

APPROVED: [Signature]
 COUNTY HEALTH OFFICE
 DATE: 6/17/79

APPROVED: [Signature]
 PLANNING DIRECTOR
 DATE: 6/17/79

APPROVED: [Signature]
 CHIEF BUREAU OF HIGHWAYS
 DATE: 6/17/79

APPROVED: [Signature]
 CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 DATE: 6/17/79

ALTERNATE #4
 Deduct from the base price bid the cost for deleting grading as shown. See bid proposal.

ALTERNATE #7
 Deduct from the base price bid the cost for deleting all work as shown on the contract documents related to the concrete bin construction.

ALTERNATE #8
 Deduct from the base price bid the cost for deletion of all chain link fence construction and related work as indicated on the contract documents.

ALTERNATE #9
 Deduct from the base price bid the cost for deleting pump island, pumps, fuel tanks, appurtenances and other related work for this construction.

No. 5910 Waterloo Rd
 W.M. M. ZELTMAN & WIFE
 B.M. JR.
 R-40
 N 49° 26' 56" E 41.37'

S 41° 20' 04" E 99.11'

S 41° 21' 04" E
 806.13

806.13

No. 8255
 Elenore Lorentz

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 NEW TOWN ZONING

1084.96' TO STONE @ BEGINNING OF SIXTH LINE, PARCEL 2, W.M.H. 403/50

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 R-40

No. 8302
 Michael J. Lawson

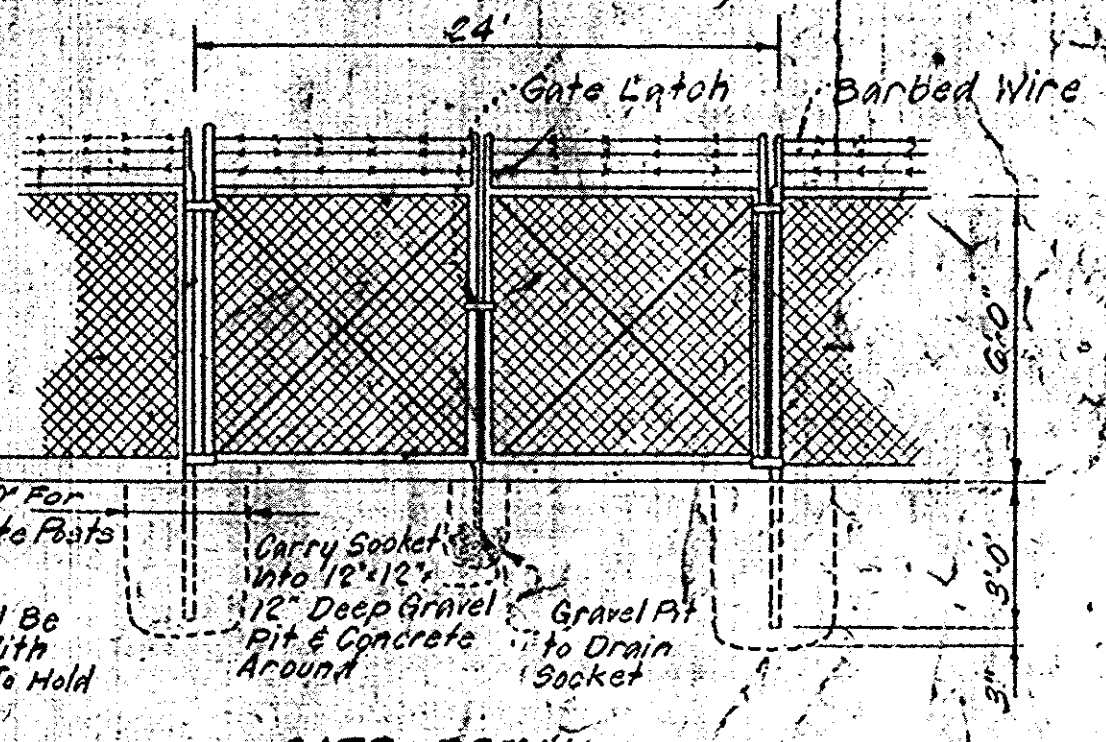
No. 8285
 Jack Burton

No. 8291
 Richard C. Bowers

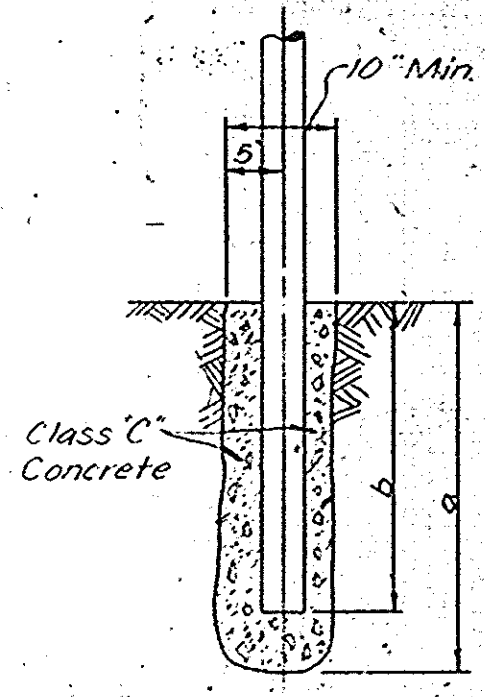
VICINITY MAP
 Scale: 1" = 800'
 Tax Map 37 Parcel 549
 6th Election District

GENERAL NOTES

1. Zoning: New town - Single family Low density.
2. Plat reference: Plat Book 15, Folio 88
3. Total Area: 435,600 sq ft or 10.0 Acres
4. Disturbed Area: 223,540 sq ft or 5.132 Acres
5. Undisturbed Area: 212,060 sq ft or 4.868 Acres
6. Building floor space: 15,680 sq ft
7. Number of buildings shown: 1
8. Maximum height of building: 26'±
9. Number of parking spaces required: 70
 - A. Visitors parking: 23 shown 124
 - B. Employee parking: 33
 - C. Motor pool: 68
 - Total: 124
10. Paved Area: 62,720 sq ft or 1.439 Acres
11. Internal Green Space: 3,000 sq ft or 0.115 Acres or 8%
12. All radii to be 8' unless otherwise noted

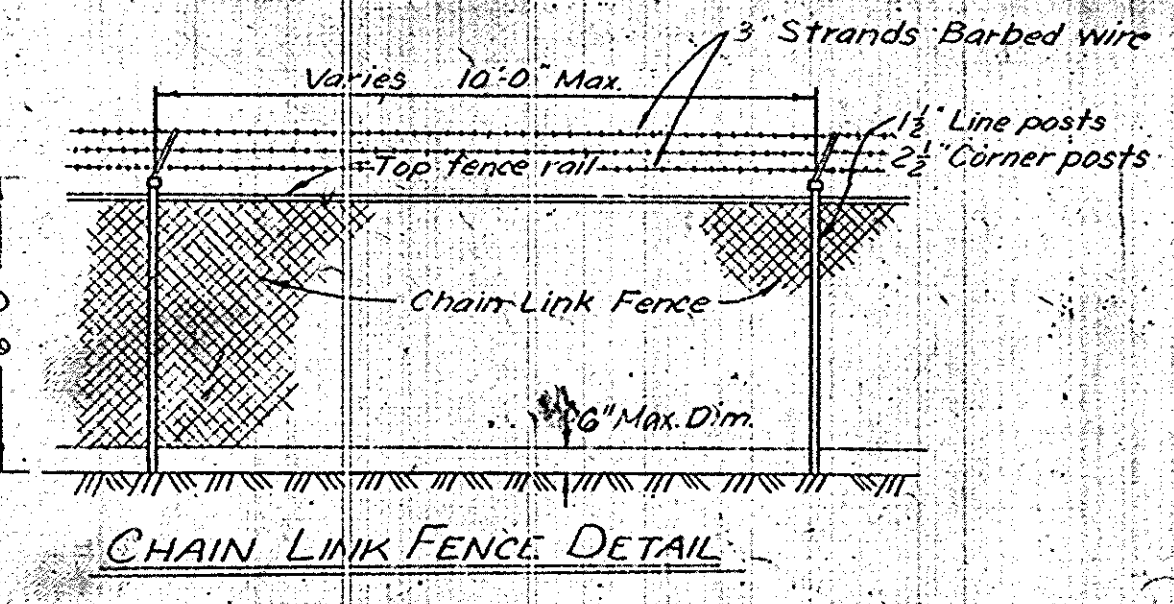


GATE DETAIL
 ALTERNATE #8



DETAIL OF FENCE POST

Note: Line Post: a - Min 32", b - 30".
 Top dimension is a minimum, the post footings should extend to firm bearing.



CHAIN LINK FENCE DETAIL
 No Scale ALTERNATE #8

"This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District"

Reviewed: District Conservationist _____ Date _____

Approved: District Coordinator _____ Date _____
 Howard Soil Conservation District

No.	REVISION	DATE	BY
1.	Changed parking area & paving material	10-30-73	BAM
2.	Revise grading, layout and added fence detail	12-27-73	BAM
3.	Added loading dock	2-28-74	BAM
4.	New Concrete pad for generator & subbase fuel tank	4-3-75	JAC.



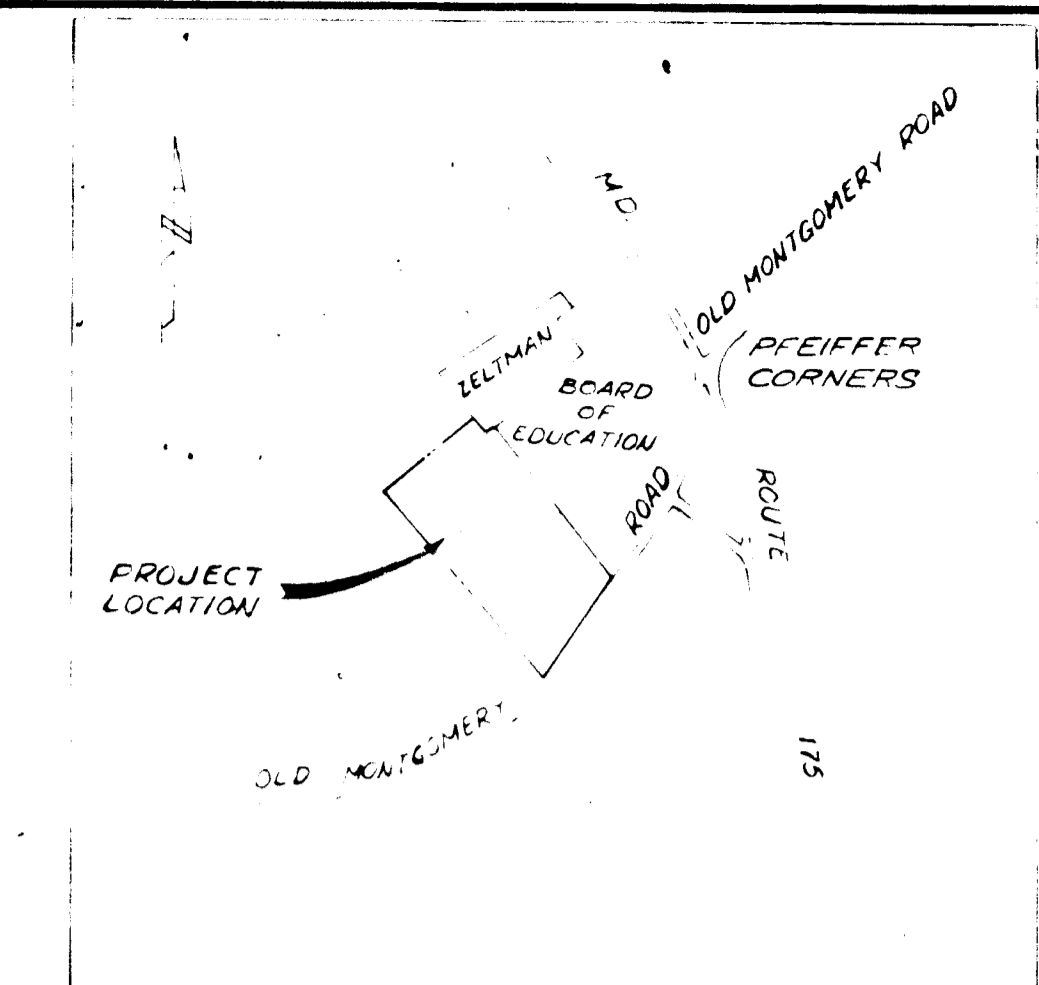
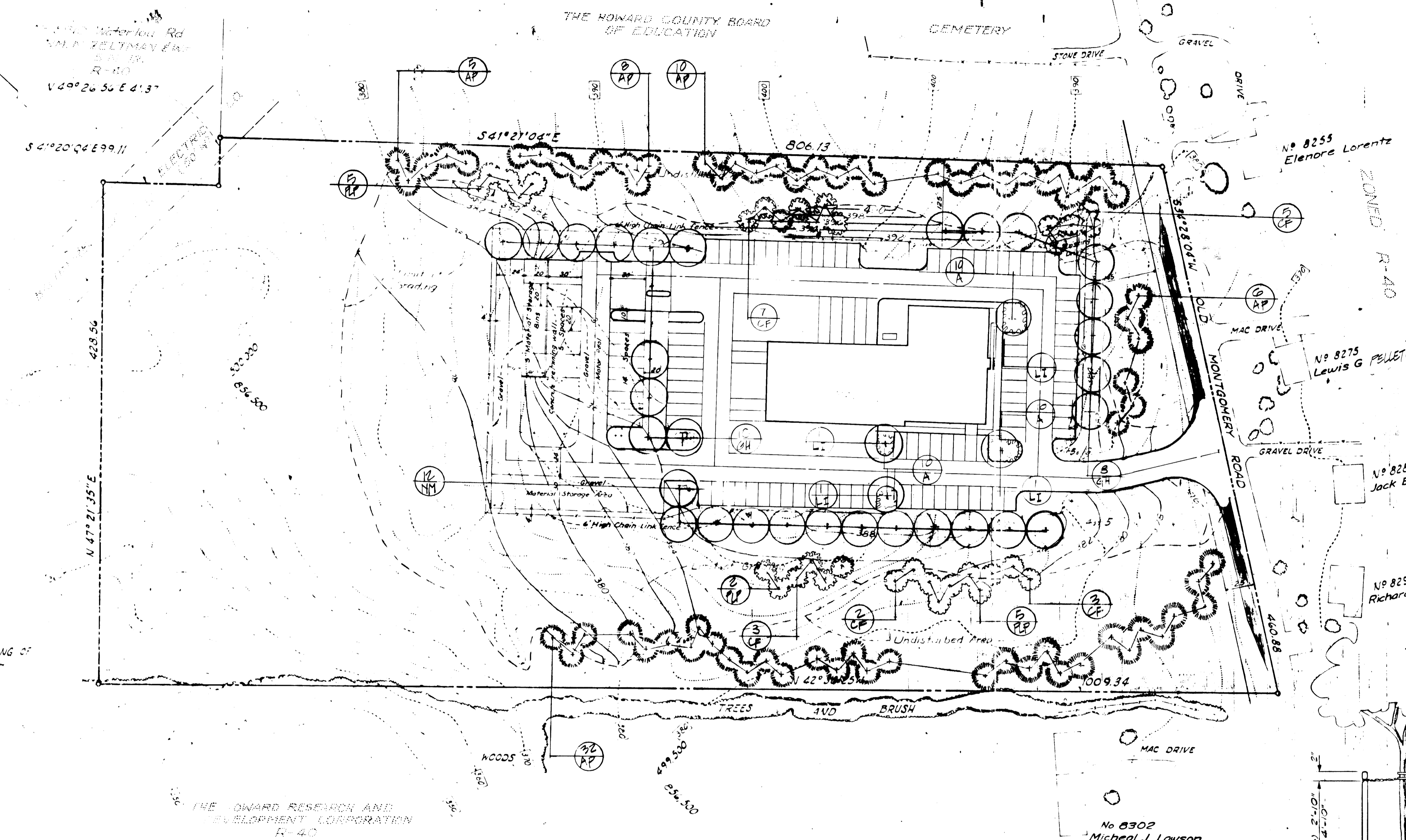
GREENHORNE & O'MARA, INC.
 ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.

