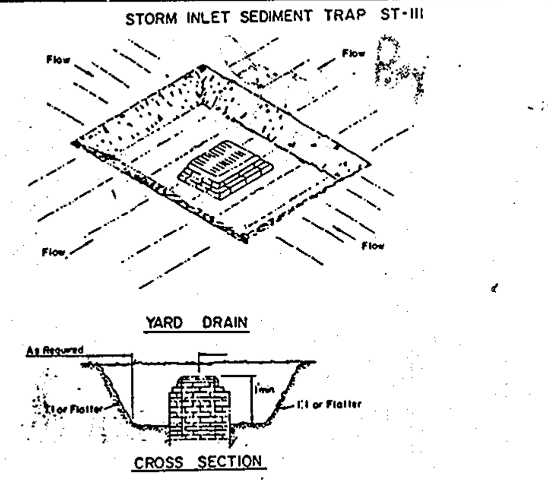
WATER CODE — SEWER CODE

SITE PLAN
FOR
PROPOSED OFFICE & WAREHOUSE
RIVERS CORPORATE PARK
SECT. 1 AREA 3 PARC. 'R'
COLUMBIA
HOWARD CO., MD
SCALE: 1"= 30'
P.N. 5043

ELECT. DIST. # 6
AUGUST 31, 1984
SHT # 1 OF 4

SDP 85-47

## STORM INLET SEDIMENT TRAP ST-III



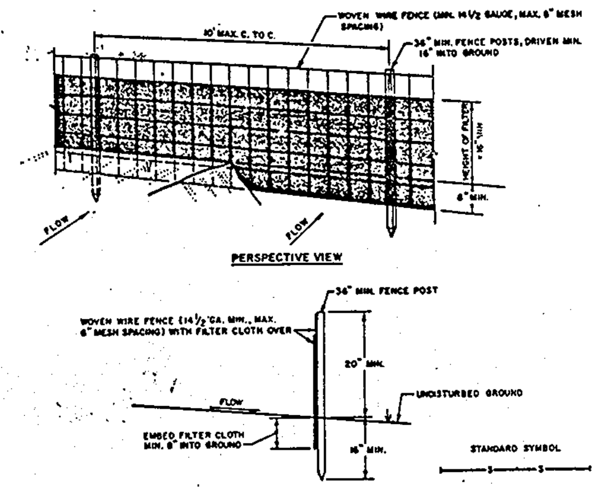

CONSTRUCTION SPECIFICATION FOR ST-III

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | STORM INLET SEDIMENT TRAP | STANDARD DRAWING ST-III |
|---|---|---|

## SILT FENCE




CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When two sections of filter cloth adjoin each other they shall be over-lapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

POSTS: Steel either T or U type or 2" hardwood

FENCE: Woven wire, 14 Ga. 6" Max. Mesh Opening

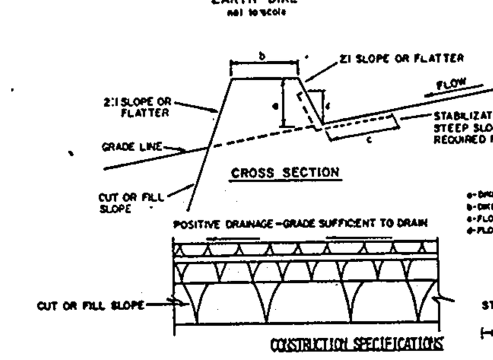
FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or Approved Equal.

PREFABRICATED UNIT: Geofab, Envirofence, or Approved Equal.

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | SILT FENCE | STANDARD DRAWING SF-1 |
|---|---|---|

## EARTH DIKE

not to scale




CONSTRUCTION SPECIFICATIONS

1. All dikes shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per the chart below.

FLOW CHANNEL STABILIZATION

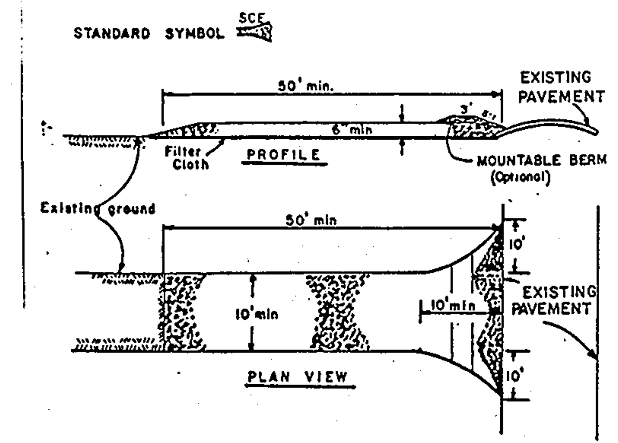
| TYPE OF TREATMENT | CHANNEL GRADE | DIKE A | DIKE B |
|---|---|---|---|
| 1 | .5-3.0% | Seed and Straw Mulch | Seed and Straw Mulch |
| 2 | 3.1-5.0% | Seed and Straw Mulch | Seed using Jute, or Excelsior; Sod; 2" Stone |
| 3 | 5.1-8.0% | Seed with Jute, or Sod; 2" Stone | Lined Rip-Rap 4-8" |
| 4 | 8.1-20% | Lined Rip-Rap 4-8" | Engineering Design |

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
B. Rip-Rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.
C. Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and required maintenance must be provided after each rain event.

