

ROADS, STORM DRAIN & GRADING CORTINA HIGHLANDS

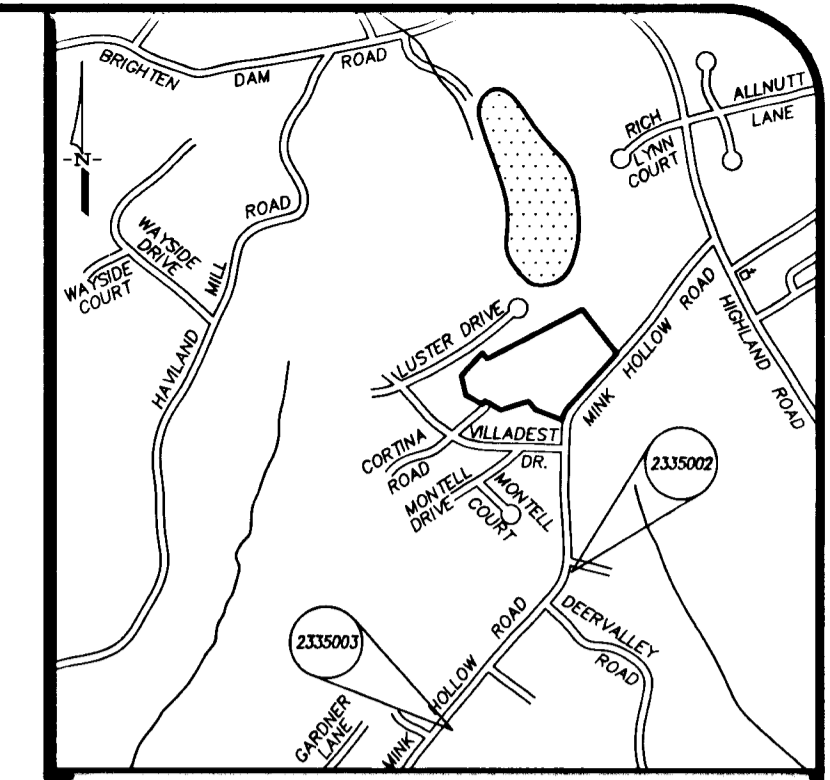
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND

HOWARD COUNTY
BENCHMARK 2335002
ELEV = 499.917

LOCATED ALONG MINK HOLLOW ROAD
0.85 MILES SOUTH OF HIGHLAND ROAD
MONUMENT IS 15.8' OFF CL OF ROAD
0.5' BELOW SURFACE

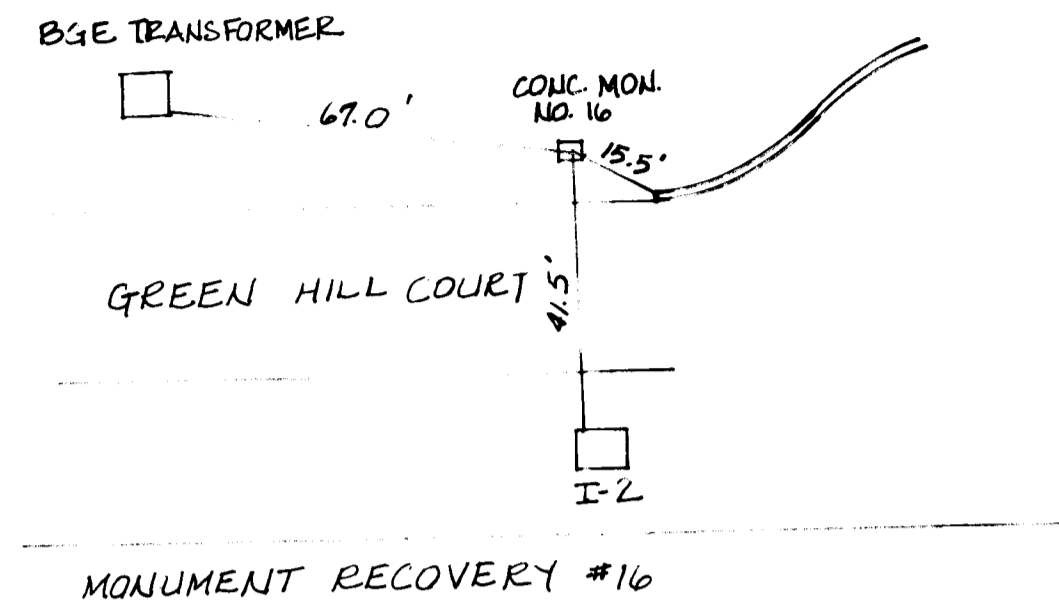
HOWARD COUNTY
BENCHMARK 2335003
ELEV = 503.700

LOCATED ALONG MINK HOLLOW ROAD
1.3 MILES SOUTH OF HIGHLAND ROAD
MONUMENT IS 28' OFF EDGE OF PAVING
0.6' BELOW SURFACE

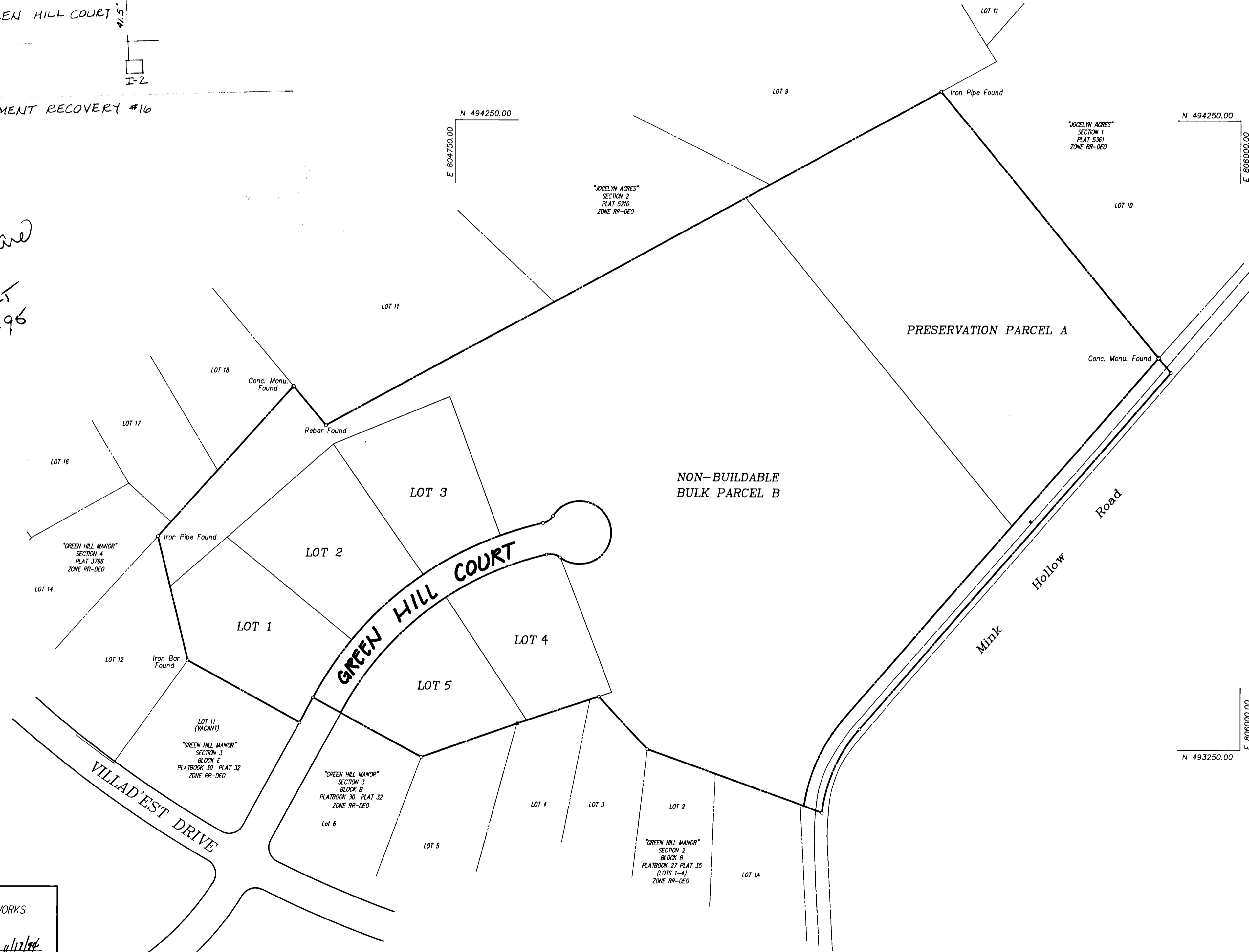


Vicinity Map

Scale: 1" = 2000'



AS-BUILT
10-4-95



LOCATION MAP
SCALE 1" = 100'

