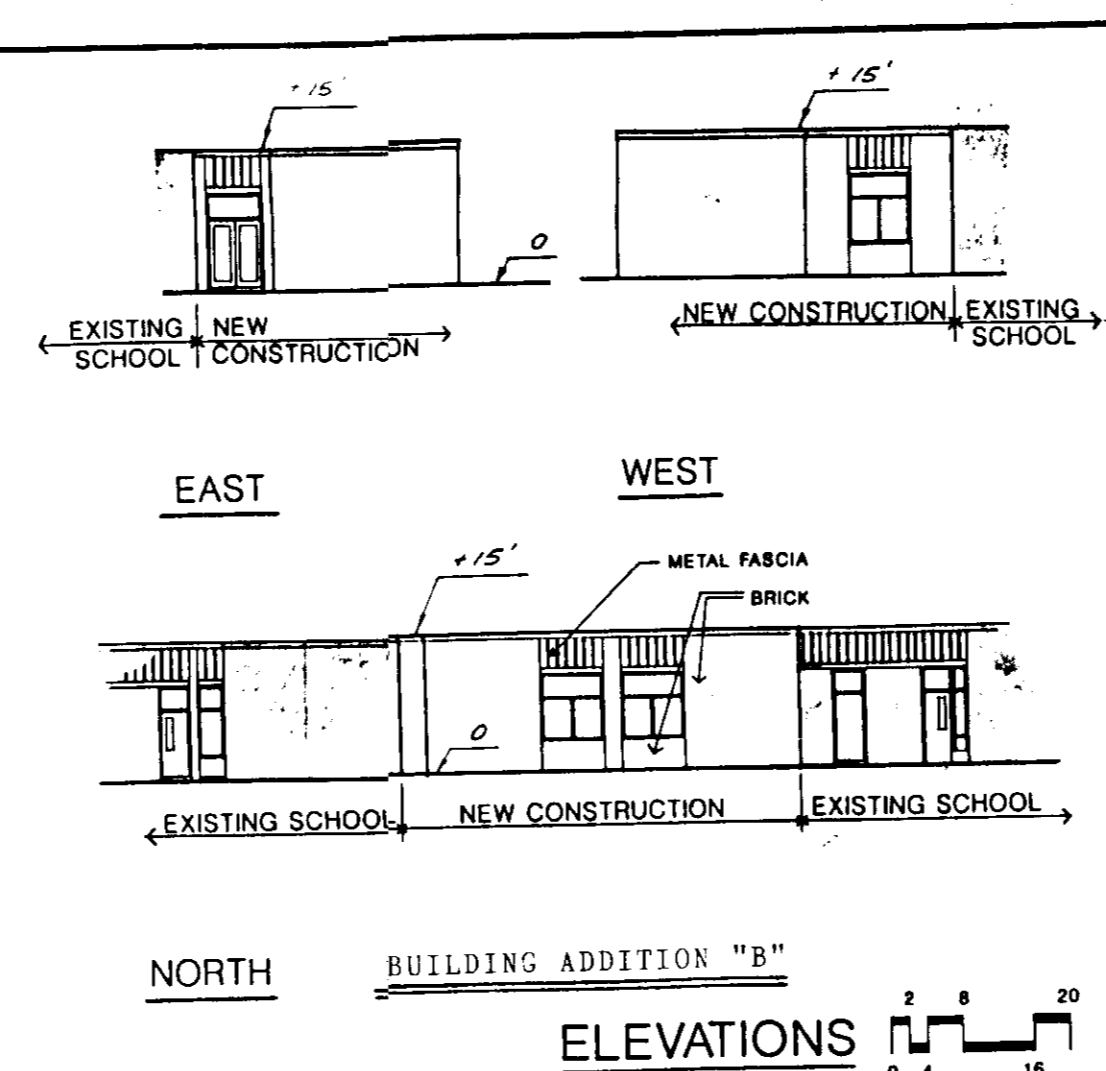
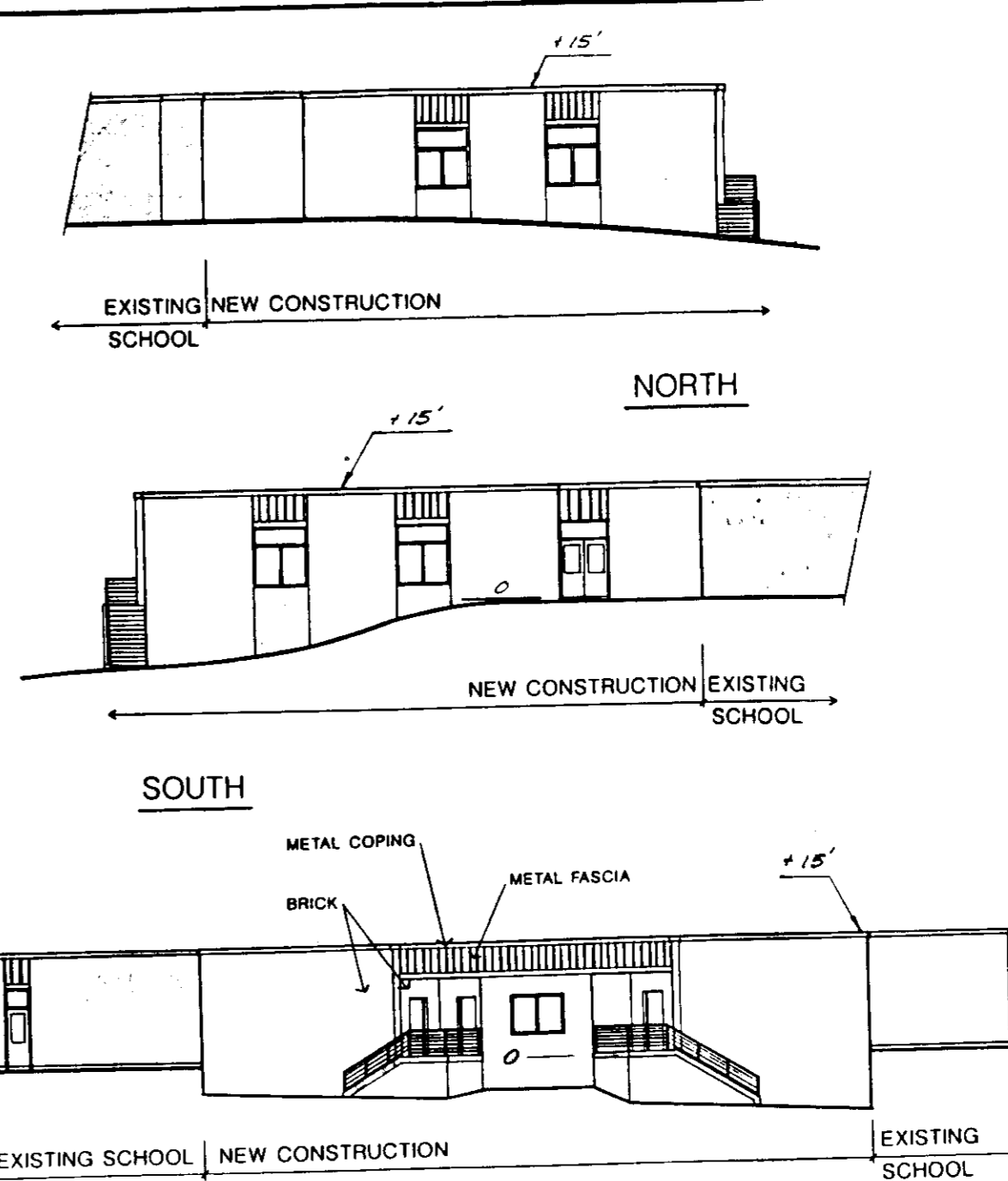


**BERM - MOWING STRIP DETAIL**  
No Scale



**ELEVATIONS**



**ELEVATIONS**



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

*John Boy* 12-15-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*W. P. ...* 12-21-87  
PLANNING DIRECTOR DATE

*James ...* 12/16/87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADM. DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James ...* 12/16/87  
DIRECTOR DATE

*Thomas ...* 12-16-87  
CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:  
"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 AGENTS, AS ARE DEEMED NECESSARY."  
*Henry ...* 12/16/87  
DEVELOPER DATE

9-30-87

- Construction Notes**
- All materials and construction to be in accordance with Howard County "Standard Specification & Details for Construction".
  - Any damage to county owned rights-of-way to be corrected at the developer's expense.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - Notify "Miss Utility" at 559-0100 before beginning construction.
  - Topography was prepared by M. and H. Development Engineers, Inc., dated 07/17/87 & original bldg. construction drawings.
  - Driveway and parking areas to be privately maintained.
  - Sod all disturbed lawn areas.
  - The following paving standards apply:  
Sidewalk R-3.05  
Chain Link Fence Gate G-8.03  
Driveway ramp R-6.02  
Pipe encasement G-2.02
- Other Standards may additionally apply as needed to complete the proposed construction.

- SITE ANALYSIS**
- Land Area = 10.772 Ac.
  - Zoning: New Town - Open Space FDP 136-II-A.
  - Proposed: Addition to Elementary School.
  - Floor area of addition = 6,732 s.f.
  - Building height = One story, 15' above floor grade (same as existing)
  - Parking: No new parking added, 60 existing spaces.
  - Bus drop off area = area unchanged to be restriped to 7 - 11' x 44' spaces.
  - Open space: per FDP-136-1-A-1 = 21.976 Ac.  
per FDP-136-II-A = 12.440 Ac.  
Total open space = 34.416 Ac.
  - Existing buildings: 1.178 Ac.
  - Proposed building Additions: "A" = 5242 s.f. = 0.1203 Ac.  
"B" = 1490 s.f. = 0.0342 Ac.  
Total 0.1545 Ac.
  - Total building area = 1.3325 Ac.
  - Building coverage = 3.87%

- INDEX TO DRAWINGS**
- SITE PLAN
  - PLAN OF SEDIMENT CONTROL
  - SEDIMENT CONTROL DETAILS

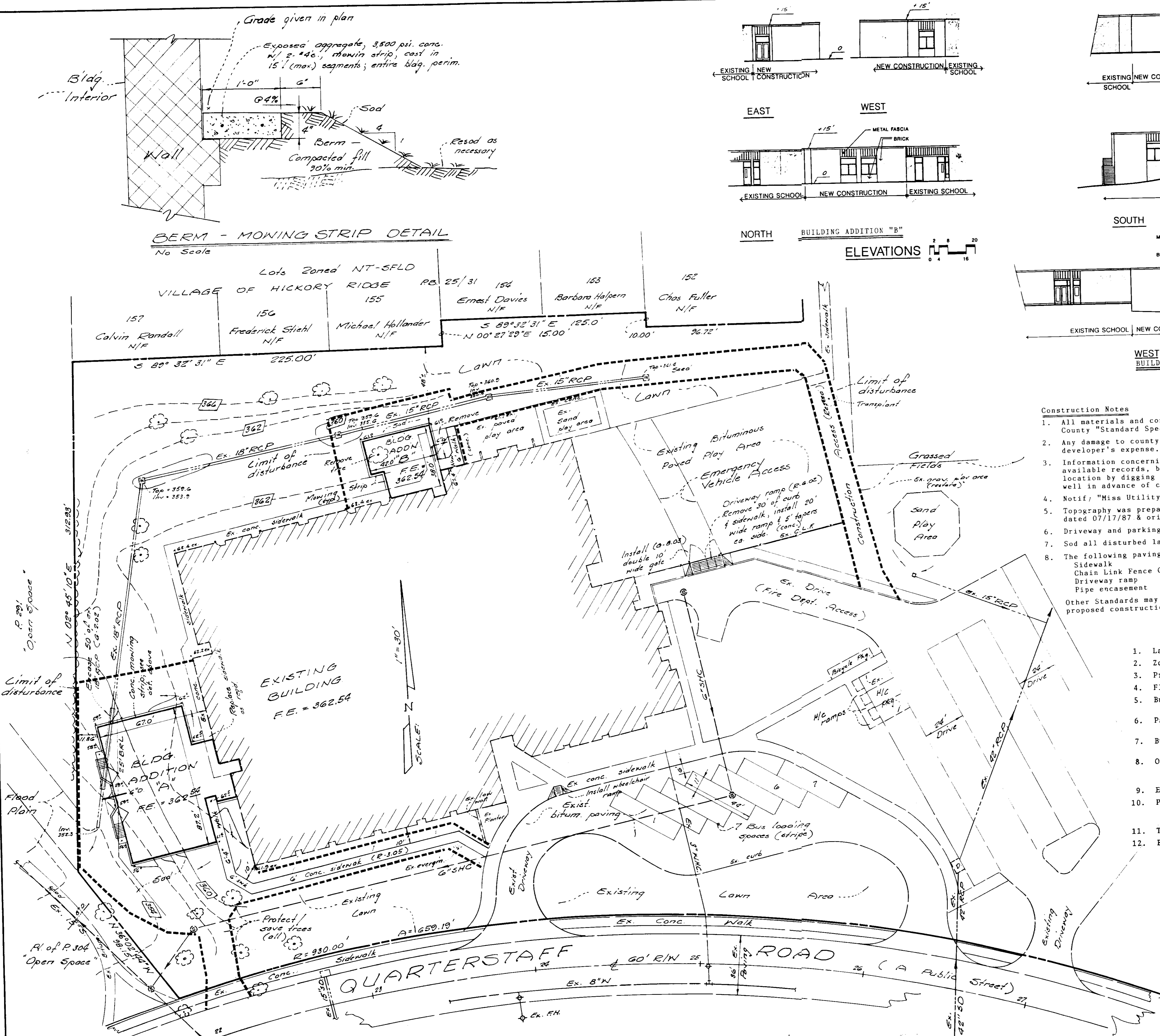
**SITE PLAN  
ADDITION TO  
CLEMENS CROSSING  
ELEMENTARY SCHOOL  
VILLAGE OF HICKORY RIDGE  
COLUMBIA, HOWARD CO., MD.  
1 1/2 Lot 22 5th ED. SDP 88-30**

OWNER - DEVELOPER HOWARD COUNTY BD. OF EDUC. 10910 RT. 108 ELLICOTT CITY, MD 21043 992-0500		Subdivision Name Village of Hickory Ridge	Seal / Area 2	Lot / Parcel # 329
3406	18	New Tn. 05	35/36	5
Water Code: E-30		Sever Code: 5323900		
PENKIUNAS & ASSOCIATES Engineers 8855 ANNAPOLIS RD. LANHAM, MD. 20706 301-577-5053		DATE AUG 1987	DRAWING SCALE 1" = 30'	
JOB NO. 8708		OF 3		

**Address Chart**

Lot #	Street Address
329	10320 Quarterstaff Rd.