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | EARTH DIKE | STANDARD DRAWING ED-1 |
|---|---|---|

## STABILIZED CONSTRUCTION ENTRANCE

not to scale

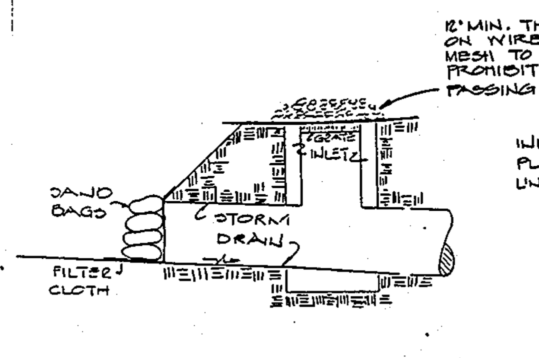



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

| U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md. | STABILIZED CONSTRUCTION ENTRANCE | Standard Drawing SCE-1 |
|---|---|---|

NOTE: AT THE END OF EACH WORKING DAY DURING LAYOUT & CONSTRUCTION OF STORM DRAINS, THE UPPER END OF THE INCOMPLETE SYSTEM SHALL BE PLUGGED TO PREVENT SEDIMENTATION OF PIPE SYSTEM.

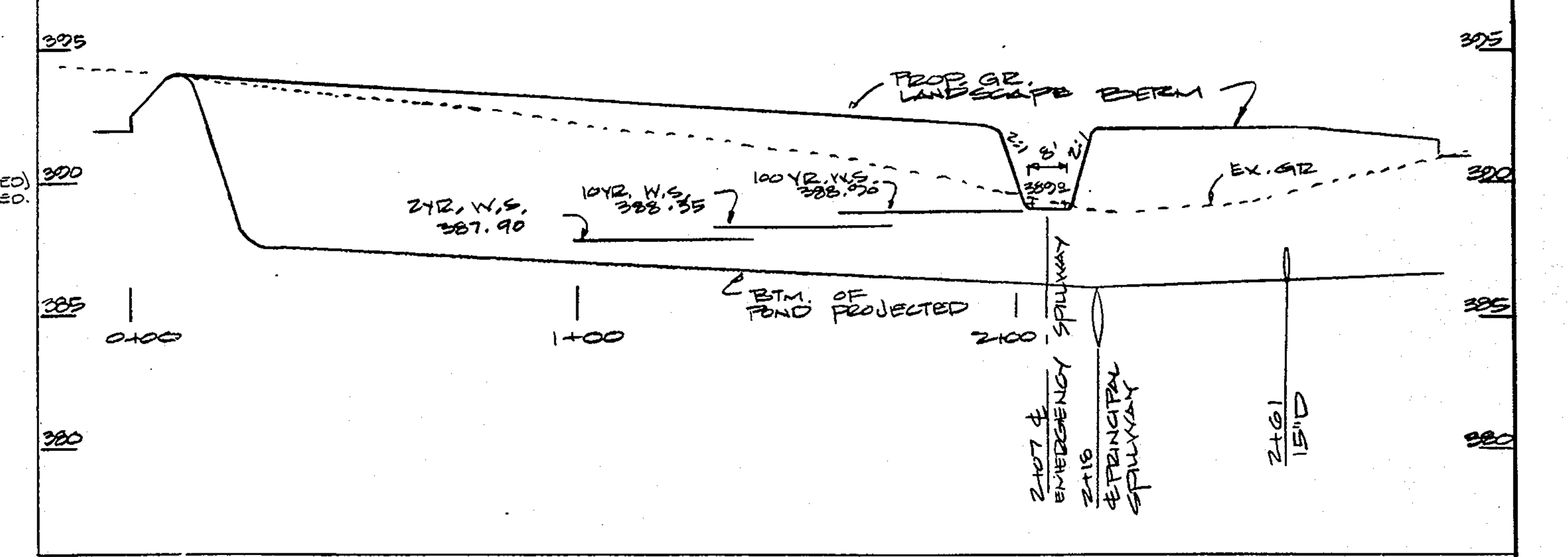


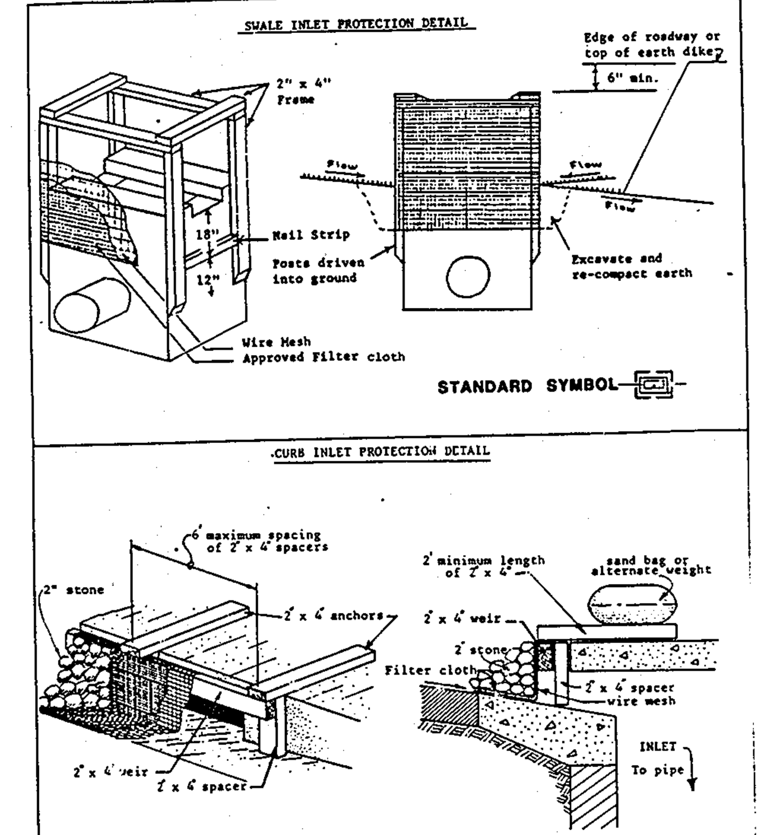

INTERIM STORM DRAIN PLUGGING DETAIL

NO SCALE

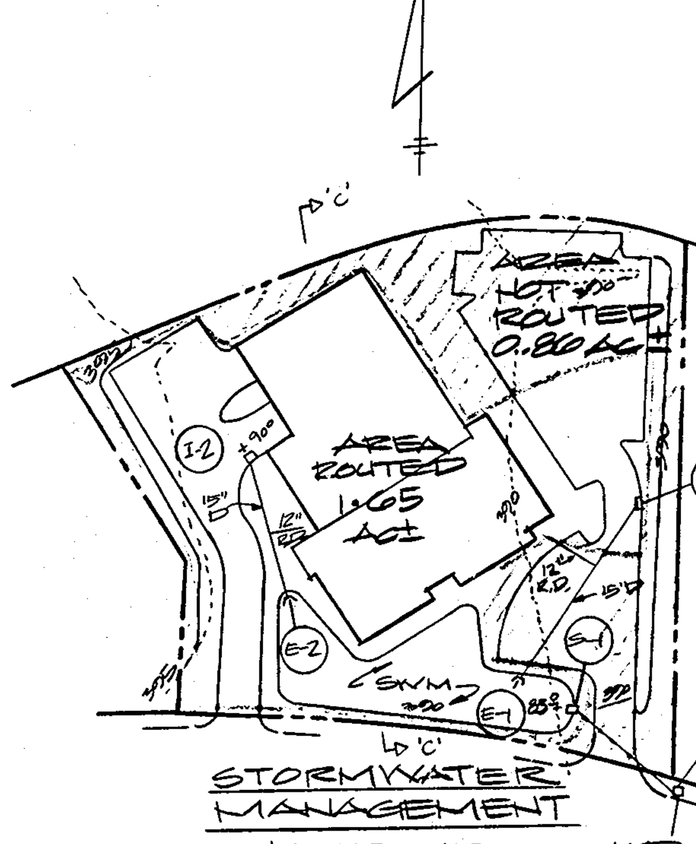
## SECTION 'A'-'A'

HORZ : 1"=30'
VERT : 1"=5'