- PROJECT BACKGROUND:
TAX MAP 34 PARCEL 59
ZONING: R-R
ELECTION DISTRICT: 5th
TOTAL TRACT AREA: 22.94 AC.±
NUMBER OF PROPOSED LOTS: 5 (Buildable Lots)
1 (Non-Buildable Bulk Parcel)
(Preservation Parcel)
- SUBJECT PROPERTY ZONED R-R PER 9/18/92 COMPREHENSIVE SKETCH PLAN.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO. SP-94-01.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
MISS UTILITY 1-800-257-7777
BELL TELEPHONE SYSTEM 393-3649
LONG DISTANCE CABLE DIVISION 393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC CO. 539-8000
HOWARD COUNTY BUREAU OF UTILITIES 313-4900
HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (24 HOUR NOTICE PRIOR TO COMMENCEMENT OF WORK) 313-1880
COLONIAL PIPELINE 795-1390
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION. ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- TOPO TAKE FROM AERIAL SURVEY DATED APRIL 23, 1993 PREPARED BY WINGS AERIAL MAPPING.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIGURE 11.4 VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING, THE FINAL PAVING SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. ANY PAVEMENT SECTIONS DETERMINED BY THE GEOTECHNICAL ENGINEER THAT IS LESS THAN THE HOWARD COUNTY MINIMUM STANDARD, SHALL FIRST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.
- THERE IS NO FLOODPLAIN LOCATED WITHIN THIS SITE.
- THERE ARE NO WETLANDS LOCATED WITHIN THIS SITE.
- TRANSPORTATION ANALYSIS PREPARED BY LEE CUNNINGHAM & ASSOCIATES, INC., LAND USE AND TRANSPORTATION PLANNING DATED JUNE 1993.
- WATER AND SEWER SERVICE SHALL BE PRIVATE WELL & SEPTIC.
- THIS PROJECT CONFORMS TO THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT.
- ALL DRIVEWAYS SHALL HAVE A 12" CMP DRIVEWAY CULVERT PLACED AS SHOWN IN HOWARD COUNTY STANDARD DETAIL R6.06, UNLESS OTHERWISE INDICATED ON THE GRADING AND SEDIMENT CONTROL PLAN.
- THIS PROJECT HAS BEEN APPROVED FOR PAYMENT OF FEE-IN-LIEU OF STORMWATER MANAGEMENT AND EXEMPTION UNDER THE CLUSTER OPTION PER A LETTER DATED JANUARY 12, 1994 FROM MR. JAMES M. IRWIN. WATER QUALITY IS PROVIDED BY UTILIZING LOW GRADIENT VEGETATED (GRASS) SWALES AND FILTER STRIPS.

SHEET INDEX

- COVER SHEET
- GREEN HILL CT PLAT & PROFILE
- MINK HOLLOW ROAD - ROAD IMPROVEMENTS
- GRADING & SEDIMENT CONTROL PLAN
- GRADING & SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP
- SEDIMENT CONTROL DETAILS & NOTES AND STORM DRAIN PROFILES

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Mark Cannon 4/17/94
CHIEF, LAND DEVELOPMENT DIVISION DATE

Howard Shick Jr 11-19-94
CHIEF, BUREAU OF HIGHWAYS DATE

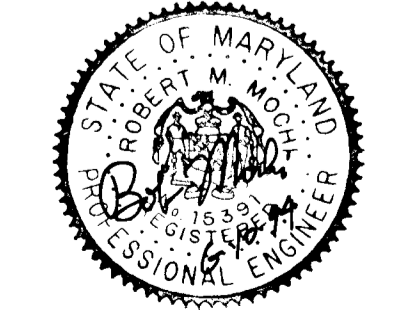
Paul Dejan 11/17/94
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED:
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Aina Jermamy 11/23/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

OWNER/DEVELOPER
ESTATE OF VINCENT L. VINELLA
15517 Prince Frederick Way
Silver Spring, Maryland 20906
(301) 598-2409
ATTN: Mrs. Esther Remson
Personal Representative

ENGINEER
R. M. MOCHI GROUP, P.C.
3300 North Ridge Road, Suite 235
Ellicott City, Maryland 21043
(410) 461-0079
ATTN: Mr. Robert Mochi, P.E.

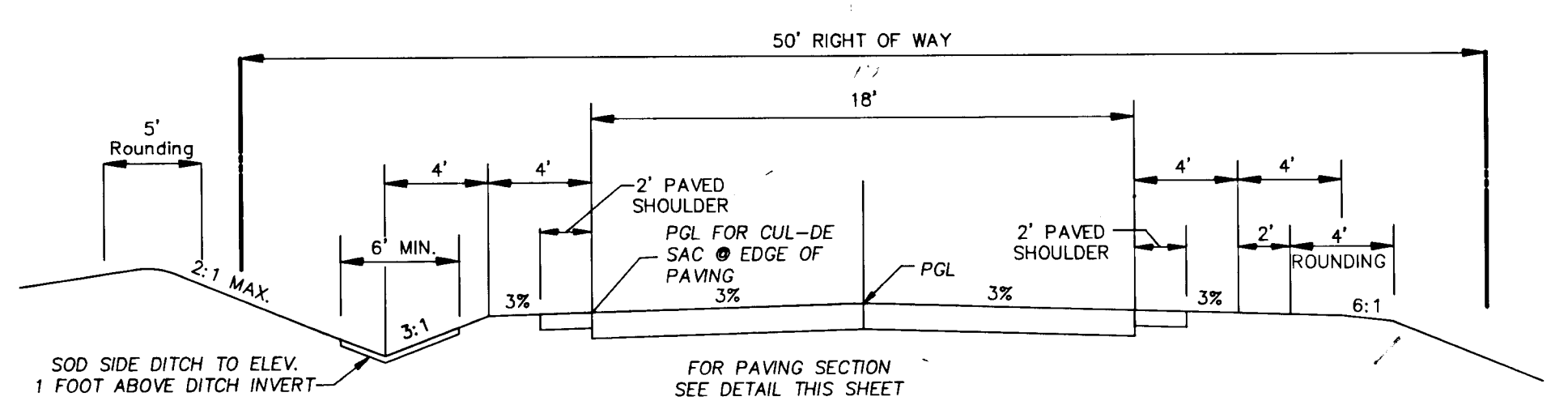
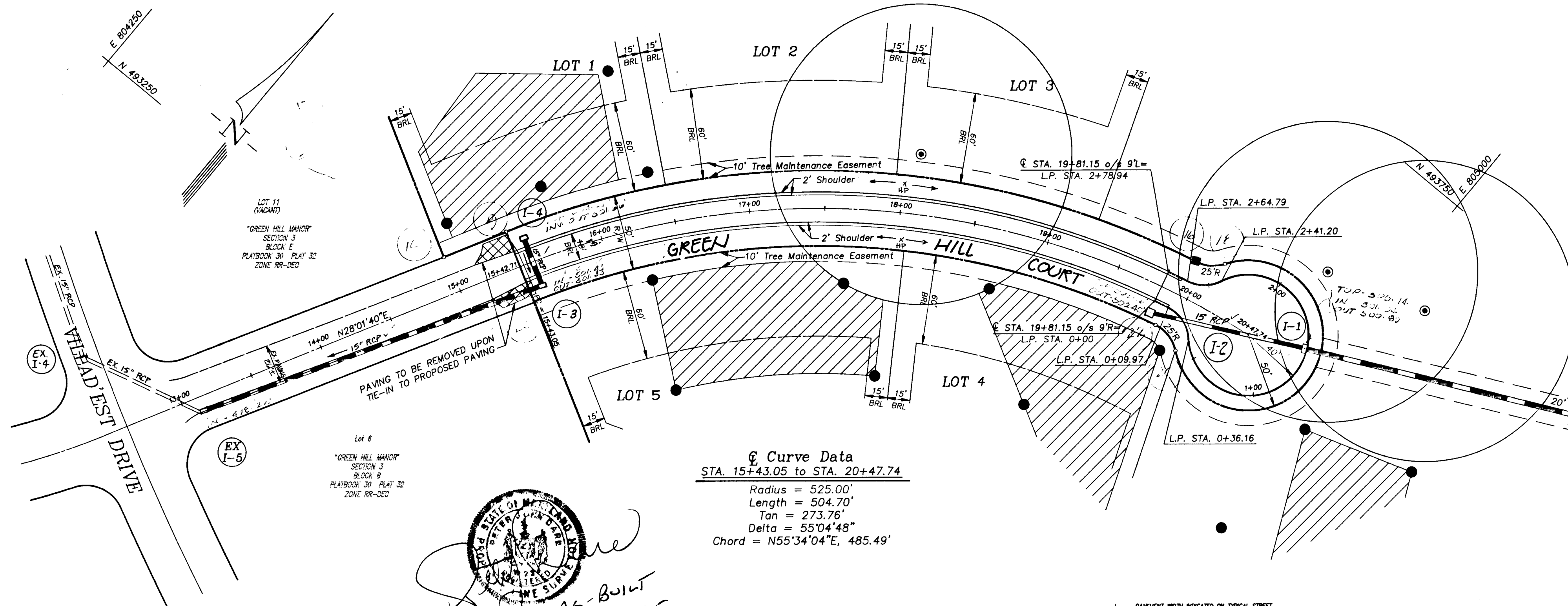


Project	Date	Engineering	LIC./JLM	Approval
92011.13	5/31/94	illustration	LIC./JLM	approval

Project	Date	Engineering	LIC./JLM	Approval
CHANGE CORTINA DRIVE TO GREEN HILL CT	10-12-95	illustration	LIC./JLM	approval
SUBMITTED FOR SHARING	10/24/94			
REVISED PER COUNTY COMMENTS	10/24/94			
1st SUBMITTAL TO HOWARD COUNTY DPZ	5/31/94			

CORTINA HIGHLANDS
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5
COVER SHEET

R.M. MOCHI GROUP, P.C.
3300 N. Ridge Road, Suite 235
Ellicott City, MD 21043-3305
(410) 461-0079
Fax: (410) 750-6440



POINT	ELEV.	DESC.
9	505.73	REBAR & CAP
10	505.74	REBAR & CAP
16	507.86	CONC. MOH.
18	507.61	REBAR & CAP
20	508.32	REBAR & CAP
22	508.90	REBAR & CAP
23	506.00	REBAR & CAP
25	511.83	REBAR & CAP
26	477.15	REBAR & CAP
27	475.13	EX. CONC. MOH.