NOTE:  
ALL FACILITIES DAMAGED BY CONSTRUCTION SHALL BE RESTORED/REPAIRED AT THE CONTRACTOR'S EXPENSE.

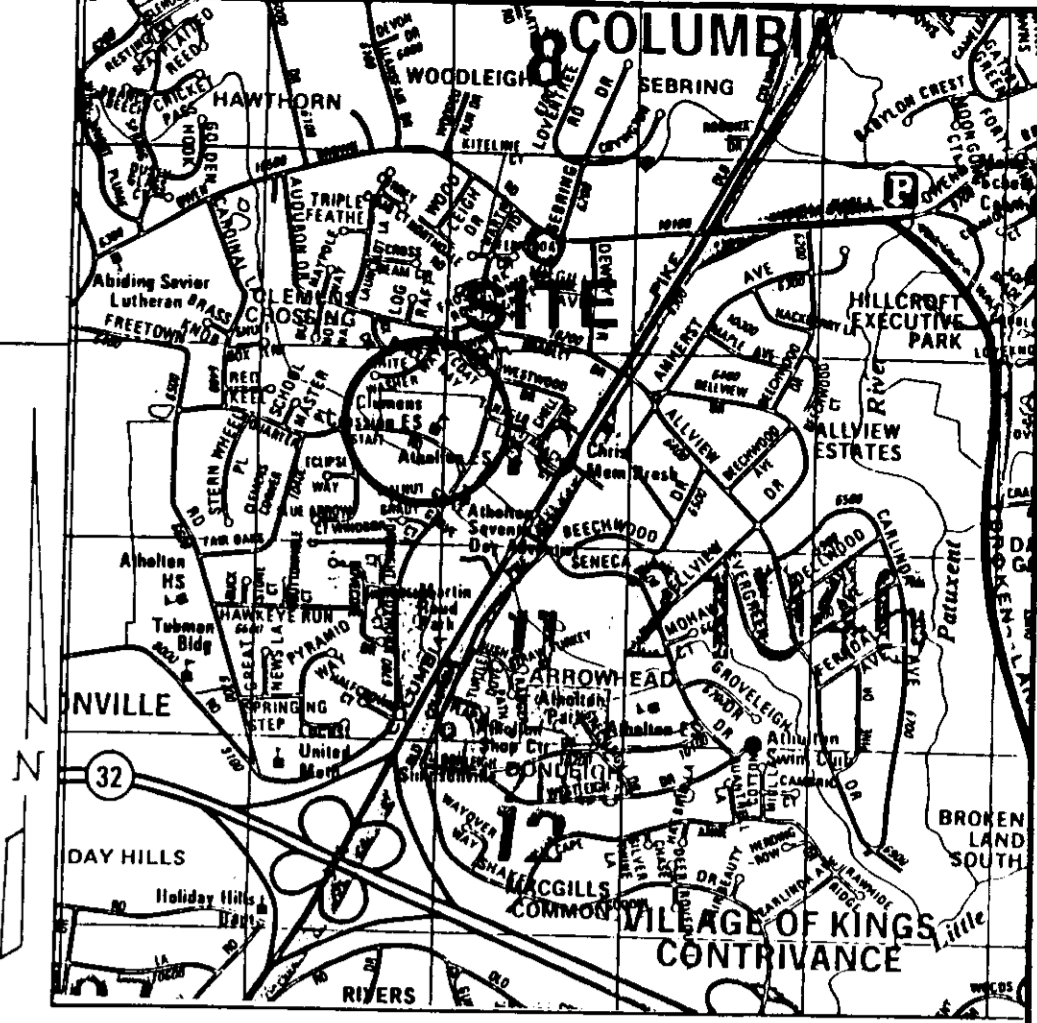


THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD S.C.D. NAME  
AND MEETS TECHNICAL REQUIREMENTS

APPROVED HOWARD S.C.D. DATE \_\_\_\_\_  
PLAN NUMBER \_\_\_\_\_

SIGNATURE [Signature] DATE 12/18/87  
U.S. SOIL CONSERVATION SERVICE



VICINITY MAP Scale: 1" = 2,000'

**SEDIMENT CONTROL**

**Developer's Certification:**

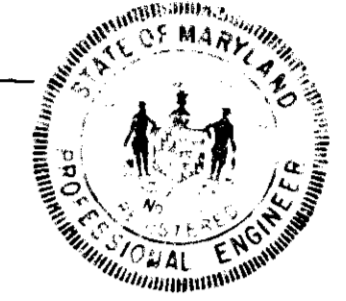
"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."

\_\_\_\_\_  
Date \_\_\_\_\_

**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."

\_\_\_\_\_  
Date \_\_\_\_\_



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

\_\_\_\_\_  
COUNTY HEALTH OFFICER DATE 12-15-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

\_\_\_\_\_  
PLANNING DIRECTOR DATE 12.21.87

\_\_\_\_\_  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADM. DATE 12/16/87

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

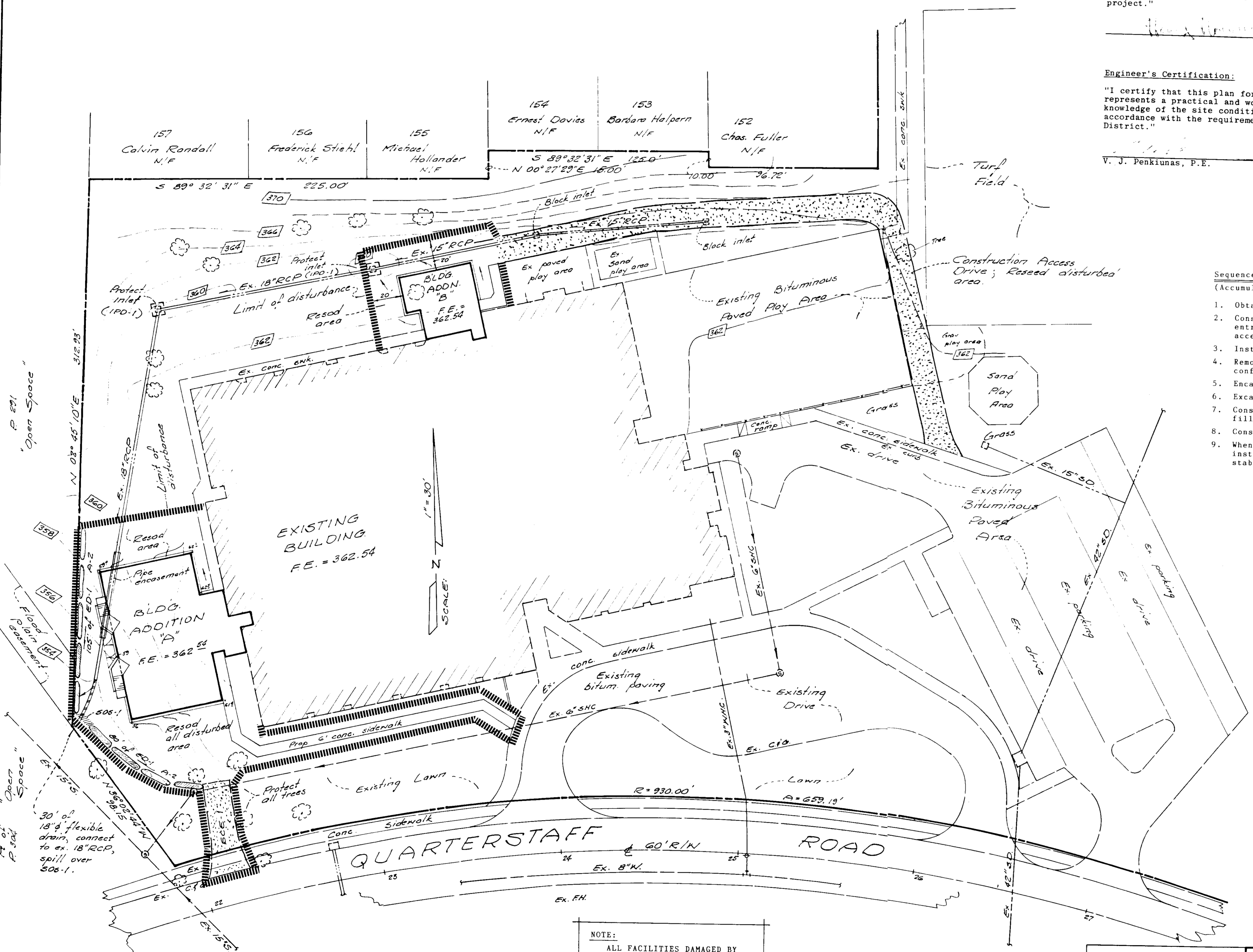
\_\_\_\_\_  
DIRECTOR DATE 12/16/87

\_\_\_\_\_  
CHIEF, BUREAU OF ENGINEERING DATE 12-16-87

BY THE DEVELOPER:  
"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 AGENTS, AS ARE DEEMED NECESSARY."

\_\_\_\_\_  
DEVELOPER DATE 12/18/87

APPROVED  
DATE 9-30-87



**Sequence of Construction**  
(Accumulative calendar days to start of:)

1. Obtain grading and building permits.
2. Construct stabilized construction entrance off Quarterstaff Rd. & gravel access drive off parking area.
3. Install sediment control measures.
4. Remove existing site improvements in conflict with proposed construction.
5. Encase storm drain as shown.
6. Excavate for foundations.
7. Construct foundation walls and place fill within.
8. Construct building.
9. When building is substantially completed install sidewalks, fine grade & final stabilize as required in plan.

0 d.  
4 d.  
7 d.  
10 d.  
14 d.  
17 d.  
28 d.  
180 d.

NOTE:  
ALL FACILITIES DAMAGED BY CONSTRUCTION SHALL BE RESTORED/REPAIRED AT THE CONTRACTOR'S EXPENSE.

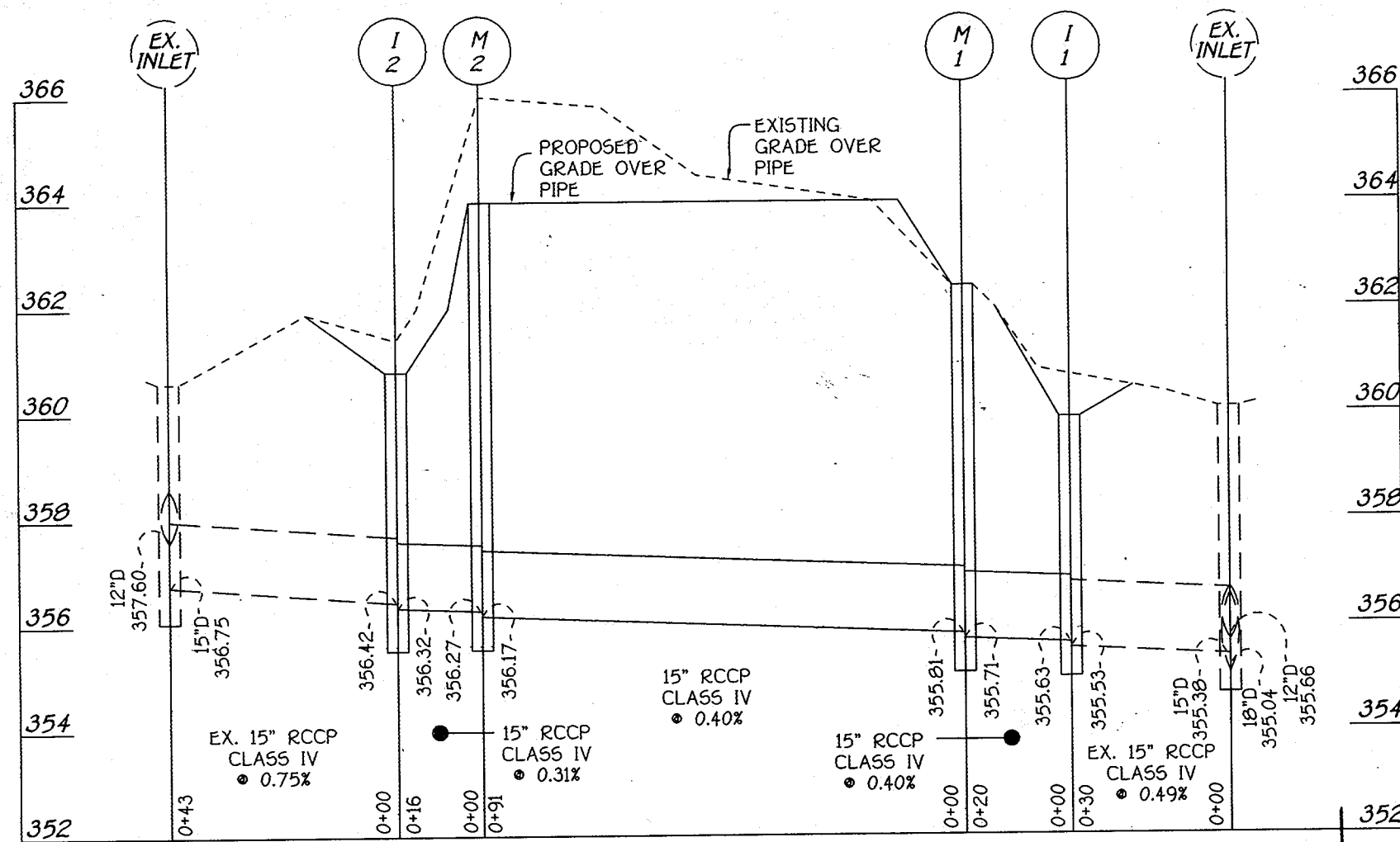
OWNER - DEVELOPER HOWARD COUNTY BD. OF EDUC. 10910 RT. 108 ELLCOTT CITY, MD 21043 992-0500	REVISIONS	ENGINEERS PENKIUNAS & ASSOCIATES 8855 ANNAPOLIS RD. LANHAM, MD. 20706 301-577-5053	DATE SCALE JOB NO.	DRAWING OF 3
--	-----------	--	--------------------------	-----------------