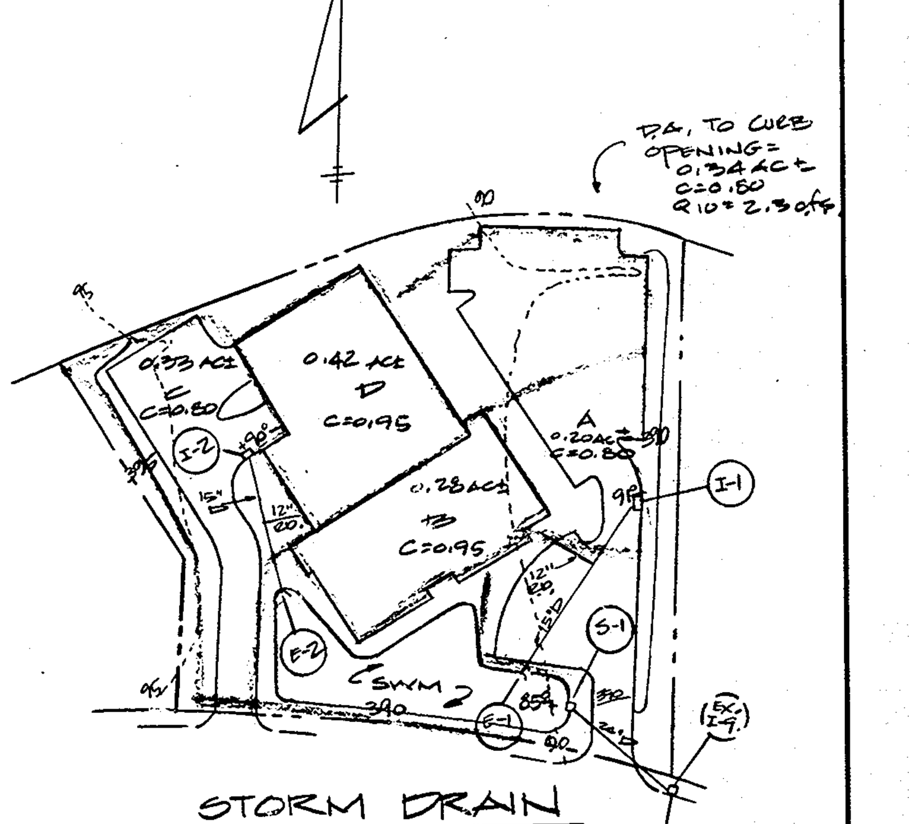




| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | INLET PROTECTION DETAIL | STANDARD DRAWING IPD-1 |
|---|---|---|




STORMWATER MANAGEMENT DRAINAGE AREA MAP

SCALE : 1"= 100'

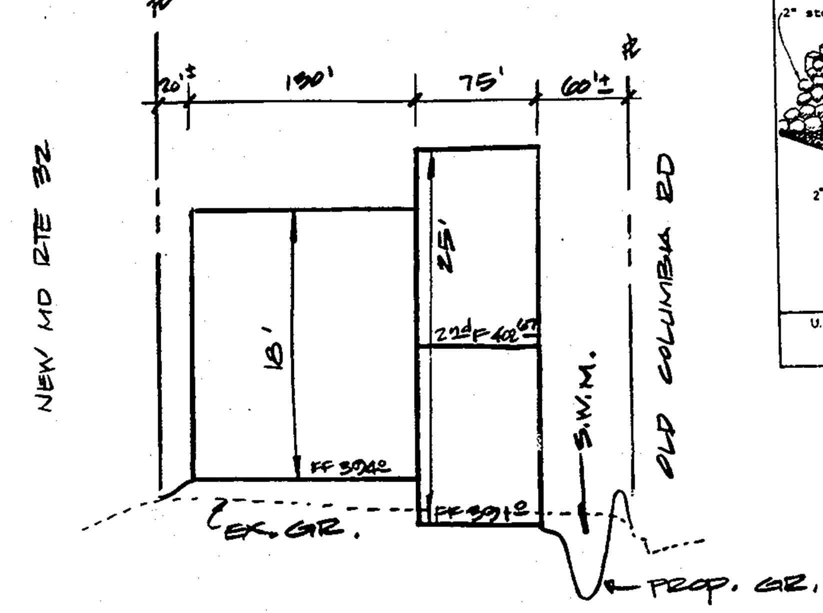



STORM DRAIN DRAINAGE AREA MAP

SCALE : 1"= 100'

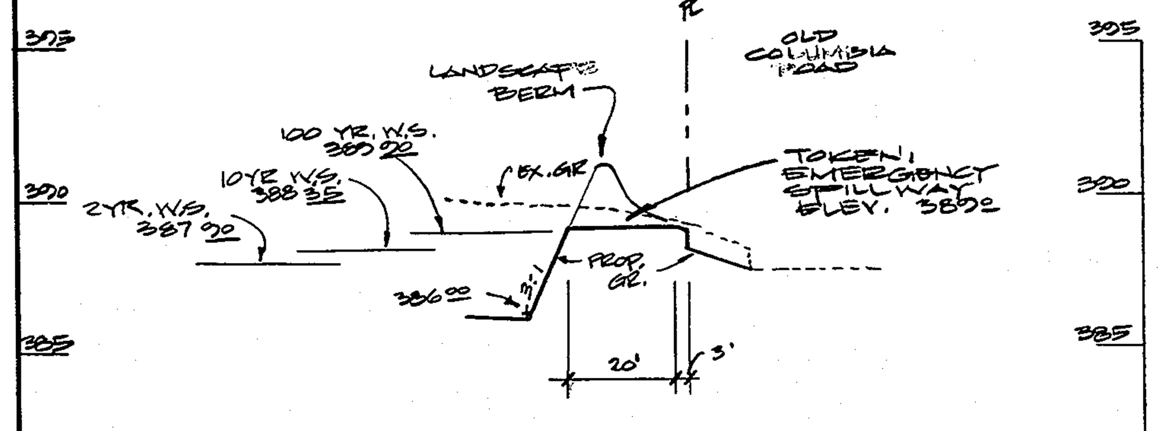
| NO. | TYPE | INV. IN. | INV. OUT | TOP ELEV. | HO. CO. STD. |
|---|---|---|---|---|---|
| I-1 | DBL'S COMB. | — | 386.97 | 389.00 | SD. 4.34 |
| I-2 | DBL'S COMB | — | 388.45 | 390.00 | SD. 4.34 |
| E-1 | TYPE 'A' HDWL. | — | 386.20 | 389.20 | SD. 5.11 |
| E-2 | TYPE 'A' HDWL. | — | 388.00 | 391.00 | SD. 5.11 |
| S-1 | MODIFIED TYPE 'D' | 383.50 | 383.40 | SEE DETAIL THIS SHT. | SD. 4.11 * |

