

**CONSTRUCTION SEQUENCE:**

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN.
2. CONSTRUCT PERIMETER DIKE AND HAND-DC SEDIMENT TRAP "A" EXERCISING CAUTION TO BYPASS EXISTING LEACHING FIELDS (SEE PLUMBING DWG. P-1). FIELD-ADJUST LOCATION OF TRAP AND DIKE IF NECESSARY. CONSTRUCT SEDIMENT TRAP "B" AND MAKE IT OPERABLE.
3. CONSTRUCT SILT FENCE AT LOCATIONS SHOWN.
4. CONSTRUCT NEW SANITARY SEWER AND MAKE IT OPERABLE. ABANDON EXISTING SEPTIC SYSTEM (SEE PLUMBING DWG. P-1).
5. ACCOMPLISH DEMOLITION OF PAVING AND REMOVAL OF FENCES.
6. COMMENCE BUILDING CONSTRUCTION.
7. CONSTRUCT ALL STORM SEWER PIPES AND STRUCTURES AND CAP ALL STRUCTURES WITH FLY-WOOD; INSTALL STORM WATER MANAGEMENT STRUCTURE AND STORAGE PIT AND CAP INTAKES. TAKE GREAT PRECAUTION THAT NO SEDIMENT AND DEBRIS ENTERS THE P.T.
8. FINE GRADE, CONSTRUCT CURB AND B.T.-CONC. BASE COURSE FOR BITUMINOUS CONCRETE PAVEMENTS AND CONCRETE WALKS AND SLABS.
9. STABILIZE ALL DISTURBED UNPAVED AREAS.
10. COMPLETE BUILDING CONSTRUCTION.
11. INSTALL NEW CHAIN LINK FENCES AND REMAINING UTILITIES.
12. PAVE SURFACE COURSE OF BITUMINOUS CONCRETE PAVEMENTS.
13. REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND REPAIR ANY EXISTING PAVEMENT OR CURBS, DESIGNATED TO REMAIN CONSTRUCTION.
14. STABILIZE ALL REMAINING DISTURBED UNPAVED AREAS.
15. CLEAN PROJECT AREA AND START NECESSARY MAINTENANCE.

- SEDIMENT TRAP NOTES:**
1. TRAP SIZES ARE BASED ON 1800 CU. FT. OF CAPACITY PER TRIBUTARY AREA (ACRE) TO THE TRAPS.
  2. DIMENSION OF TRAPS ARE GIVEN AT BASE OF TRAPS. SIDE SLOPES OF TRAP SHALL BE 2:1 OR FLATTER.
  3. STANDARD DETAILS AND ABBREVIATIONS REFER TO THE SOIL CONSERVATION SERVICE PUBLICATION STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS, JULY 1975 EDITION.
  4. STRUCTURES I-1 AND I-2 SHALL BE TEMPORARILY CAPPED.

**STRUCTURE TABLE**

NO.	TYPE	TOP ELEV.	INV. OUT	REMARKS
I-1	A-5 INLET	344.30	341.50	HOWARD COUNTY ROAD DEPT. STD. DETAIL DWG. 64-A
I-2	A-5 INLET	346.80	343.00	HOWARD COUNTY ROAD DEPT. STD. DETAIL DWG. 64-A
I-3	"D" INLET	341.20	332.40	HOWARD COUNTY ROAD STD. DRAWING 64-C, N.E. OPEN
M-1	MANHOLE - CONTROL STRUCTURE	345.60	335.75	AS DETAILED
S-1	C - ENDWALL D = 18"		328.20	HOWARD COUNTY ROAD DEPT. STD. DETAIL DWG. D-52

\* LIF ELEVATION

**SITE INFORMATION**

OWNER: BOARD OF EDUCATION  
8045 ROUTE 32  
COLUMBIA, MARYLAND

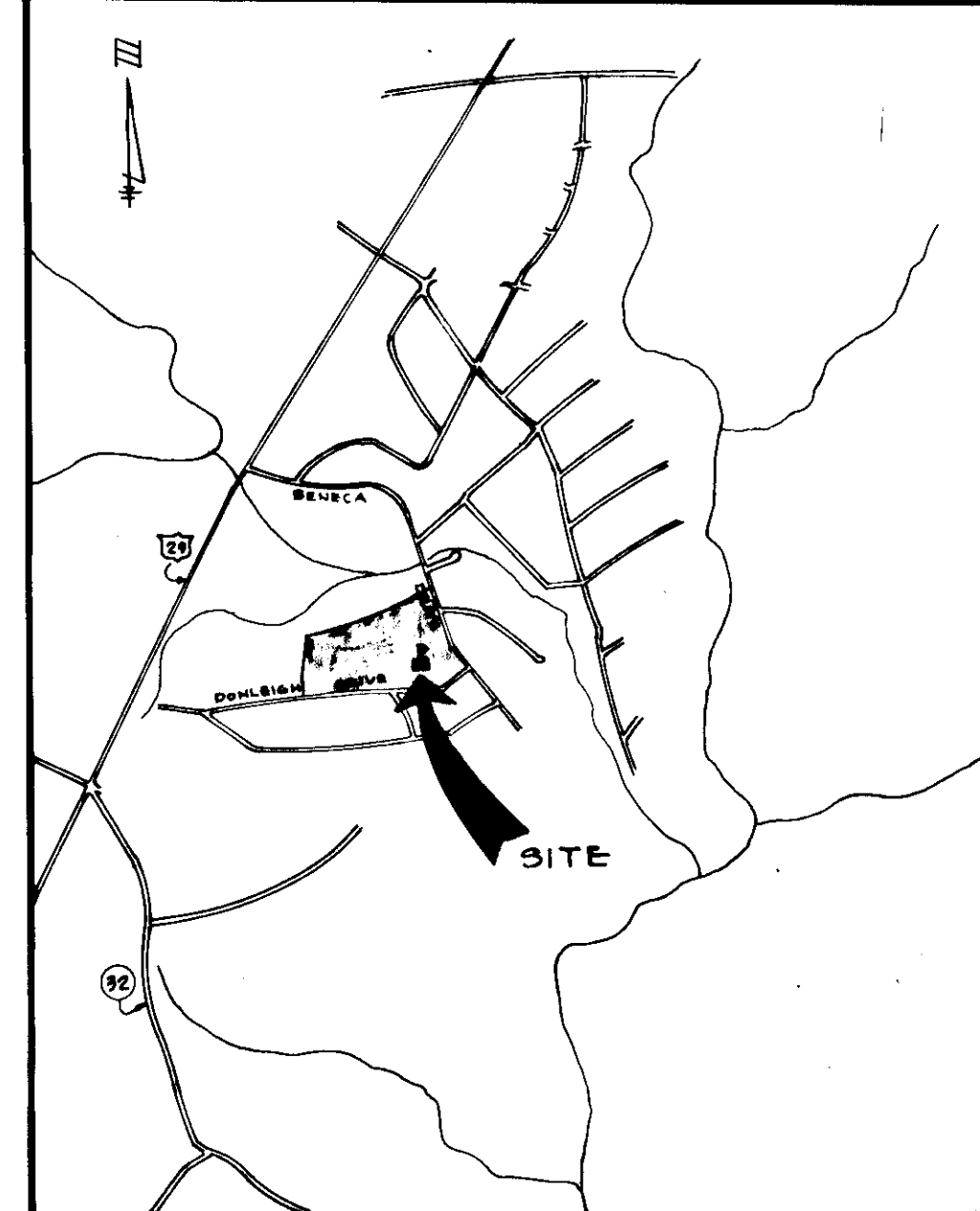
LOCATION: 6700 SENECA DRIVE  
COLUMBIA, MARYLAND 21046

PROPERTY RECORDED: LIBER 306, FOLIO 191 - 15.801 AC.  
LIBER 310, FOLIO 444 - 2.305 AC.

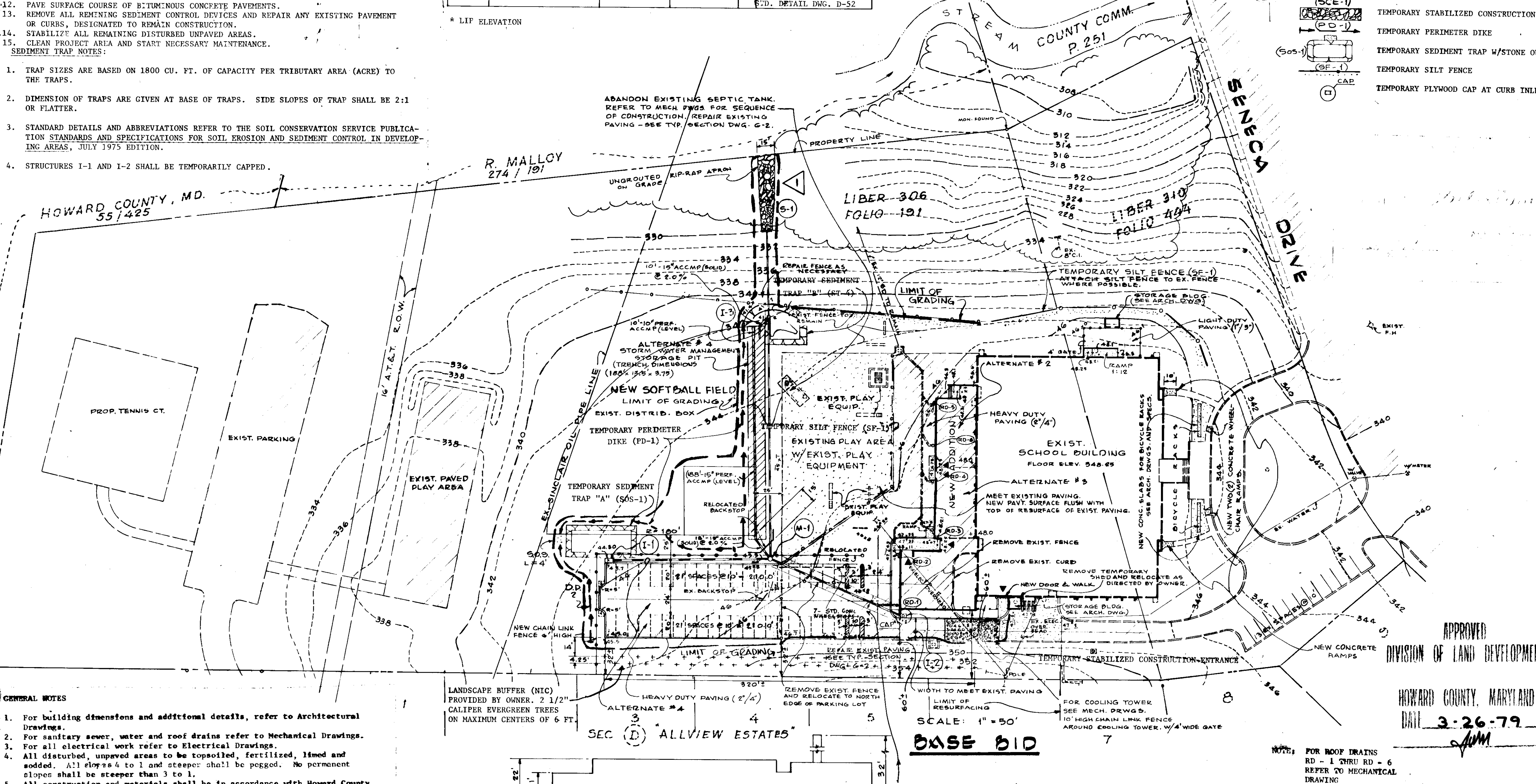
ZONING: R-20  
PARKING SPACES REQUIRED: 55  
PARKING SPACES PROVIDED: 44 (INCLUDING TWO (2) FOR HANDICAPPED AND AGED)  
EXISTING: 13  
TOTAL PROVIDED: 57