HOWARD COUNTY, MARYLAND
 GENERAL COUNTY PROJECT GC 0113
 BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
 6th ELECTION DISTRICT
SITE DEVELOPMENT PLAN
 DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-1

J.W.W. DESIGN
 B.A.M. DRAWN
 T.G.K. CHECKED
 DATE: 4/24/73

CLIENT: DEPT. OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 1440 COURT HOUSE DRIVE
 ELICOTT CITY, MARYLAND

SCALE: 1" = 50'
 SHEET No. C-1 of 2
 JOB No. 111528
 FILE No. 5073-X



VICINITY MAP
Scale 1" = 800'
Tax Map 37 Parcel 549
6th Election District

DATE	6/14/74
DATE	6/17/74
DATE	6/13/74
DATE	6/12/74
DATE	5/17/74

CHIEF, BUREAU OF HIGHWAYS
CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

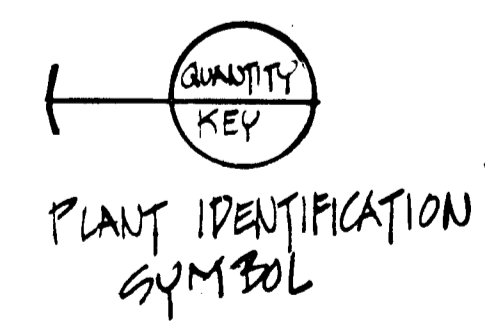
THE HOWARD COUNTY BOARD OF EDUCATION
NEW YORK OFFICES

1084.96 TO STONE & BEGINNING OF SIXTH LINE, PARCEL 2 WH-403.50

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
R-40

PLANT LIST

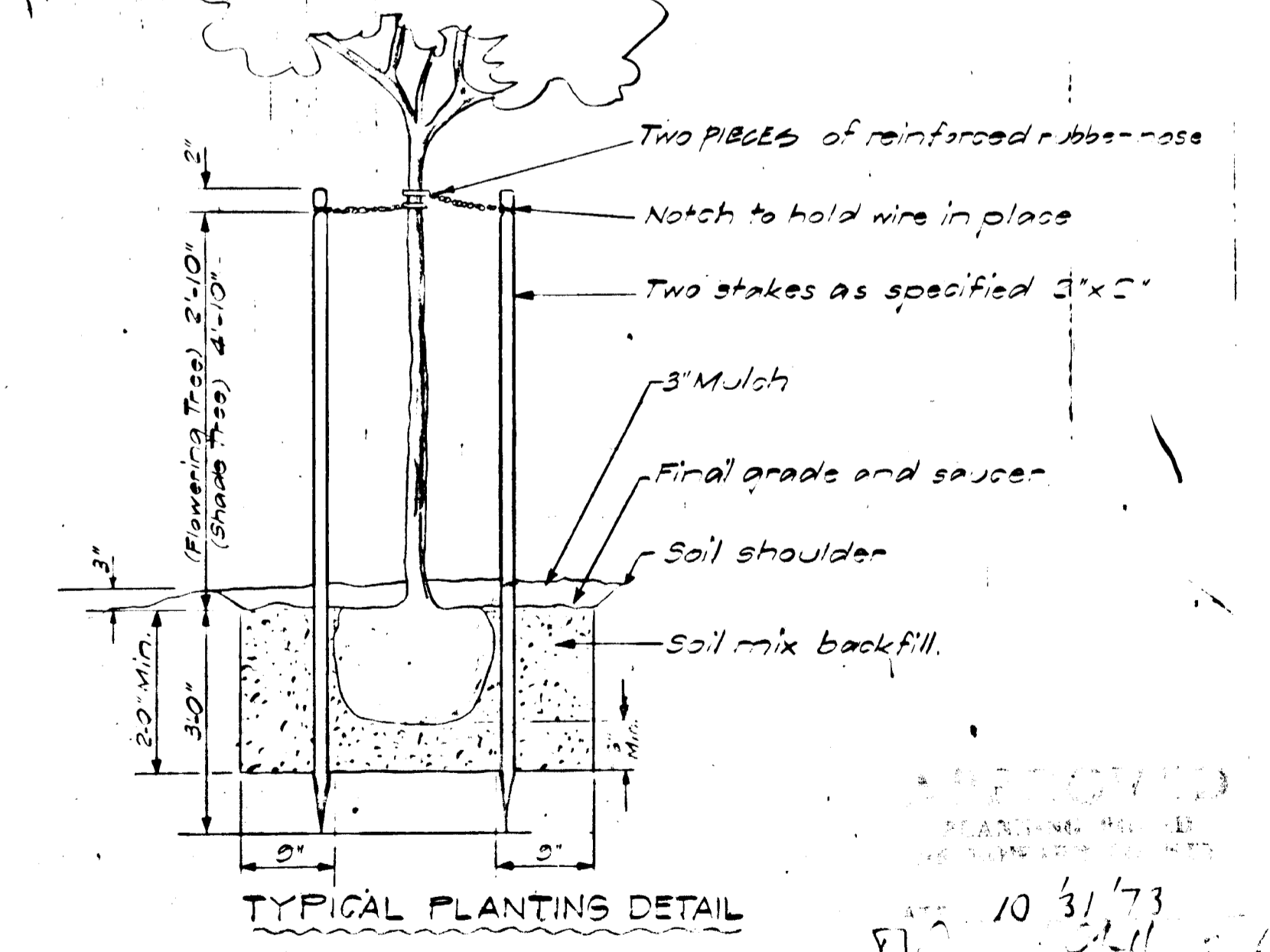
KEY	COMMON NAME	BOTANICAL NAME	QUANT	SPACING	PLANTED	SIZE
YM	NORWAY MAPLE	ACER PLATANIFOLIOS	12	30' 0"	B&B	2 1/2" IN
CF	FLOWERING DOGWOOD	CORNUS FLORIDA	20	15' 0"	B&B	6" B
PLP	PURPLELEAF PLUM	PRUNUS "THUNDERCLOUD"	12	15' 0"	B&B	6" B
GH	GOLDEN HONEYLOCUST	GLUCONIA "TRICANTHOS" SUN	18	30' 0"	B&B	2 1/2" IN
AP	AUSTRIAN PINE	PINUS MIBRA	72	10' 0"	B&B	6" B
LI	CRAPEMYRTLE	LAGERSTROEMIA INDICA	4	15' 0"	B&B	6" B
A	KURUME AZALEA "HUNGARIAN"	AZALEA KURUME	40	18"	B&B	16" GA



NOTES:

- Provide a minimum of 6" topsoil on areas to be seeded (All disturbed areas to be seeded.)
- Asphaltic spray mulch on all slopes 3:1 or steeper that are seeded.
- All plant material shall conform with the American Standard for Nursery Stock, and be guaranteed for one year from the date of acceptance.
- All material to be mulched (trees 3", shrubs 5"), fertilized and occasionally staked, see Typical Planting Detail at right.

NOTE: ALTERNATE #10 - DETAIL LANDSCAPE PLANTING BASE 3D
ALTERNATE #11 - DETAIL SEEDING & SODDING LANDSCAPE 3D



No	REVISION	DATE	BY

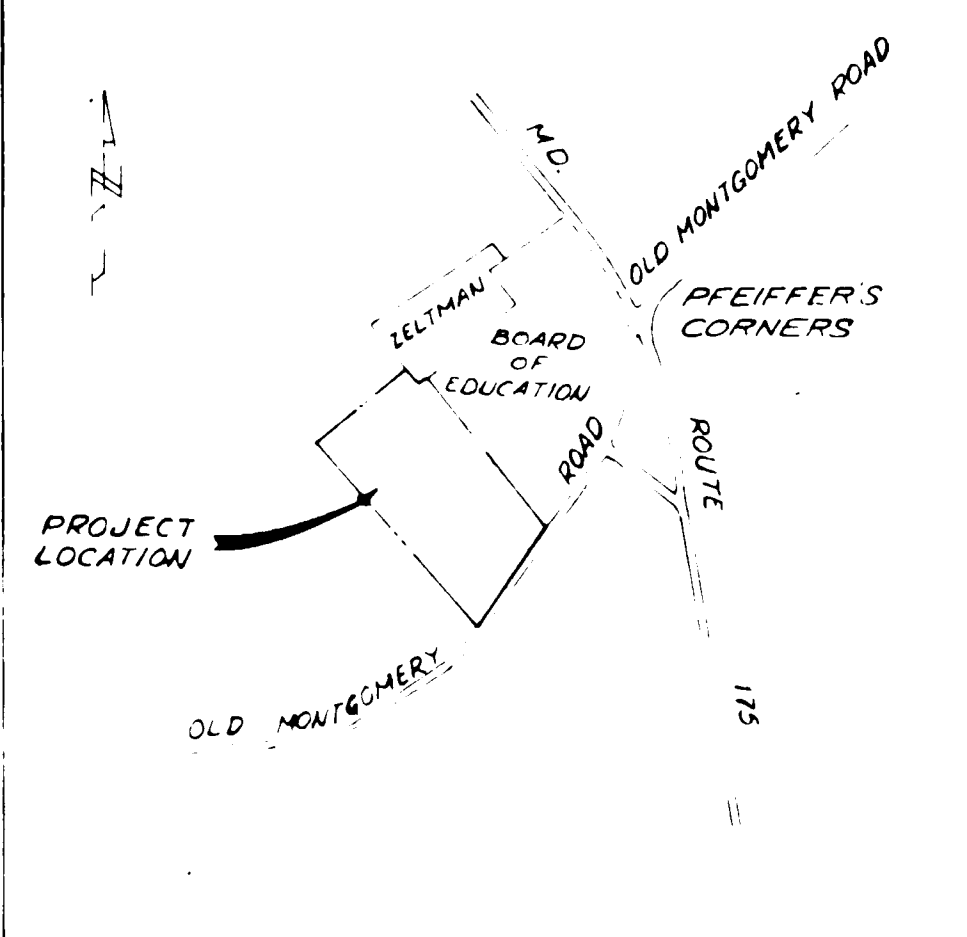


GREENHORNE & O'MARA, INC.
ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
6715 KENILWORTH AVE., RIVERDALE, MD.

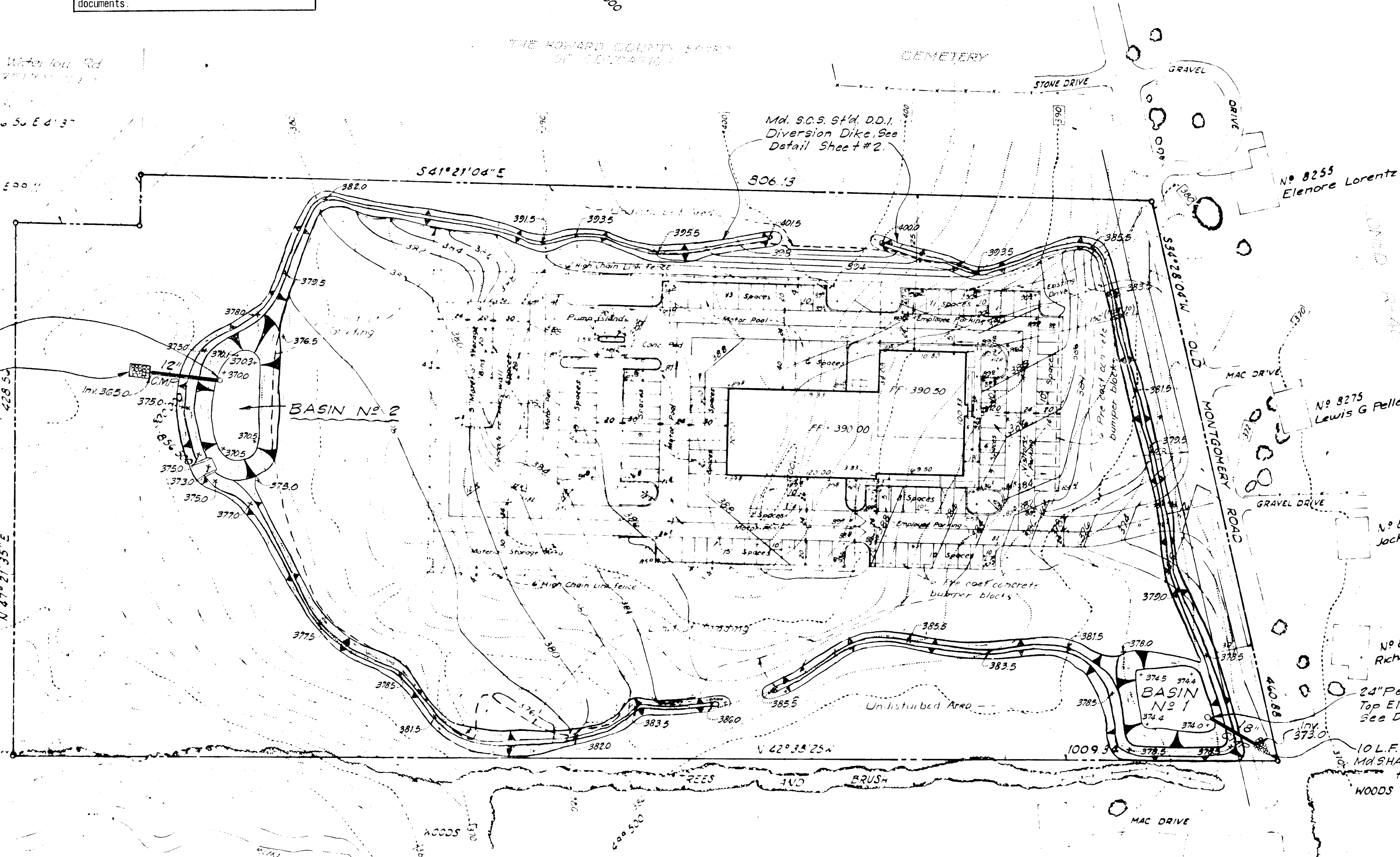
HOWARD COUNTY, MARYLAND
GENERAL COUNTY PROJECT GC0113
BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
6th ELECTION DISTRICT
LANDSCAPE PLAN
DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-2

JWW DESIGN	CLIENT: DEPT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1450 COURT HOUSE DRIVE ELICOTT CITY, MARYLAND
BAM DRAWN	SCALE 1" = 50'
T.G.K. CHECKED	SHEET No. C-2 OF 3
4/24/73 DATE	111528 JOB No. 5073-X/9

ALTERNATE #5
 Deduct from the base price bid the cost for deleting all sediment control construction and related work as specified in the contract documents.



VICINITY MAP
 Scale 1/800'
 Top Map 37 Parcel 549
 6th Election District



18" CMP Perforated Riser w/
 Trash Rack & Anti-Vortex.
 Top El. 372.0 Inv. 370.0
 See Detail Sheet #2.

15 L.F. Ungrouted Rip-Rap
 Md. SHA Std. Class I

THE HOWARD COUNTY BOARD OF
 EDUCATION
 1430 COURT HOUSE DRIVE
 ELICOTT CITY, MARYLAND

1084 96' TO STONE & BGS WALLS OF
 SIXTH LINE, PARCEL 2 WITH
 403.50

No 8275
 Lewis G Pelletier

No 8285
 Jack Burton

No 8291
 Richard C Bowers

24" Perforated CMP Riser
 Top El. 376.0 Inv. 374.0
 See Detail Sheet No 2.

10 L.F. Ungrouted Rip-Rap
 Md. SHA. Std. Cl. I. Direct flow
 to Ex. Swale.

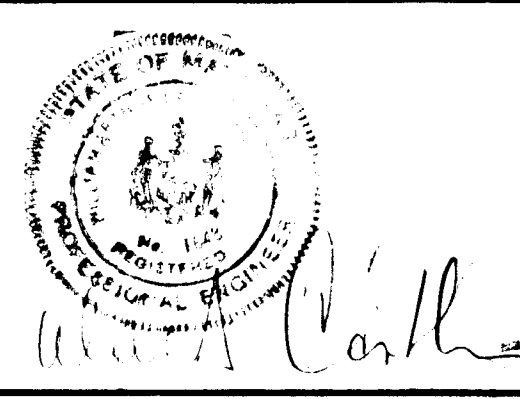
No 8302
 Michael J Lawson

Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
James T. X. [Signature] Date 6-14-74
 Signature
 U.S. Soil Conservation Service

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

Approved [Signature] Date 6-14-74
 Howard S.C.D.

APPROVED: FOR [] (PRIVATE) WATER AND [] (PRIVATE) SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT		DATE
[Signature] COUNTY HEALTH OFFICER		6/14/74 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		DATE
[Signature] PLANNING DIRECTOR		DATE
APPROVED: [] STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		DATE
[Signature] DIRECTOR		DATE
[Signature] CHIEF, BUREAU OF HIGHWAYS		DATE



No.	REVISION	DATE	BY



GREENHORNE & O'MARA, INC.
 ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.

HOWARD COUNTY, MARYLAND
 GENERAL COUNTY PROJECT GC 0113
 BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
 6TH ELECTION DISTRICT
SEDIMENT CONTROL PLAN
 DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-3

L.S.C. DESIGN	CLIENT: DEPT. OF P.B. WORKS HOWARD COUNTY, MARYLAND 1430 COURT HOUSE DRIVE ELICOTT CITY, MARYLAND
R.W. DRAWN	SCALE 1"=50'
CHECKED	SHEET No. C-1 OF
DATE	Jan 1974 111585 JOB No. 5264-X FILE No.