PRESERVATION PARCEL A

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

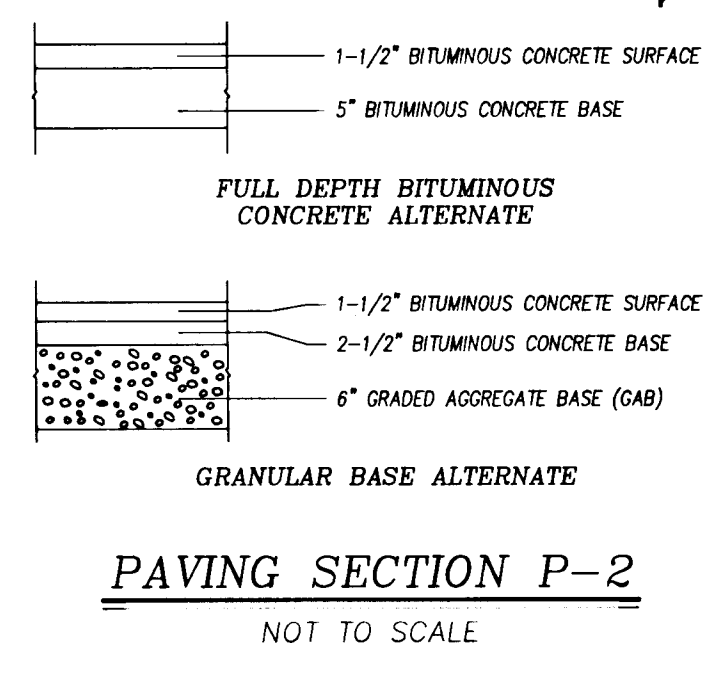
Chad Danner 11/17/94
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Howard Schick 11-18-94
 CHIEF, BUREAU OF HIGHWAYS DATE

Paul Depon 11/12/94
 CHIEF, BUREAU OF ENGINEERING DATE

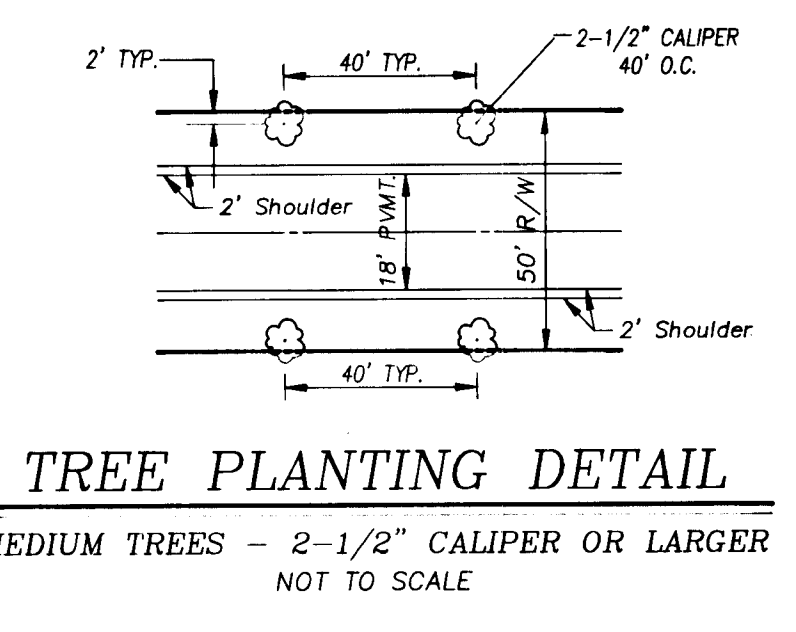
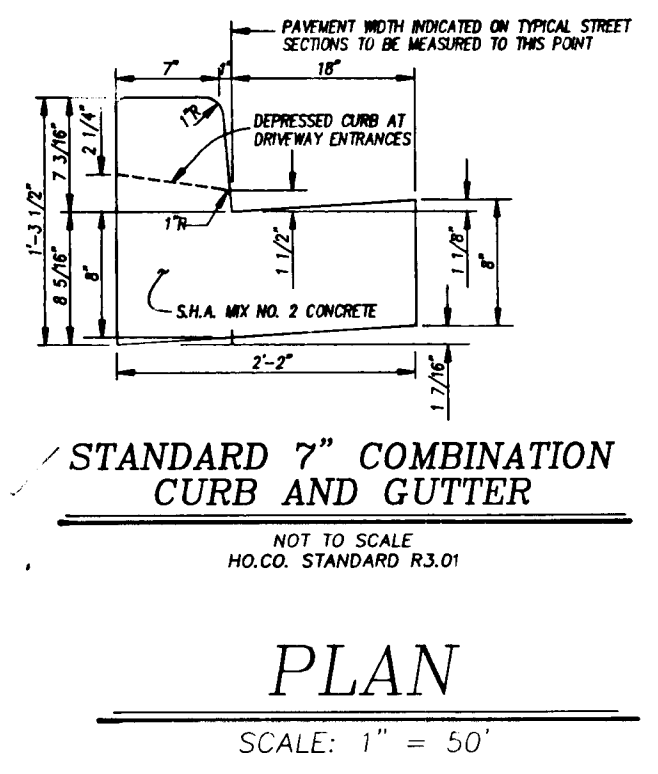
APPROVED: DEPT. OF PLANNING AND ZONING

Quia Jourdain 11/21/94
 DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE



OWNER/DEVELOPER
 ESTATE OF VINCENT L. VINELLA
 15517 Prince Frederick Way
 Silver Spring, Maryland 20906
 (301) 598-2409
 ATTN: Mrs. Esther Remson
 Personal Representative

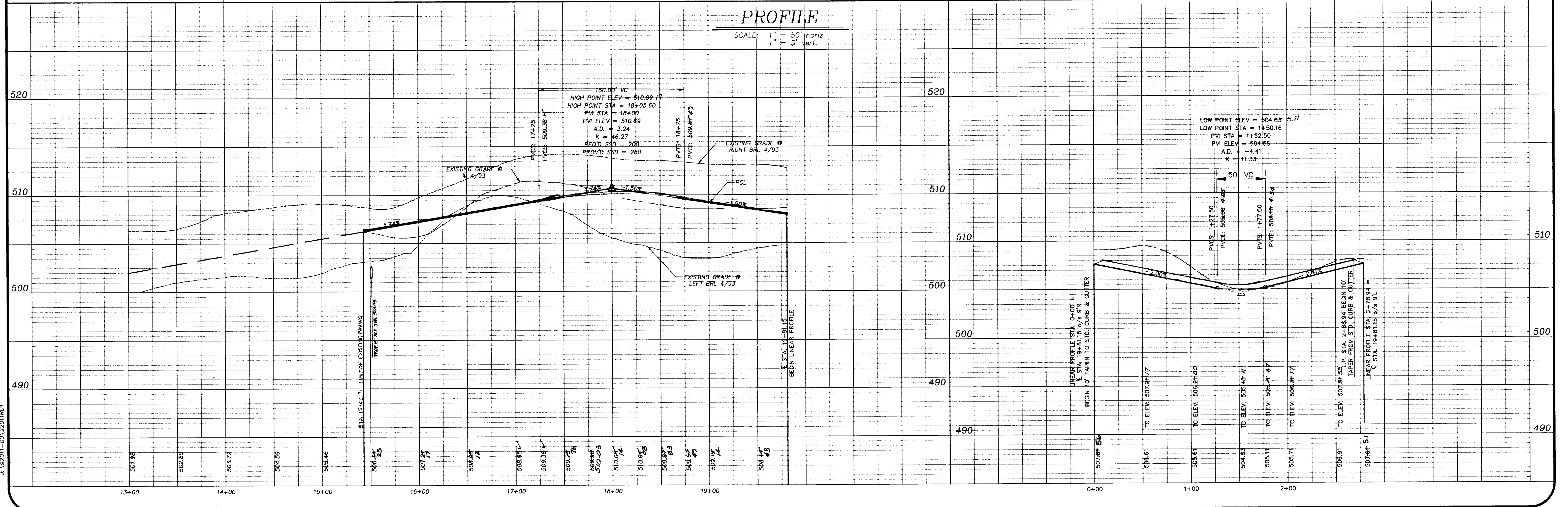
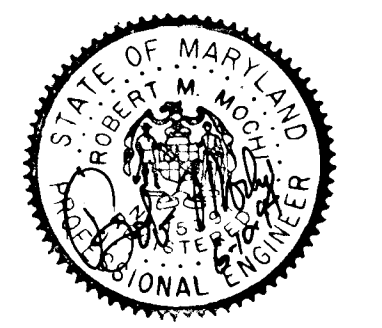
ENGINEER
 R. M. MOCHI GROUP, P.C.
 3300 North Ridge Road, Suite 235
 Ellicott City, Maryland 21043
 (410) 461-0079
 ATTN: Mr. Robert Mochi, P.E.