*SEE ALSO MODIFICATIONS THIS SHEET




SECT 'C' - 'C'

N.T.S.



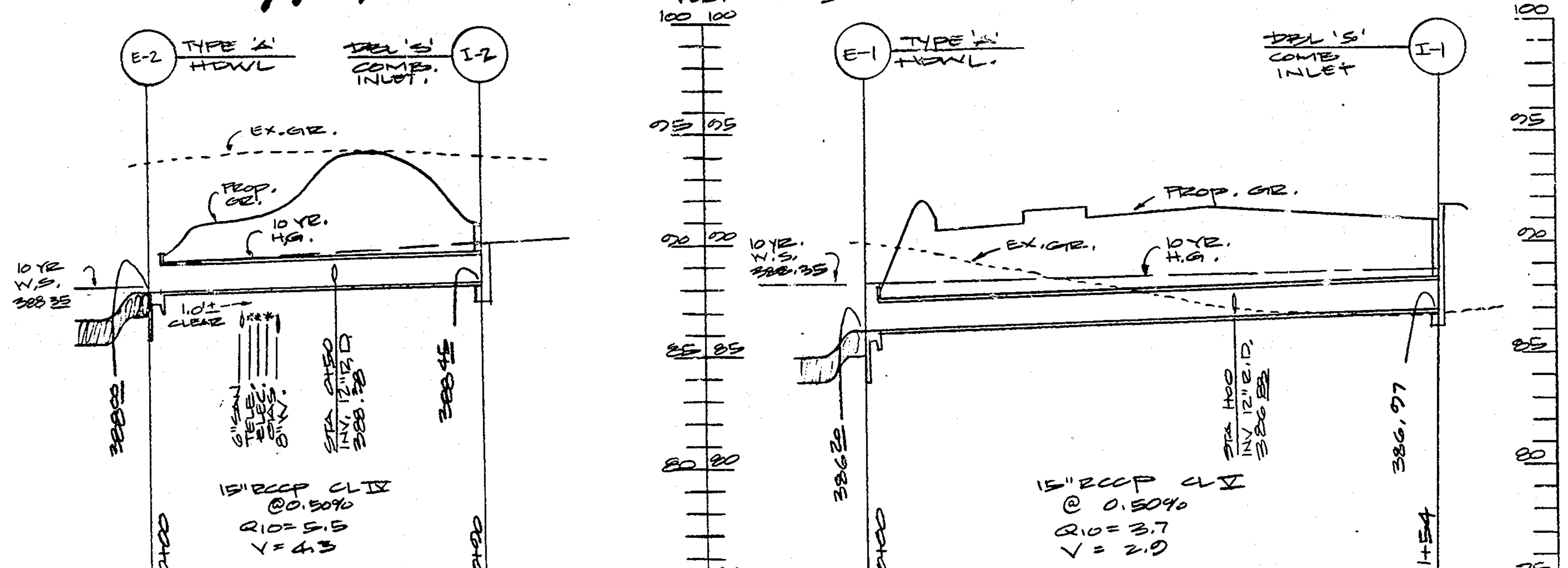

SECTION 'B'-'B'