PLAN OF SEDIMENT CONTROL  
ADDITION TO  
CLEMEN'S CROSSING  
ELEMENTARY SCHOOL  
VILLAGE OF HICKORY RIDGE  
COLUMBIA, HOWARD CO., MD.  
5th E.D. S.D.P. 88-30









△

PIPE SCHEDULE

SIZE	CLASS	LENGTH
15"	RCCP	127

△

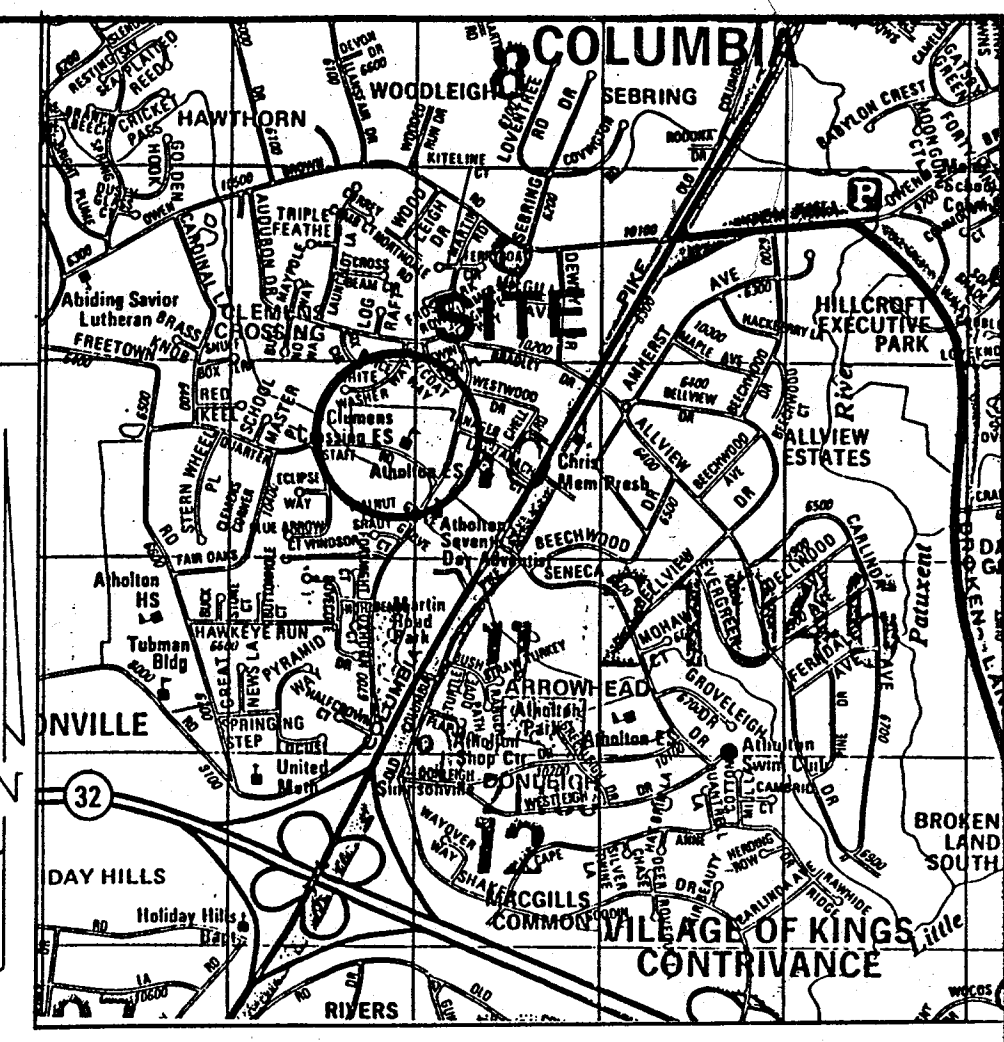
STRUCTURE SCHEDULE

STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	LOCATION			TYPE	REMARKS
				NORTH	EAST	W		
I-1	359.90	355.63 (15')	355.53 (15')	40012.26	40179.69	-	S INLET W/ RETICULAR GRATE	S.D. 4.22 W/ S.D. 4.93
I-2	360.80	356.42 (15')	356.32 (15')	40003.18	40070.61	-	S INLET W/ RETICULAR GRATE	S.D. 4.22 W/ S.D. 4.93
M-1	364.00	355.81 (15')	355.71 (15')	39999.66	40164.31	4'	PRECAST MANHOLE	G - 5.12
M-2	365.50	356.27 (15')	356.17 (15')	39987.29	40073.70	4'	PRECAST MANHOLE	G - 5.12

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED Howard S. C.D. DATE 12/8/87

REVIEWED FOR HOWARD S.C.D. NAME  
AND MEETS TECHNICAL REQUIREMENTS  
SIGNATURE Howard S. C.D. DATE 12/19/87  
U.S. SOIL CONSERVATION SERVICE



**SEDIMENT CONTROL**

**Developer's Certification:**

"I/We certify that all development and construction will be done according to this plan, 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."

Henry Howmy DATE 12/07/87

**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."

V. J. Penkiunas, P.E. DATE 12/07/87



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

James P. Allen DATE 12-15-87  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

W. J. P. Allen DATE 12-21-87  
PLANNING DIRECTOR

James P. Allen DATE 12/16/87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADM.

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James P. Allen DATE 12/16/87  
DIRECTOR

James P. Allen DATE 12-16-87  
CHIEF, BUREAU OF ENGINEERING

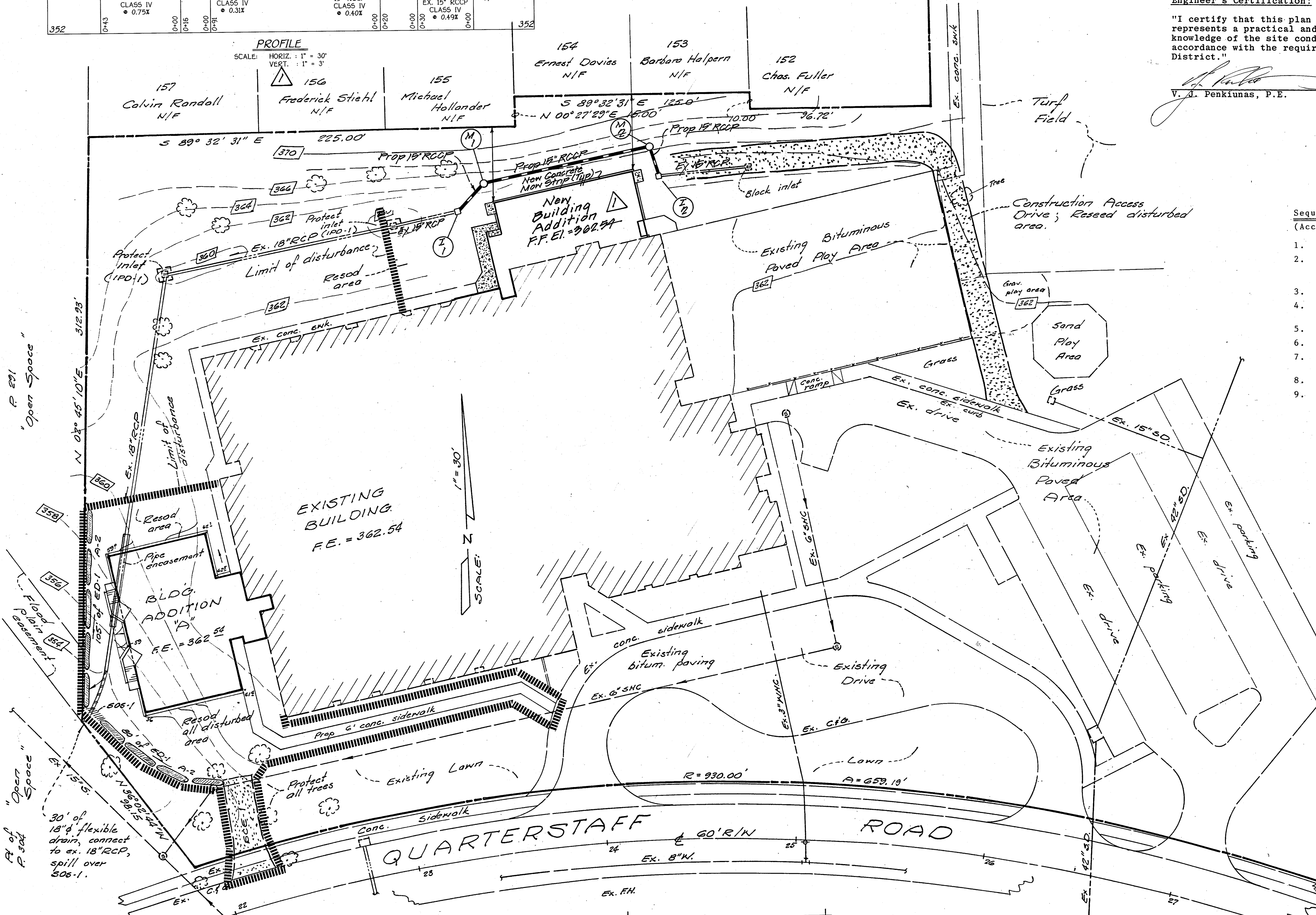
BY THE DEVELOPER:  
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Henry Howmy DATE 12/07/87  
DEVELOPER

**Sequence of Construction**  
(Accumulative calendar days to start of:)

1. Obtain grading and building permits.
2. Construct stabilized construction entrance off Quarterstaff Rd. & gravel access drive off parking area.
3. Install sediment control measures.
4. Remove existing site improvements in conflict with proposed construction.
5. Encase storm drain as shown.
6. Excavate for foundations.
7. Construct foundation walls and place fill within.
8. Construct building.
9. When building is substantially completed install sidewalks, fine grade & final stabilize as required in plan.

△  
CONSTRUCTION SEQUENCE FOR CLASSROOM ADDITION

- 1) Obtain Grading Permit.
- 2) Notify "Miss Utility" at least 48 hours before beginning any work at 1-800-257-7777. Notify the Howard County Office of Construction/Inspection at 410-313-1330 24 hours before starting work.
- 3) Relocate storm drain system as shown on sheet 1.1 week.
- 4) Grade to subgrade classroom addition area. Install sediment control measures shown on the plans. 1 week.
- 5) Construct classroom addition. 9 months.
- 6) Fine grade disturbed areas and stabilize with permanent seeding.
- 7) Notify Howard County Office of Construction/Inspection for permission for removal of sediment control measures and stabilize disturbed areas with permanent seeding.



NOTE:  
ALL FACILITIES DAMAGED BY CONSTRUCTION SHALL BE RESTORED/REPAIRED AT THE CONTRACTOR'S EXPENSE.