**PROPERTY AREA BREAKDOWN: TOTAL SITE 18.706 AC.**

EXISTING BUILDING 0.80 AC.  
EXISTING PAVING 1.49 AC.  
TOTAL BUILDING ADDITION (BASE BID) 0.22 AC.  
TOTAL PAVING ADDITION (BASE BID) 0.76 AC.  
TOTAL DISTURBED AREA (BASE BID) 1.57 AC.

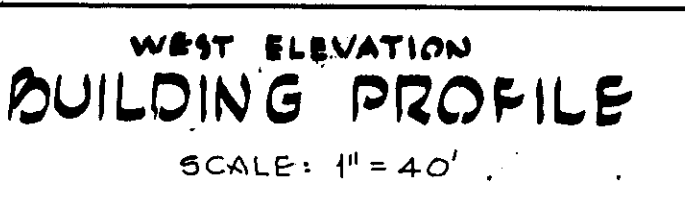
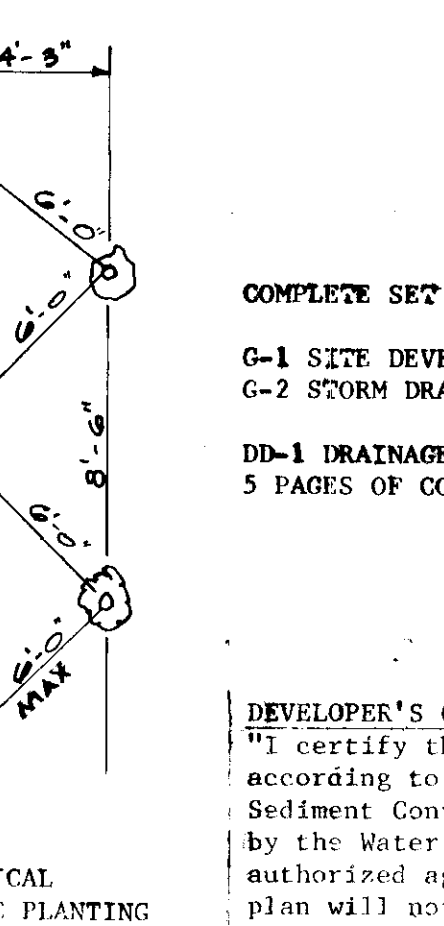


VICINITY MAP  
NOT TO SCALE



- GENERAL NOTES**
1. For building dimensions and additional details, refer to Architectural Drawings.
  2. For sanitary sewer, water and roof drains refer to Mechanical Drawings.
  3. For all electrical work refer to Electrical Drawings.
  4. All disturbed, unpaved areas to be topsoiled, fertilized, limed and sodded. All slopes 4 to 1 and steeper shall be pegged. No permanent slopes shall be steeper than 3 to 1.
  5. All construction and materials shall be in accordance with Howard County Road Construction Code and the applicable provisions of the Maryland State Highway Administration "Specifications for Materials, Highways, Bridges and Incidental Structures and Details".
  6. All existing utilities are based on available records and were field checked where possible. Contractor must dig test pits by hand at all utility crossings and connection points to verify exact location and inverts well in advance of construction. If clearances are not as shown or if a conflict is anticipated, Architect shall be notified before proceeding with trenching.
  7. All exposed portions of channels, frames and grates of storm drainage structures shall receive two coats of approved paint.
  8. All structures having a depth of 3 feet or more shall have cast iron manhole steps, staggered at 12" o.c.
  9. Standard curb and gutter for drives and parking areas on site to be Howard County Standard 7" combination curb and gutter as shown on Drawing D-40, page 95 of the County Standards unless called for otherwise.
  10. Contact "Miss Utility" at least 24 hours prior to commencing excavation.
  11. Existing conditions in vicinity of Building based on survey made by Associated Engineers, Inc., during October 1973. Bench mark used: Floor Elevation West side of existing Building - Elevation 348.25 Existing topography west of the existing oil pipe line based on available design drawings for the Atholton Park.
  12. Pitch Gutter of curbs to conform to adjacent drainage pattern.
  13. Thickness of topsoil shall be 4 inches compacted.
  14. Where Storm Sewer Pipes are to be placed in fill areas, the fill shall be compacted to 95% density at optimum moisture content.
  15. All Sediment and Erosion Control shall be installed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control in Development Areas.
  16. All existing paving, curbs or grass areas disturbed in connection with the installation of any Utility line shall be restored to its original condition in accordance with details shown or to meet applicable County Requirements.
  17. NOTIFY WATER RESOURCES DEPARTMENT ENFORCEMENT DIVISION 48 HOURS BEFORE CONSTRUCTION.

LANDSCAPE BUFFER (NIC) PROVIDED BY OWNER. 2 1/2" GALIEP EVERGREEN TREES ON MAXIMUM CENTERS OF 6 FT.



**SEDIMENT TRAP SCHEDULE**

TRAP NO.	TYPE	TRAP AREA (SQ. FT.)	REQD. CAP. (CU. FT.)	LENGTH (FT.)	WIDTH (FT.)	DEPTH (FT.)	ACTUAL CAP. (CU. FT.)	REMARKS
A	(SOS-1)	1.52	2750	59	20	2	2768	L = 10'
B	(ST-4)	0.80	1447	26	20	2	1472	

COMPLETE SET OF SITE DEVELOPMENT PLANS CONSIST OF:  
G-1 SITE DEVELOPMENT PLAN  
G-2 STORM DRAIN PROFILES AND DETAILS  
DD-1 DRAINAGE DIVIDE (NOT A CONTRACT DRAWING)  
5 PAGES OF COMPUTATIONS.

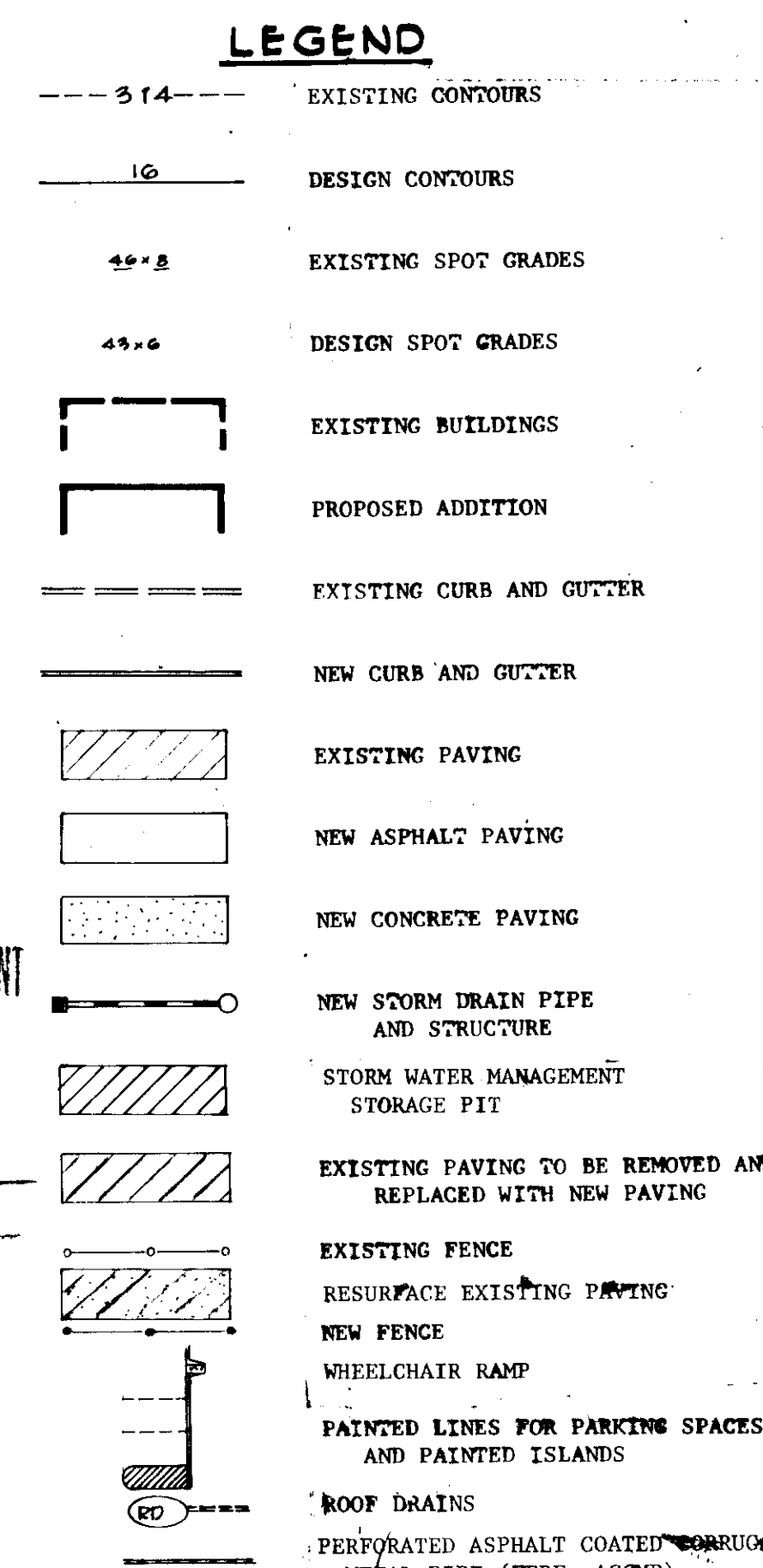
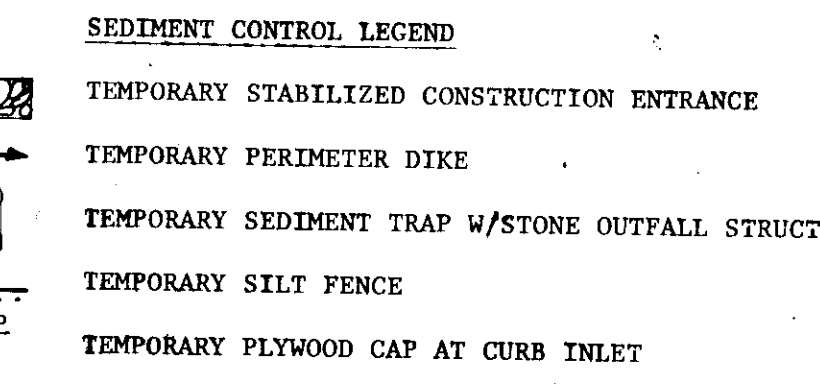
**DEVELOPER'S CERTIFICATION**  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Water Resources Department Enforcement Division or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Water Resources Department Enforcement Division.