APPROVED: FOR [REDACTED] COUNTY HEALTH OFFICE DATE 6/14/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING DATE 6/17/74

APPROVED: [REDACTED] COUNTY DEPARTMENT OF PUBLIC WORKS DATE 6/17/74

DIRECTOR DATE 6/13/74

CHIEF, BUREAU OF HIGHWAYS DATE 6/14/74

SECTION OF LAND DEVELOPMENT DATE 6/17/74

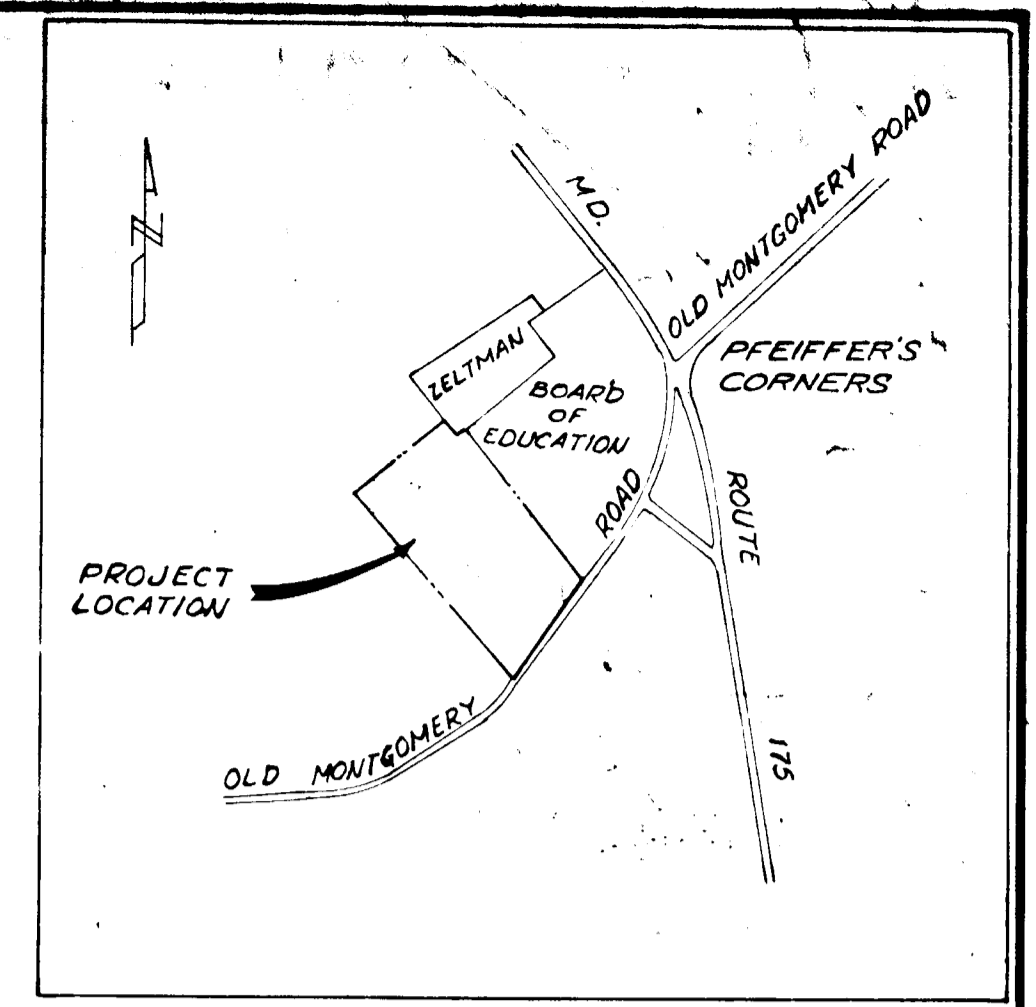
PERMITTING PLANNING

ALTERNATE #4
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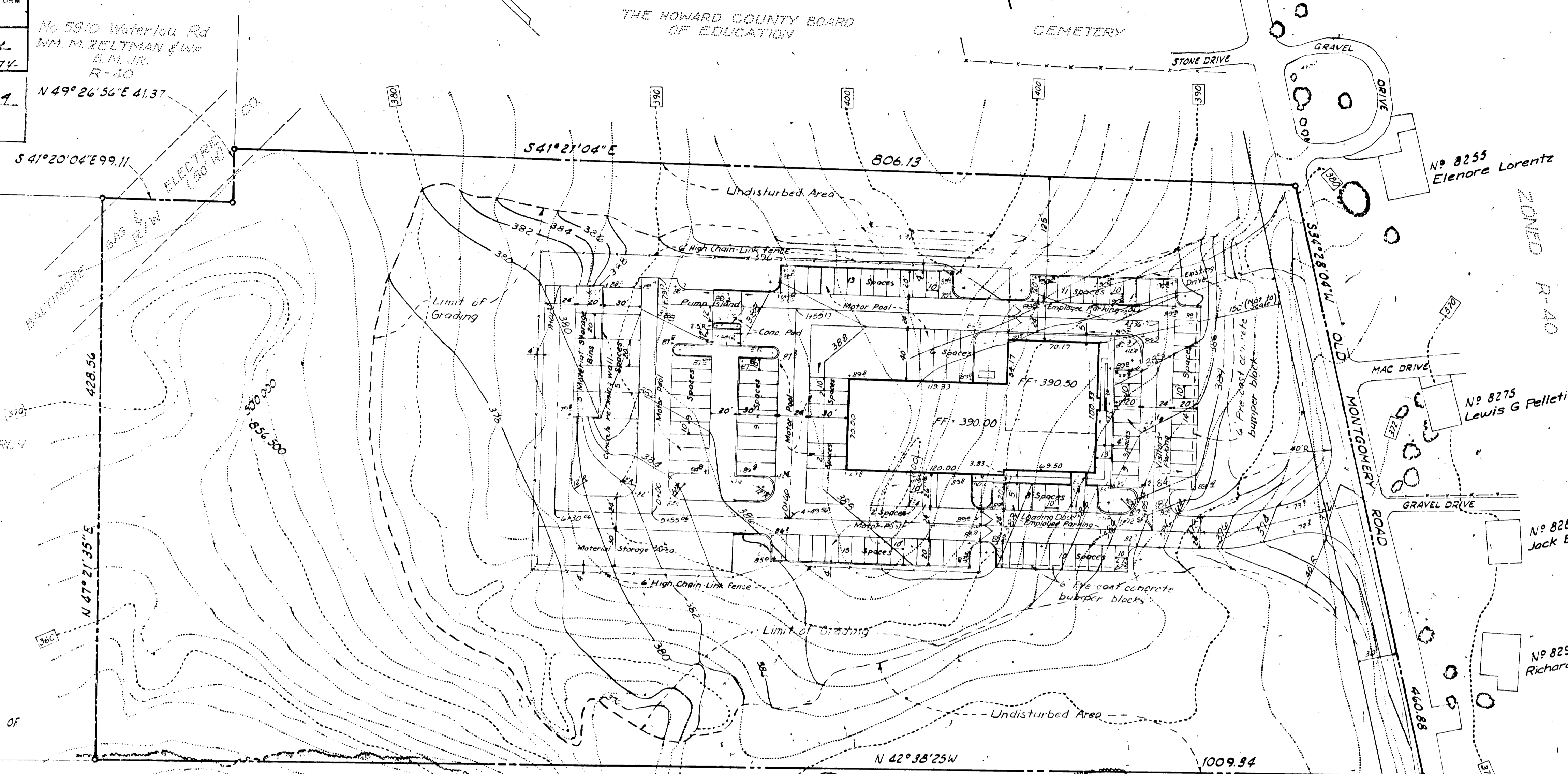
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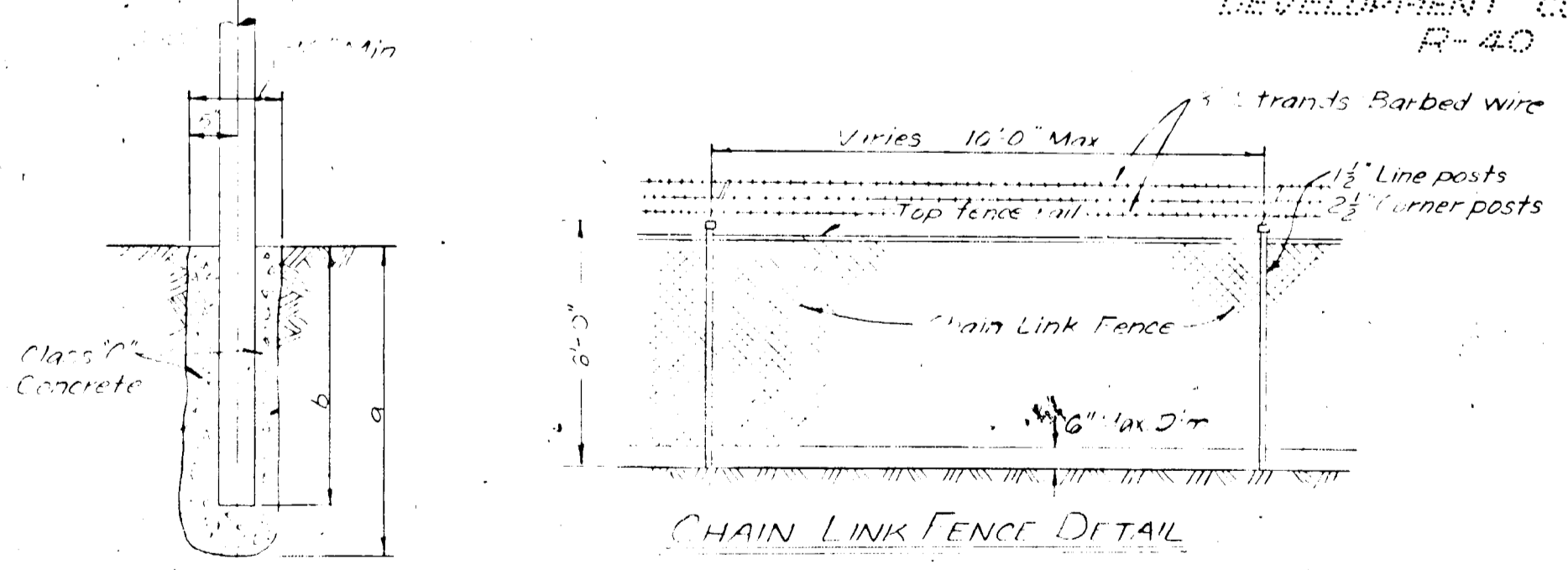
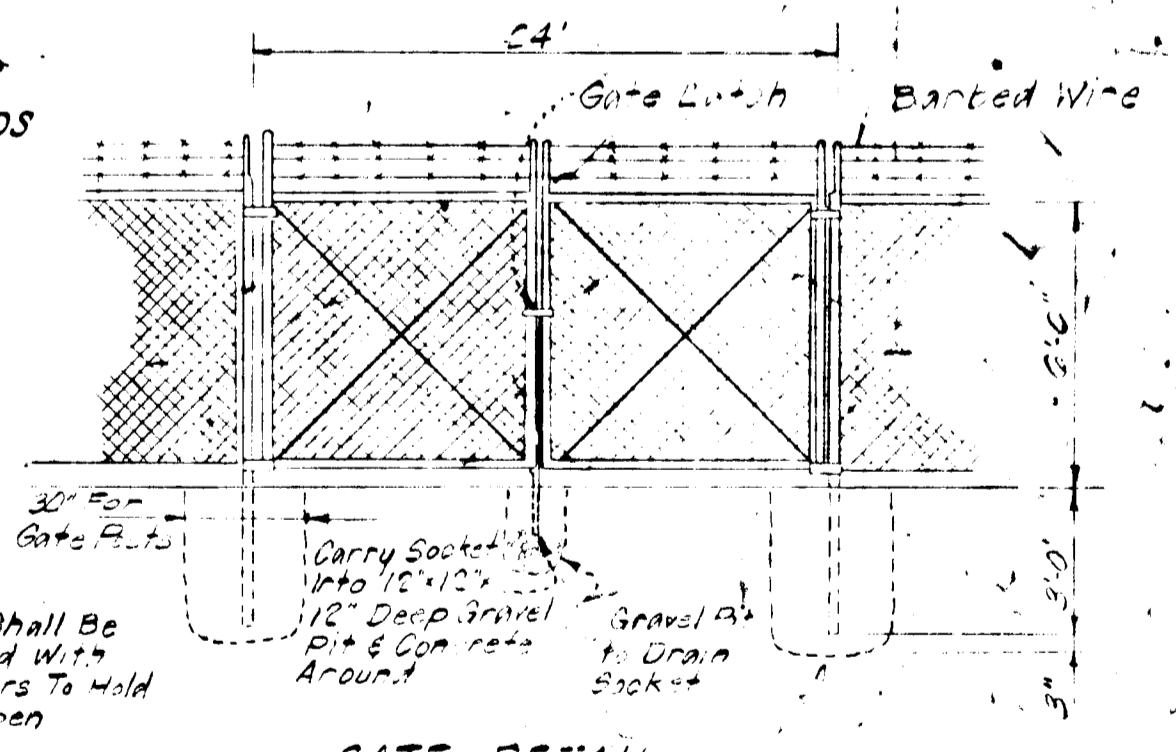
GENERAL NOTES

- Zoning: New town - Single family Low density.
- Plat reference: Plat Book 15 Folia 88
- Total Area: 435,600 sq ft or 10.0 Acres
- Disturbed Area: 223,540 sq ft or 5.132 Acres
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- Paved Area: 62,720 sq ft or 1.439 Acres
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- A' radii to be 8' unless otherwise noted



THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
NEW TOWN ZONING

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
R-40



DETAIL OF FENCE POST

No Leak
The line post is 1/2" dia. 10' long. The post should extend to firm bearing.

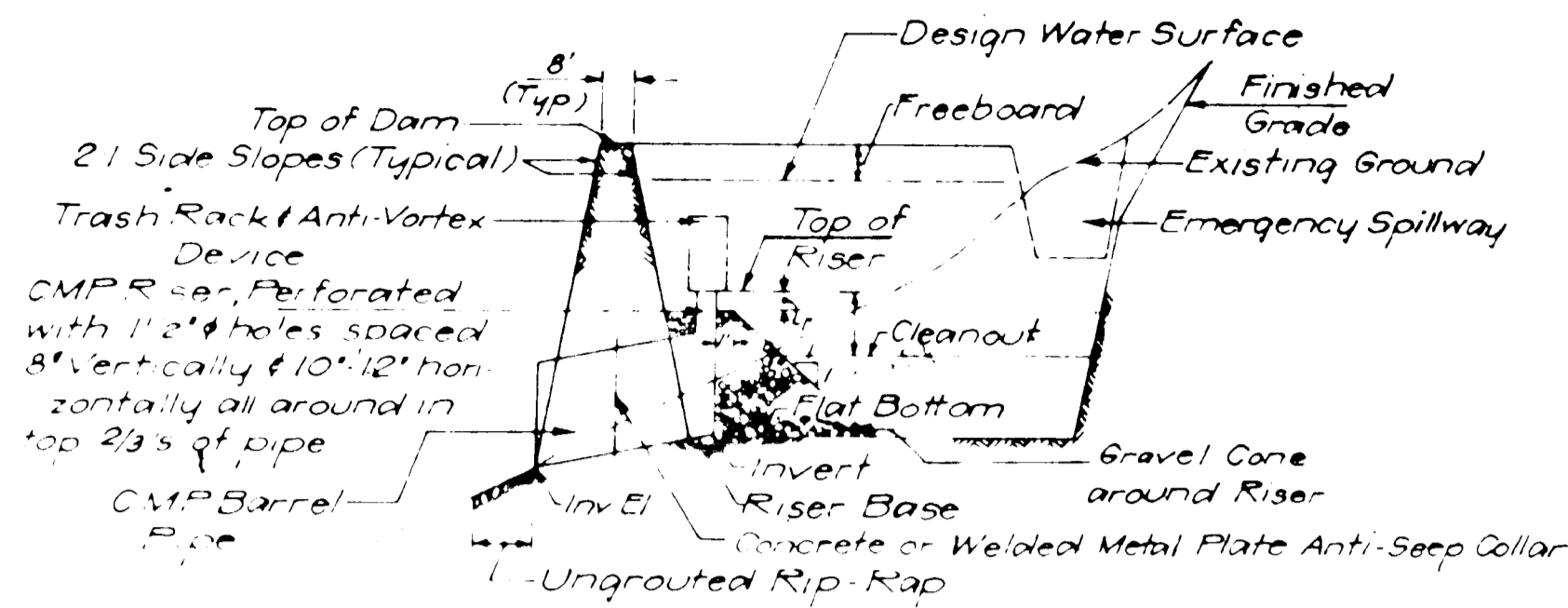
No.	REVISION	DATE	BY
1.	Changed parking area & paving material	10-30-73	BAM
2.	Revise grading, layout and added fence detail	12-27-73	BAM
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GREENHORNE & O'MARA, INC.
ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
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HOWARD COUNTY, MARYLAND
GENERAL COUNTY PROJECT GC 0113
BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
6th ELECTION DISTRICT
SITE DEVELOPMENT PLAN
DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-1

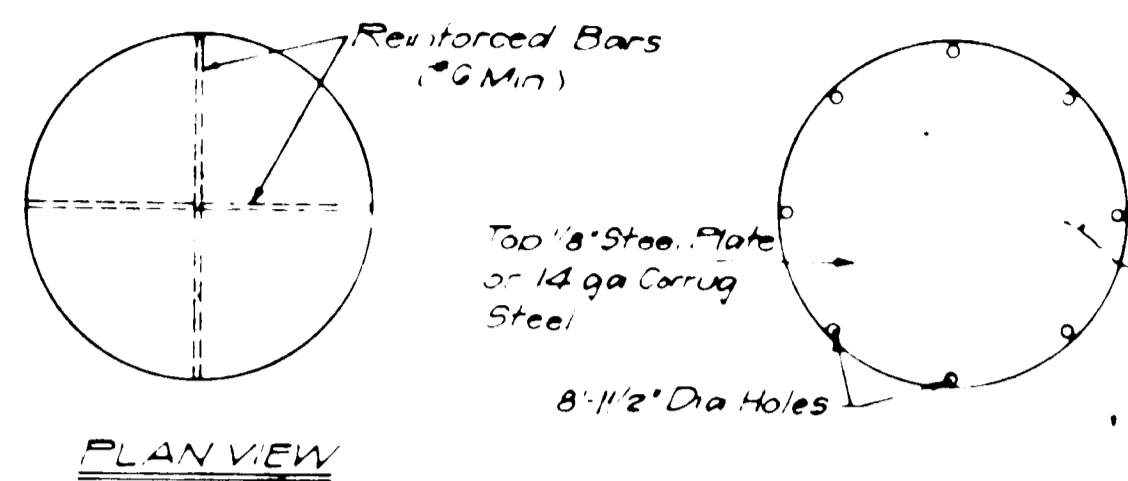
J.W.W. DESIGN	CLIENT: DEPT. OF PUBLIC WORKS
BAM DRAWN	HOWARD COUNTY, MD. 3480 COURT HOUSE DR. ELLICOTT CITY, MARYLAND
T.G.K. CHECKED	SCALE 1" = 50'
4/24/73 DATE	SHEET No. C-1 OF 6
11/528 JOB No.	5073-X FILE No.