STRUCTURE SCHEDULE

No.	TYPE	LOCATION	ELEVATION	REMARKS
I-1	A-10 INLET	L.P. STA. 1+50.16 o/s 0'	TC ELEV = 505.43	STD. SD-4.02
I-2	K INLET	STA. 19+81.15 o/s 17R	NOTCH ELEV = 506.25	STD. SD-4.12
I-3	K INLET	STA. 15+52.00 o/s 17R	NOTCH ELEV = 504.62	STD. SD-4.12
I-4	K INLET	STA. 15+52.00 o/s 17L	NOTCH ELEV = 504.62	STD. SD-4.12
ES-1	CONC. END SECTION FOR CIRCULAR PIPE	N 493788.50 E 805345.00	INV. = 479.38 27	STD. SD-5.51

ALL STANDARDS REFER TO HOWARD COUNTY STANDARD DETAILS UNLESS OTHERWISE NOTED.



S&P

Project	9201112	date	5/31/94
Illustration	LJC	engineering	LJC
scale	1" = 50'	approval	RM

10-12-95
 10/24/94
 5/31/94

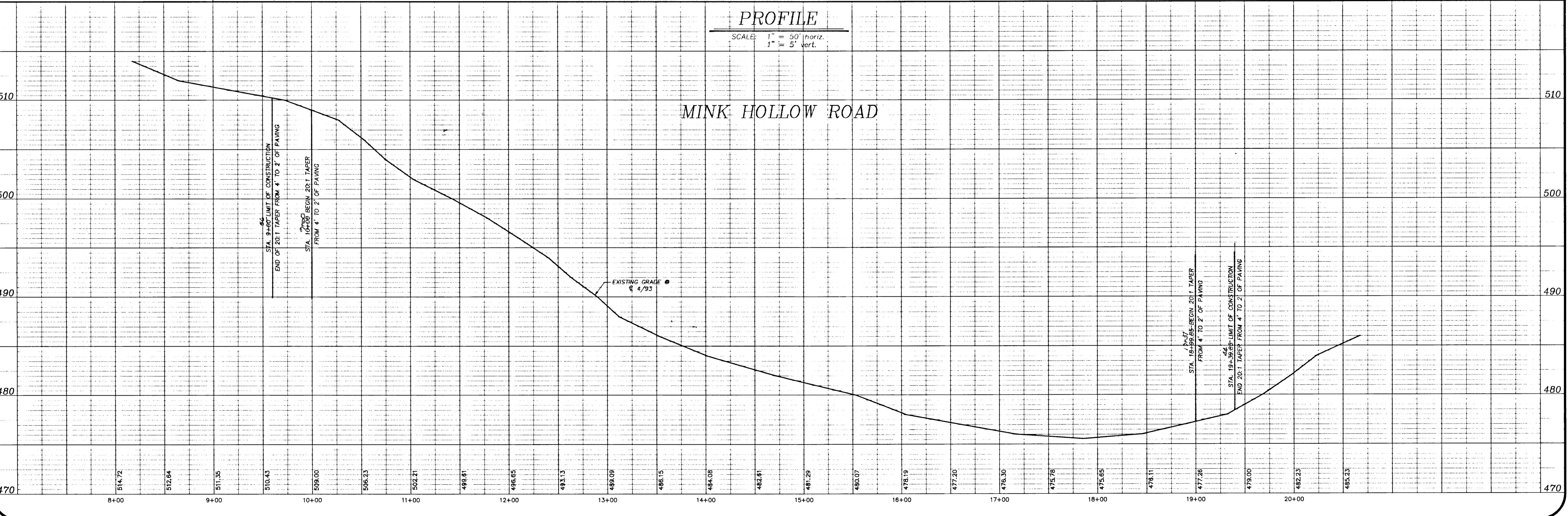
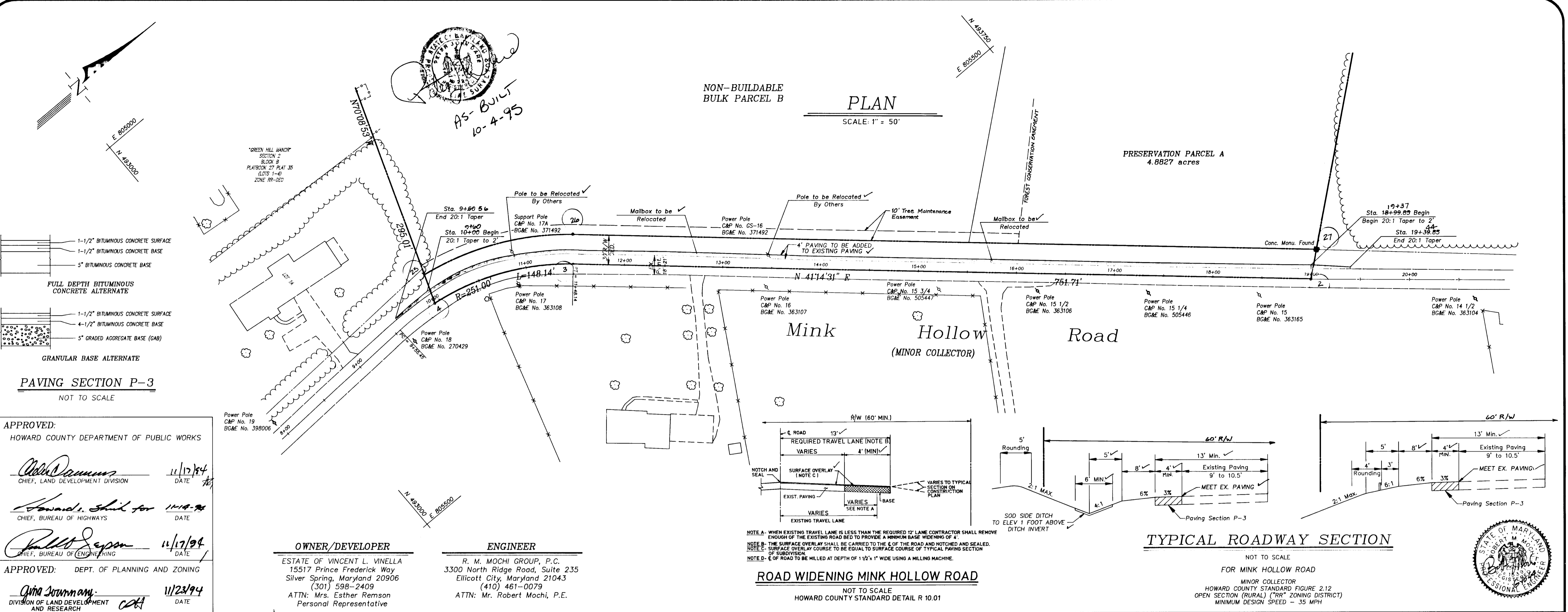
CHANGE CORTINA DRIVE TO GREEN HILL CT.
 SUBMITTED FOR SIGNATURES DATED 10/24/94
 1ST SUBMITTAL TO HOWARD COUNTY DPZ

CORTINA HIGHLANDS
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5
 GREEN HILL COURT PLAN & PROFILE (15+42.71 TO 20+47.74)

R.M. MOCHI GROUP, P.C.
 3300 N. Ridge Road, Suite 235
 Ellicott City, MD 21043-3305
 (410) 461-0079
 Fax: (410) 750-6340

1715

A 192011-00 192011R02



Project	date	5/31/94
Illustration	engineering	LIG
LIG	LIG	LIG
scale	approval	1" = 50'
RM	RM	RM