*Donald P. Bogany* Date 4/9/79

**DESIGN CERTIFICATION**  
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 Water Resources Department Enforcement Division.

*[Signature]*

NOTE: FOR ROOF DRAINS RD - 1 THRU RD - 6 REFER TO MECHANICAL DRAWING



NOTE: FOR LIST OF DEDUCT ALTERNATES AND THEIR DESCRIPTIONS PERTAINING TO SITE WORK, REFER TO SPECIFICATIONS.

**SDP-79-107**

Reviewed for \_\_\_\_\_ S.C.D. and meets Technical Requirements

Signature \_\_\_\_\_ Date \_\_\_\_\_

U. S. Soil Conservation Service

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

Approved \_\_\_\_\_ Date \_\_\_\_\_

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

*Joyce Bogany* 4-23-79  
HEALTH OFFICER

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*Donald P. Bogany* 4-24-79  
PLANNING DIRECTOR

*John W. Whelan* 4-24-79  
CHIEF DIVISION OF LAND DEVELOPMENT

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

*John F. Nunn* 4-19-79  
DIRECTOR

*W. O. West* 4-19-79  
CHIEF BUREAU OF ENGINEERING

APRIL 6, 1979 REVISED TO MEET HOWARD COUNTY REVIEW COMMENTS.