ALTERNATE #5
Deduct the cost of sediment control construction as specified on these plans.

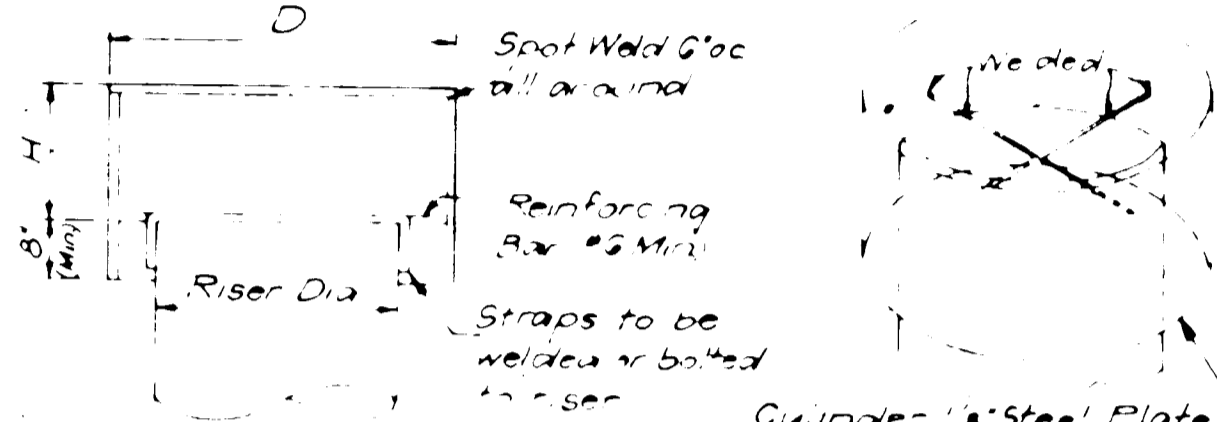


SCHEMATIC SEDIMENT BASIN SECTION
NO SCALE

SEDIMENT BASIN TABLE		
ITEM	AMOUNT	UNIT
Top of Dam Elev.	378.5	375.0
Bottom Elev. (Basin)	374.0	370.0
Bottom Area	3000 SF	3000 SF
Top of Riser Elev.	372.0	372.0
Cleanout Elev.	375.5	37.3
Bottom Elev. of Riser	374.0	370.0
Invert Elev. of Riser	373.0	365.0
Riser Pipe Size	24"	
Buried Pipe Size	18"	12"
Riser Pipe Length	20'	2.0'
Buried Pipe Length	40'	50'
Emergency Spillway Elev.	NONE	373.0

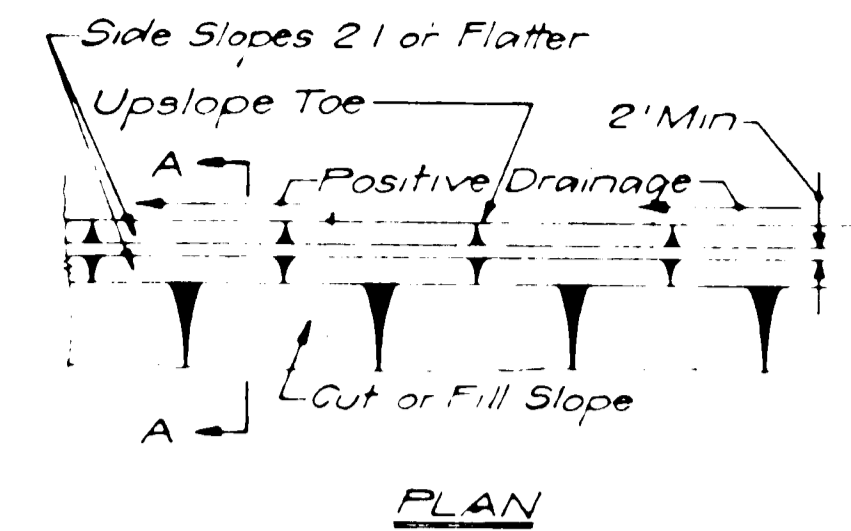


PLAN VIEW

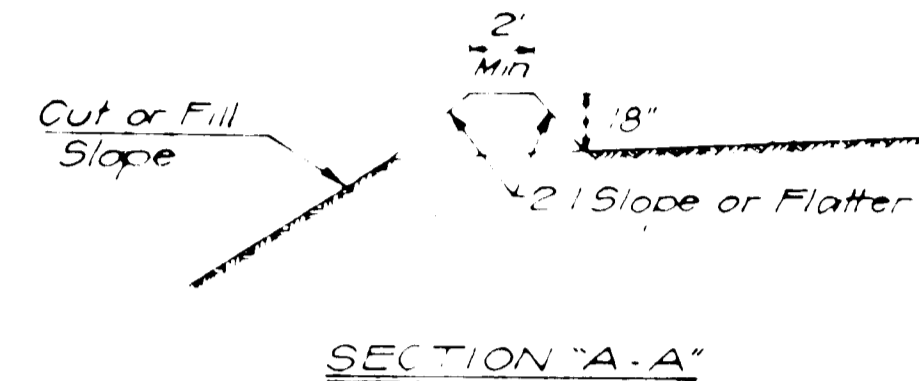


ELEVATION

DETAIL OF TRASH RACK AND ANTI-VORTEX DEVICE
NO SCALE



PLAN



SECTION "A-A"

NOTES

- All dikes must be machine compacted.
- All diversion dikes must have positive grade drainage to a stabilized outlet.
- Diverted runoff will outlet onto a stabilized, undisturbed area, a prepared level spreader, or into a grade stabilization structure.
- Periodic inspection & required maintenance must be provided.

DIVERSION DIKE
NO SCALE

NOTES

SEDIMENT CONTROL AND SOIL STABILIZATION INSTRUCTIONS

- SCOPE
 - Sediment Control and Soil Stabilization during construction
 - Permanent Soil Stabilization Features and their maintenance after construction has been completed
- APPLICABLE DOCUMENTS
 - State of Maryland, Department of Natural Resources, Rule and Procedure for Sediment Control, April, 1972
 - County Council of Howard County, Maryland, Council Bill 38, 1971.
 - United States Department of Agriculture, Soil Conservation Service, Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas. Adopted by State of Maryland, Department of Natural Resources in response to House Bill 1151, 1970.
- SEQUENCE OF SEDIMENT CONTROL ACTIVITIES
 - Activity 1 - The general contractor shall notify the Howard County Department of Public Works, 9051 Baltimore National Pike, Ellicott City, Maryland, 21043, (301) 465-3180, in writing at least 24 hours before the commencement of any construction or institution of sediment control measures shown on this drawing.
 - Activity 2 - The Stormwater Outfall Line to Montgomery Road shall be constructed before any other sediment control measures are instituted. Construction shall include all improvements required by the State Highways Administration, and listed on their construction permit.
 - Activity 3 - Sediment Control Measures shall be constructed and must be approved for service by the Howard County Department of Public Works, Bureau of Inspections, Licenses and Permits for the Soil Conservation District before site grading operations will be permitted. All Sediment Control Measures shall be constructed as directed by this drawing, and shall then be maintained in operation until permission for their removal has been obtained from the Bureau of Inspections, Licenses and Permits for the Soil Conservation District.

DEVELOPER'S CERTIFICATE

I hereby certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and 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 made unless authorized by the Howard County Soil Conservation District.

Signature of Developer _____ Date _____

ENGINEER'S CERTIFICATE

I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.

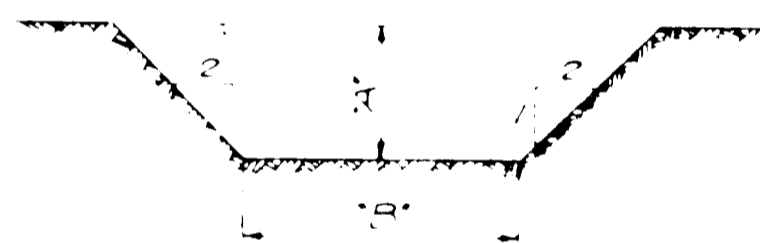
Signature of Engineer _____ Date _____

Reviewed for Howard S.C.D. Name and meets Technical Requirements Date 6-14-74 Signature _____ U.S. Soil Conservation Service

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

Approved Pl. W. J. Date 6-14-74 Howard S.C.D.

SEDIMENT BASIN NUMBER	2-1
DATE	6-14-74



TYPICAL SECTION OF EMERGENCY SPILLWAY
NO SCALE



CROSS SECTION OF CONCRETE BASE
NO SCALE

NOTE: All joints & connections of CMP to be securely fastened & water tight.

3.4 Activity 4 - Stockpiles of excavated materials shall be placed at locations identified on this drawing. Stockpiled material shall have a temporary berm laid around its base (see detail) with a minimum 25-foot long stone overflow berm at the low point.

All stockpiles that are to be undisturbed for three (3) weeks or longer shall, immediately after piling, be fertilized, limed and seeded with annual rye grass at a rate of 1.0 pounds per 1,000 square feet.

All excess earth shall be removed from the site and disposed of, in accordance with plans to be submitted by the Contractor for Soil Conservation District approval. The plan shall become a necessary condition of, and attachment to, the Grading Permit to be issued by the Bureau of Inspections, Licenses and Permits.

3.5 Activity 5 -

- 3.5.1 All areas disturbed by grading or equipment movement, not being paved, and flatter than three (3) feet horizontal to one (1) foot vertical, shall be topsoiled, seeded and mulched following completion of permanent and/or temporary grading, in accordance with the following:
 - Place 3" compacted layer of topsoil to finished grade.
 - Spread pulverized dolomitic limestone at the rate of one ton per acre.
 - Spread 10-10-10 commercial grade fertilizer at a rate of 1,000 pounds per acre and immediately disc into soil to a depth of 3".
 - Seed prepared areas at the rate of 180 pounds per acre using Kentucky 31 Fescue and 20 pounds per acre Annual Rye Grass. Mulch all areas, immediately after seeding with unweathered small grain straw or hay at the rate of 1.5 tone per acre. Spray mulch with emulsified asphalt at the rate of 1.24 gallons per square yard.
 The seed, fertilizer and mulch may also be applied by hydroseeding.

- 3.5.2 Temporary stabilization may be accomplished by spreading or hydroseeding, as follows:
 - Pulverized dolomitic limestone at a rate of one ton per acre.
 - 10-10-10 commercial grade fertilizer at the rate of 600 pounds per acre.
 - Disc into the soil to a depth of at least 3".
 - Seed with annual rye grass at a rate of 35 pounds per acre.
 - Mulch in accordance with 3.5.1.d.
- 3.5.3 In lieu of mulch application for temporary and permanent conditions, the following alternates may be used:
 - Woven jute matting.
 - Woven fiberglass matting.

3.6 Activity 6 - Graded, but unpaved, parking lot areas shall be rough graded to drain into the temporary sediment basin and basin, but away from the construction area.

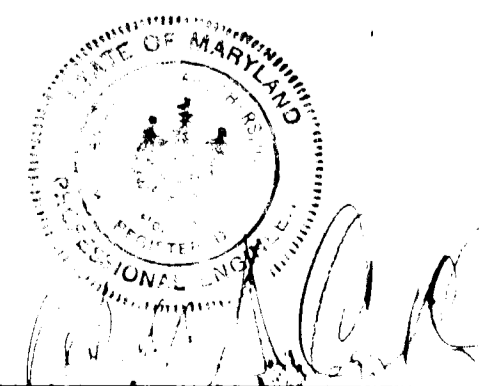
3.7 Activity 7 - Site work related to the areas intended to receive seeding, sodding or planting shall be carried out in conformance with the Standards and Specifications.

- Suitable temporary stabilization measures, such as included in Activity 5, will be required for areas where:
- The "Time to Form Cover" exceeds one growing season
 - The planting cannot be carried out during the growing season
- 3.8 As-built Drawings shall be delivered to the owner for his use in identifying permanent stabilization measures; i.e., grass swales requiring regular maintenance and noting the type of maintenance.

4.0 INSPECTION AND ENFORCEMENT

- 4.1 The Howard County Department of Public Works has certified that construction and maintenance of Sediment Control and Soil Stabilization Measures shall be carried out in accordance with these drawings and construction specifications, as required by Council Bill 38, 1971 (Document 2.2). The Contractor shall familiarize himself with the provisions of this bill and shall prepare and institute a maintenance program for sediment control structures (including daily checks at the end of a shift) satisfactory to the Architect.
- 4.2 Inspection by the Bureau of Inspections, Licenses and Permits will be supplemented by spot checks by the Architect or the Owner's Representative to insure responsible compliance by the Contractor.