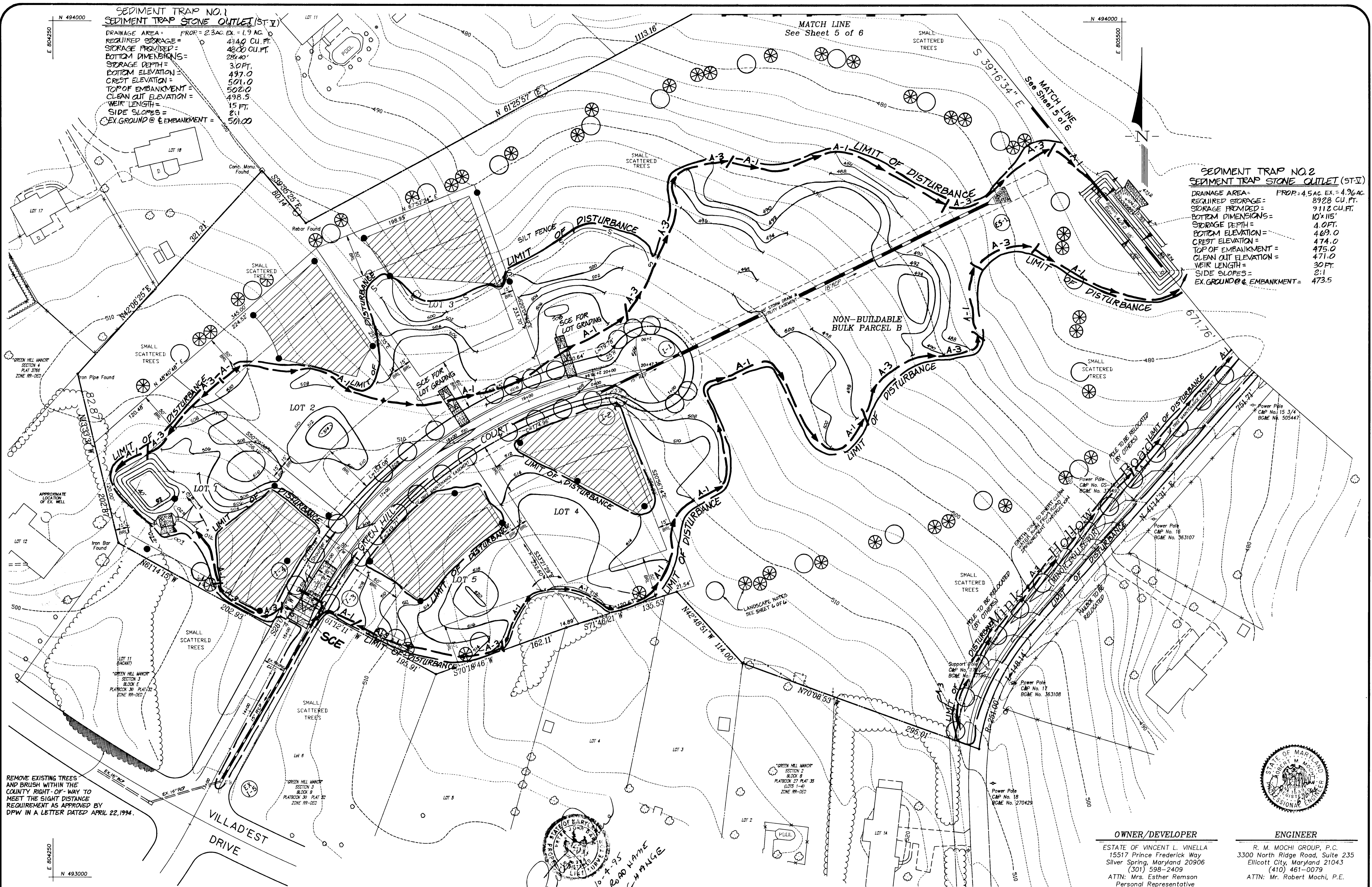
10/29/94	date	
10/29/94	description	SUBMITTED FOR SIGNATURES
9/21/94	revisions	REVISED PER COUNTY COMMENTS PAVED WITH 4" 1 1/2" SUBMITTAL TO HOWARD COUNTY DPZ
11/23/94	revisions	11/23/94

CORTINA HIGHLANDS
ELECTION DISTRICT No. 5
MINK HOLLOW ROAD - ROAD IMPROVEMENTS (9+60 TO 19+37.05)
HOWARD COUNTY, MARYLAND

R.M. MOCHI GROUP, P.C.
3300 N. Ridge Road, Suite 235
Ellicott City, MD 21043-3305
(410) 461-0079
Fax: (410) 790-8340

SEDIMENT TRAP NO. 1
SEDIMENT TRAP STONE OUTLET (ST-1)
 DRAINAGE AREA = PROP = 2.3 AC EX. = 1.9 AC
 REQUIRED STORAGE = 4140 CU. FT.
 STORAGE PROVIDED = 4800 CU. FT.
 BOTTOM DIMENSIONS = 28x40'
 STORAGE DEPTH = 3.0 FT.
 BOTTOM ELEVATION = 497.0
 CREST ELEVATION = 501.0
 TOP OF EMBANKMENT = 502.0
 CLEAN CUT ELEVATION = 498.5
 WEIR LENGTH = 15 FT.
 SIDE SLOPES = 2:1
 EX. GROUND @ EMBANKMENT = 501.00

SEDIMENT TRAP NO. 2
SEDIMENT TRAP STONE OUTLET (ST-2)
 DRAINAGE AREA = PROP = 4.5 AC EX. = 4.9 AC
 REQUIRED STORAGE = 8928 CU. FT.
 STORAGE PROVIDED = 9118 CU. FT.
 BOTTOM DIMENSIONS = 10x115'
 STORAGE DEPTH = 4.0 FT.
 BOTTOM ELEVATION = 469.0
 CREST ELEVATION = 474.0
 TOP OF EMBANKMENT = 475.0
 CLEAN CUT ELEVATION = 471.0
 WEIR LENGTH = 30 FT.
 SIDE SLOPES = 2:1
 EX. GROUND @ EMBANKMENT = 473.5



REMOVE EXISTING TREES AND BRUSH WITHIN THE COUNTY RIGHT-OF-WAY TO MEET THE SIGHT DISTANCE REQUIREMENT AS APPROVED BY DPW IN A LETTER DATED APRIL 22, 1994.

10-4-95
 ROAD NAME CHANGE



OWNER/DEVELOPER
 ESTATE OF VINCENT L. VINELLA
 15517 Prince Frederick Way
 Silver Spring, Maryland 20906
 (301) 598-2409
 ATTN: Mrs. Esther Remson
 Personal Representative

ENGINEER
 R. M. MOCHI GROUP, P.C.
 3300 North Ridge Road, Suite 235
 Ellicott City, Maryland 21043
 (410) 461-0079
 ATTN: Mr. Robert Mochi, P.E.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William J. Remson 11/17/94
 CHIEF, LAND DEVELOPMENT DIVISION
Thomas J. Shick 11-19-94
 CHIEF, BUREAU OF HIGHWAYS
Charles J. Remson 11/17/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Aime Strummary 11/23/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John R. Roberts 11/7/94
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Patricia Cooper 11/7/94
 U. S. SOIL CONSERVATION SERVICE

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
Esther Remson PR June 1-1994
 Signature of Developer Date

ENGINEER'S CERTIFICATE
 I hereby 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.
Robert M. Mochi 6-10-94
 Robert M. Mochi, P.E. Date