JOHANNES & MURRAY & ASSOCIATES  
REGISTERED ARCHITECTS  
855 PERSHING DRIVE, J.U. 3-793  
BETHESDA, MARYLAND 20814

ASSOCIATED ENGINEERS, INC.  
SITE ENGINEERS  
855 SILVER SPRING, MARYLAND 20910

ATHOLTON ELEMENTARY SCHOOL CLASS ROOM & GYMNASIUM ADDITION HOWARD COUNTY, MARYLAND 6TH ELECTION DISTRICT

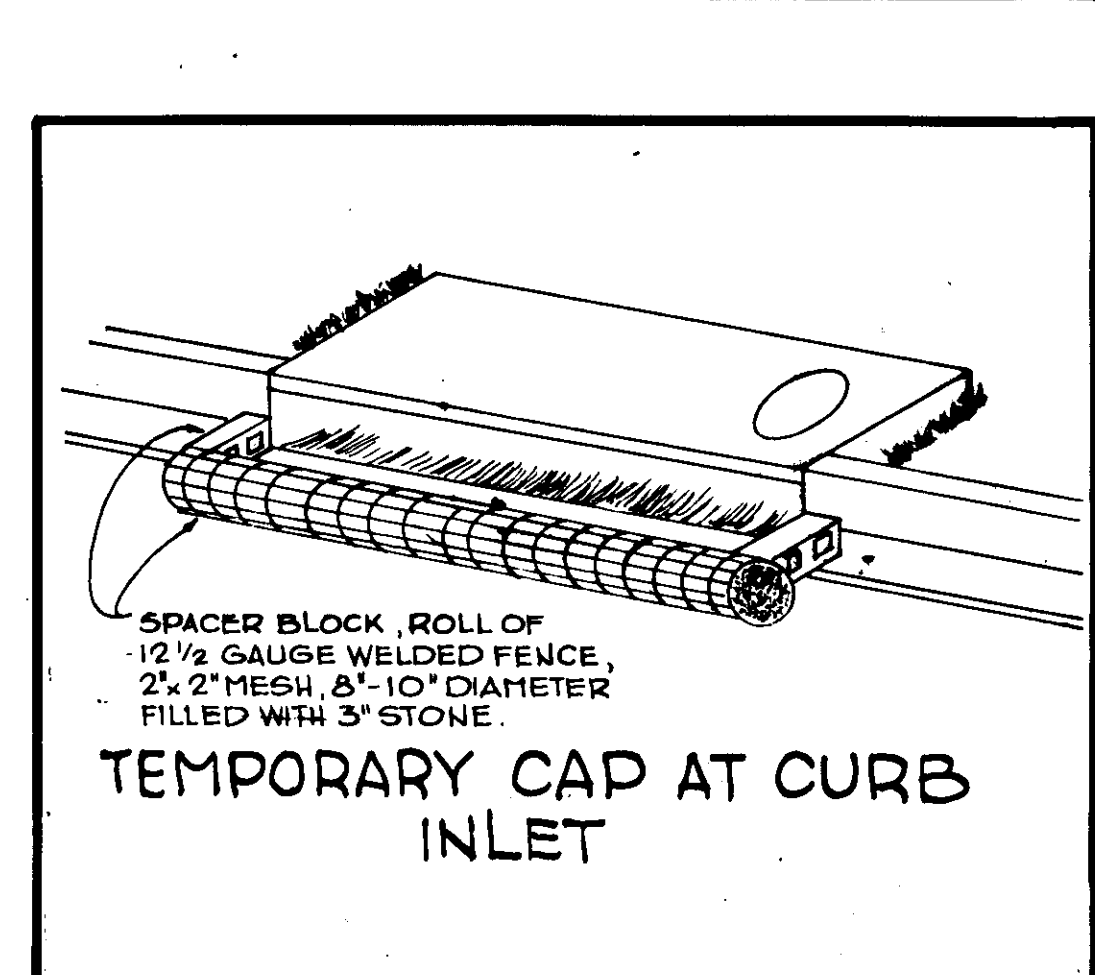
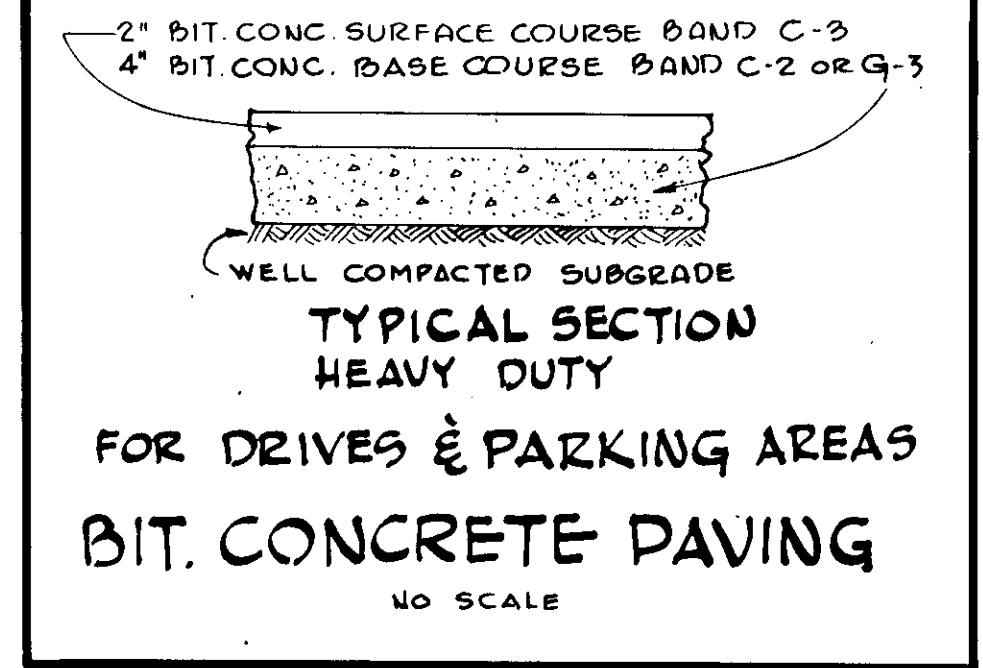
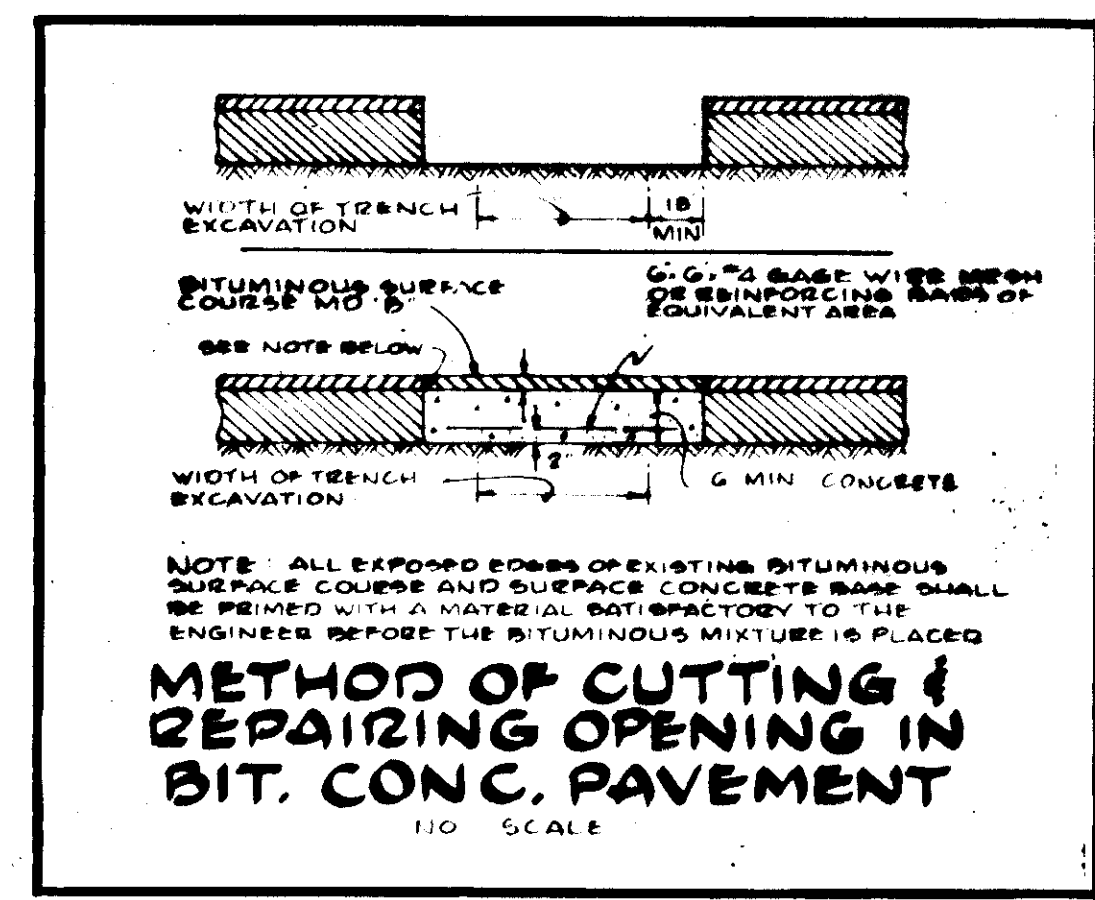
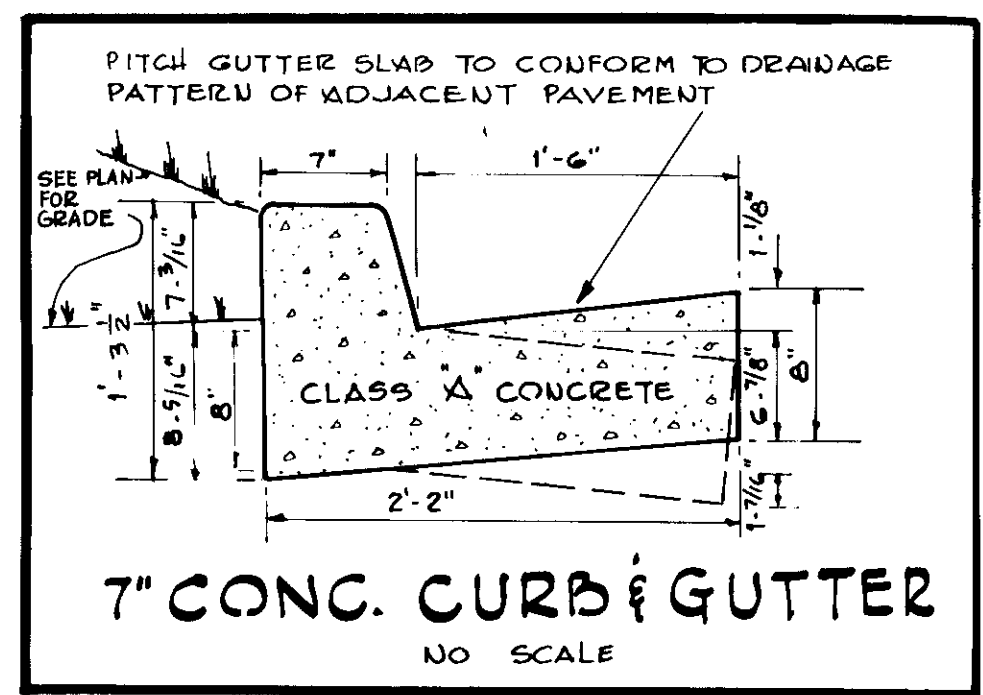
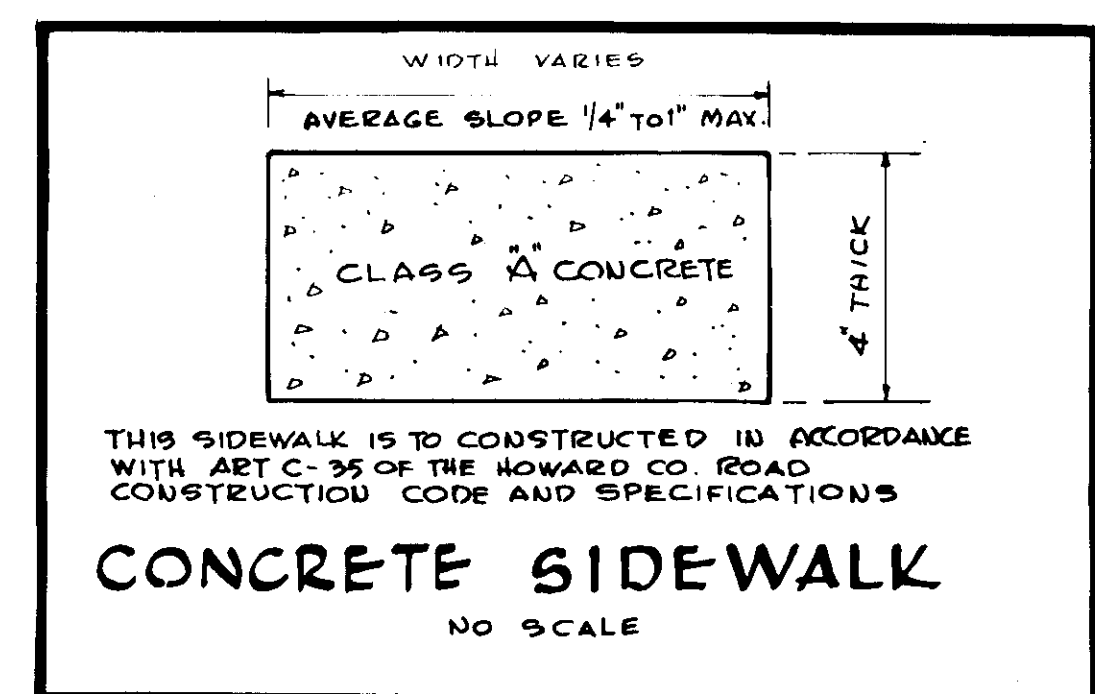
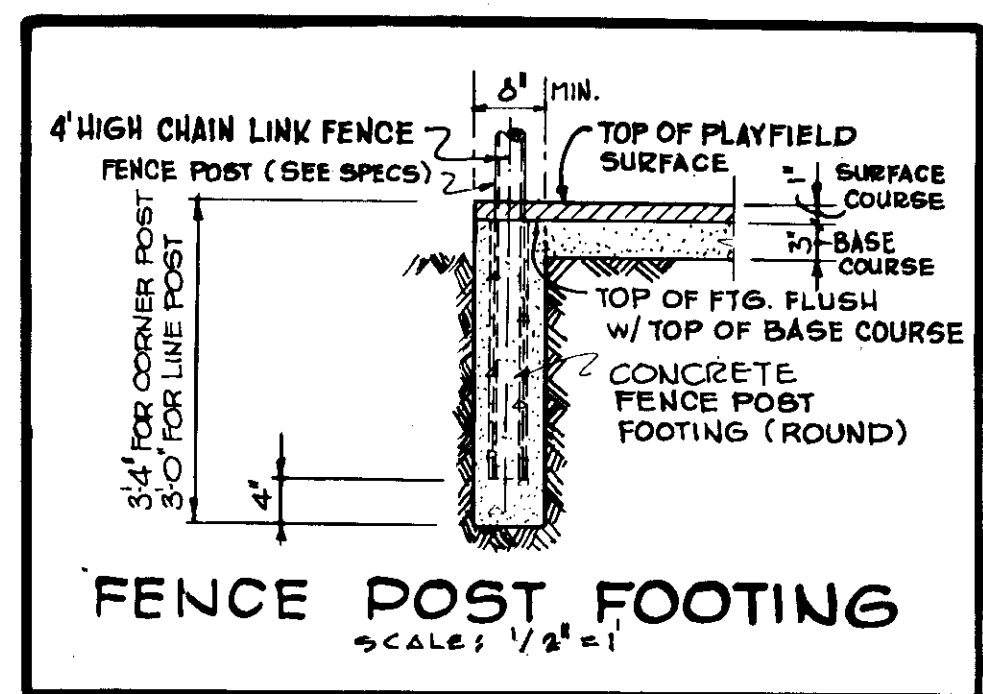
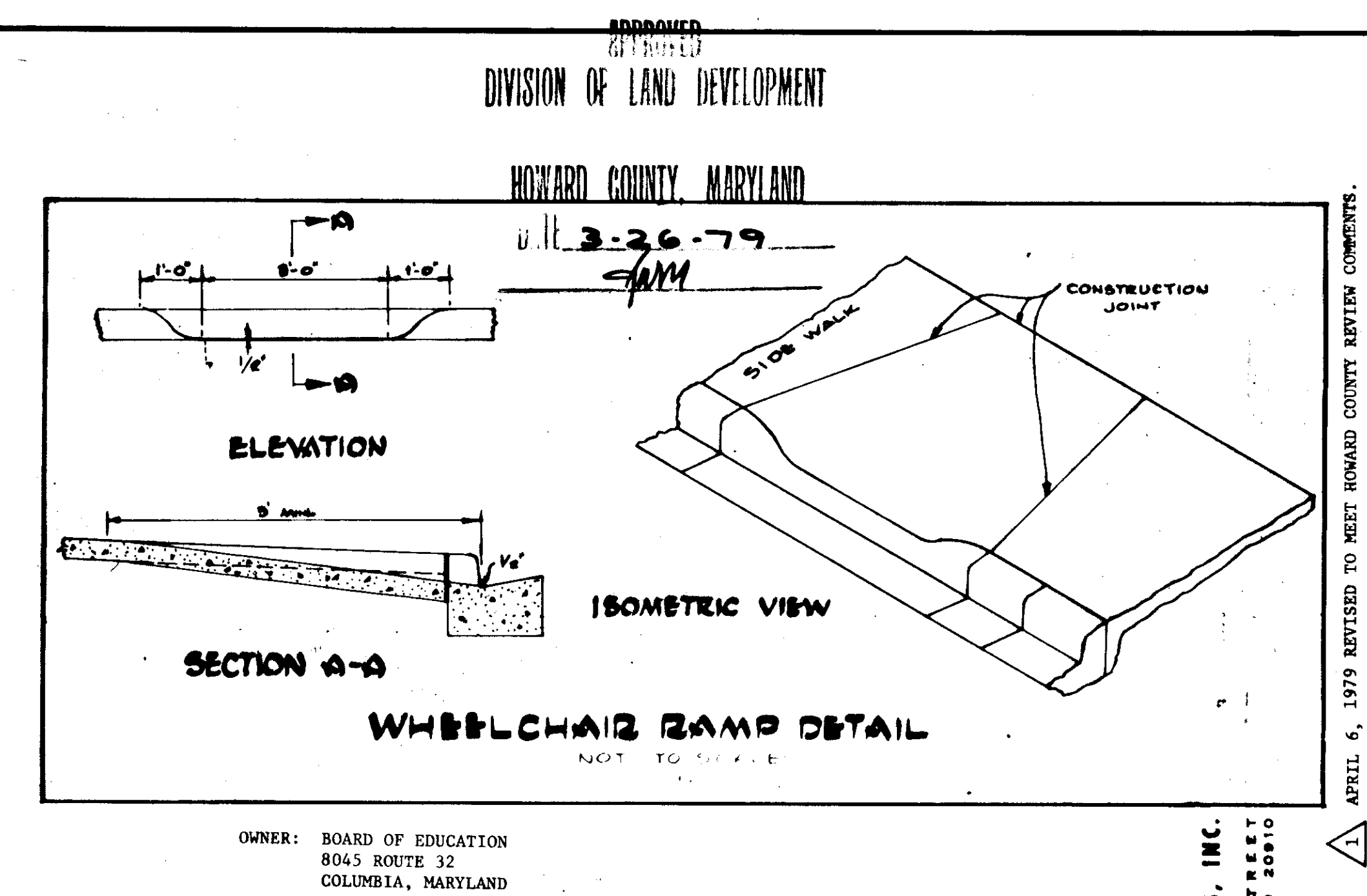
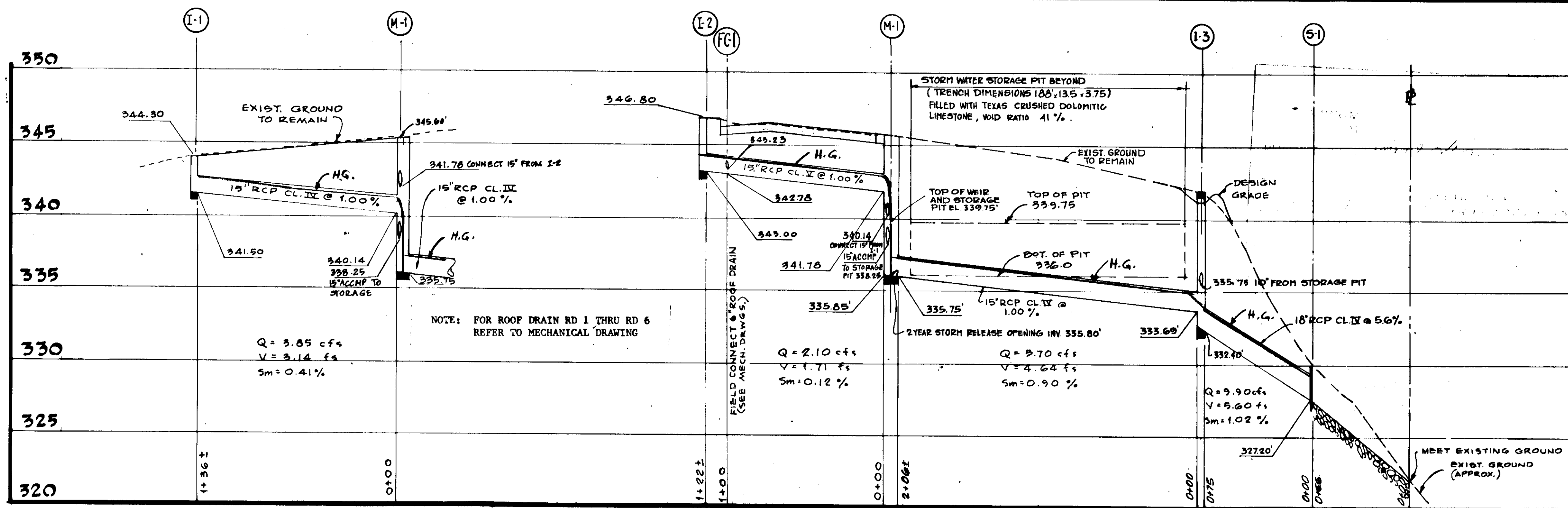
SITE DEVELOPMENT PLAN