HORZ : 1"=30'
VERT : 1"=5'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

STORM DRAIN PROFILES

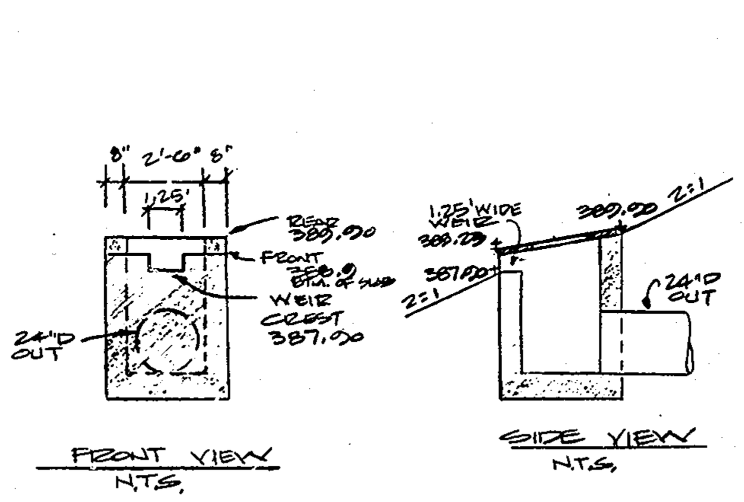
HORZ : 1"=30'
VERT : 1"=5'




## S-1 MODIFIED TYPE 'D' INLET

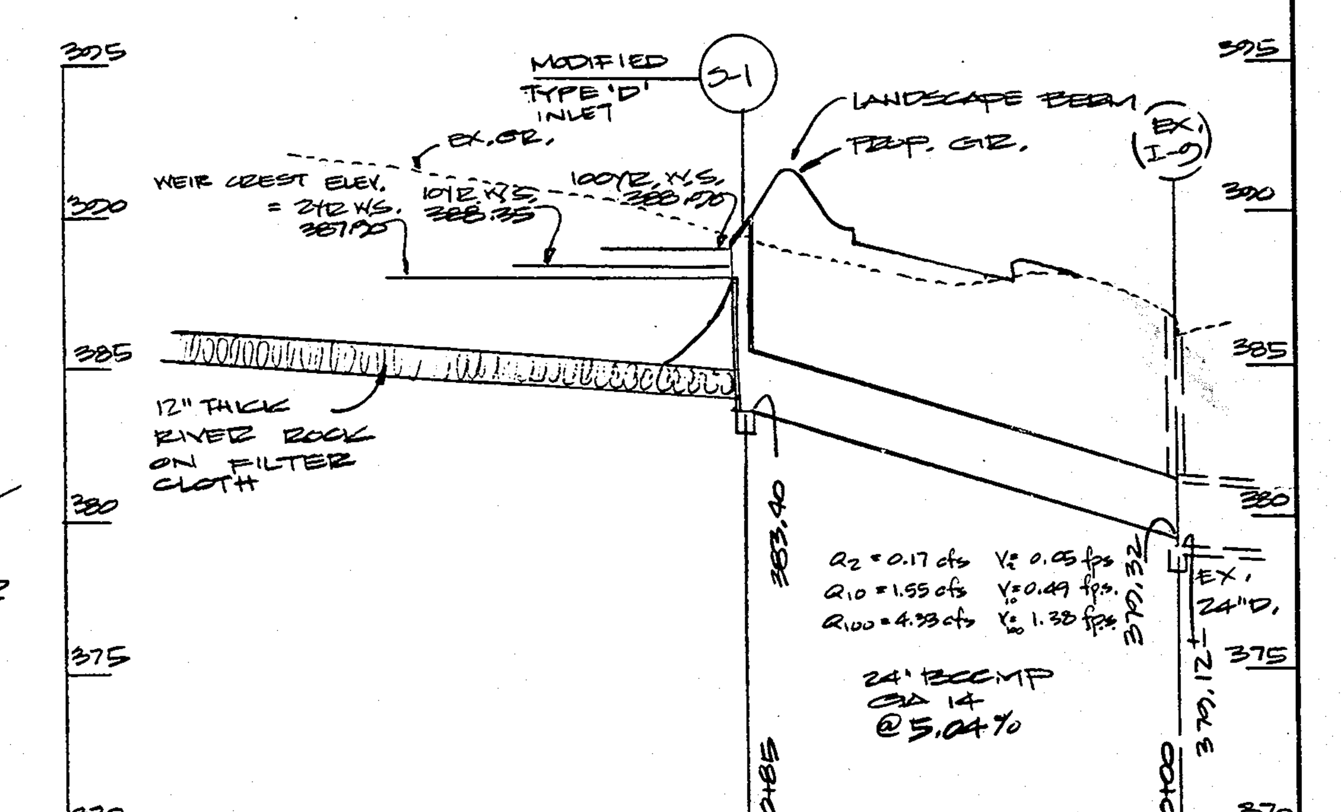
N.T.S.