APPROVED: FOR _____ (PRIVATE) WATER AND _____ (PRIVATE) SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	DATE: 6/14/74
Signature: _____	DATE: 6-17-74
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	DATE: 6-17-74
Signature: _____	DATE: 6/14/74
APPROVED: _____ STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE: 6/14/74
Signature: _____	DATE: 6/14/74



No	REVISION	DATE	BY

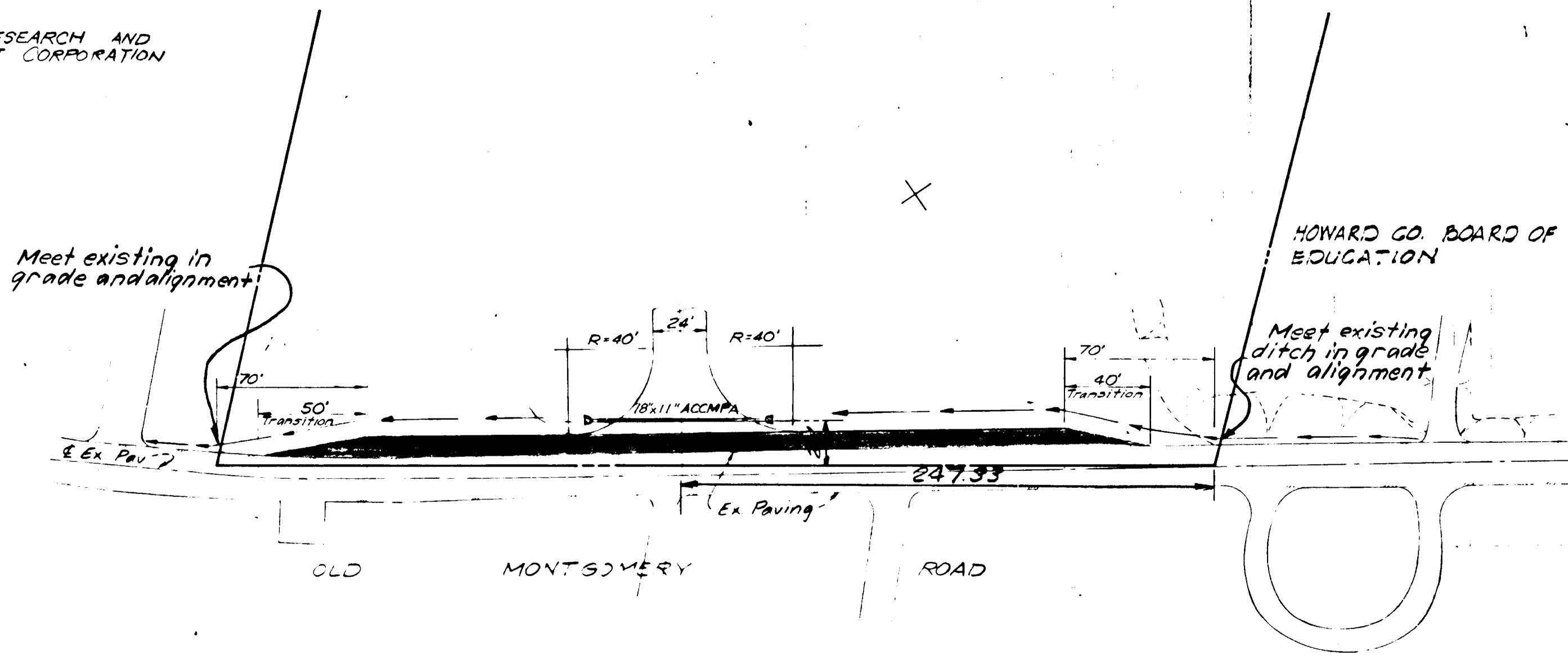
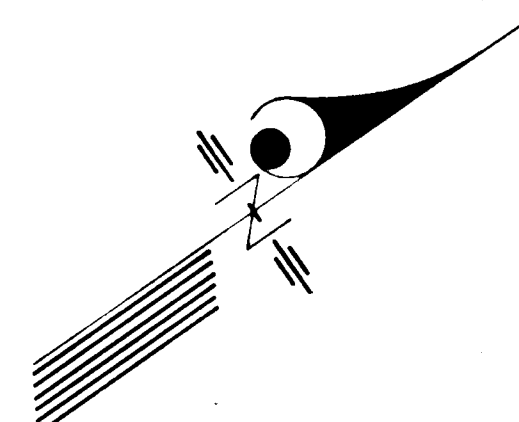


GREENHORNE & O'MARA, INC.
ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
6715 KENILWORTH AVE., RIVERDALE, MD.

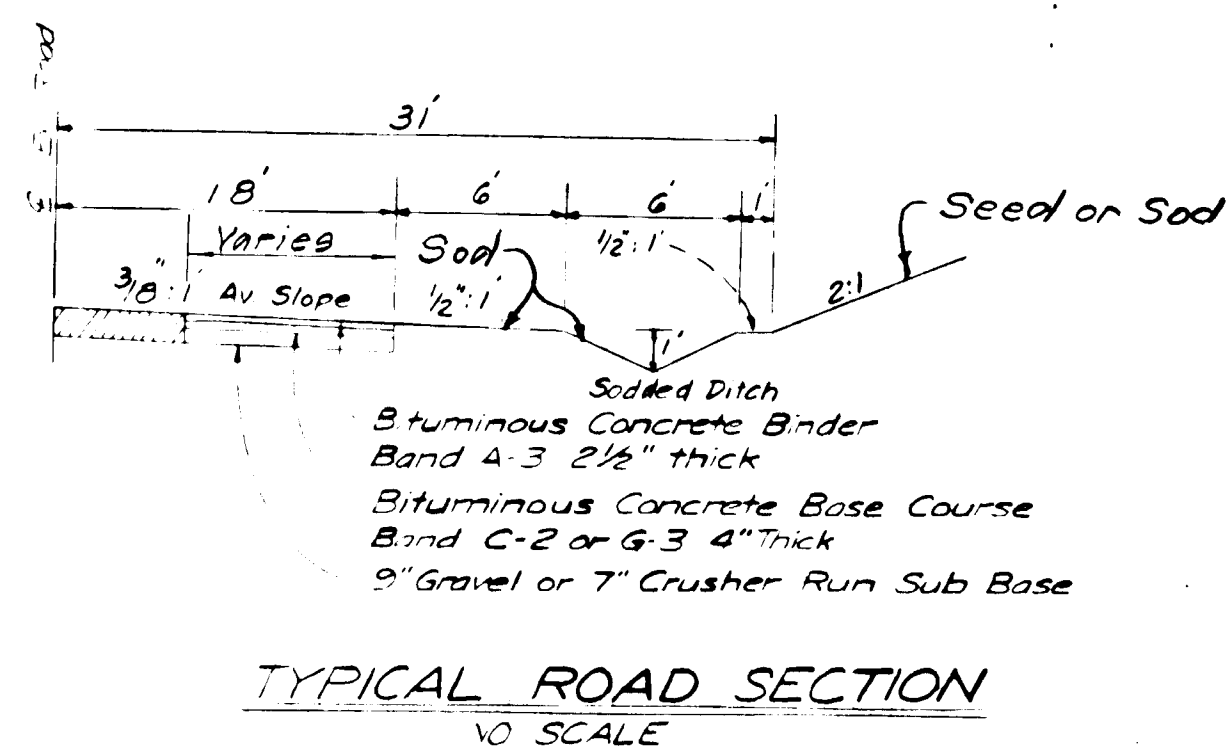
HOWARD COUNTY, MARYLAND
GENERAL COUNTY PROJECT GC 0113
BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
6TH ELECTION DISTRICT
SEDIMENT CONTROL PLAN
DEPARTMENT OF PUBLIC WORKS DRAWING GC 0113-C-4

DESIGN	SCALE	AS SHOWN
DRAWN	SHEET No.	C-1 OF 3
CHECKED	DATE	Jan 1974
DATE	JOB No.	111585
	FILE No.	5264-X

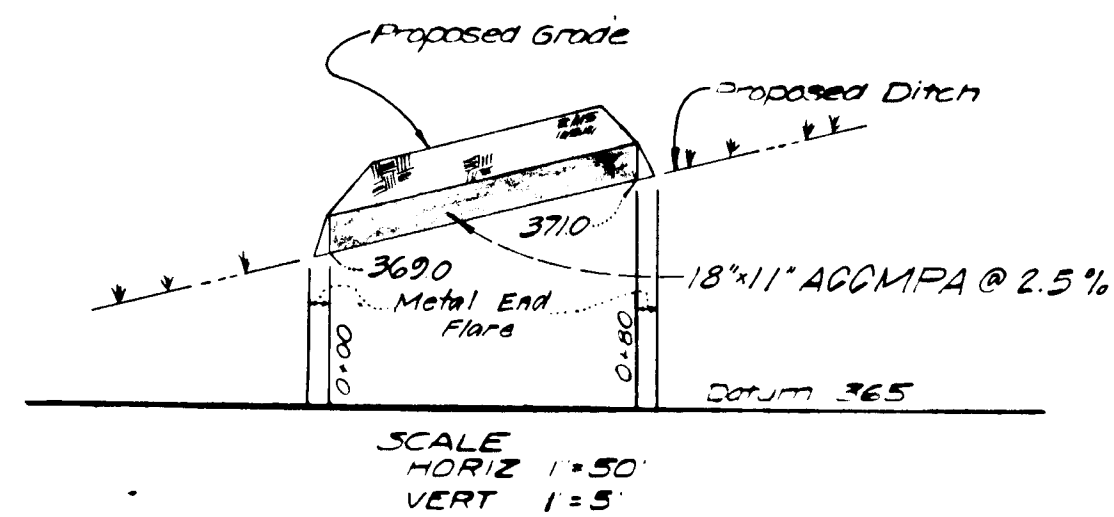
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION



PLAN VIEW
SCALE 1"=50'



TYPICAL ROAD SECTION
1/2" SCALE



PIPE SCHEDULE			
SIZE	TYPE	LENGTH	REMARKS
18"11"	ACCMPA	80'	W/Metal End Sect

* 16 Ga.

STORM DRAIN NOTES

- All storm drains shall be constructed in accordance with the latest edition of the general specifications of the Howard County.
- Types of structures refer to the standard storm drainage details of Howard County unless otherwise noted.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location of the mains by digging test pits by hand at all utility crossings well in advance of trenching. If clearances are less than shown on this plan or six (6) inches, whichever is less, contact the storm drain section before proceeding with construction.

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

DIRECTOR _____ DATE _____
CHIEF, BUREAU OF HIGHWAYS _____ DATE _____

W. J. ... 6/11/74
DIST. DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

APPROVED: FOR (PRIVATE) WATER AND (PRIVATE) SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
... 6/13/74
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
... 6-17-74
PLANNING DIRECTOR DATE

APPROVED: (PRIVATE) WATER AND (PRIVATE) SEWERAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William A. Altman 6-13-74
DIRECTOR DATE
... 6-11-74
CHIEF, BUREAU OF HIGHWAYS DATE

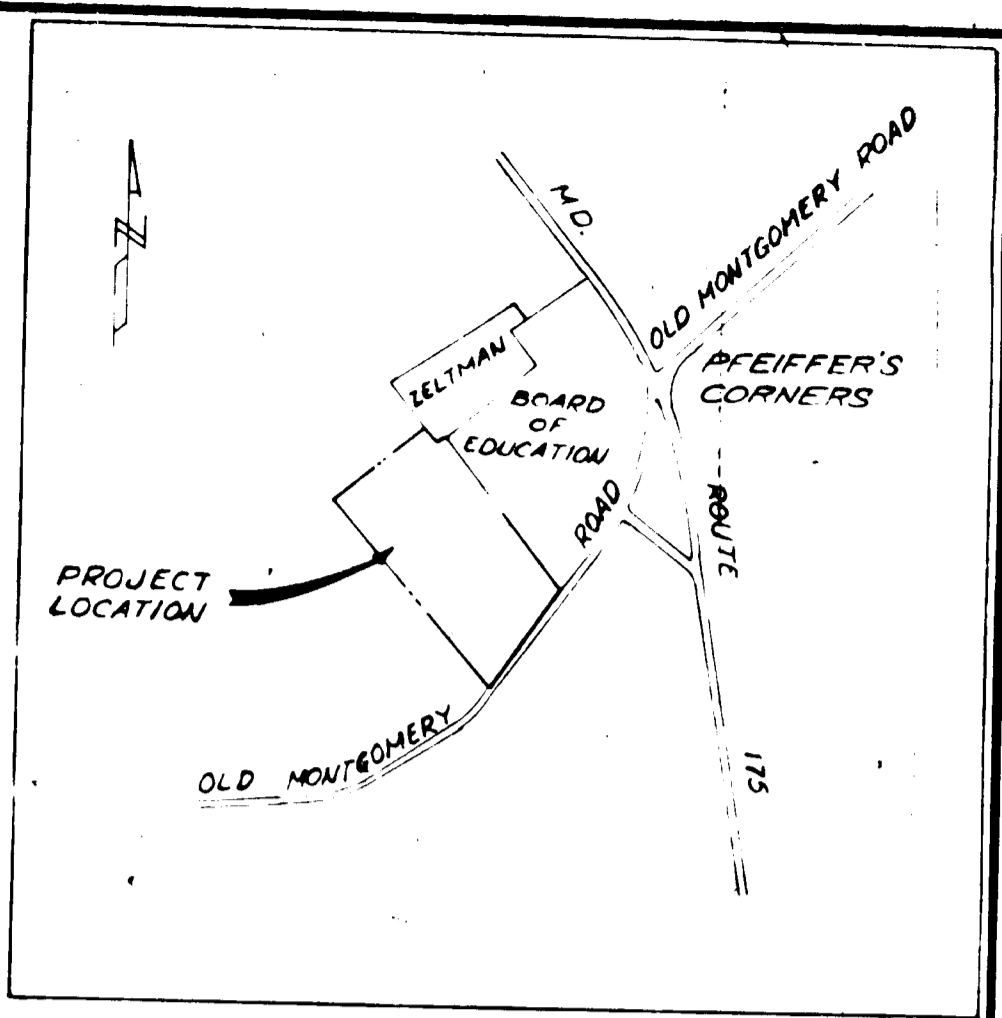


No	REVISION	DATE	BY

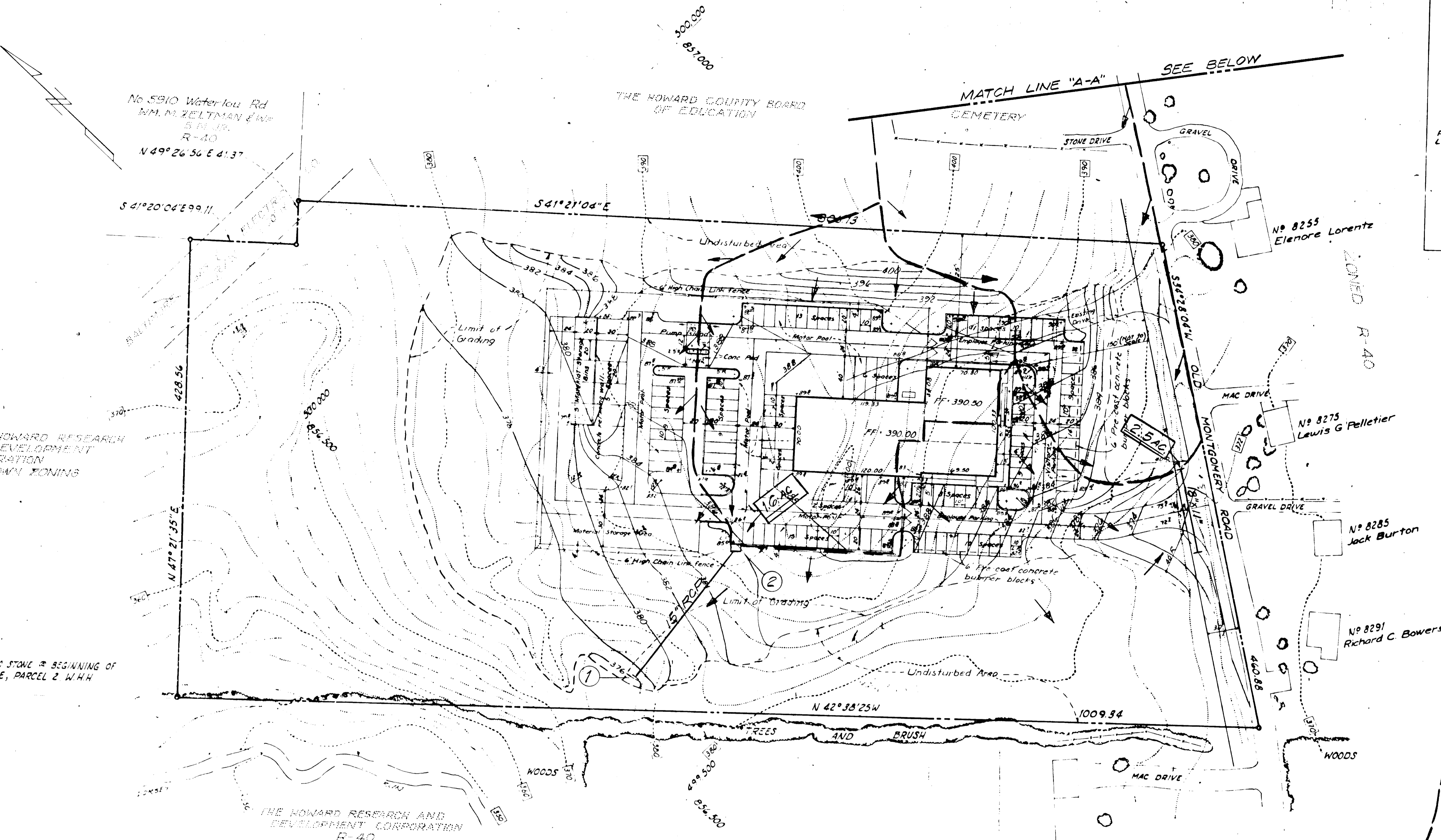
GREENHORNE & O'MARA, INC.
ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
6715 KENILWORTH AVE., RIVERDALE, MD.
301/277-2121 20840

HOWARD COUNTY, MARYLAND
GENERAL COUNTY PROJECT GC 0113
BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
6TH ELECTION DISTRICT
ROAD WIDENING & ENTRANCE PLAN
ON OLD MONTGOMERY ROAD
DEPARTMENT OF PUBLIC WORKS DRAWING 0113-C-5

L.S.C. DESIGN
R.W. DRAWN
CHECKED SHEET
DATE 1/15/74 JOB No. 5268-X



VICINITY MAP
Scale 1" = 800'
Tax Map 37 Parcel 5.49
6th Election District



No 5910 Waterloo Rd
WM. M. ZELTMAN & WIFE
S. M. JR.
R-40
N 49° 26' 56" E 41.37'

THE HOWARD COUNTY BOARD
OF EDUCATION

THE HOWARD RESEARCH
AND DEVELOPMENT
CORPORATION
NEW TOWN ZONING

1009.96' TO STONE @ BEGINNING OF
SIXTH LINE, PARCEL 2 WITH
403.50'

THE HOWARD RESEARCH AND
DEVELOPMENT CORPORATION
R-40

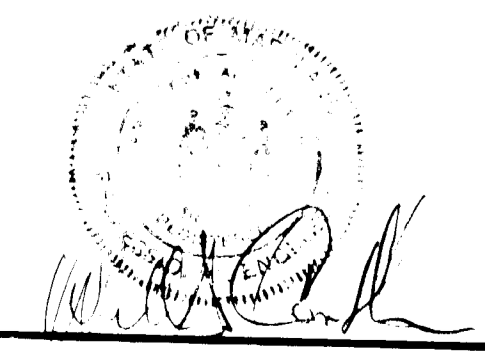
C. J. Lawson
 CHIEF DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 DATE 6-17-74
 APPROVED: FOR [] (PRIVATE) WATER AND []
 (PRIVATE) SEWERAGE SYSTEMS, HOWARD
 COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 6/14/74
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 6-17-74
 APPROVED: [] STORM
 DRAINAGE SYSTEMS AND ROADS, HOWARD
 COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 6/13/74
 CHIEF BUREAU OF HIGHWAYS DATE 6/21/74

No.	REVISION	DATE	BY

GREENHORNE & O'MARA, INC.
ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
6715 KENILWORTH AVE., RIVERDALE, MD.