Job No. 1949-B

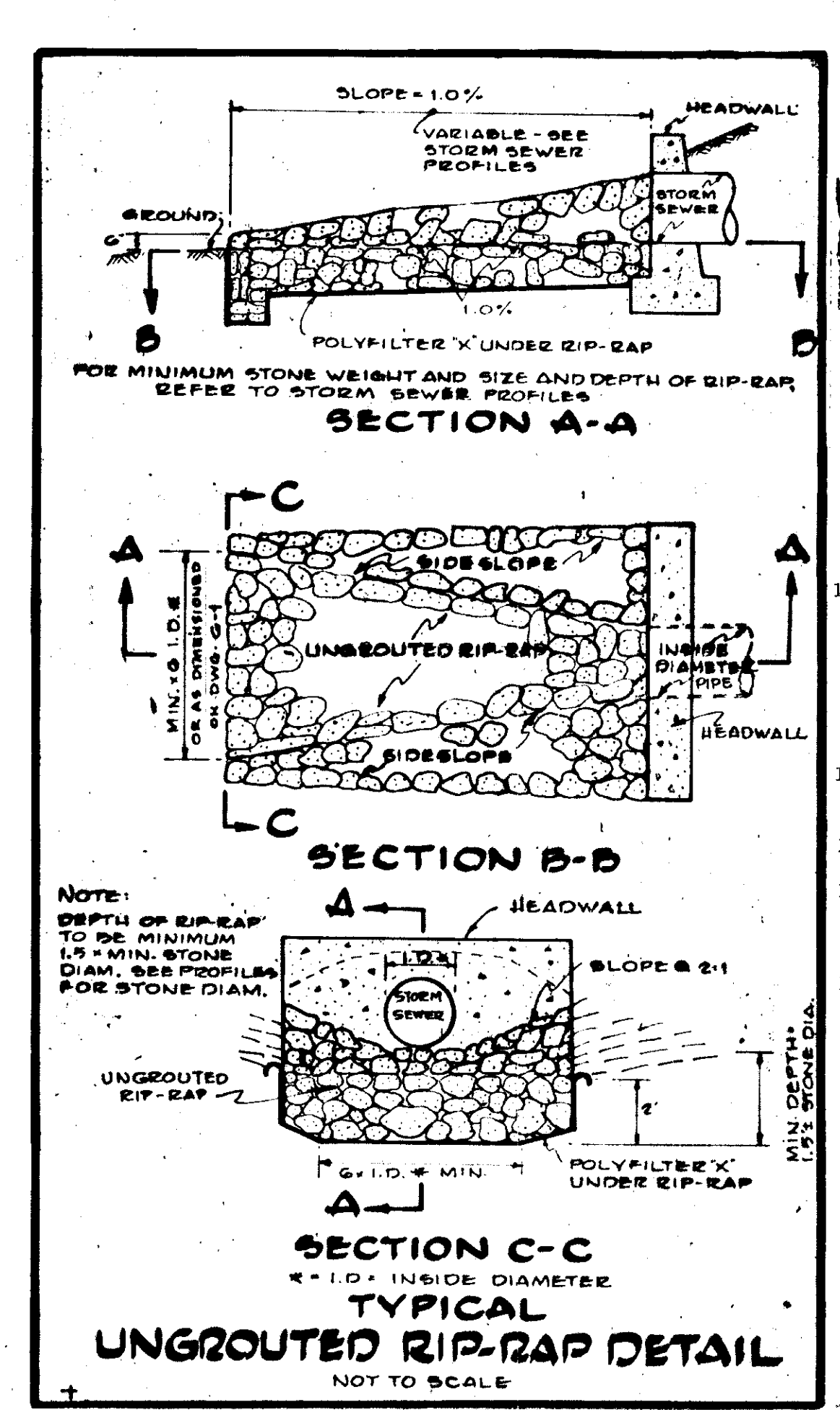
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1 of 3