FOR TOP VIEW SEE HO. CO. STD. SD. 4.11




## SECTION THRU PRINCIPAL SPILLWAY

HORZ: 1"= 30'
VERT: 1"= 5'




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

COUNTY HEALTH OFFICER: [signature] DATE: 11-28-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR [signature] DATE: 11-28-84

CHIEF; DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [signature] DATE: 11-28-84

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

DIRECTOR: [signature] DATE: 11-23-84

CHIEF, BUREAU OF ENGINEERING: [signature] DATE: 11-23-84

HOWARD SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT: Stephen L. Huber DATE: 11/19/84

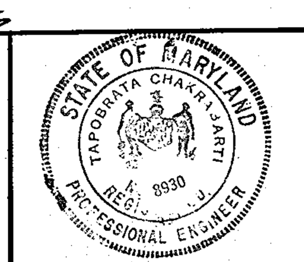
APPROVED: HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: [signature] DATE: 11-19-84

THE UNITED STATES SOIL CONSERVATION SERVICE

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204
(301) 825-8120




Tapobrata Chakravarty 8930 9/7/84
Signature of Engineer REG. NO. Date

OWNER
G.M. RIVERS PROJECT PARTNERSHIP
JOHN MALTOS & MARK GALLO
c/o
AZTEC ELECTRONICS
# 940 RTE. 108
COLUMBIA, MD 21045

DEVELOPER
M.O.R. XXIX PARTNERSHIP
8325 GUILFORD RD.
COLUMBIA, MD. 21046
995-1670

[signature] 8/29/84
Signature of Developer Date

DES: RWR
DWG: D.R.R.
CHK: RWR/TC
REVISIONS

PROFILES & DETAILS
FOR
PROPOSED OFFICE & WAREHOUSE
RIVERS CORPORATE PARK
SECT. 1 AREA 3 PARC. 'R'
COLUMBIA

HOWARD CO., MD
SCALE: 1"= 30' OR AS SHOWN
P.N. 5048

ELECT. DIST. #6
AUGUST 31, 1984
SHT # 3 OF 4

SDP-85-47c

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

COUNTY HEALTH OFFICER: _____ DATE: 11-28-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR _____ DATE: 11-28-84

CHIEF; DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: _____ DATE: 11-28-84