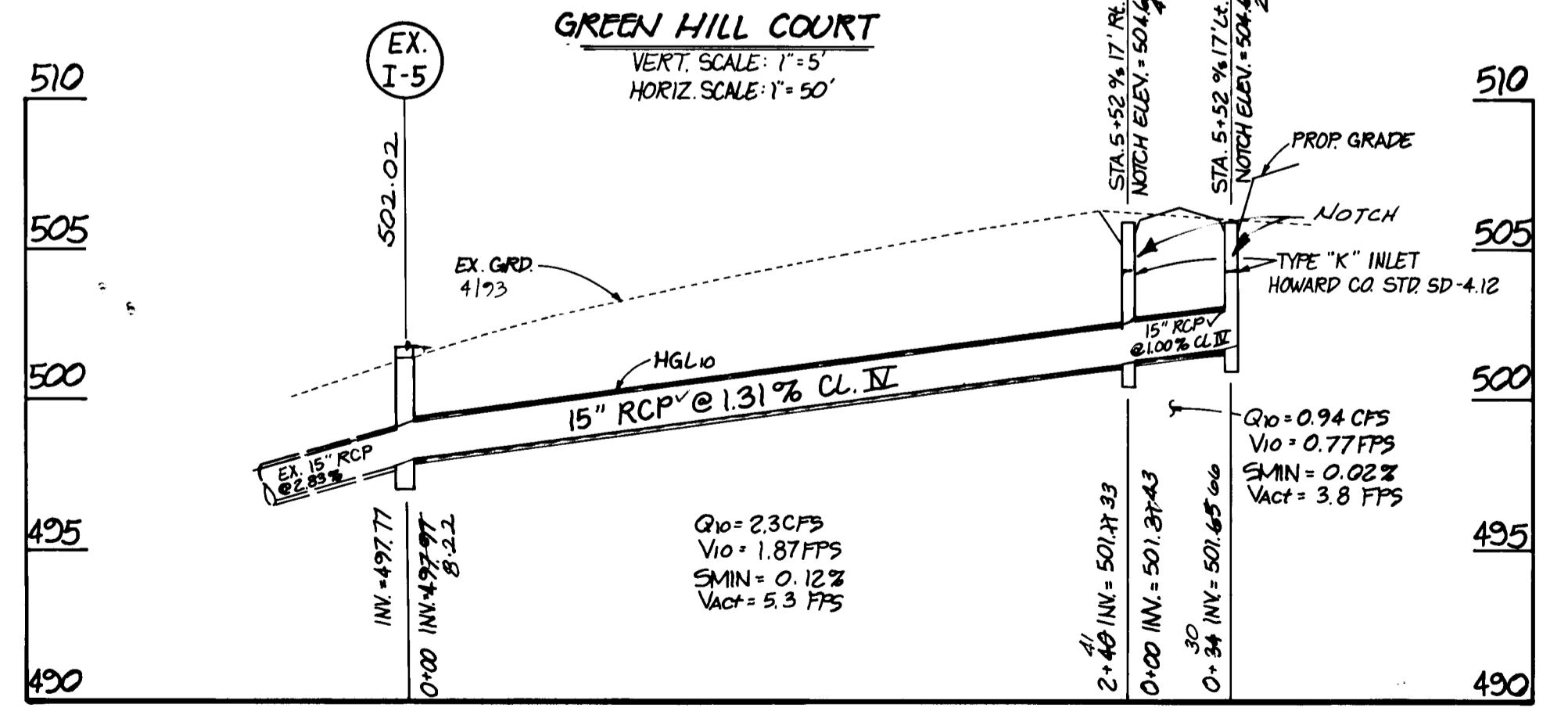
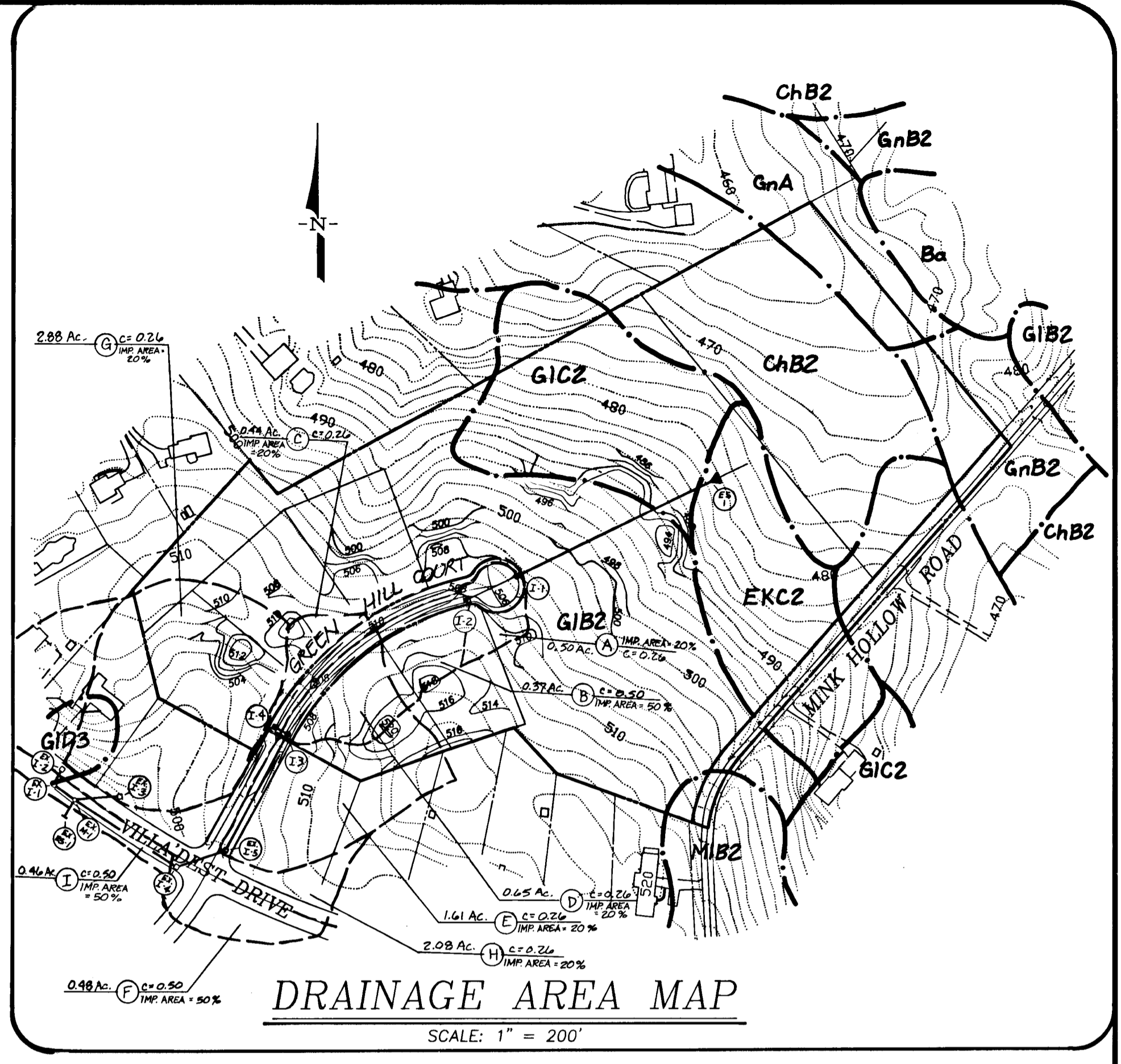
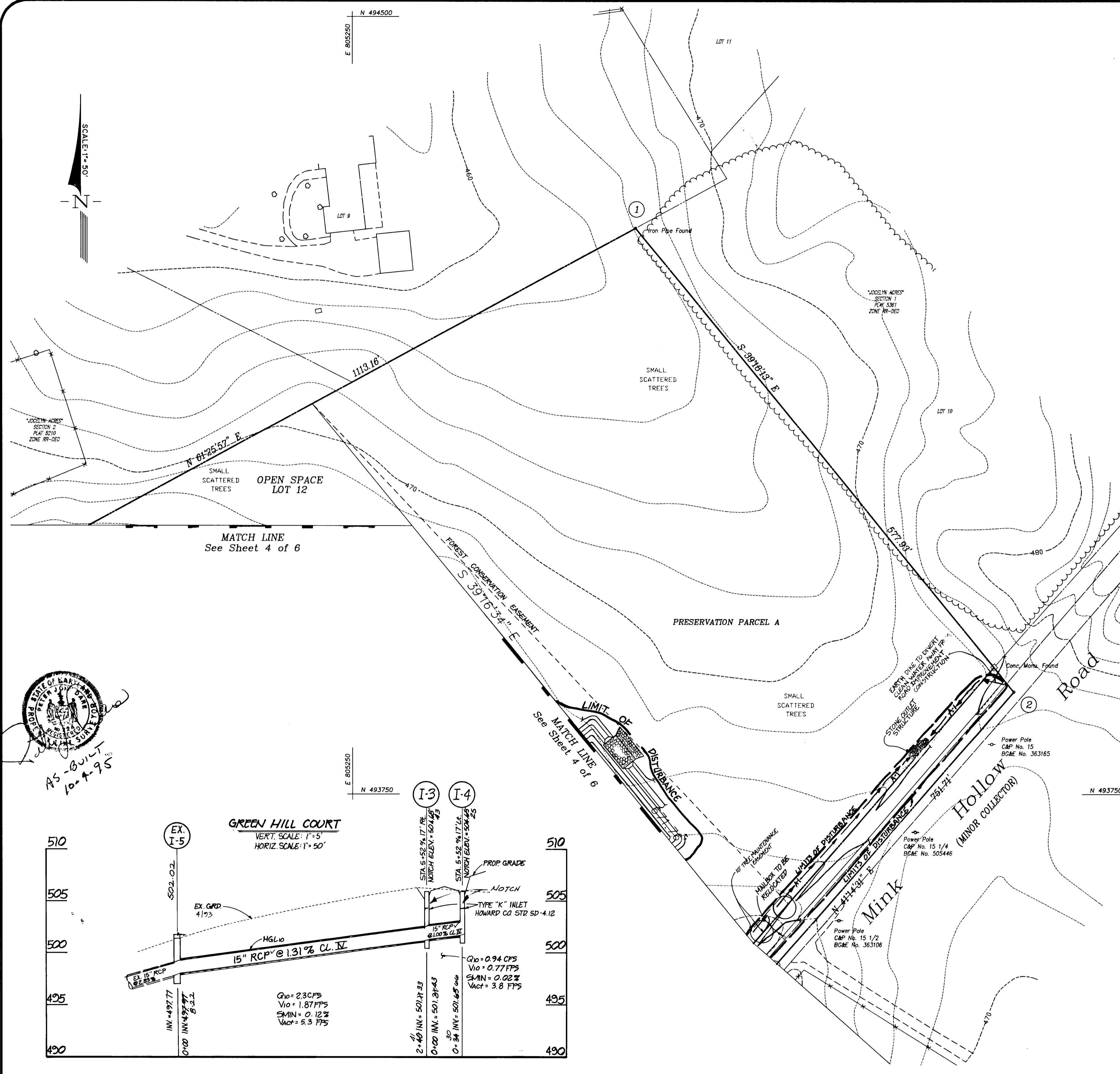
5171

Project	date	description	revision
9201113	5/31/94	engineering	
1019	05/09/94	illustration	
1	05/24/94	LIG/JLM	
2	05/24/94	LIG	
3	5/27/94	approval	
4		scale	1" = 50'
5		RM	

Project	date	description	revision
1019	05/09/94	changes, CAPITAL DRIVE TO GREEN HILL CT.	
2	05/24/94	REVISED PER COUNTY COMMENTS DATED 05/19/94	
3	05/27/94	1st SUBMITTAL TO HOWARD COUNTY DPZ	
4		description	
5		revision	

CORTINA HIGHLANDS
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5
GRADING & SEDIMENT CONTROL PLAN

R.M. MOCHI GROUP, P.C.
 3300 N. Ridge Road, Suite 235
 Ellicott City, MD 21043-1305
 (410) 461-0079
 Fax: (410) 750-6540



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature]
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE: 11/17/94