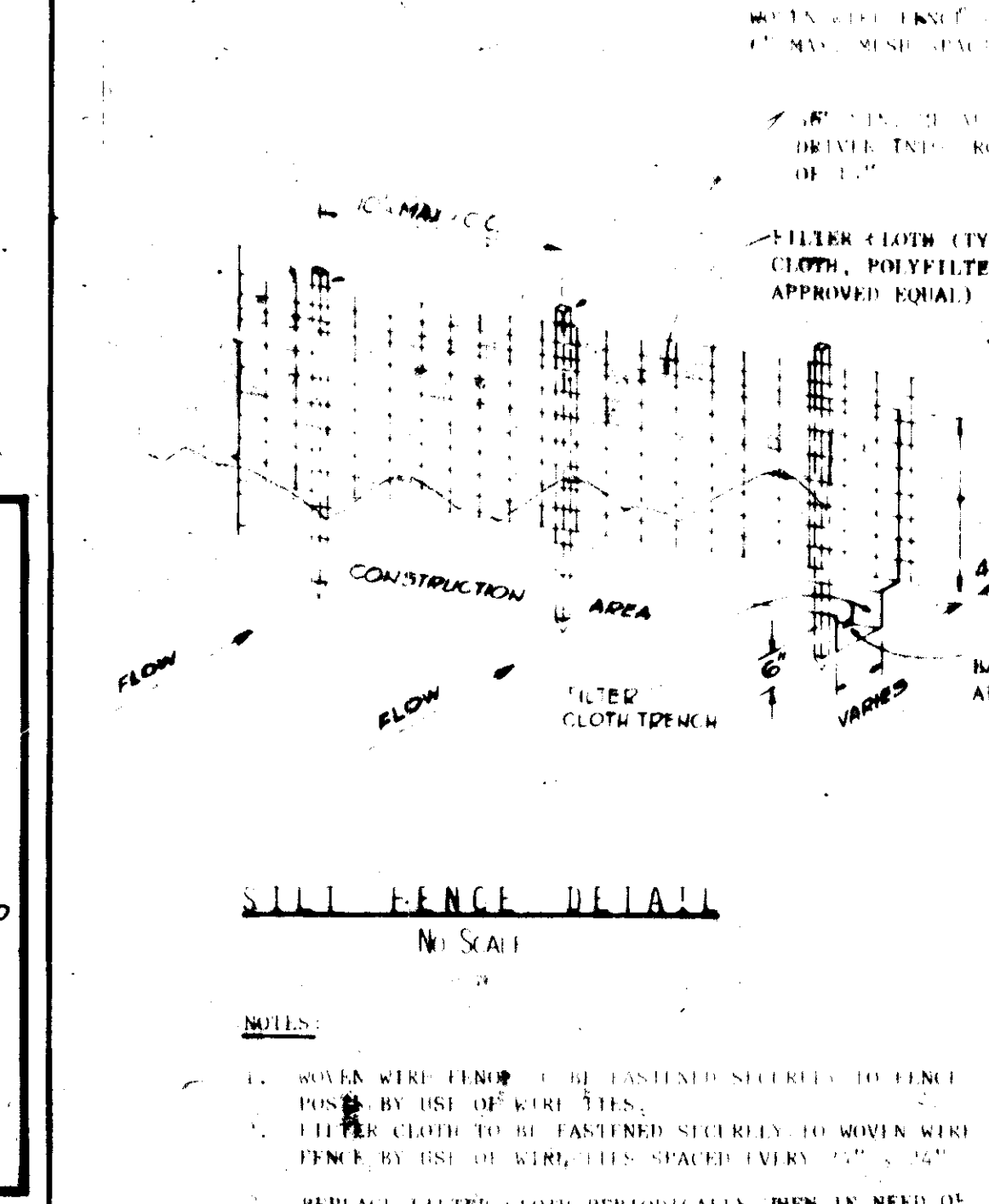
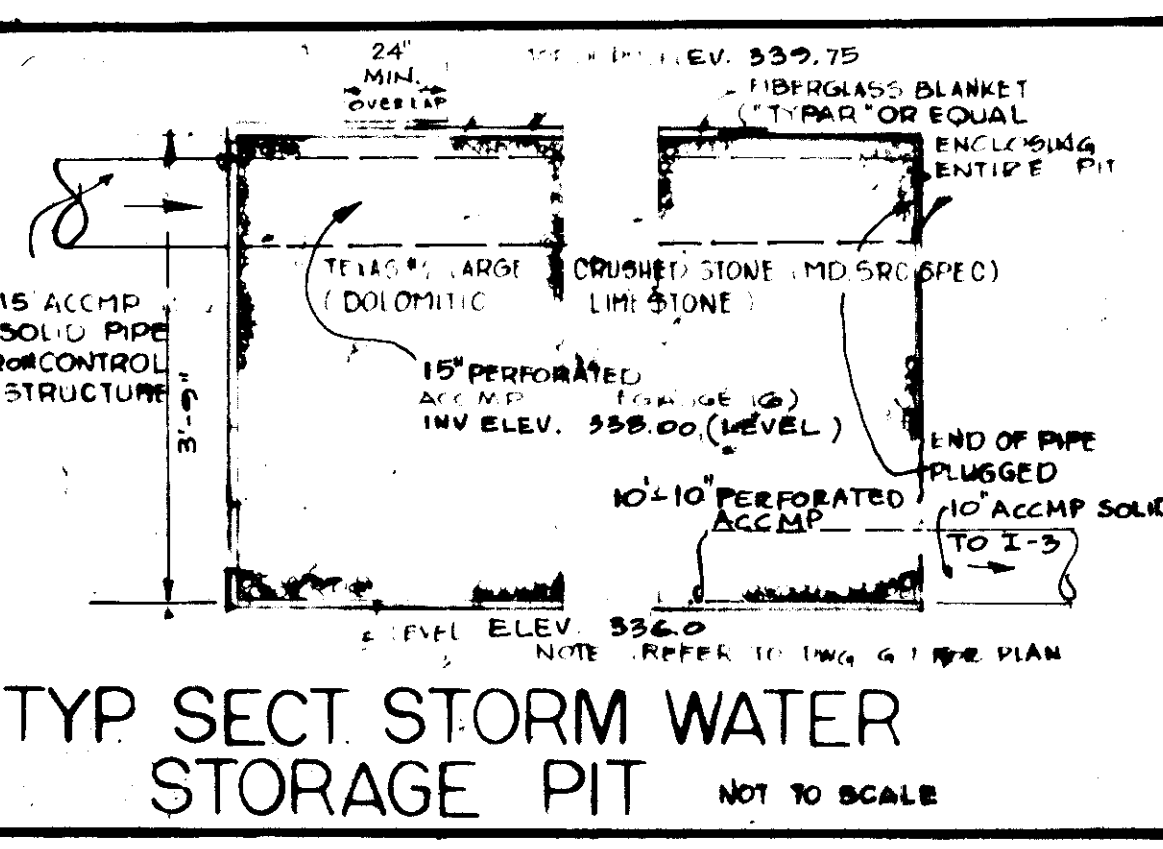
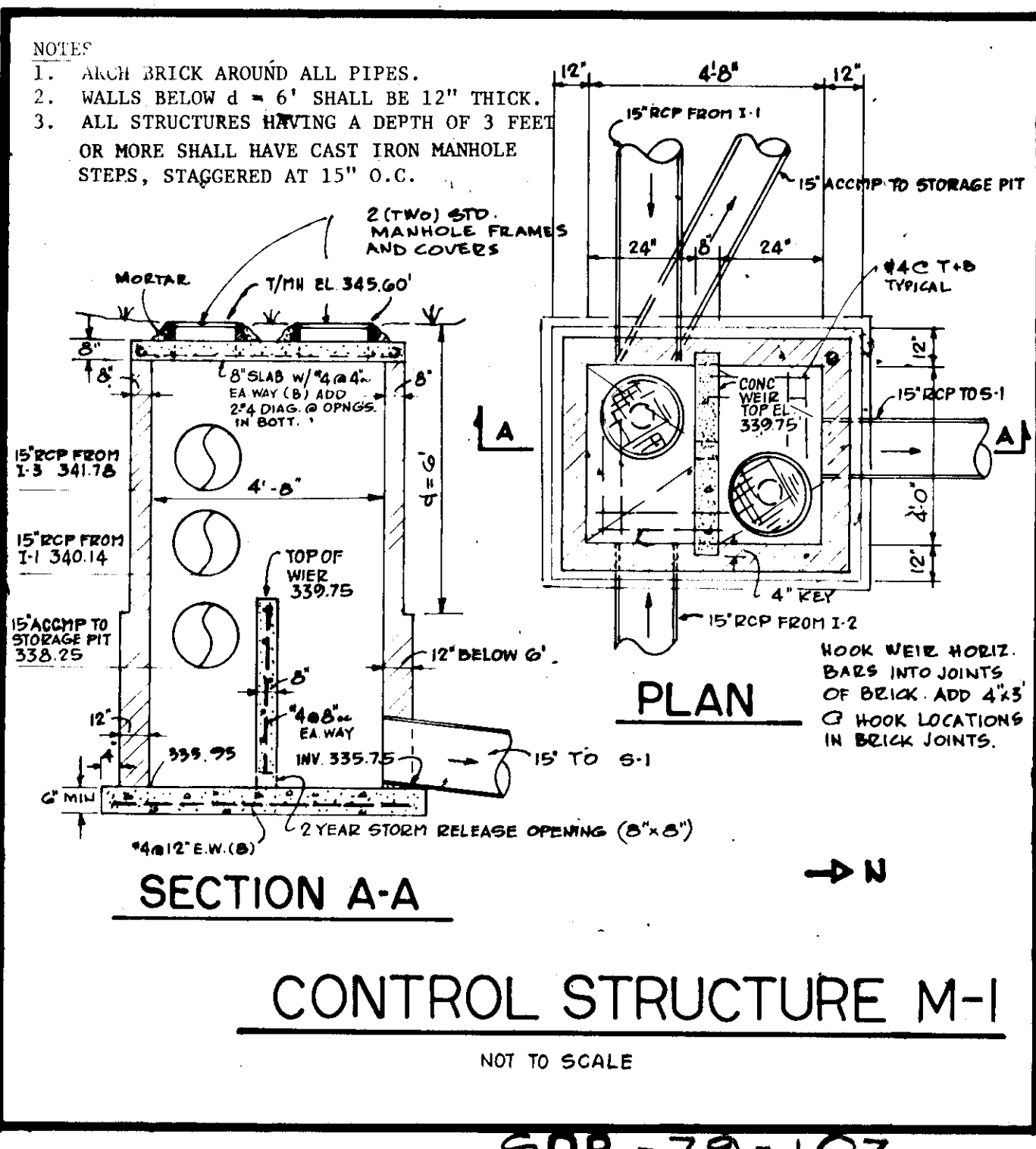