OWNER - DEVELOPER  
HOWARD COUNTY BD. OF EDUC.  
10910 RT. 108  
ELLICOTT CITY, MD 21043  
992-0500

Date	REVISIONS	No.
9-28-86	Added building addition, storm drain (M-1, M-2, F-1, F-2 & 15\"/>	

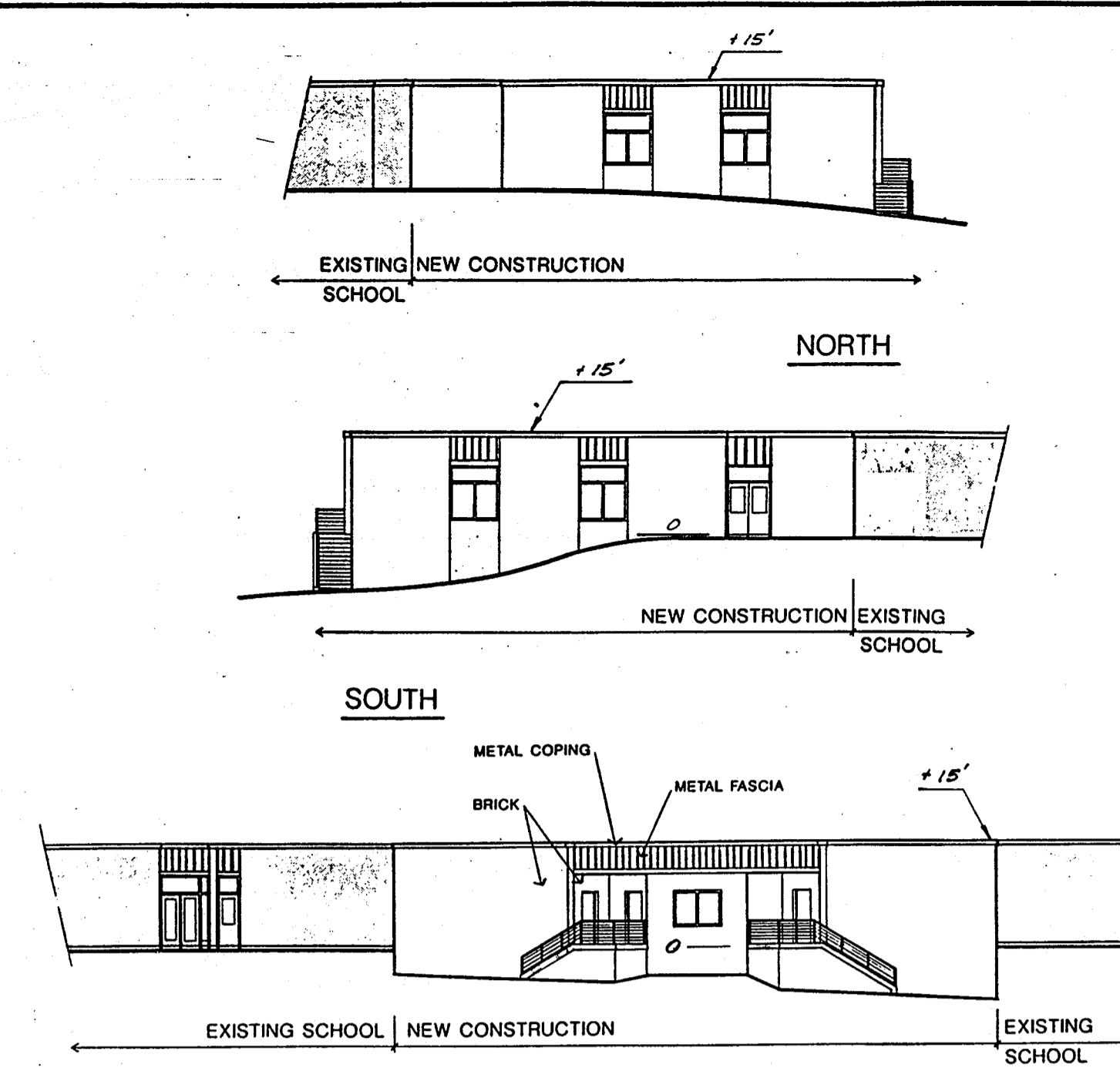
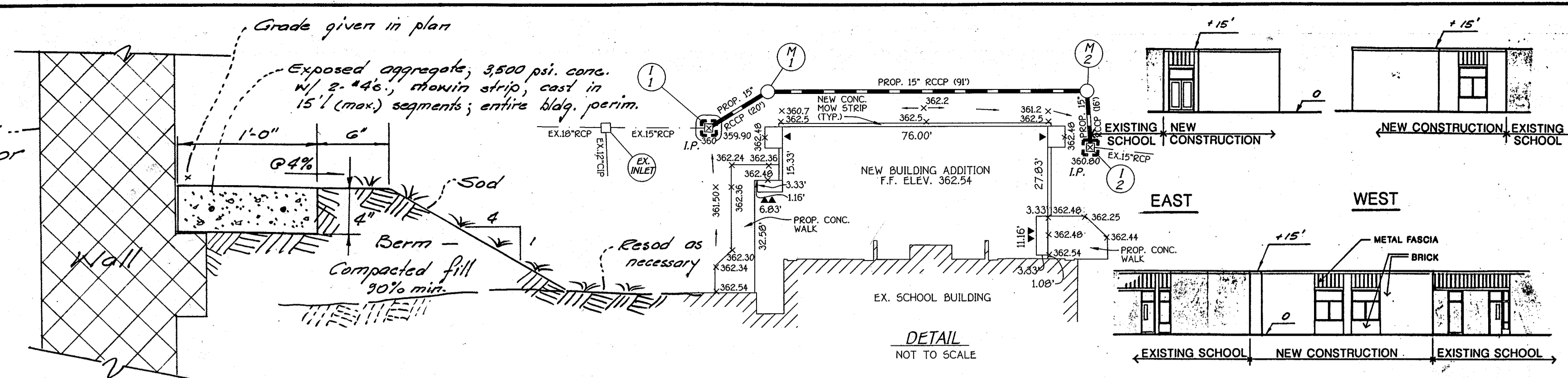
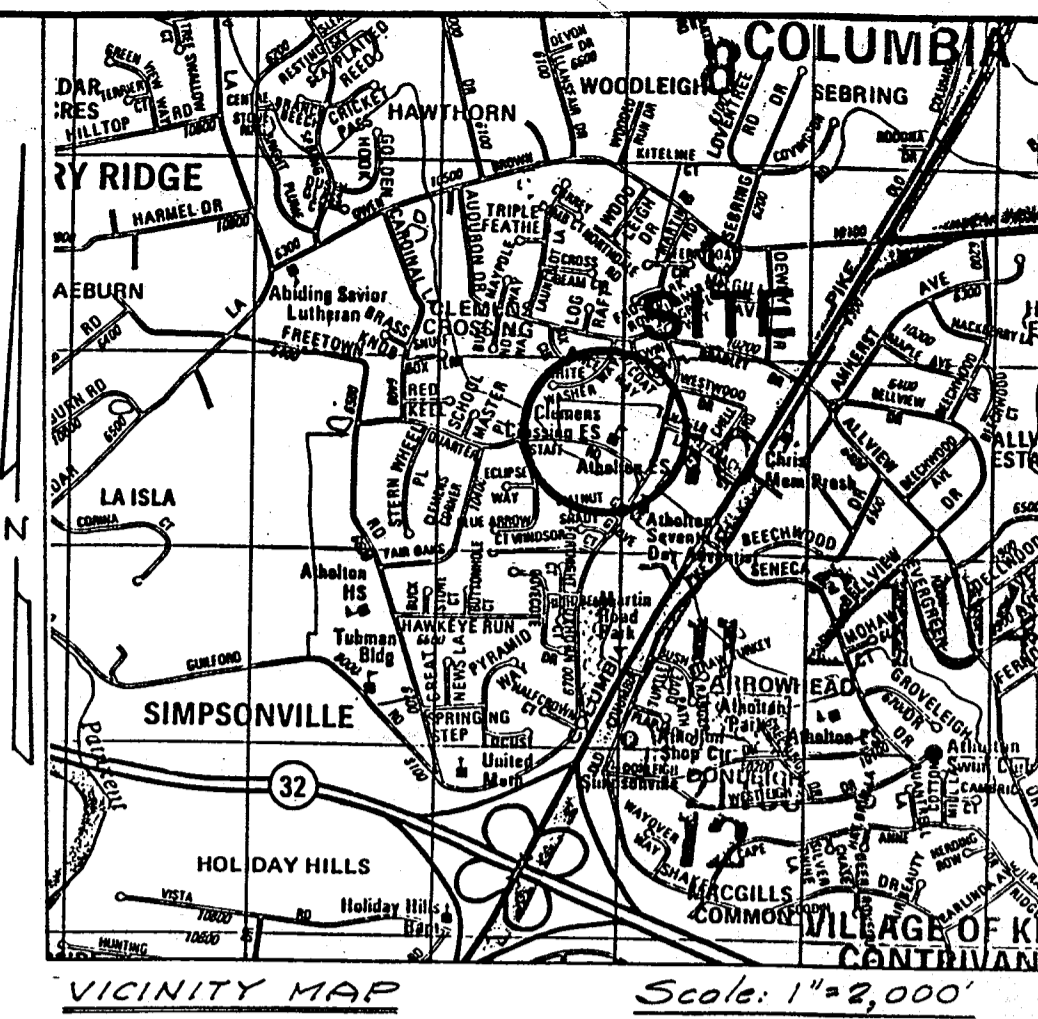
ENGINEERS  
**PENKIUNAS & ASSOCIATES**  
8855 ANNAPOLIS RD.  
LANHAM, MD. 20706  
301-577-5033

DATE: \_\_\_\_\_  
SCALE: \_\_\_\_\_  
JOB NO. \_\_\_\_\_  
DRAWING \_\_\_\_\_  
OF 3



PLAN OF SEDIMENT CONTROL ADDITION TO CLEMENS' CROSSING ELEMENTARY SCHOOL VILLAGE OF HICKORY RIDGE COLUMBIA, HOWARD CO., MD. 1/2 Lot 329, 5th E.D. SDP 88-30





**BERM - MOWING STRIP DETAIL**  
No Scale

**ELEVATIONS**  
1/8" = 4'

**ELEVATIONS**  
1/8" = 4'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*John B. ...* 12-15-87  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*U. ...* 12.21.87  
 PLANNING DIRECTOR DATE

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADM.  
*James ...* 12/16/87  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADM. DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Ramus ...* 12/16/87  
 DIRECTOR DATE

*W. ...* 12-16-87  
 CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:  
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*Henry ...* 12/07/87  
 DEVELOPER DATE

- Construction Notes**
- All materials and construction to be in accordance with Howard County "Standard Specification & Details for Construction".
  - Any damage to county owned rights-of-way to be corrected at the developer's expense.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - Notify "Miss Utility" at 559-0100 before beginning construction.
  - Topography was prepared by M. and H. Development Engineers, Inc., dated 07/17/87 & original bldg. construction drawings.
  - Driveway and parking areas to be privately maintained.
  - Sod all disturbed lawn areas.
  - The following paving standards apply:  
 Sidewalk R-3.05  
 Chain Link Fence Gate G-8.03  
 Driveway ramp R-6.02  
 Pipe encasement G-2.02
- Other Standards may additionally apply as needed to complete the proposed construction.

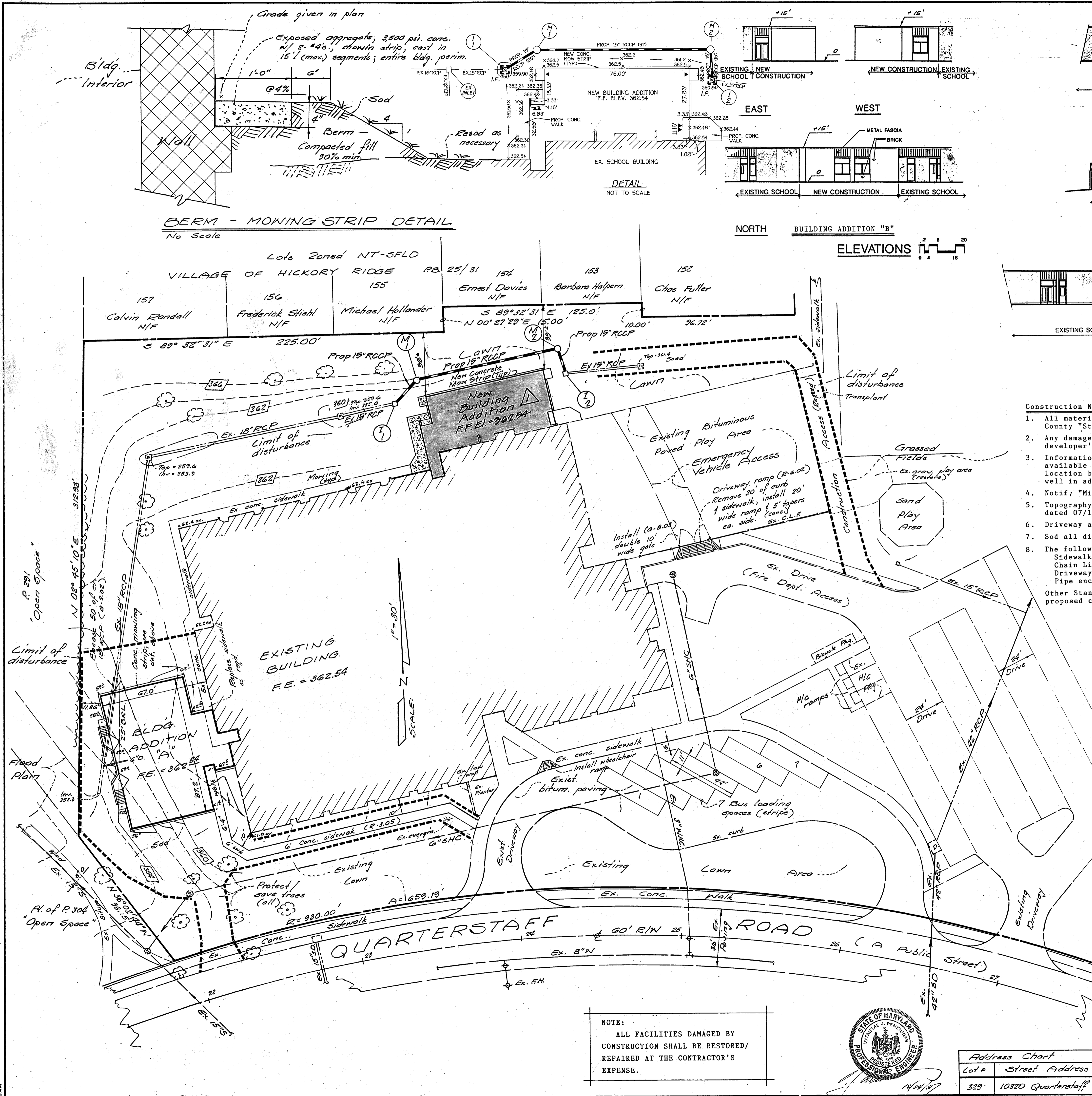
- SITE ANALYSIS**
- Land Area = 10.772 Ac.
  - Zoning: New Town - Open Space FDP 136-II-A.
  - Proposed: Addition to Elementary School.
  - Floor area of addition = 6,732 s.f.
  - Building height = One story, 15' above floor grade (same as existing)
  - Parking: No new parking added, 60 existing spaces.
  - Bus drop off area = area unchanged to be restriped to 7 - 11' x 44' spaces.
  - Open space: per FDP-136-I-A-1 = 21.976 Ac.  
 per FDP-136-II-A = 12.440 Ac.  
 Total open space = 34.416 Ac.
  - Existing buildings: 1.178 Ac.
  - Proposed building Additions: "A" = 5242 s.f. = 0.1203 Ac.  
 "B" = 1490 s.f. = 0.0342 Ac.  
 Total 0.1545 Ac.
  - Total building area = 1.3325 Ac.
  - Building coverage = 3.87%

Note: A building permit shall be applied for within 1-year from the date of the DED approval of the building addition or 3-22-88.