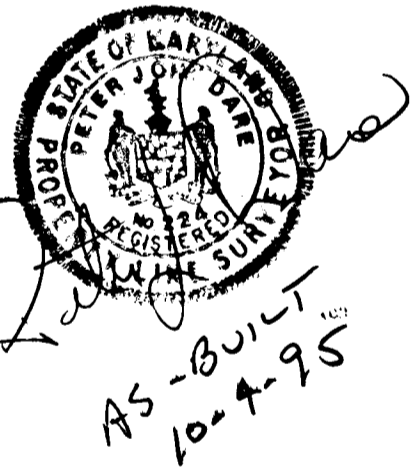
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature]
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 11/17/94

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
[Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DATE: 11/23/94

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature]
 CHIEF, SOIL CONSERVATION SERVICE
 DATE: 11/17/94

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
 Estate of Vincent L. Vinella
 Signature of Developer: *[Signature]* PR
 Date: June 1-1994

ENGINEER'S CERTIFICATE
 I hereby 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.
 R. M. MOCHI GROUP, P.C.
 ENGINEER: *[Signature]*
 Robert M. Mochi, P.E.
 Date: 6-10-94



OWNER/DEVELOPER
 ESTATE OF VINCENT L. VINELLA
 15517 Prince Frederick Way
 Silver Spring, Maryland 20906
 (301) 598-2409
 ATTN: Mrs. Esther Remson
 Personal Representative

date	5/31/94	engineering	
project	92011.13	illustration	
scale	1" = 50'	approval	

no.	1	description	REVISED PER COUNTY COMMENTS PATED 10/18/94
no.	2	description	REVISED PER COUNTY COMMENTS PATED 10/18/94
no.	3	description	REVISED PER COUNTY COMMENTS PATED 10/18/94
no.	4	description	REVISED PER COUNTY COMMENTS PATED 10/18/94
no.	5	description	REVISED PER COUNTY COMMENTS PATED 10/18/94

CORTINA HIGHLANDS
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND
 GRADING & SEDIMENT CONTROL PLAN

R. M. MOCHI GROUP, P.C.
 3300 N. Ridge Road, Suite 235
 Ellicott City, MD 21043-3305
 (410) 461-0079
 (410) 461-0079
 Fax: (410) 756-6340

PERMANENT SEEDING NOTES

Apply to graded or cleared area 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, discing or other acceptable means before seeding. (If not previously loosened)

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

1. Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureiform fertilizer (9 lbs/1000 sf).
2. Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through 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/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

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

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, discing or other acceptable means before seeding. (If not previously loosened)

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

Seeding: For periods March 1 through April 30 and August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through 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 sf) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction. (313-1855)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
3. Following initial soil disturbances or redisturbance, permanent or temporary stabilization shall be completed within: a) 72 hours for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 5 calendar days as to all other disturbed or graded areas on the project site.
4. 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 Seeding (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.
5. 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.
6. **Site Analysis:**
Total Area of Site: 22.94 Ac.
Area to be Disturbed: 8.8 Ac.±
Area to be roofed or paved: 0.9 Ac.±
Area to be vegetatively stabilized: 7.9 Ac.±
Total Cut: 5281 c.y.±
Total Fill: 5124 c.y.±
Offsite Waste/Borrow Area: None
7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
8. Additional sediment controls must be provided, if deemed necessary by the Howard County DLP Sediment Control Inspector.
9. Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his/her own quantity estimates to his/her satisfaction.

LANDSCAPE NOTES

1. Proposed locations of Street Trees and Perimeter Landscaped Edges are shown on sheets 4 and 5.
2. Tree Tabulation

- A. Street Trees**
Cortina Drive
1179 L.F. of Right-of-Way
28 Street Trees required 40 feet apart
28 Acer Rubrum 'Bowhall' / Bowhall Red Maple proposed
Mink Hollow Road
600 L.F. of Right-of-Way
16 Street Trees required 40 feet apart
16 Acer Rubrum 'Bowhall' / Bowhall Red Maple proposed

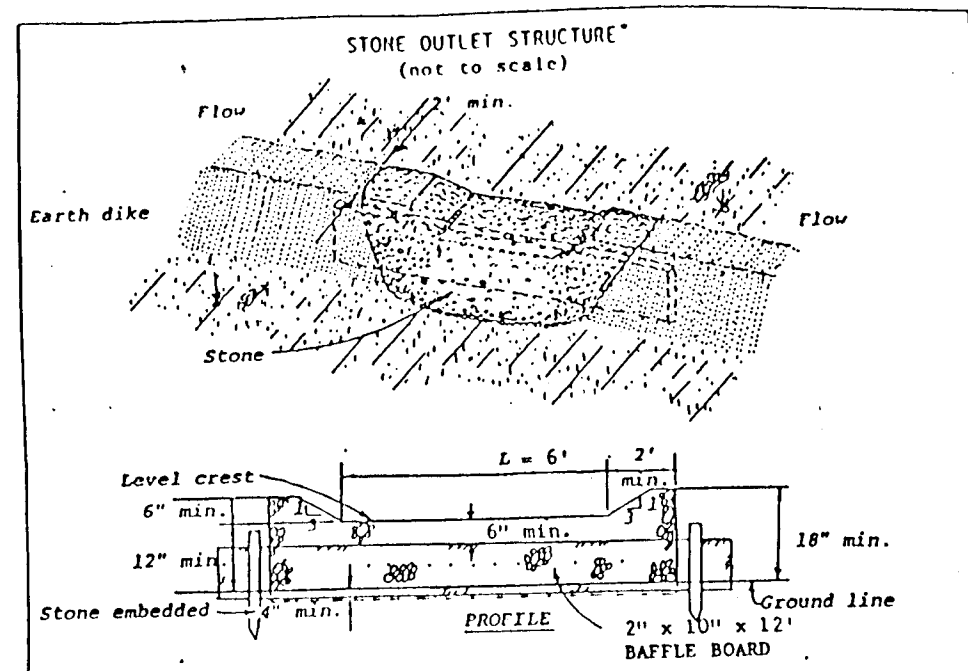
- B. Perimeter Landscaped Edges**
2411 L.F. SDF to perimeter properties (Type A) (2081 L.F. MINUS EXISTING TREES)
1 shade tree/60 L.F. = 44 shade trees required
28 Shade Trees proposed
11 Acer Rubrum 'October Glory' / October Glory Red Maple
11 Acer Rubrum 'Red Sunset' / Red Sunset Red Maple
44 Evergreens proposed (2:1 substitution for shade trees)
44 Pinus Strobus / Eastern White Pine

- C. Tree Legend**
Acer Rubrum 'October Glory' / October Glory Red Maple
Acer Rubrum 'Red Sunset' / Red Sunset Red Maple
Acer Rubrum 'Bowhall' / Bowhall Red Maple
Pinus Strobus / Eastern White Pine

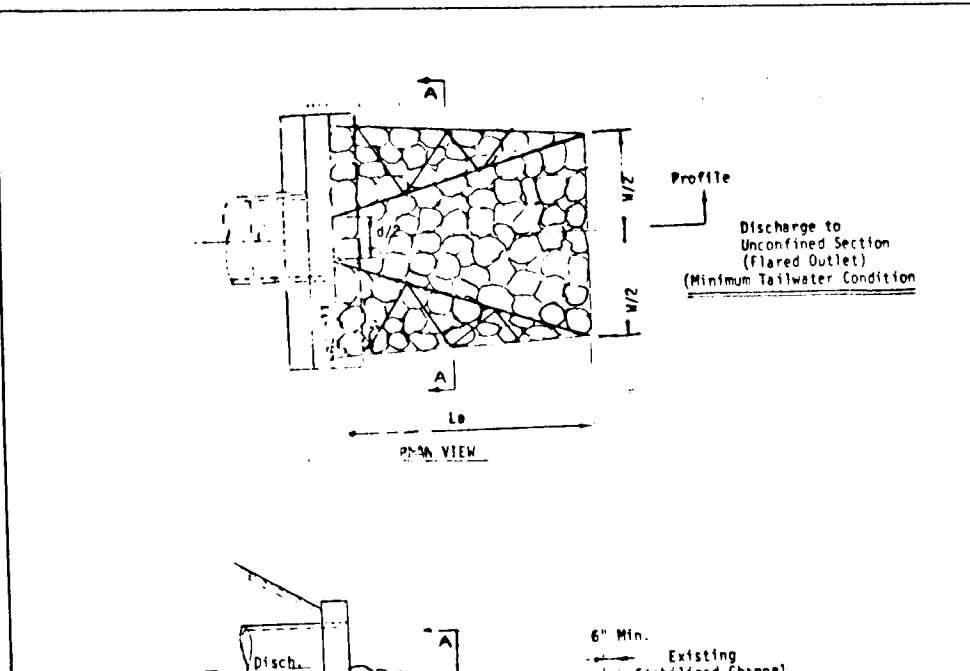
This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual. Financial Surety for the required 44 landscape trees, in the amount of \$4400, is part of the Developer's Agreement.