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

DIRECTOR _____ DATE: 11-23-84

CHIEF, BUREAU OF ENGINEERING _____ DATE: 11-23-84

HOWARD SOIL CONSERVATION DISTRICT

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

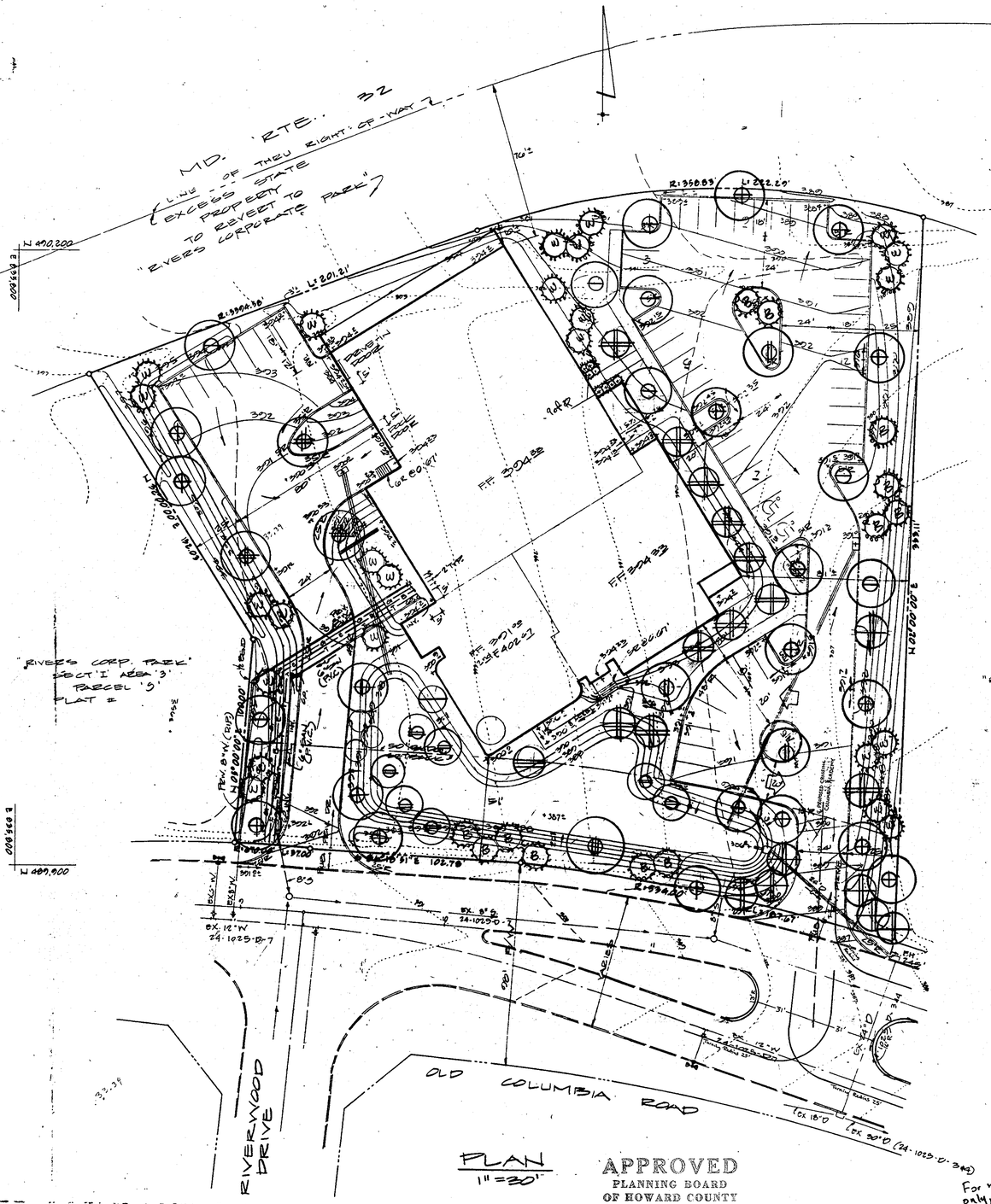
_____ DATE: _____

APPROVED-HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: _____ DATE _____

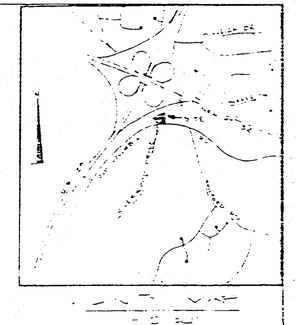
THE UNITED STATES SOIL CONSERVATION SERVICE




PLAN
1" = 30'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

For revision only, to provide median break to Site.



+ 2 ADD TREES

# plant list

| KEY | PLANT NAME | SIZE | QUANT | REMARKS |
|---|---|---|---|---|
| | ACER RUBRUM RED MAPLE | 2½-3" CAL 12-14 HT | 18 | B&B HEAVY HEADS |
| | ZELKOVA SERRATA JAPANESE ZELKOVA | | 3 | |
| | QUERCUS PALUSTRIS PIN OAK | | 8 | |
| | SALIX BABYLONICA BABYLON WEEPING WILLOW | | 1 | |
| | FRAXINUS P. LANCEOLATA SEEDLESS GREEN ASH | | 3 | |
| | SALIX MATSUDANA 'TORTUOSA' CORKSCREW WILLOW | 2-2½" CAL 8-10' HT. | 7 | |
| | PRUNUS CERASIFERA THUNDERCLOUD PURPLE LEAF FLOWERING PLUM | 2-2½" CAL 8-10' HT. | 7 | |
| | PRUNUS SERRULATA KWANZAN KWANZAN JAPANESE CHERRY | 2-2½" CAL 8-10' HT | 11 | |
| | | | - | |
| | PRUNUS SUHIRTELLA PENDULA WEEPING JAP. CHERRY | 8-10' HT. | 1 | SPECIMEN |
| | PINUS THUNBERGI JAPANESE BLACK PINE | 6-8' HT | 12 | |
| | PINUS STROBUS EASTERN WHITE PINE | 6-8' HT. | 31 | |
| | | | | |
| | AMELANCHIER CANADENSIS SHADBLOW CLUMP | 6-8' HT. | 1 | B&B |

NOTE • ALL PLANTING TO BE IN COMPLIANCE WITH STANDARD HRD COLUMBIA PLANTING SPECIFICATIONS
• CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DIGGING.

## Neu Valley Nurseries Inc.

BALTIMORE, MARYLAND 796-4195

AUGUST 20, 1984
REVISED 10/16/84

STATE OF MARYLAND
MOHAMMAD MOUSAVI RAHNY
No. 22742
REGISTERED
PROFESSIONAL ENGINEER
12/17/02

STATE OF MARYLAND
VIRGINIA M. THESSIN
No. 21551
REGISTERED
LANDSCAPE ARCHITECT
11-8-84

| No. | Revision | Date |
|---|---|---|
| 1 | ADD MEDIAN BREAK | 12-17-02 |

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD 21204
(301) 825-8120

OWNER
JOHN MAKTOS & MARK GALLO
c/o
AZTEC ELECTRONICS
#040 ETE. 102
COLUMBIA, MD 21045

DEVELOPER
MANEKIN CORPORATION
10240 OLD COLUMBIA RD.
COLUMBIA, MD. 21046
995-1670

# LANDSCAPE PLANTING PLAN

PROPOSED OFFICE & WAREHOUSE
RIVERS CORPORATE PARK
SECT. 1 AREA 3 PARC. 'R'
COLUMBIA
HOWARD CO., MD
SCALE: 1" = 30'
TAX MAP 30 GRID 13 PARCEL 'R'
ELEC. DIST. # 5
AUGUST 1984
SHT. # 4 OF 4

SDP-85-47c