- INDEX TO DRAWINGS**
- SITE PLAN
  - PLAN OF SEDIMENT CONTROL
  - SEDIMENT CONTROL DETAILS

**SITE PLAN**  
**ADDITION TO**  
**CLEMENS CROSSING**  
**ELEMENTARY SCHOOL**  
 VILLAGE OF HICKORY RIDGE  
 COLUMBIA, HOWARD CO., MD.  
 1/2 Lot 329, 5th ED. SOD 88-30

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9-30-87



NOTE:  
 ALL FACILITIES DAMAGED BY CONSTRUCTION SHALL BE RESTORED/REPAIRED AT THE CONTRACTOR'S EXPENSE.

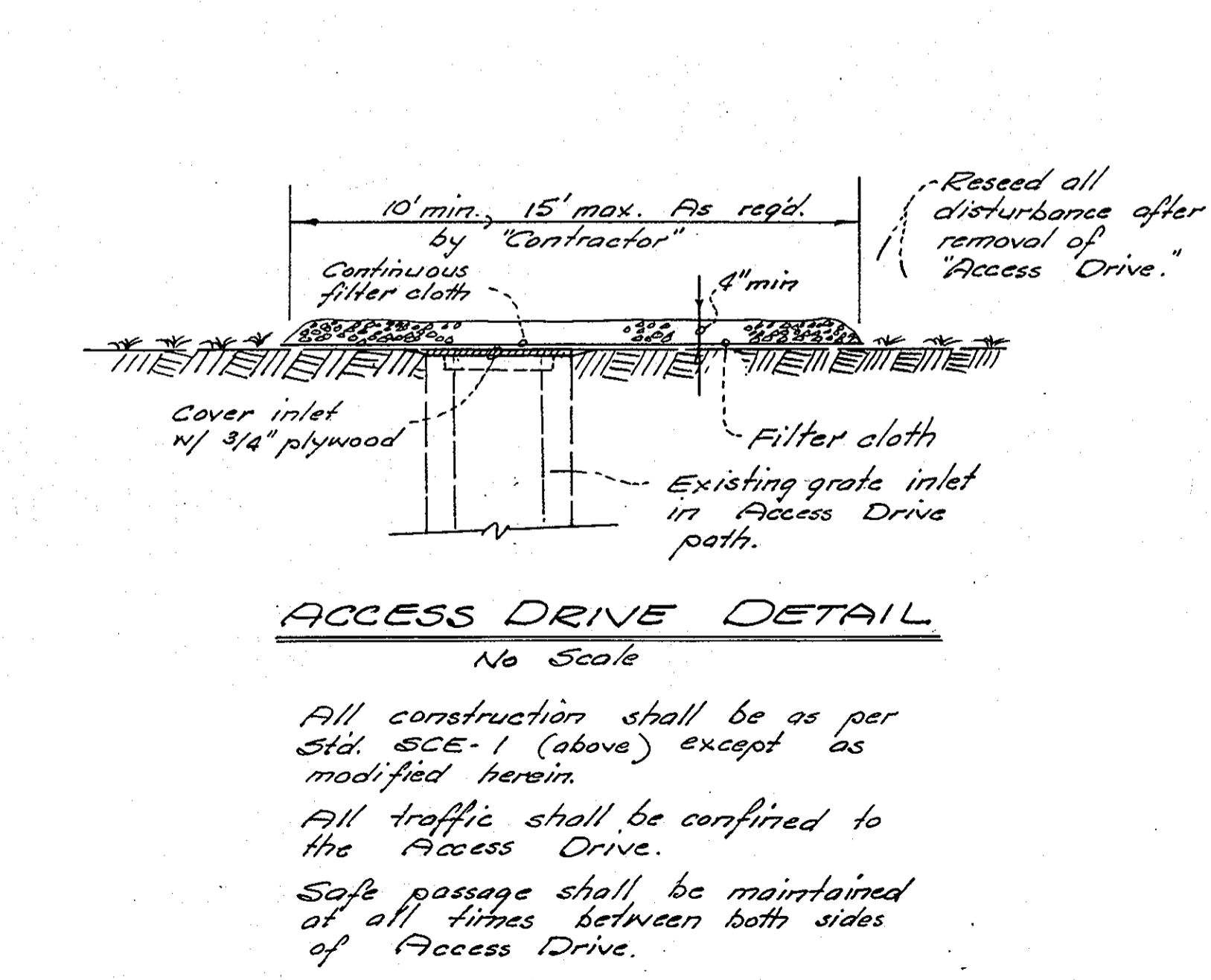
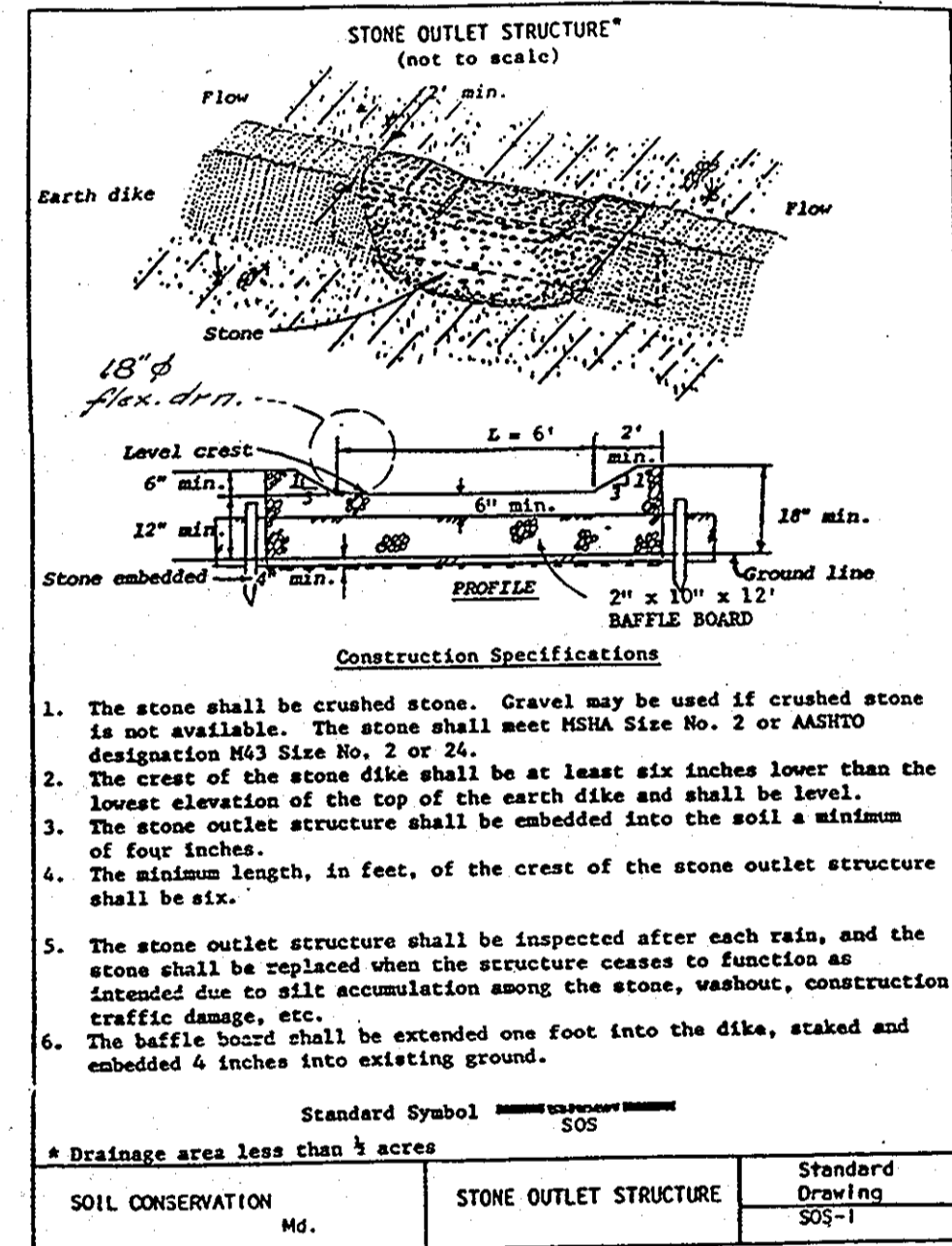
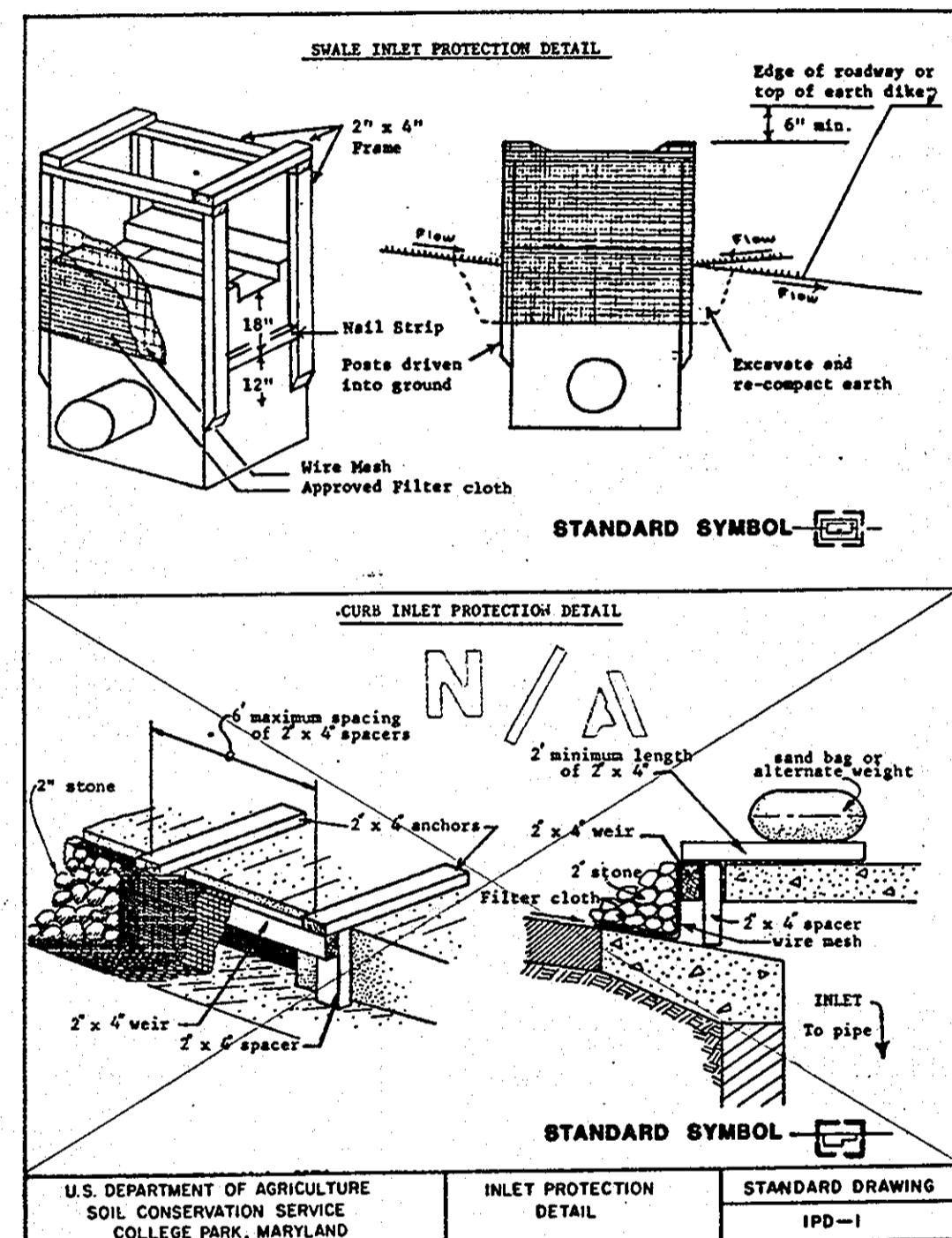
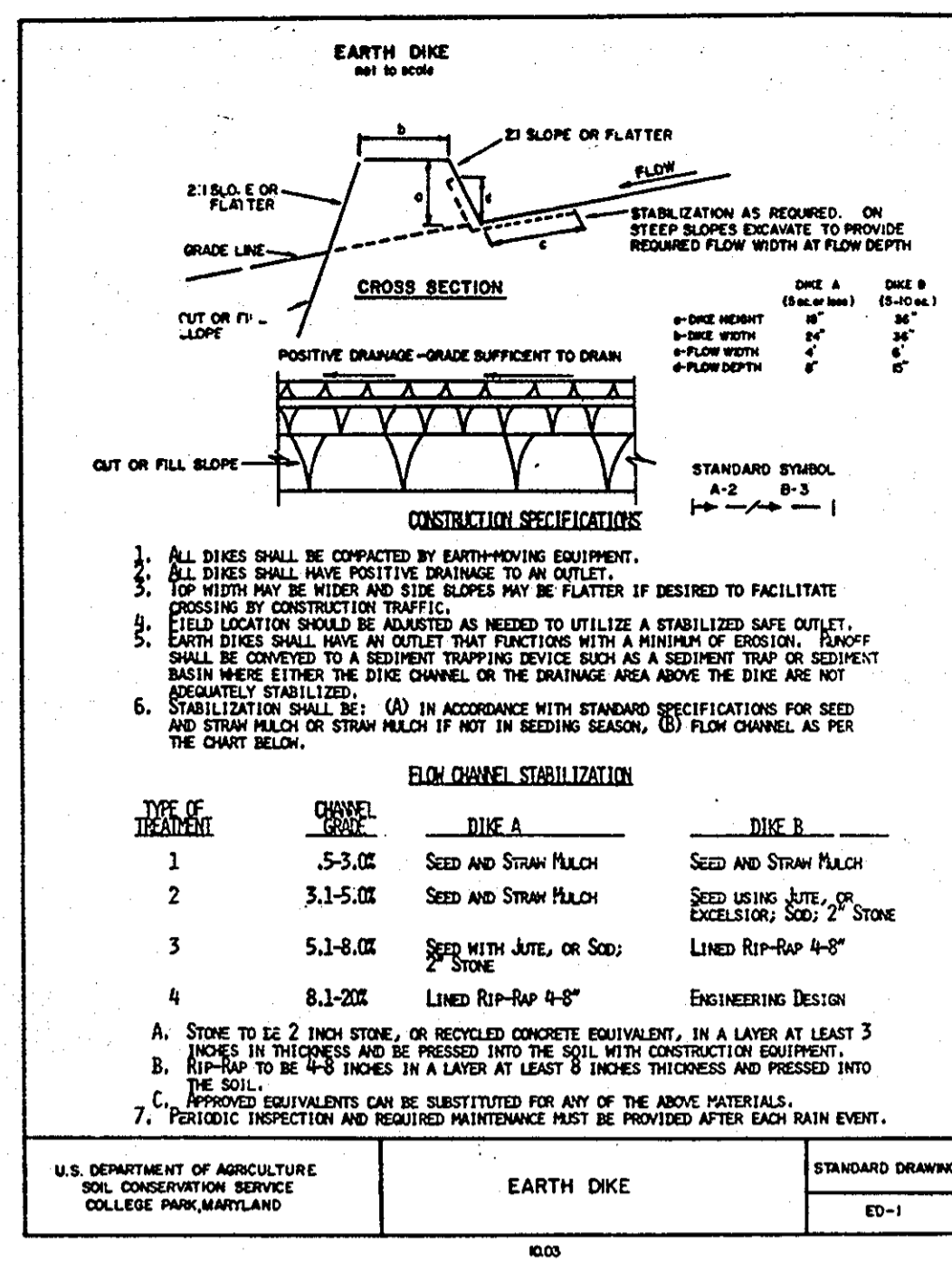
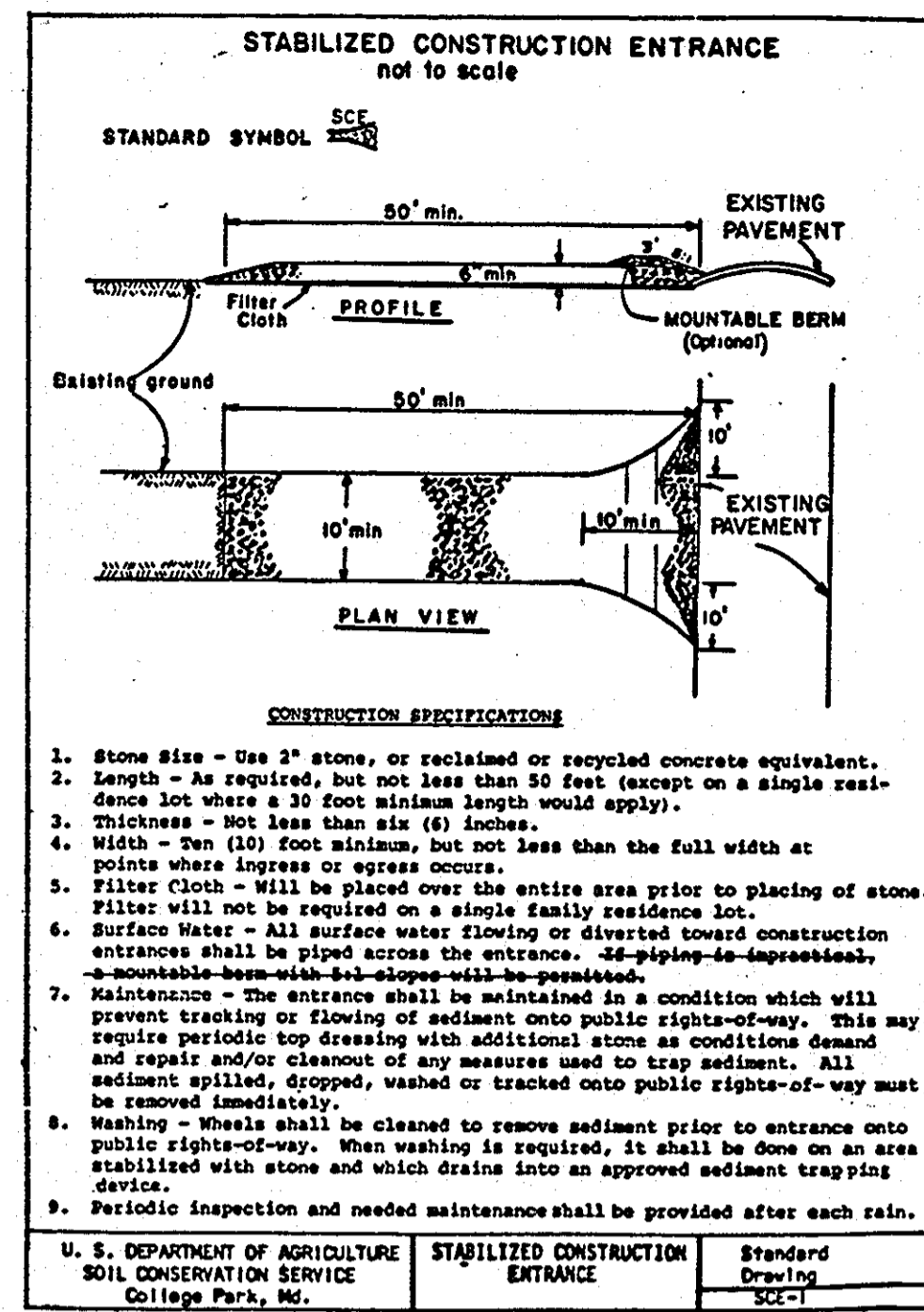