**STORM DRAIN PROFILES**



- SEDIMENT CONTROL NOTES:**
- CONTRACTOR SHALL NOTIFY THE WATER RESOURCES ADMINISTRATION-ENFORCEMENT DIVISION AT LEAST 24 HOURS PRIOR TO STARTING OF CONSTRUCTION.
  - ALL SEDIMENT AND EROSION CONTROL SHALL BE CONSTRUCTED AND STABILIZED IN ACCORDANCE WITH THE APPROVED PLANS. SEDIMENT CONTROL FEATURES MAY BE ADJUSTED IN THE FIELD; HOWEVER, PERMISSION FROM THE ENFORCEMENT DIVISION OF THE WATER RESOURCES ADMINISTRATION AND THE ARCHITECT MUST BE OBTAINED.
  - PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES AND FEATURES MUST BE PROVIDED IN ORDER TO INSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED.
  - TEMPORARY BERMS AND DIKES SHALL BE COMPACTED BY SEVERAL PASSES WITH THE CONSTRUCTION EQUIPMENT. BERMS AND DIKES SHALL BE STABILIZED IMMEDIATELY BY USING THE FOLLOWING RATES: 1 TON OF LIME PER ACRE, 500 LBS. OF 5-10-10 FERTILIZER PER ACRE, 1.5 TONS OF MULCH AND 40 LBS. OF RYE GRASS PER ACRE.
  - ALL DIKES MUST HAVE POSITIVE GRADE TO AN OUTLET.
  - FIELD LOCATIONS OF DIKES SHALL BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  - DIVERTED RUNOFF MUST OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA.
  - ALL DISTURBED UNPAVED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER FINE GRADING BY TOPSOILING, LIMING, FERTILIZING, AND SODDING. TOPSOIL SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES OF THE MARYLAND STATE HIGHWAY ADMINISTRATION.
  - PROPER ALLOWANCE IN FINISHED GRADE SHALL BE MADE FOR SOD.
    - TOPSOIL SHALL BE 4 INCHES THICK. PROPER ALLOWANCE IN FINISHED GRADE SHALL BE MADE FOR SOD.
    - LIME SHALL BE SPREAD AT A RATE OF ONE (1) TON PER ACRE.
    - FERTILIZER 5-10-10 OR EQUIVALENT SHALL BE APPLIED AT A RATE OF 1700 LBS. PER ACRE. BOTH LIME AND FERTILIZER SHALL BE UNIFORMLY APPLIED TO THE LOOSENEED SEEDBED AND SHALL BE RAKED SMOOTH PRIOR TO SEEDING OR SODDING.
  - FOR SOD SEEDING MIXTURE REFER TO CONTRACT SPECIFICATIONS THE SOD SHALL BE LAID TO A TIGHT FIT AND ROLLED IN ORDER TO KNIT TO THE SOIL. SODDED AREAS SHALL BE WATERED FOR UP TO 2 WEEKS, TO ENSURE ROOTING TO THE SOIL BELOW.
  - NO PERMANENT SLOPES SHALL BE STEEPER THAN 3:1. ALL SLOPES 4:1 AND STEEPER SHALL BE PEGGED.
  - NO TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHOUT THE PERMISSION OF THE ENFORCEMENT DIVISION OF THE WATER RESOURCES ADMINISTRATION AND ONLY PRIOR TO STABILIZATION OF THE DISTURBED TRIBUTARY AREAS.
  - ALL DISTURBED UNPAVED AREAS SHALL BE SODDED.



**SDP-79-107**

Reviewed for: \_\_\_\_\_ S.C.D.  
and meets Technical Requirements

Signature \_\_\_\_\_ Date \_\_\_\_\_  
U. S. Soil Conservation Service

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

Approved \_\_\_\_\_ Date \_\_\_\_\_  
Howard S.C.D.

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

Signature \_\_\_\_\_ DATE 4-23-79  
HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Signature \_\_\_\_\_ DATE 4-24-79  
PLANNING DIRECTOR

Signature \_\_\_\_\_ DATE 4-24-79  
CHIEF DIVISION OF LAND DEVELOPMENT

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

Signature \_\_\_\_\_ DATE 4-19-79  
DIRECTOR

Signature \_\_\_\_\_ DATE 4-19-79  
CHIEF BUREAU OF ENGINEERING

ASSOCIATED ENGINEERS, INC.  
3838 SILVER SPRING STREET  
SILVER SPRING, MARYLAND 20910

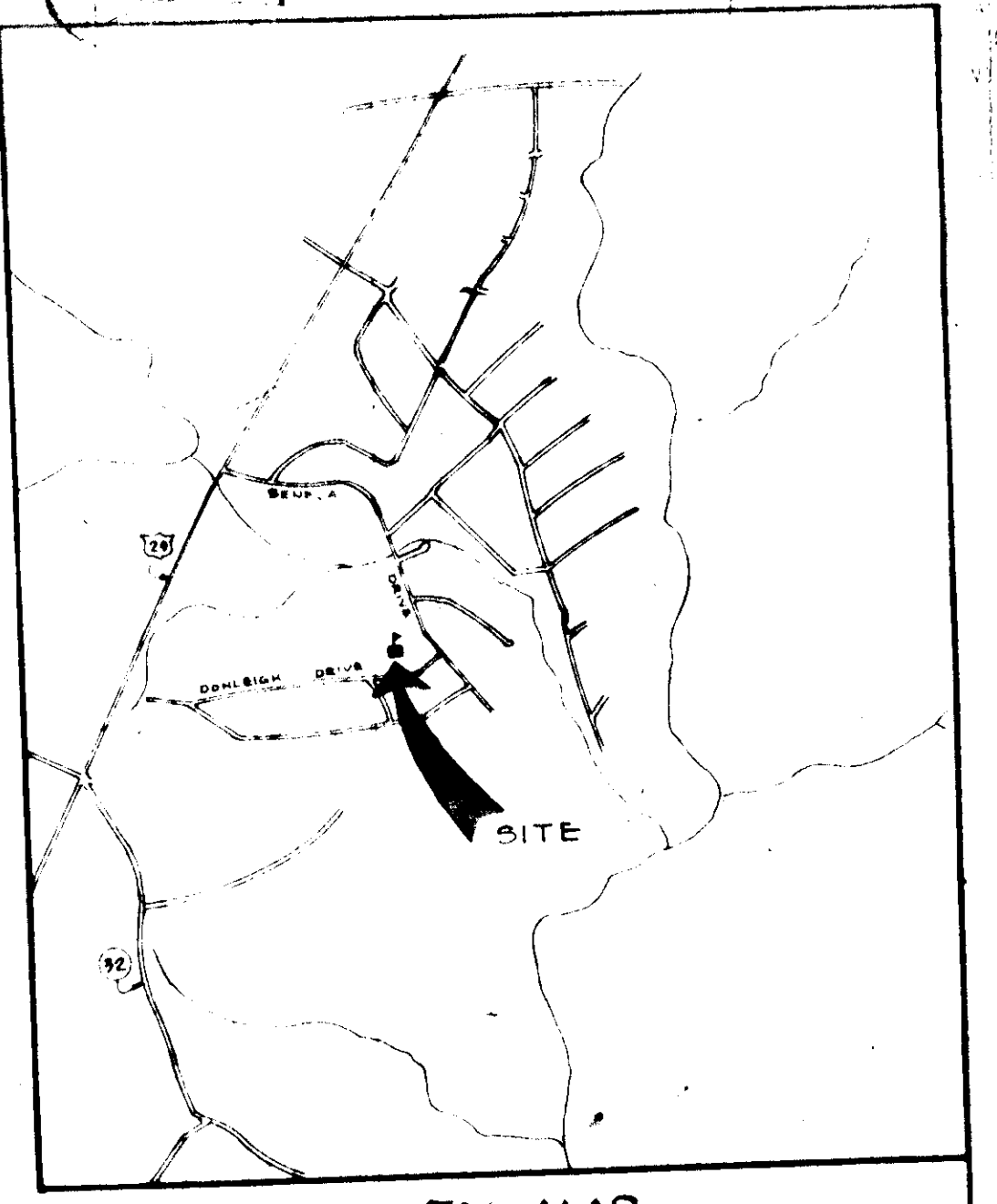
ATLANTON ELEMENTARY SCHOOL CLASSROOM & GYMNASIUM ADDITION  
HOWARD COUNTY, MARYLAND  
6TH ELECTION DISTRICT