HOWARD COUNTY, MARYLAND
GENERAL COUNTY PROJECT GC 0113
BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
6th ELECTION DISTRICT
DRAINAGE AREA MAP
DEPARTMENT OF PUBLIC WORKS DRAWING GC 0113-C-6

L.S.C. DESIGN	CLIENT: DEPT. OF PUBLIC WORKS HOWARD COUNTY, MARYLAND JACKSON HOUSE DRIVE ELLCOTT CITY, MARYLAND
R.W. DRAWN	SCALE 1" = 50'
CHECKED	SHEET No. C-6 OF 6
DATE	JUN 1974 JOB No. 111574 FILE No. 5267-X



10-31-73

APPROVED: FOR (PRIVATE) WATER AND (PRIVATE) SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 6/17/74

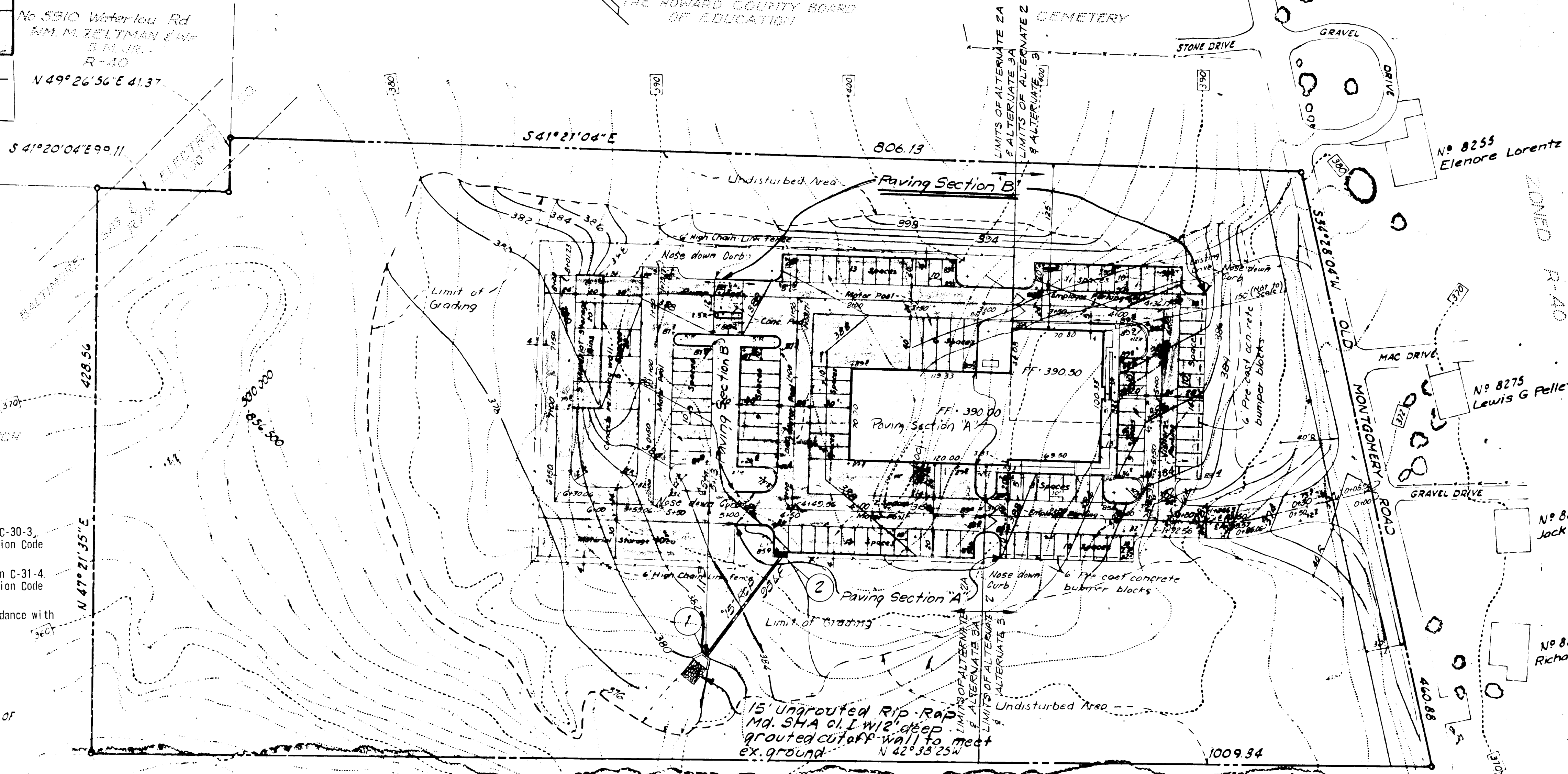
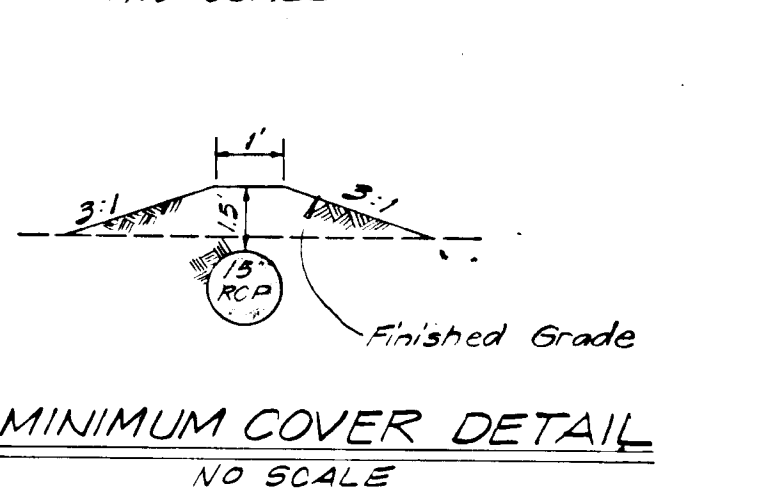
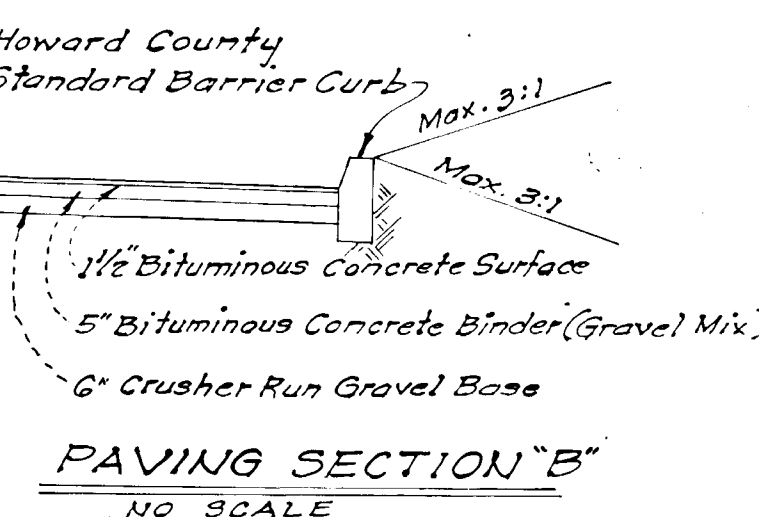
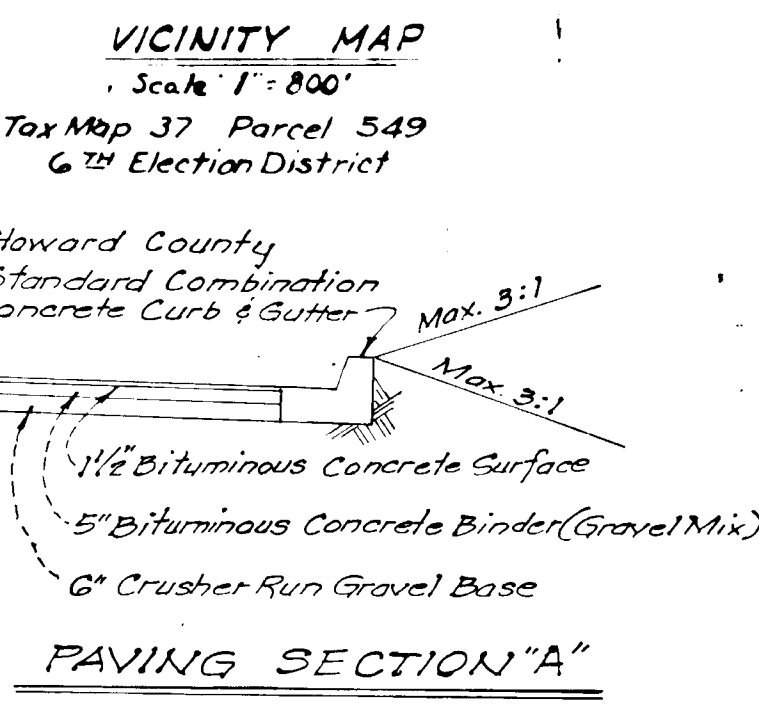
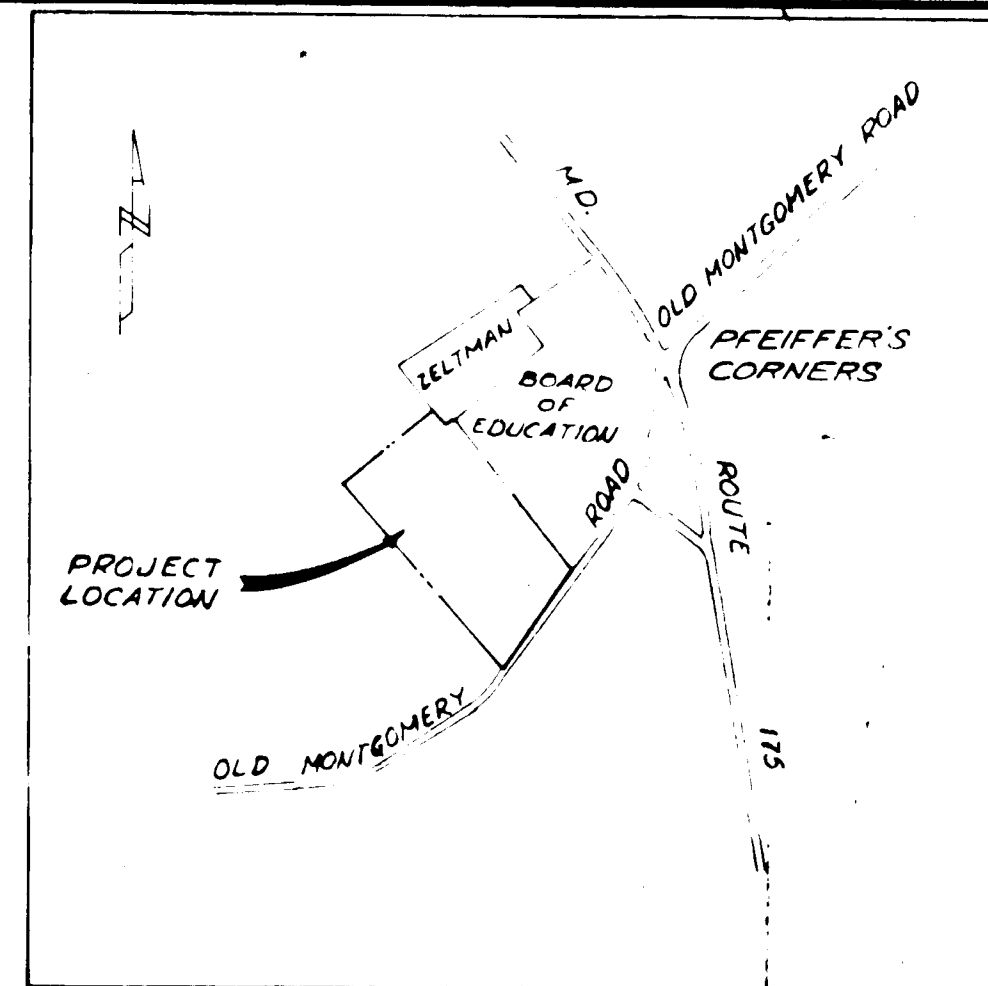
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 2-17-74

APPROVED: STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 6/17/74

W. J. ... DATE 6/17/74
 CHIEF DIVISION OF LAND DEVELOPMENT DATE 6/17/74
 400 TRANSPORTATION PLANNING

ALTERNATE #2
 Deduct from the base price bid the cost for deleting all work shown in connection with the construction of 1 1/2" asphalt surface course paving as specified in the contract documents.

ALTERNATE #3
 Deduct from the base price bid the cost for deleting all work shown in connection with the construction of the 5" asphalt base course paving as shown in the contract documents.



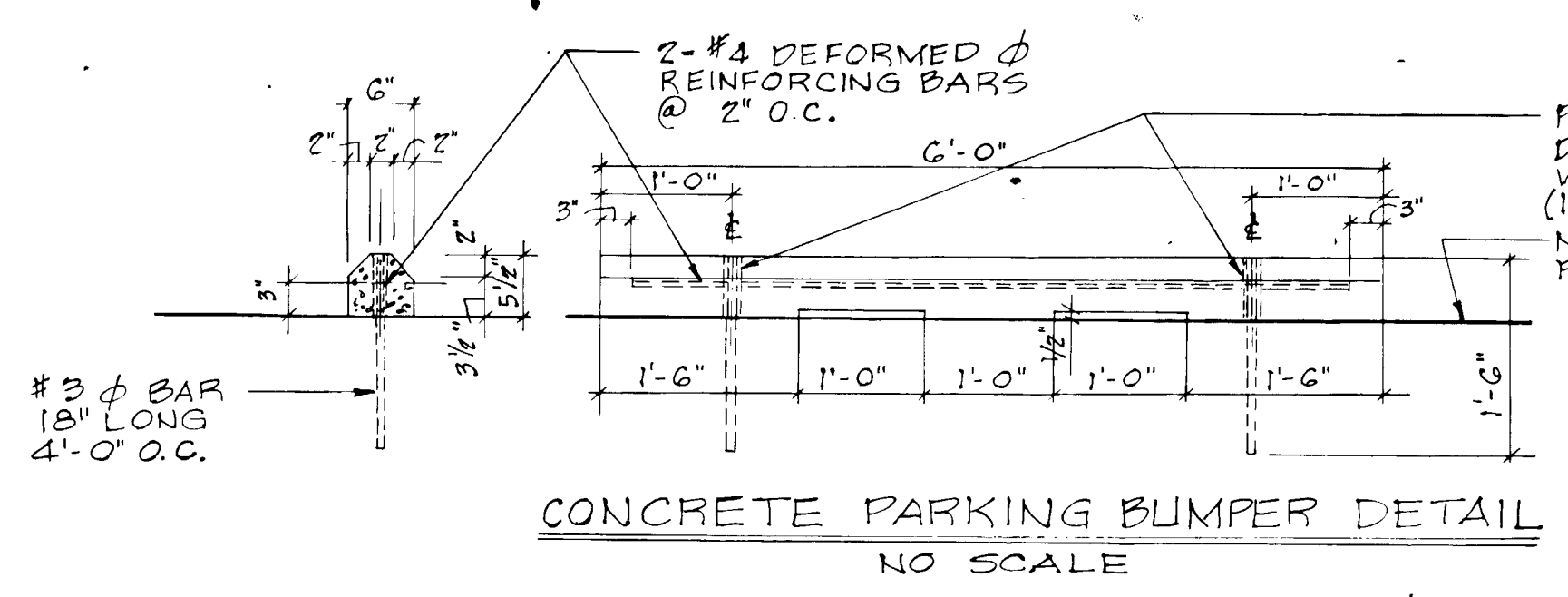
- PAVING NOTES:
- Base will be primed in accordance with Section C-30-3, as provided in the Howard County Road Construction Code and Standard Specifications.
 - Tack coat is required in accordance with Section C-31-4 as provided in the Howard County Road Construction Code and Standard Specifications.
 - All material and construction shall be in accordance with the Howard County Road Construction Code and Standard Specifications.