**Address Chart**

Lot #	Street Address
329	10320 Quarterstaff Rd.

OWNER - DEVELOPER HOWARD COUNTY BD. OF EDUC. 10910 RT. 108 ELLCOTT CITY, MD 21043 992-0500	Subdivision Name Village of Hickory Ridge	Sec. / Area 1 / 2	Lot / Parcel # 329
3906 340G	Block # 1B	Zone New Tr. a.s.	Assess. Map 35/36
Water Code: E-30	Sewer Code: 5323900	DATE Aug 1987	DRAWING SCALE: 1" = 30'
9-28-88 Added building addition, storm drains (M), M, B, E, I & I-2, 18" RCP & details	PENKIUNAS & ASSOCIATES Engineers 8855 ANNAPOLIS RD. LANHAM, MD. 20706 301-577-5053	JOB NO. 8708	OF 3
Date	REVISIONS	No.	SDP 88-30c





**TEMPORARY SEEDING NOTES**

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

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushels per acre of annual rye (3.2 lbs/1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 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 sod.

Mulching: Apply 1 1/2 to 2 tons per acre 70 to 90 lbs/1000 sq. ft. of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool on 2:1 slopes - 5 ft. or higher, use 348 gal. per acre - 48 gal/1000 sq. ft. - low anchorage.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**PERMANENT SEEDING NOTES**

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

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the periods May 1 thru August 14, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs. Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Same as mulching for temporary seeding notes.

**SODDING**

Site Preparation: Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown below.

Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre of 100 pounds per 1,000 square feet. In all soils, 1,000 pounds per acre of 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.

All areas receiving sod shall be uniformly fine graded. Hard-packed earth shall be scarified prior to placement of sod.

Sod Installation: During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.

On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved methods. As sodding is completed in any one section, the entire area shall be rolled or tamped and watered immediately.

Sod Maintenance: In the absence of adequate rainfall, watering shall be performed daily or as often as necessary to prevent wilting. First mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.

**MULCHING**

Materials and Amounts: Straw - Straw shall be unrotted small grain applied at the rate of 1 1/2 to 2 tons per acre, or 70 to 90 pounds per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds such as: thistles, Johnsongrass and quackgrass. Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square foot sections and place 70-90 pounds of mulch (two bales) in each section.

Mulch Matting: Mulch matting such as jute or excelsior blanket shall be stapled to the surface in waterways and on steep slopes. Lighter materials of paper, plastic and cotton mulch matting may be used where erosion hazard is not severe. If area is to be mowed, do not use metal staples.

Wood chips at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square foot may be used when available and when feasible to use.

Mulch Anchoring: Mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by one of the following methods, (listed by preference) depending upon size of area, erosion hazard, and cost. On sloping land, practice No. 1 below, should be done on the contour wherever possible, except "tracking" should be done up and down the slope with 1/2 inch cleat marks running across the slope.

- Mulch Anchoring Tool and Tracking - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil.
- Mulch Matting - Staple lightweight biodegradable paper, plastic or cotton matting.
- Liquid Mulch Binders - Application of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks; and shall be cutback asphalt, emulsified asphalt or synthetic binders.

**GENERAL SEDIMENT CONTROL NOTES**

- All work shall be in accordance with "1983 MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
- All site work to be per sequence of construction given herein.
- Stabilize the perimeter dikes by seeding and mulching.
- Only the area of immediate construction to be disturbed.
- Periodic inspection and maintenance of all sediment control structures must be provided to insure intended purpose is accomplished.
- At the end of each working day, check all sediment control measures for integrity and operation.
- All surface run-off to be directed into the silt traps, no sediment must be allowed to leave the site.
- Silt traps shall be cleaned out when sediment reaches prescribed elevation.
- The developer is responsible for the acquisition of all required easements, right, and/or right-of-way pursuant to the discharge from the sediment and erosion control practices, storm-water management practices and the discharge of storm water onto or across and grading or other work to be performed on adjacent or downstream properties affected by this plan.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
  - Seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 2 horizontal to 1 vertical (3:1) and b). Fourteen days as to all other disturbed or graded areas on the project site. The in-place sediment control measures will be maintained on a continuing basis until the site is permanently stabilized and all permit requirements are met.
  - On all sites with disturbed areas in excess of 2 acres. Approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance by the inspection agency is made; and
  - Approval shall be requested upon final stabilization of all site with disturbance areas in excess of 2 acres before removal or controls.
- All borrow or spoil to be at a source with an approved sediment control plan.
- Use mulch only during non-seeding periods.

**SPECIAL SEDIMENT CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of THE HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- Notify "Miss Utility" at 559-0100 before beginning the construction.
- Site Analysis:
 

Total Area of Site	10.772	Acres
Area Disturbed	0.596	Acres
Area to be roofed or paved	0.201	Acres
Area to be vegetatively stabilized	0.395	Acres
Total Cut	15	Cu. yds.
Total Fill	306	Cu. yds.
Offsite waste/borrow area location		Approved site

Should additional fill be required beyond the above quantities, contractor is to provide at no additional cost to the owner.

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

*Joan B. B...* 12-15-87  
COUNTY HEALTH OFFICER # DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*U. B. A...* 12-21-87  
PLANNING DIRECTOR # DATE

*James R. B...* 12/16/87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADM. # DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James R. B...* 12/16/87  
DIRECTOR # DATE

*James R. B...* 12-15-87  
CHIEF, BUREAU OF ENGINEERING # DATE

BY THE DEVELOPER:

"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 AGENTS, AS ARE DETERMINED NECESSARY."