STORM DRAIN PROFILES & DETAILS

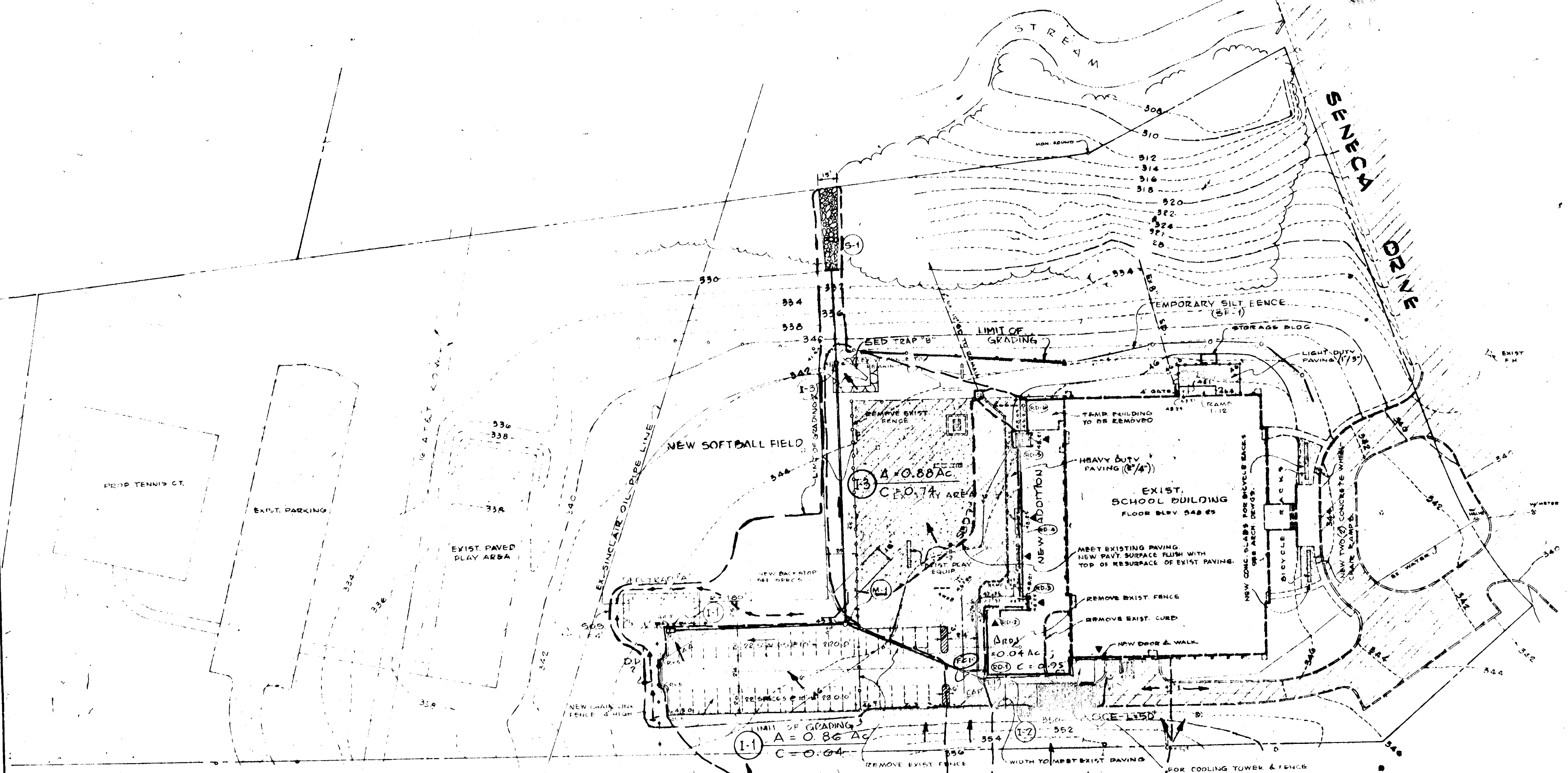
PROJ. NO. 1949-B  
SHEET NO. G-2 OF 3



OWNER: BOARD OF EDUCATION  
8045 ROUTE 32  
COLUMBIA, MARYLAND



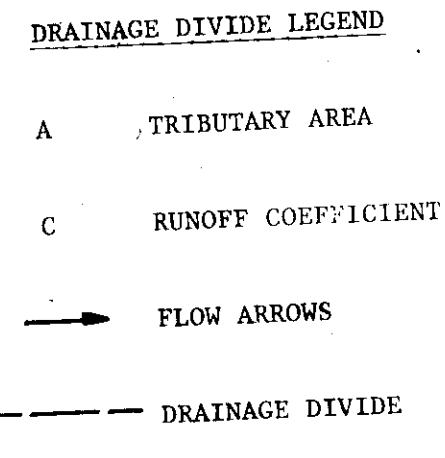
VICINITY MAP  
NOT TO SCALE



**LEGEND**

- 31.4 EXISTING CONTOURS
- 10 DESIGN CONTOURS
- 46.8 EXISTING SPOT GRADES
- 45.0 DESIGN SPOT GRADES
- [Symbol] EXISTING BUILDINGS
- [Symbol] PROPOSED ADDITION
- [Symbol] EXISTING CURB AND GUTTER
- [Symbol] NEW CURB AND GUTTER
- [Symbol] EXISTING PAVING
- [Symbol] NEW ASPHALT PAVING
- [Symbol] NEW CONCRETE PAVING
- [Symbol] NEW STORM DRAIN PIPE AND STRUCTURE
- [Symbol] NEW CONCRETE CURB (SEE ARCH. DRAWINGS FOR DETAIL)
- [Symbol] EXISTING FENCE TO BE REMOVED AND REPLACED WITH NEW PAVING
- [Symbol] EXISTING FENCE
- [Symbol] RESURFACE EXISTING PAVING
- [Symbol] NEW FENCE
- [Symbol] WHEELCHAIR RAMP
- [Symbol] PAINTED LINES FOR PARKING SPACES AND PAINTED ISLANDS
- [Symbol] ROOF DRAINS

- GENERAL NOTES**
- For building dimensions and additional details, refer to Architectural Drawings.
  - For sanitary sewer, water and roof drains refer to Mechanical Drawings.
  - For all electrical work refer to Electrical Drawings.
  - All disturbed, unpaved areas to be topsoiled, fertilized, limed and seeded. All slopes 4 to 1 and steeper shall be peaked. No permanent slopes shall be steeper than 3 to 1.
  - All construction and materials shall be in accordance with Howard County Road Construction Code and the applicable provisions of the Maryland State Highway Administration "Specifications for Materials, Highways, Bridges and Incidental Structures and Details".
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  - All exposed portions of channels, frames and grates of storm drainage structures shall receive two coats of approved paint.
  - All structures having a depth of 3 feet or more shall have cast iron manhole steps, staggered at 15" o.c.
  - Standard curb and gutter for drives and parking areas on site to be Howard County Standard 7" combination curb and gutter as shown on Drawing D-40, page 95 of the County Standards unless called for otherwise.
  - Contact "Miss Utility" at least 24 hours prior to commencing excavation.
  - Existing conditions in vicinity of building based on survey made by Associated Engineers, Inc., during October 1973. Bench mark used: "Iron" elevation West side of existing building - Elevation 348.95
  - Existing topography west of the existing oil pipe line based on available design drawings for the Atholton Park.
  - Width gutter of curbs to conform to adjacent drainage pattern.
  - Thickness of topsoil shall be 4 inches compacted.
  - Where storm sewer pipes are to be placed in fill areas, the fill shall be compacted to 95% density at optimum moisture content.
  - All silt-out and erosion control shall be installed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control in Development Areas.
  - All existing paving, curbs or grass areas disturbed in connection with the installation of any utility line shall be returned to its original condition in accordance with details shown or to meet applicable County requirements.



SCALE: 1" = 50'

**SEDIMENT TRAP SCHEDULE**

TRAP NO.	TYPE	TRIB. AREA (ACRES)	REQD CAP (CU. FT.)	LENGTH	DIMENSIONS (FT.)	DEPTH	ACTUAL CAP (CU. FT.)
A	SOS-1	1.92	2750	58	20	2	2764
B	ST-4	0.80	1447	24	20	2	1472

COMPLETE SET OF SITE DEVELOPMENT PLANS CONSIST OF:  
G-1 SITE DEVELOPMENT PLAN  
G-2 STORM DRAIN PROFILES AND DETAILS  
DI-1 DRAINAGE DIVIDE (NOT A CONTRACT DRAWING),  
5 PAGES OF COMPUTATIONS.

**DEVELOPER'S CERTIFICATION**  
I certify that all development and/or construction will be done in accordance with this plan of development and plan for erosion and sediment control and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be authorized by the Howard Soil Conservation District.

*Ronald J. Begany* 4/9/79

**ENGINEER'S CERTIFICATION**  
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.

*H.S.P.* April 8, 1979

APPROVED  
DIVISION OF LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE 3-26-79  
*JAW*

NOTE: THIS PLAN SHALL BE USED FOR DRAINAGE DIVIDES ONLY.

SDP-79-107

Reviewed for \_\_\_\_\_ S.C.D.  
and made Technical Requirements  
\_\_\_\_\_ Date \_\_\_\_\_  
Planned by \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_ Date \_\_\_\_\_  
E.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED FOR PUBLIC HEALTH AND PUBLIC UTILITY SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*John Boyer* 4-23-79  
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Thomas H. Harris* 4-24-79  
*John W. Muschman* 4-24-79  
APPROVED FOR EROSION CONTROL, SEDIMENT AND STORM DRAINAGE CONTROL AND LEAD PIPING CONTROL BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*George F. Nunn* 4-19-79  
*W.B. Kallat* 4-19-79  
CIVIL ENGINEERING

APRIL 6, 1979 REVISED TO MEET HOWARD COUNTY REVIEW COMMENTS.

*H.S.P.*

JOHANNES & MURRAY & ASSOCIATES  
REGISTERED ARCHITECTS  
SILVER SPRING, MARYLAND 20910

ASSOCIATED ENGINEERS, INC.  
SITE ENGINEERS  
SILVER SPRING, MARYLAND 20910

ATHOLTON ELEMENTARY  
SCHOOL  
HOWARD COUNTY, MARYLAND  
6TH ELECTION DISTRICT

DRAINAGE DIVIDES

Job No. 1947-D  
Sheet No. DD-1  
3 of 3

SDP-79-107