STRUCTURE SCHEDULE

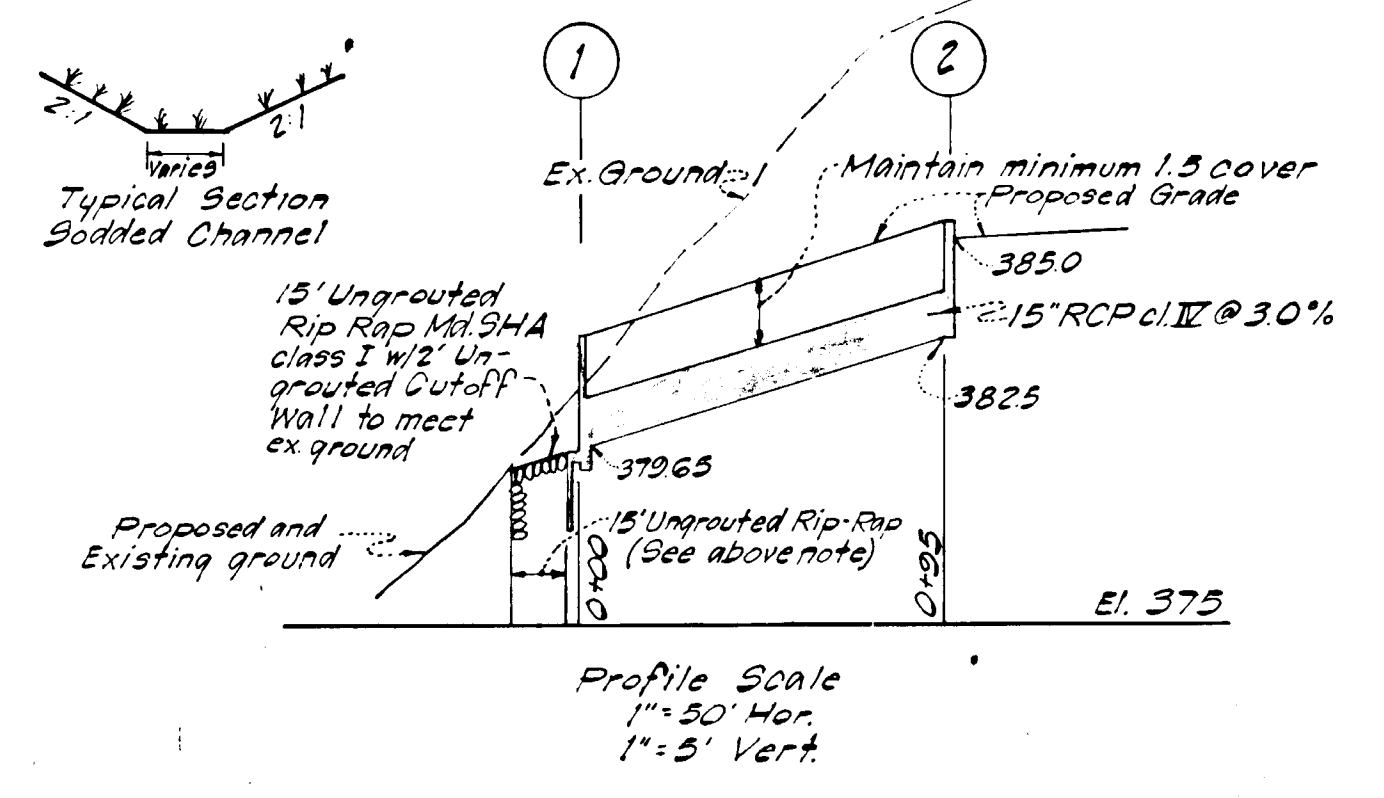
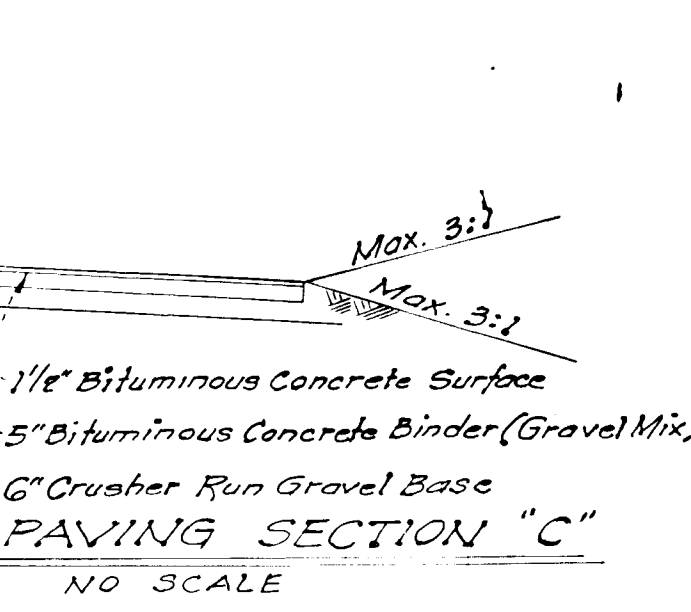
No.	Type	Elev. Top	Remarks
1	F. Endwall Mod #	-	Page III
2	A. Ditch w/ 2' x 6"	385.5	Page 119-A

* Modified to Set Wings @ 45°

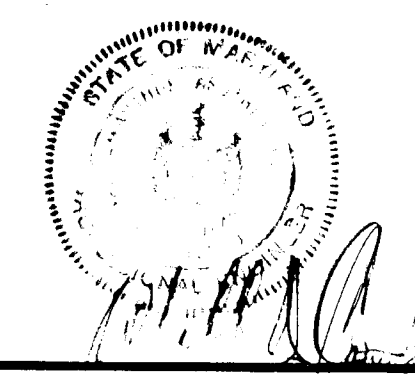
- STORM DRAIN NOTES:
- ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE GENERAL SPECIFICATIONS OF THE HOWARD COUNTY.
 - TYPES OF STRUCTURES REFER TO THE STANDARD STORM DRAINAGE DETAILS OF HOWARD COUNTY UNLESS OTHERWISE NOTED.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT THE STORM DRAIN SECTION BEFORE PROCEEDING WITH CONSTRUCTION.
 - OUTFALL FOR STORM DRAIN TO BE ON EXISTING GROUND.



PLAN VIEW
 Scale: 1" = 50'



APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 6-17-74
 CHIEF, BUREAU OF HIGHWAYS DATE



No.	REVISION	DATE	BY

GREENHORNE & O'MARA, INC.
 ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.

HOWARD COUNTY, MARYLAND
 GENERAL COUNTY PROJECT GC 0113
 BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
 6TH ELECTION DISTRICT
ONSITE STORM DRAINAGE & PAVING PLAN
 DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-7

LSC DESIGN	CLIENT: DEPT. OF PUBLIC WORKS, HOWARD COUNTY, MARYLAND, 1450 COLLETT HOUSE DRIVE, ELICOTT CITY, MARYLAND
RW DRAWN	SCALE AS SHOWN
CAS CHECKED	SHEET NO. C-7 OF 9
JUN 1974 DATE	11/574 JOB NO. 5266-X FILE NO.

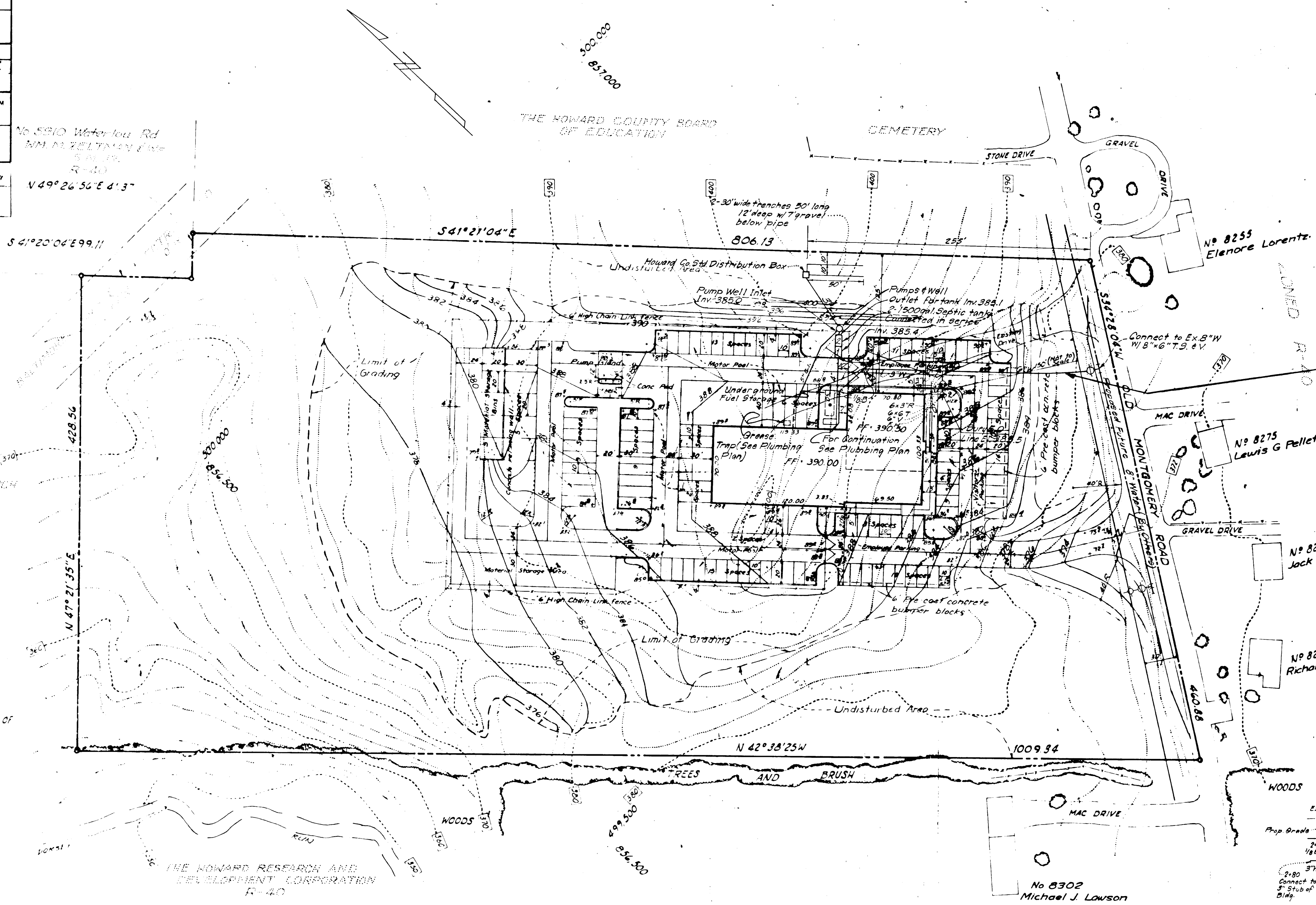
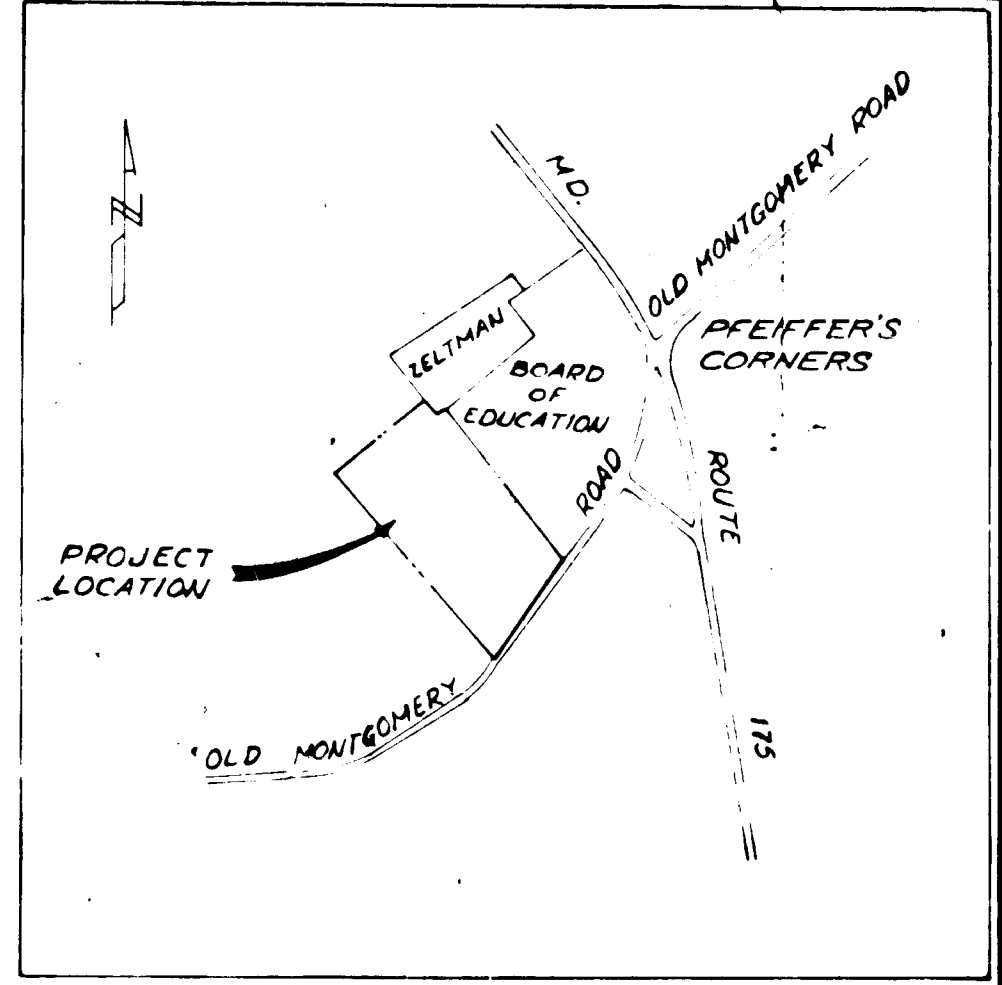
APPROVED: FOR (PRIVATE) WATER AND (PRIVATE) SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 6/14/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 6-17-74

APPROVED: STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 WILLIAM G. AITKEN DATE 12/14
 DIRECTOR
 JOHN W. McBRIDE DATE 6-11-74
 CHIEF, BUREAU OF HIGHWAYS
 JOHN W. McBRIDE DATE 6-11-74
 CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

No SRD Waterless Rd
 NW 1/4 ZELTMAN CORNERS
 R-40
 N 49° 26' 36" E 613'

ALTERNATE #6
 Deduct from the base price bid the cost for deleting all work shown in connection with the septic system as specified in the contract documents.



Note: This section of water line is not to be constructed until proposed 8" water has been located in the field in both plan & profile by the Contractor.

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 NEW TOWN ZONING

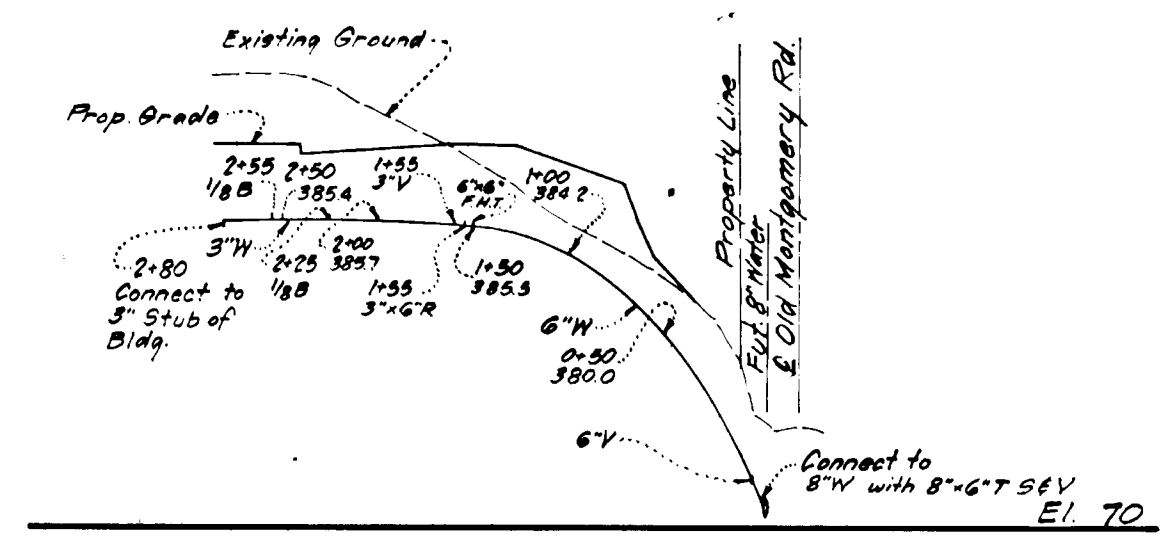
1084 96' TO STONE 2 BEGINNING OF SIXTH LINE, PARCEL 2 W.H.H. 403.50

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 R-40

- SEPTIC NOTES
- All construction will be in accordance with the Howard County Stds and Health Department criteria or requirements.
 - All distribution lines boxes tanks wells, etc., (except drainfield) shall be water tight.
 - Pump well shall be vented.
 - All pipe (except drainfield) shall be 3-inch or 4-inch (as specified) cast iron CI 24 and 23 respectively with tyton joints or approved equal.
 - Septic tanks shall be Howard County std 1500 gal., connected in series. Outlet of tank #2 to be 4-inch below inlet of tank #1. Tanks to be same elevation.
 - Brick up manholes from the septic tank to ground. Construction in accordance with Howard County std S-2 and install frame and cover Howard County std S-12.
 - Pump to be Hydra-p-matic model no. SLL 100 A03 or approved equal.
 - Pump data:
 Capacity - 40 gpm
 Head - 27 feet
 Motor - 1 HP 3 phase 208 volts
 - High water alarm bell hydra-p-matic model no 636A8-111, or approved equal, shall be provided.
 - Sump basin shall be 42-inch diameter, 96-inch deep and made of steel w/ side discharge.