*James R. B...* 12/07/87  
DEVELOPER # DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED *Stephen R. Fisher* 12/31/87  
HOWARD S.C.D. # DATE

PLAN NUMBER

REVIEWED FOR HOWARD S.C.D. NAME

AND MEETS TECHNICAL REQUIREMENTS

*James R. B...* 12-8-87  
SIGNATURE # DATE

U.S. SOIL CONSERVATION SERVICE

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

DATE 9-30-87

**SEDIMENT CONTROL DETAILS**  
ADDITION TO  
CLEMEN'S CROSSING  
ELEMENTARY SCHOOL  
VILLAGE OF HICKORY RIDGE  
COLUMBIA, HOWARD CO, MD.  
1/2 Lot 329, 5th E.O. SDP 88-30

OWNER - DEVELOPER	REVISIONS	PENKIUNAS & ASSOCIATES	DATE:	DRAWING
HOWARD COUNTY BD. OF EDUC. 10910 RT. 108 ELLICOTT CITY, MD 21043 992-0590		Engineer 8855 ANNAPOLIS RD. LANHAM, MD. 20706 301-577-5053	AUG. 1987 SCALE: AS SHOWN JOB NO. 8708	3 OF 3





THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED Howard S.C.D. DATE 12/8/87

PLAN NUMBER \_\_\_\_\_

REVIEWED FOR HOWARD S.C.D. NAME  
 AND MEETS TECHNICAL REQUIREMENTS  
 SIGNATURE Howard S.C.D. DATE 12/8/87  
 U.S. SOIL CONSERVATION SERVICE

PIPE SCHEDULE		
SIZE	CLASS	LENGTH
15"	RCCP	127

STRUCTURE SCHEDULE								
STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	LOCATION		W	TYPE	REMARKS
				NORTH	EAST			
I-1	359.90	355.63 (15')	355.53 (15')	40012.28	40179.69	-	S INLET W/ RETICULAR GRATE	S.D. 4.22 W/ S.D. 4.93
I-2	360.80	356.42 (15')	356.32 (15')	40003.18	40070.61	-	S INLET W/ RETICULAR GRATE	S.D. 4.22 W/ S.D. 4.93
M-1	364.00	355.01 (15')	355.71 (15')	39999.66	40164.31	4'	PRECAST MANHOLE	G - 512
M-2	365.50	356.27 (15')	356.17 (15')	39987.29	40073.70	4'	PRECAST MANHOLE	G - 512

**SEDIMENT CONTROL**

**Developer's Certification:**

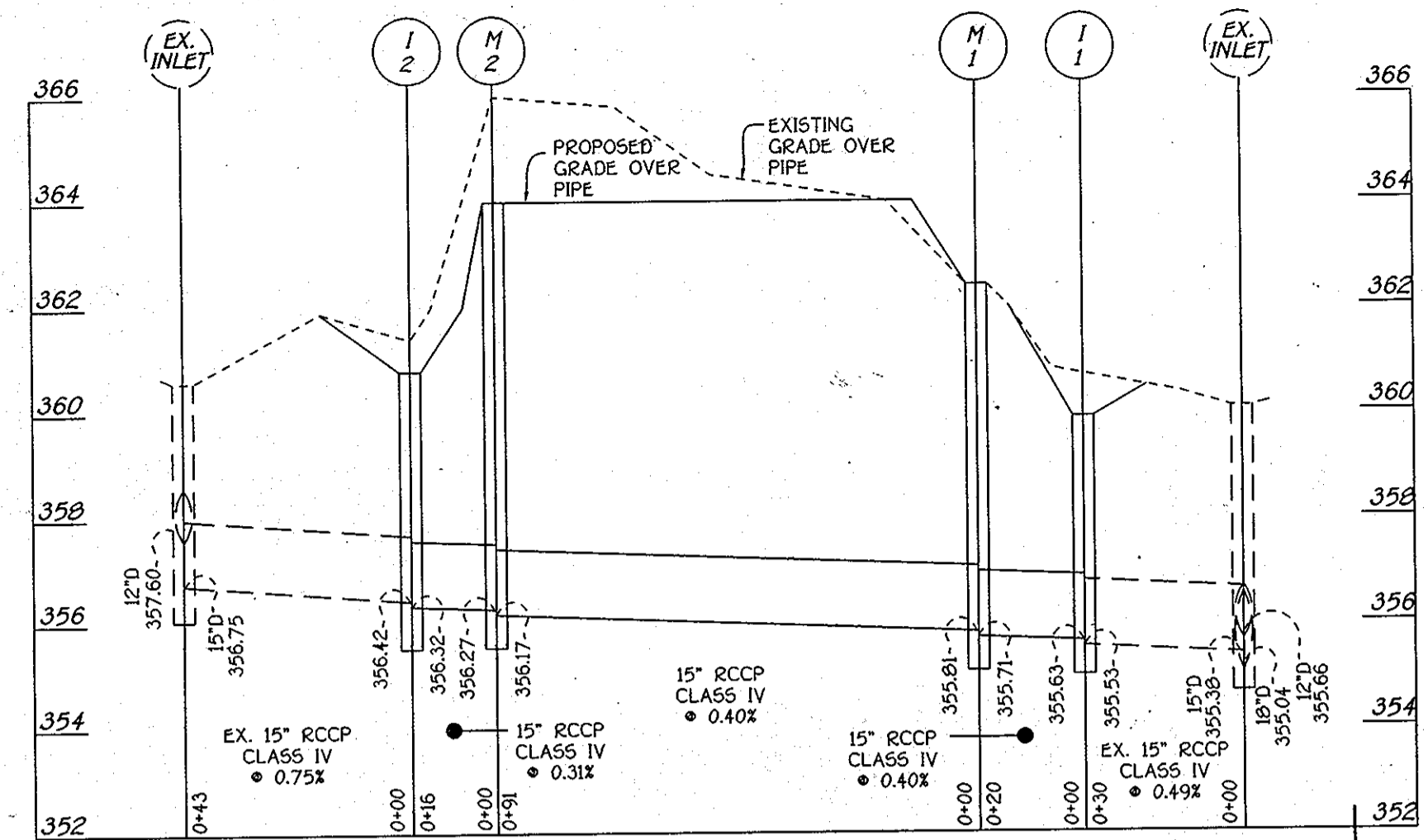
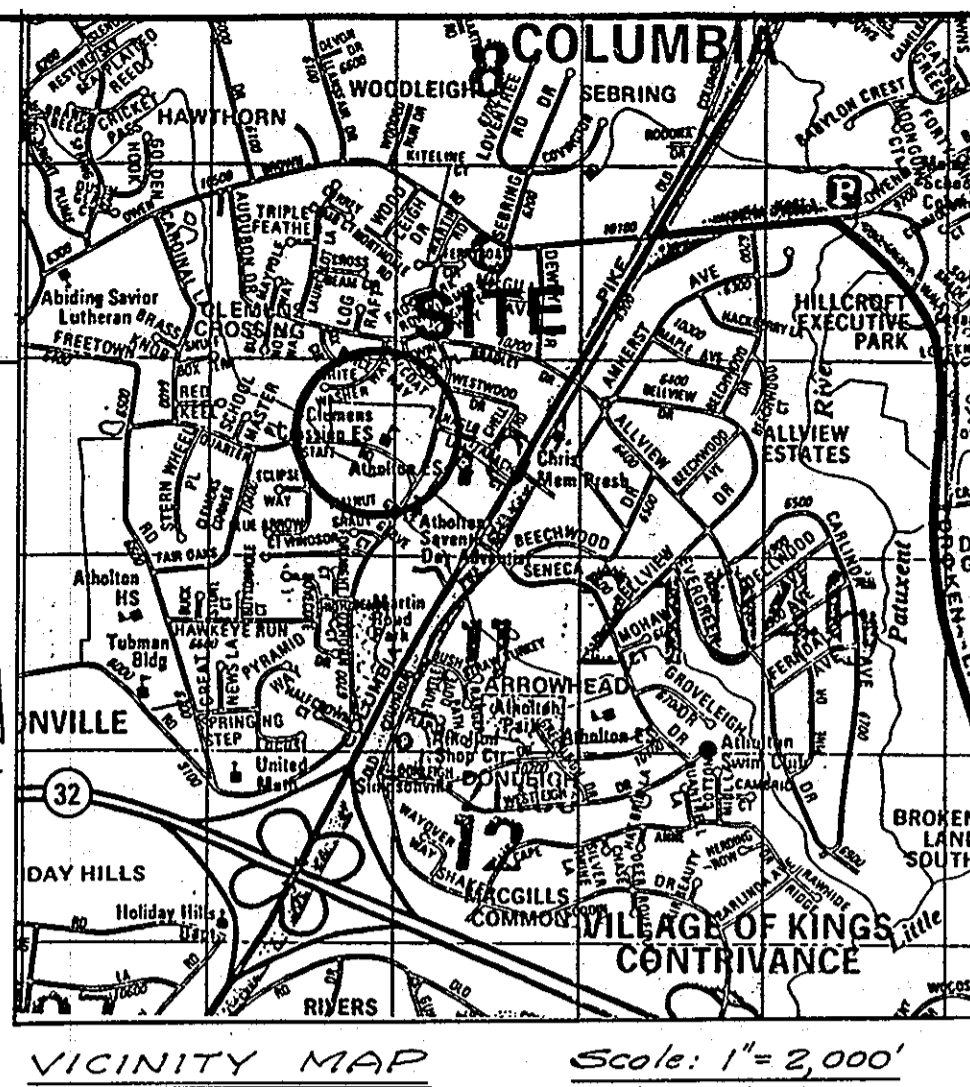
"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."

Henry Homy Date 12/07/87

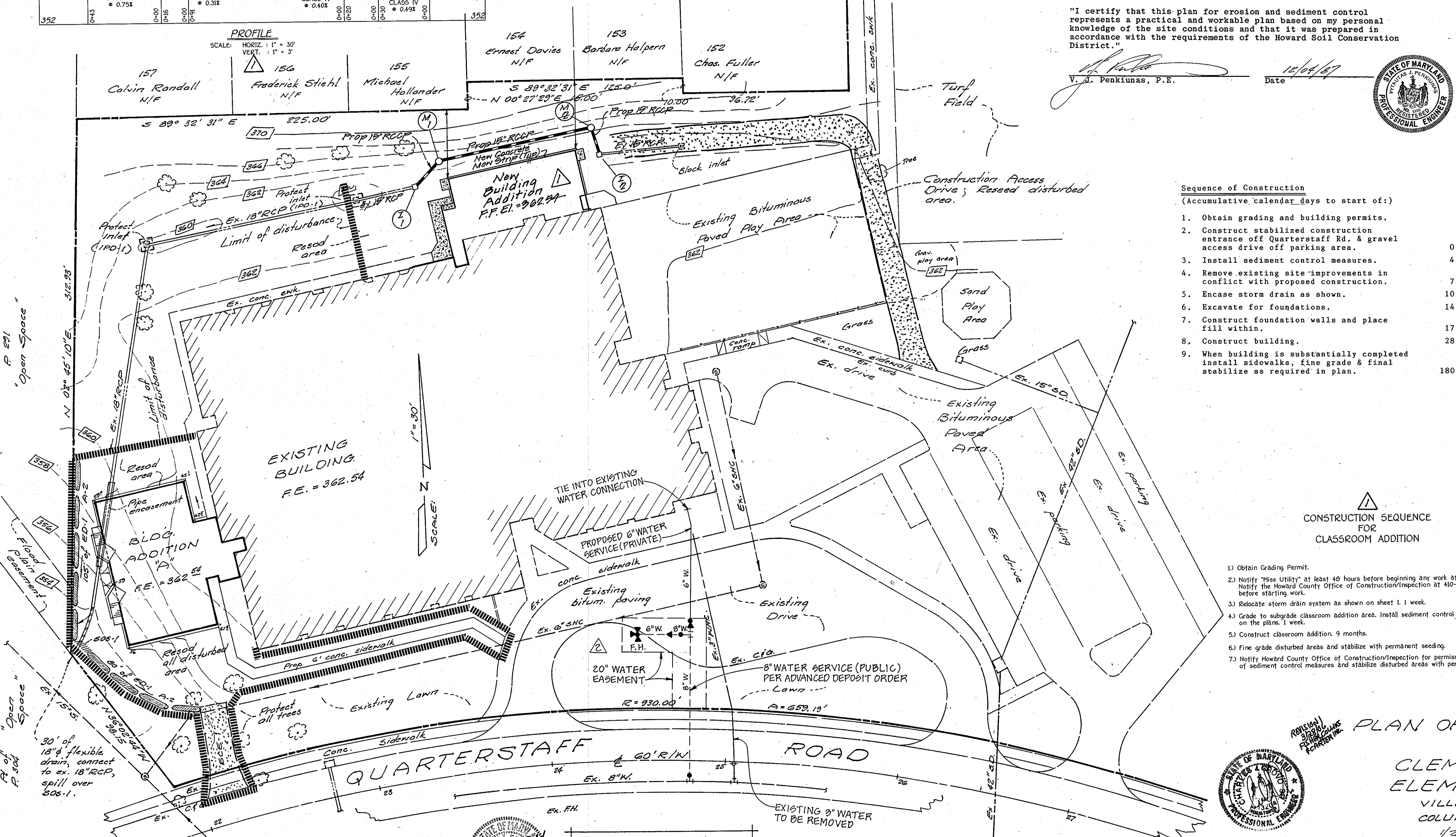
**Engineer's Certification:**

"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."

V. A. Penkiunas, P.E. Date 12/04/87



PROFILE  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 3'



**Sequence of Construction**

(Accumulative calendar days to start of:)

1. Obtain grading and building permits.
2. Construct stabilized construction entrance off Quarterstaff Rd. & gravel access drive off parking area.
3. Install sediment control measures.
4. Remove existing site improvements in conflict with proposed construction.
5. Encase storm drain as shown.
6. Excavate for foundations.
7. Construct foundation walls and place fill within.
8. Construct building.
9. When building is substantially completed install sidewalks, fine grade & final stabilize as required in plan.

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

James B. Balle 12-15-87  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

W. P. An 12-21-87  
 PLANNING DIRECTOR DATE

Joseph B. Balle 12/16/87  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADM. DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James M. Balle 12/16/87  
 DIRECTOR DATE

William S. Balle 12-10-87  
 CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:  
 "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 AGENTS, AS ARE DEEMED NECESSARY."  
Henry Homy 12/07/87  
 DEVELOPER DATE

**CONSTRUCTION SEQUENCE FOR CLASSROOM ADDITION**

- 1) Obtain Grading Permit.
- 2) Notify "Miss Utility" at least 48 hours before beginning any work at 1-800-257-7777. Notify the Howard County Office of Construction/Inspection at 410-313-1330 24 hours before starting work.
- 3) Relocate storm drain system as shown on sheet I.1 week.
- 4) Grade to subgrade classroom addition area. Install sediment control measures shown on the plans. 1 week.
- 5) Construct classroom addition. 9 months.
- 6) Fine grade disturbed areas and stabilize with permanent seeding.
- 7) Notify Howard County Office of Construction/Inspection for permission for removal of sediment control measures and stabilize disturbed areas with permanent seeding.



**PLAN OF SEDIMENT CONTROL ADDITION TO CLEMEN'S CROSSING ELEMENTARY SCHOOL VILLAGE OF HICKORY RIDGE COLUMBIA, HOWARD CO., MD.**

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12 708 Exp. Date: 3/27/02

NOTE:  
 ALL FACILITIES DAMAGED BY CONSTRUCTION SHALL BE RESTORED/ REPAIRED AT THE CONTRACTOR'S EXPENSE.