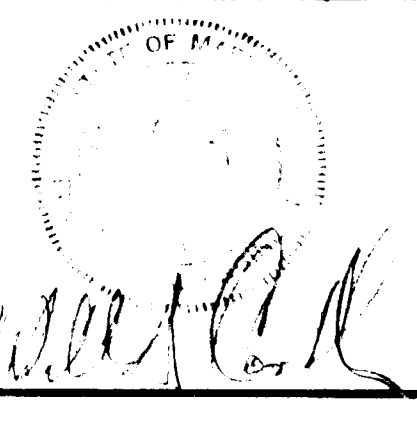
- 11 For electrical connections and emergency generator connections see Electrical Plan.

- WATER NOTES
- All construction materials shall be in accordance with Howard County std., specification and details for water mains and sanitary sewers.
 - All water shall be laid with a minimum of 3.5 foot cover.
 - All 3-inch and 6-inch water mains shall be cast iron CI 24 and class 22 respectively, cement lined with tyton joints or approved equal.
 - Fire hydrant to be set in accordance with std. detail W-4 and strapped in accordance with std detail W-6.
 - All tees and bends to be blocked in accordance with Howard County std detail W-1 and W-6, respectively.
 - Contractor shall verify locations and elevations of all existing utility lines prior to construction.
 - Contractor shall verify location of WMO and SHC before proceeding with onsite construction.
 - All elevations shown on water profile are invert elevations.
 - Contractor shall notify the Baltimore Gas and Electric Company (301/539-8000 ext. 88) and the C & P Telephone Company (301/985-1400) 72 hours prior to commencement of construction.
 - Proposed future 8-inch water shown from best available records, but accuracy can not be guaranteed.
 - Connect water to 5'0" stub out from building.



WATER PROFILE
 Scale: 1"=100' Hor
 1"=10' Vert

10-31-73
 J. Thomas Aitken



No.	REVISION	DATE	BY

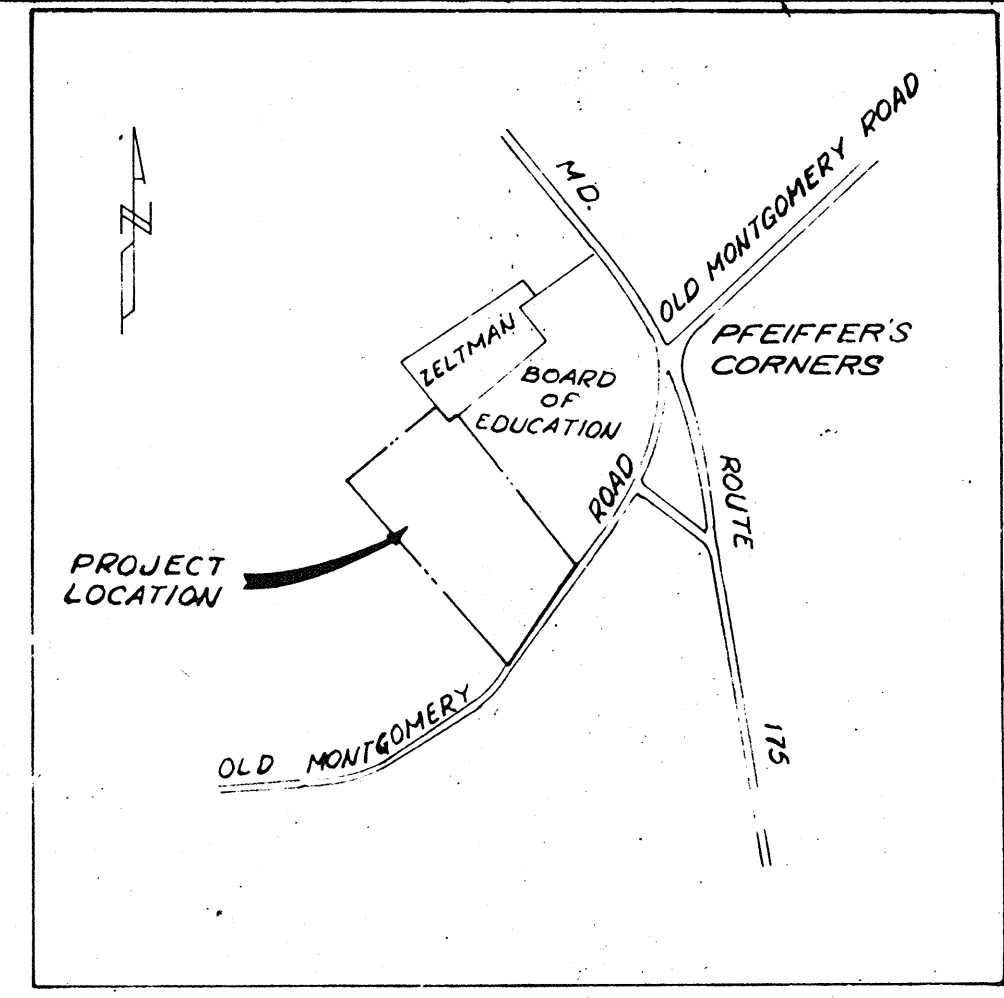


GREENHORNE & O'MARA, INC.
 ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.

HOWARD COUNTY, MARYLAND
 GENERAL COUNTY PROJECT GC 0113
 BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
 6TH ELECTION DISTRICT
SEPTIC FIELD AND WATER PLAN
 DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-8

L.S.C. DESIGN	CLIENT: DEPT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1285 COURT HOUSE DRIVE ELLICOTT CITY, MARYLAND
R.W. DRAWN	SCALE 1"=50'
CAS CHECKED	SHEET C-8 OF 8
DATE	JAN 1974
JOB No.	11552/11563
FILE No.	5265-X

ALTERNATE #5
 Deduct from the base price bid the cost for deleting all sediment control construction and related work as specified in the contract documents.



No 5910 Waterloo Rd
 M.M. ZELTMAN & INC.
 S.D. 19
 R-40
 N 49° 26' 56" E 41.37'

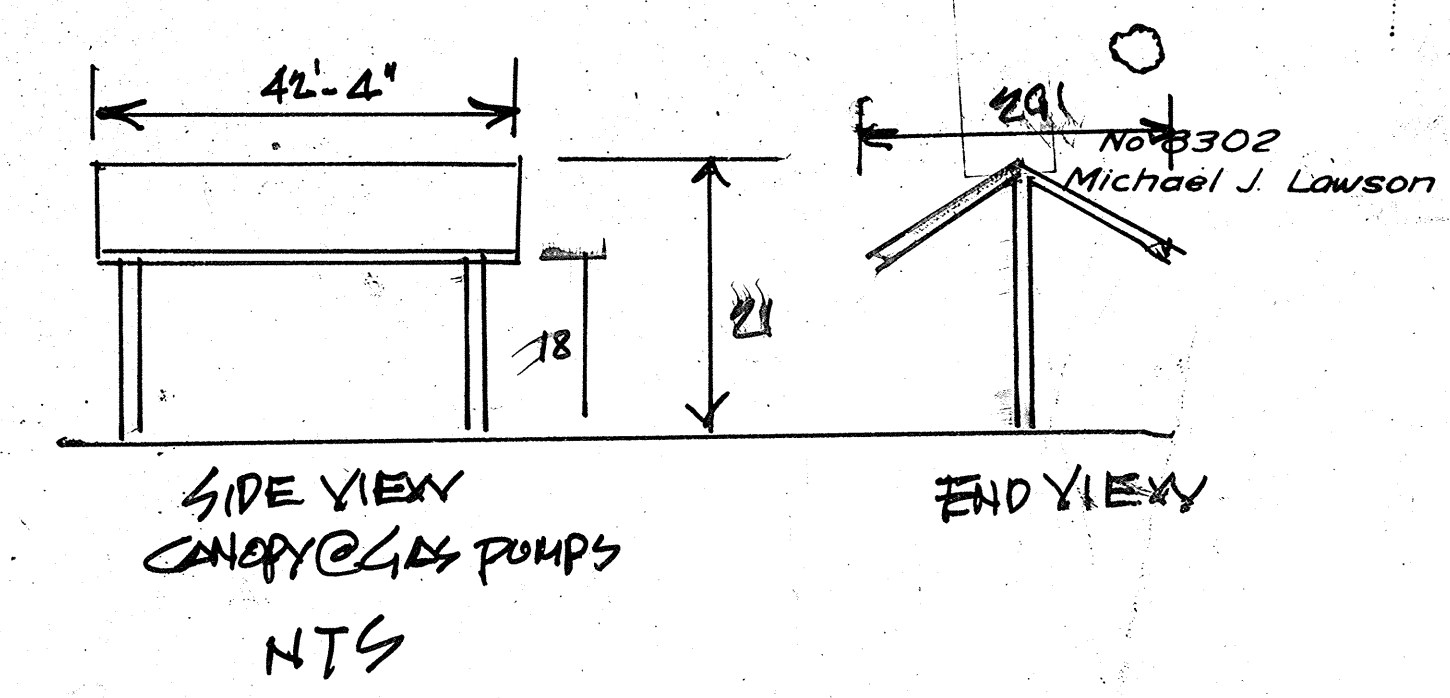
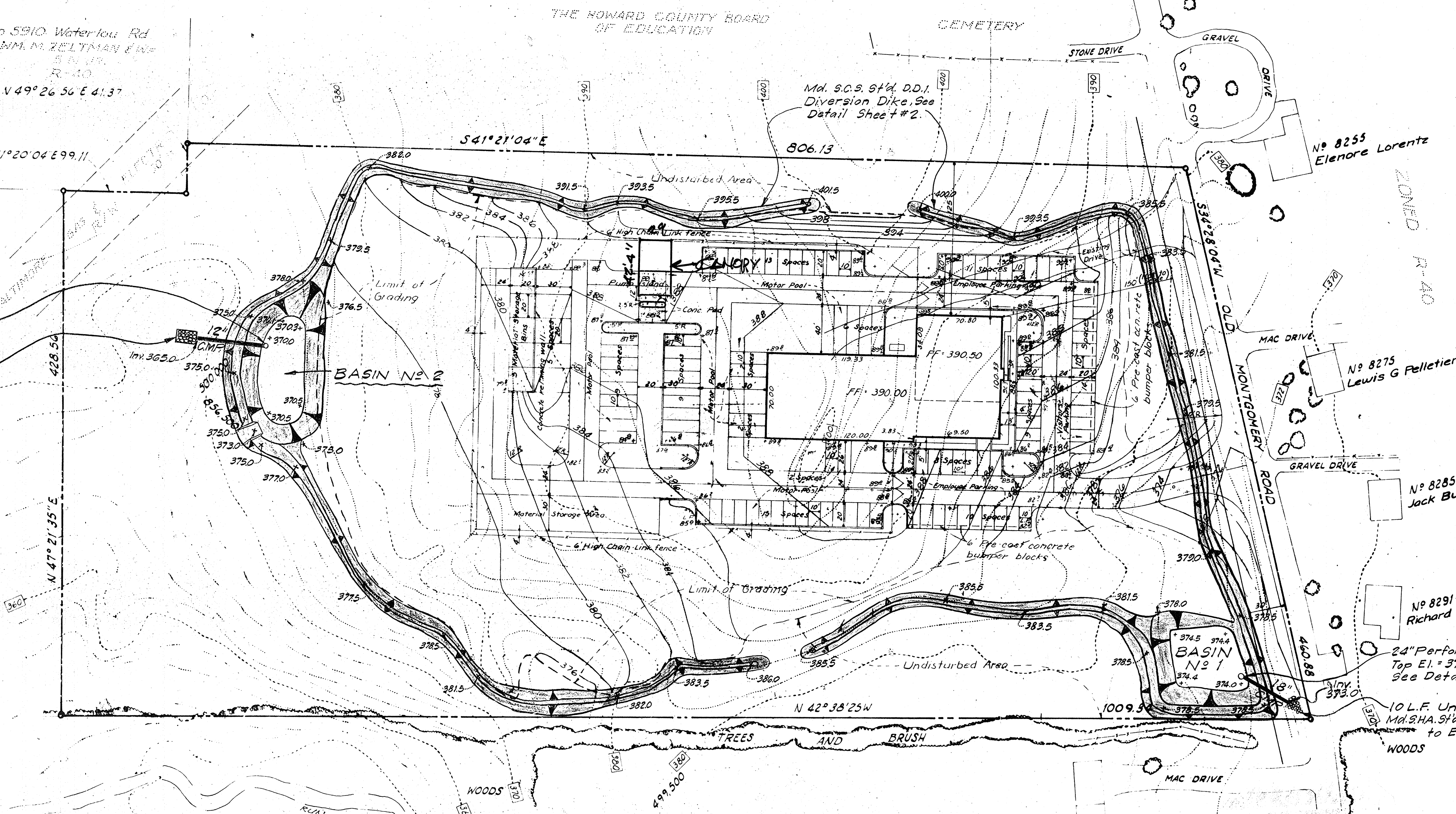
S 41° 20' 04" E 99.11'

18" CMP Perforated Riser w/
 Trash Rack & Anti-Vortex.
 Top El. = 372.0 Inv. = 370.0
 See Detail Sheet # 2.

15 L.F. Ungrouted Rip-Rap
 Md. S.H.A. Std. Class I.

THE HOWARD RESEARCH
 AND DEVELOPMENT
 CORPORATION
 NEW TOWN ZONING

1084.96' TO STONE @ BEGINNING OF
 SIXTH LINE, PARCEL 2, W.H.H.
 403/50



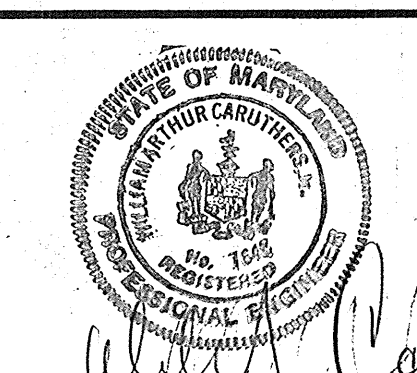
Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
 Signature
 U.S. Soil Conservation Service

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

Approved Howard S.C.D. 6-14-74

REV: 1 7/20/05 ADD CANOPY @ GAS PUMP.

<u>J.H. Lawson</u>	6/17/74
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING	DATE
APPROVED: FOR (PRIVATE) WATER AND (PRIVATE) SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<u>Thomas G. Harris</u>	6/14/74
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	
<u>Thomas G. Harris</u>	6-17-74
PLANNING DIRECTOR	DATE
APPROVED: DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<u>Thomas G. Harris</u>	6/15/74
DIRECTOR	DATE
<u>W. D. Altman</u>	6/12/74
CHIEF, BUREAU OF HIGHWAYS	DATE



No.	REVISION	DATE	BY

GREENHORNE & O'MARA, INC.
 ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.

HOWARD COUNTY, MARYLAND
 GENERAL COUNTY PROJECT GC 0113
 BUREAU OF WATER AND SEWERS MAINTENANCE BUILDING
 6TH ELECTION DISTRICT
SEDIMENT CONTROL PLAN
 DEPARTMENT OF PUBLIC WORKS DRAWING GC0113-C-3

L.S.C. DESIGN	CLIENT: DEPT. OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1450 COURT HOUSE DRIVE ELLCOTT CITY, MARYLAND
R.W. DRAWN	SCALE 1"=50'
CHECKED	SHEET No. C-3 OF 3
DATE	111585 5264-X FILE No.