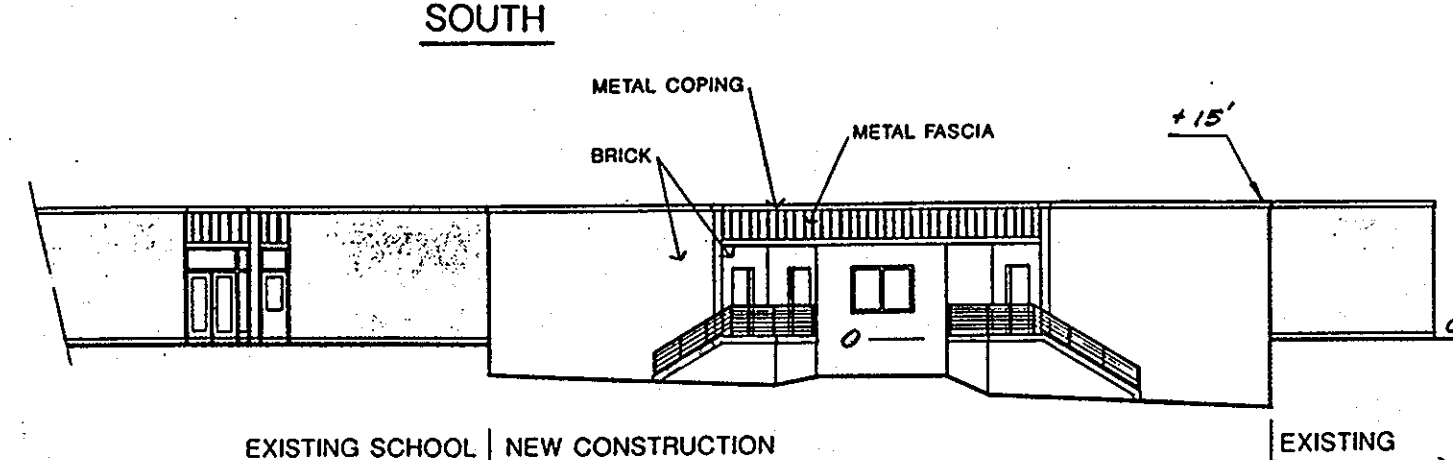
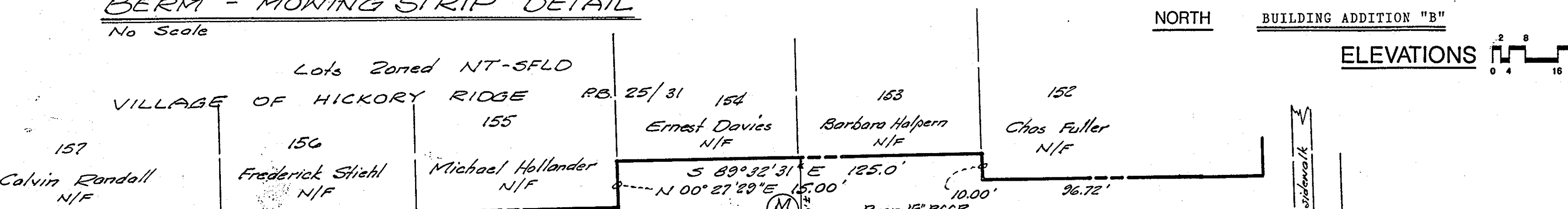
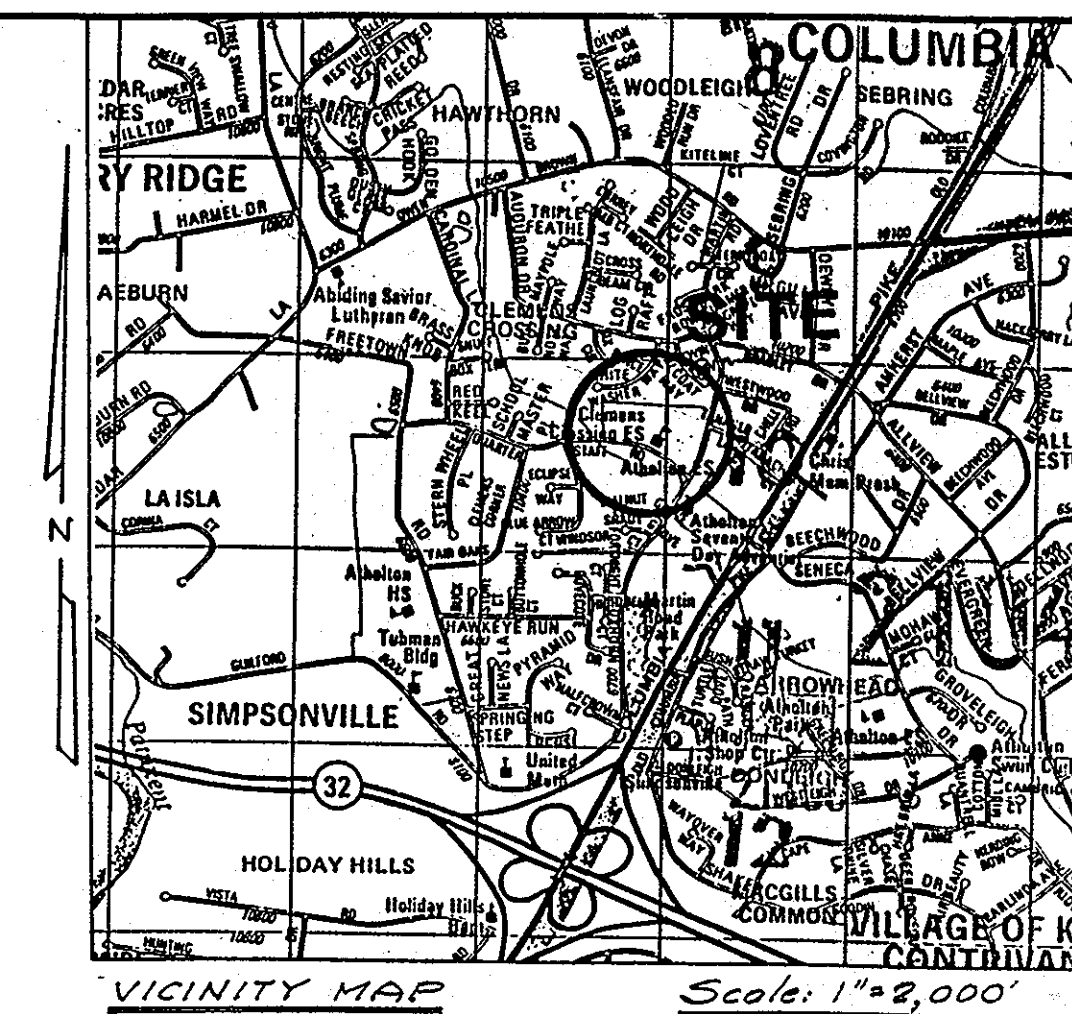
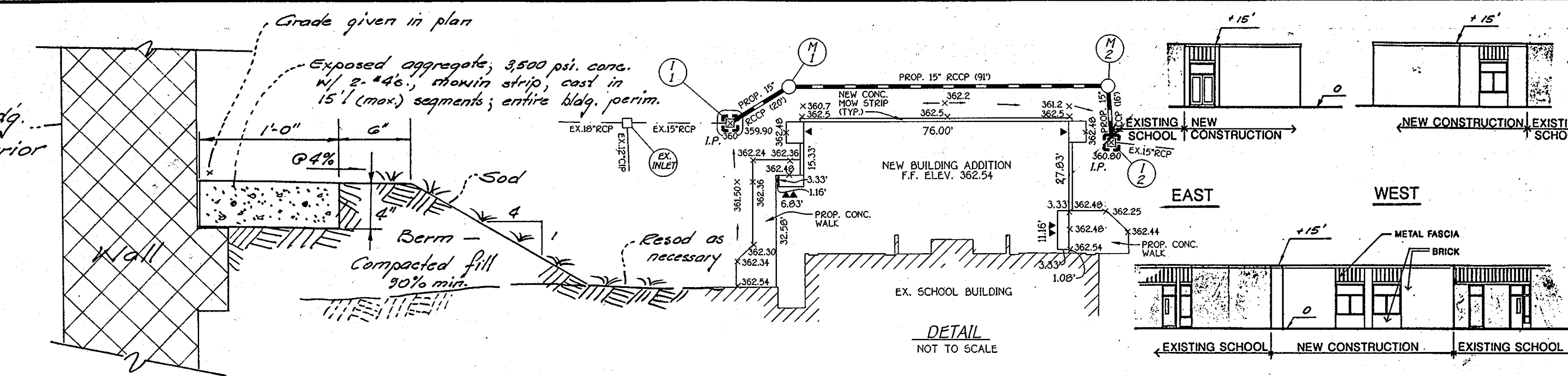
OWNER - DEVELOPER  
 HOWARD COUNTY BD. OF EDUC.  
 10910 RT. 108  
 ELLICOTT CITY, MD 21043  
 992-0500

Date	REVISIONS	No.
9-26-86	Added building addition, storm drain (M-1, M-2, I-1, I-2 & 15" RCCP) storm drain profile & structure & pipe schedules.	1
12-11-87	REMOVED EX. 8" W. & REPLACED W/ 8" W. 2	2

PENKIUNAS & ASSOCIATES  
 Engineers  
 8855 ANNAPOLIS RD.  
 LANHAM, MD. 20706  
 301-577-5053

DATE: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 JOB NO. \_\_\_\_\_  
 DRAWING OF 3





APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: *John B...* DATE: 12-15-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 PLANNING DIRECTOR: *U...* DATE: 12-21-87

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADM.  
 CHIEF: *James...* DATE: 12/16/87

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR: *James...* DATE: 12/16/87

CHIEF, BUREAU OF ENGINEERING: *...* DATE: 12-16-87

BY THE DEVELOPER:  
 "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 AGENTS, AS ARE DEEMED NECESSARY."  
 DEVELOPER: *Henry...* DATE: 12/07/87

- Construction Notes**
- All materials and construction to be in accordance with Howard County "Standard Specification & Details for Construction".
  - Any damage to county owned rights-of-way to be corrected at the developer's expense.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - Notify "Miss Utility" at 559-0100 before beginning construction.
  - Topography was prepared by M. and H. Development Engineers, Inc., dated 07/17/87 & original bldg. construction drawings.
  - Driveway and parking areas to be privately maintained.
  - Sod all disturbed lawn areas.
  - The following paving standards apply:  
 Sidewalk R-3.05  
 Chain Link Fence Gate G-8.03  
 Driveway ramp R-6.02  
 Pipe encasement G-2.02
- Other Standards may additionally apply as needed to complete the proposed construction.

- SITE ANALYSIS**
- Land Area = 10.772 Ac.
  - Zoning: New Town - Open Space FDP 136-II-A.
  - Proposed: Addition to Elementary School.
  - Floor area of addition = 6,732 s.f.
  - Building height = One story, 15' above floor grade (same as existing)
  - Parking: No new parking added, 60 existing spaces.
  - Bus drop off area = area unchanged to be restriped to 7 - 11' x 44' spaces.
  - Open space: per FDP-136-II-A-1 = 21.976 Ac.; per FDP-136-II-A = 12.440 Ac.; Total open space = 34.416 Ac.
  - Existing buildings: 1.178 Ac.
  - Proposed building Additions: "A" = 5242 s.f. = 0.1203 Ac.; "B" = 1490 s.f. = 0.0342 Ac.; Total 0.1545 Ac.
  - Total building area = 1.3325 Ac.
  - Building coverage = 3.87%

Note: A building permit shall be applied for within 1-year from the date of the DED approval of the building addition or 9-28-86.

- INDEX TO DRAWINGS**
- SITE PLAN
  - PLAN OF SEDIMENT CONTROL
  - SEDIMENT CONTROL DETAILS

**SITE PLAN ADDITION TO CLEMENS'S CROSSING ELEMENTARY SCHOOL**  
 VILLAGE OF HICKORY RIDGE  
 COLUMBIA, HOWARD CO., MD.  
 1/2 Lot 329, 5th ED. SOD 88-30

OWNER - DEVELOPER HOWARD COUNTY BD. OF EDUC. 10910 RT. 108 ELLCOTT CITY, MD 21043 992-0500	Subdivision Name Village of Hickory Ridge Plot # or L.P. Block # 310G 1B Zone NETH.-05 Water Code: E-30	Seal / Area 2 Twp / Zone Map 35/36 Elev. Dist. 5 Census Tr. # 6053.02	Lot / Parcel # 329
9-28-86 Added building addition, storm drains (M.I.M.G.E.) & I.P., 15" R.C.C.P. & details	SEWER CODE: 5823900	DATE: Aug. 1987	SCALE: 1" = 30'
12-11-07 REMOVED EX. 9" WATER SERVICE & REPLACED WITH 8" WATER SERVICE	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'
REVISIONS	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'
Address Chart Lot # Street Address 329 10320 Quarterstaff Rd.	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12908, Date: 3/27/88	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'
NOTE: ALL FACILITIES DAMAGED BY CONSTRUCTION SHALL BE RESTORED/REPAIRED AT THE CONTRACTOR'S EXPENSE.	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'
Professional Engineer Seal: STATE OF MARYLAND PROFESSIONAL ENGINEER	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'
Professional Engineer Seal: STATE OF MARYLAND PROFESSIONAL ENGINEER	SEWER CODE: 5823900	DATE: 8/7/87	SCALE: 1" = 30'

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12908, Date: 3/27/88

Professional Engineer Seal: STATE OF MARYLAND PROFESSIONAL ENGINEER

Professional Engineer Seal: STATE OF MARYLAND PROFESSIONAL ENGINEER