SEQUENCE OF CONSTRUCTION

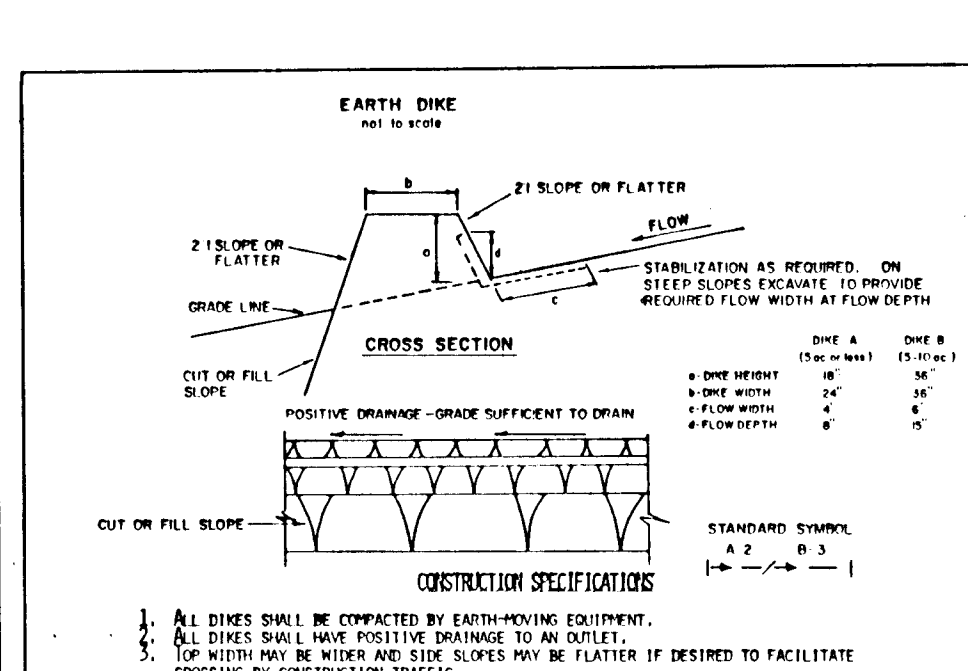
1. Obtain grading permit.
2. Construct Stabilized Construction Entrance.
3. Construct Sediment Traps, Diversion Dikes and Silt Fences as indicated on plan.
4. Construct remaining site per approved plan.
5. All sediment control devices are to be inspected daily and after each rainfall.
6. Repair sediment devices as required.
7. When all contributing area to a sediment control device has been stabilized and with the permission of the Sediment Control Inspector, the device may be removed and/or backfilled and the area brought to design grades and stabilized (As required)
8. Notify Howard County Office of Inspections and Permits for final inspection of completed project.



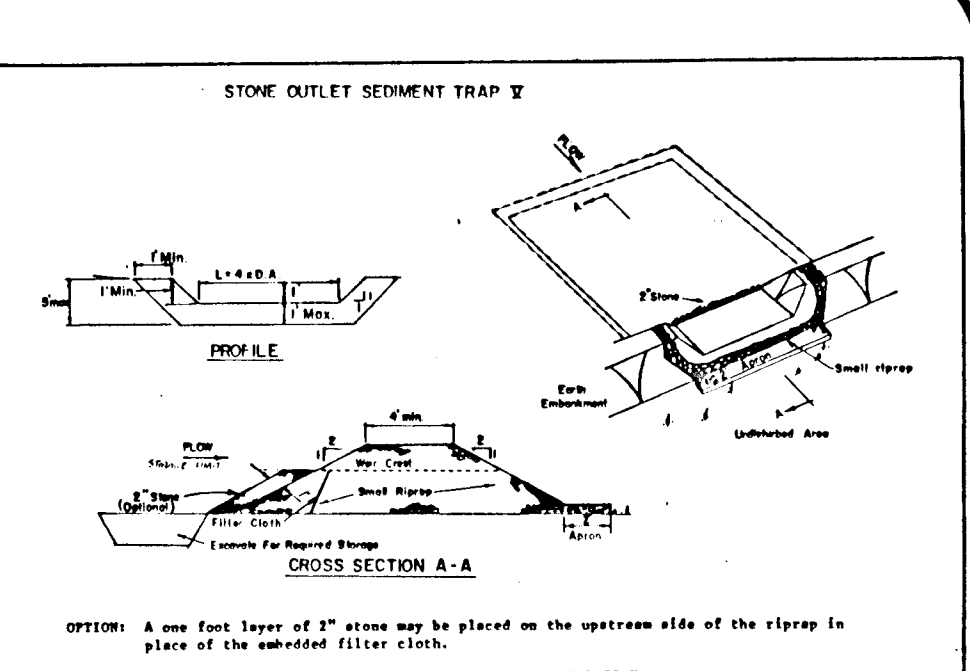
- Construction Specifications**
1. The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M30 Size No. 2 or 34.
 2. The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
 3. The stone outlet structure shall be embedded into the soil a minimum of four inches.
 4. The minimum length, in feet, of the crest of the stone outlet structure shall be six.
 5. The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.
 6. The baffle board shall be extended one foot into the dike, staked and embedded 4 inches into existing ground.



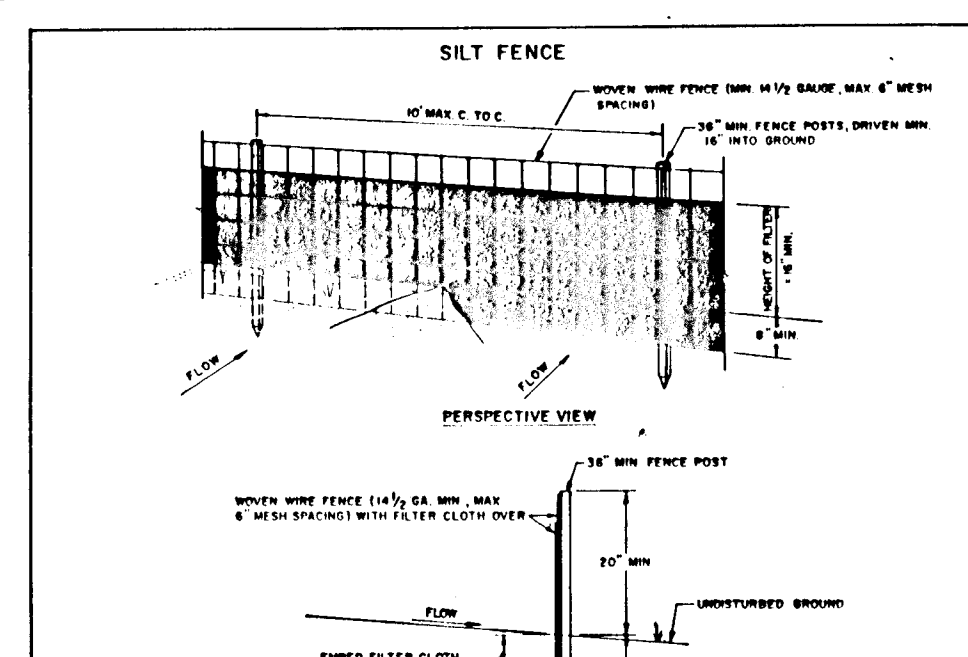
- CONSTRUCTION SPECIFICATIONS**
1. ALL DIKES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT.
 2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE PASSAGE BY CONSTRUCTION TRUCKS.
 4. EARTH DIKES SHALL HAVE AN OUTLET WITH FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONTROLLED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHICH EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT BEING STABILIZED.
 5. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.



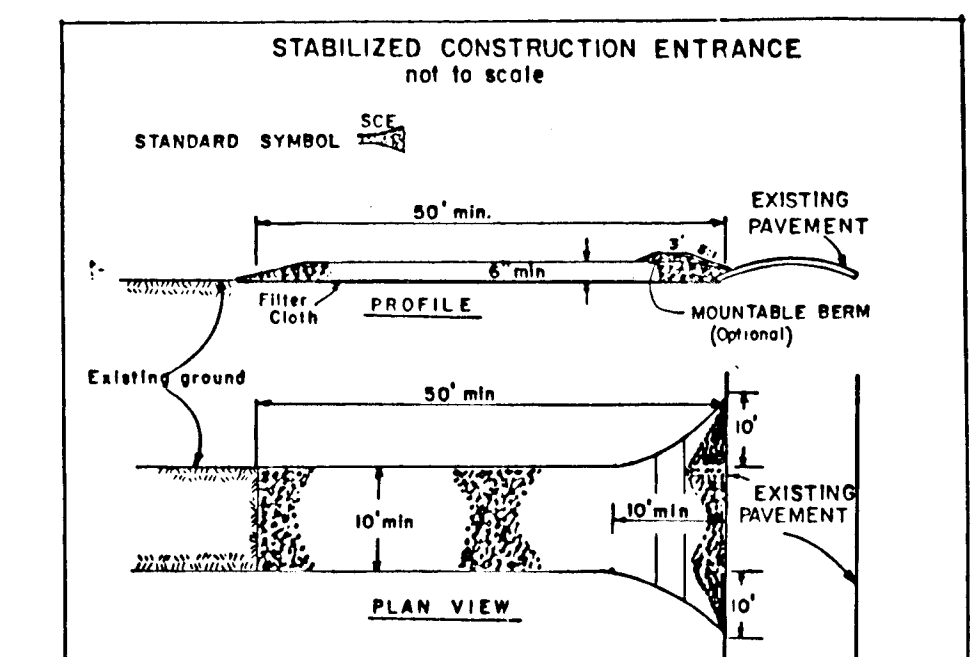
- CONSTRUCTION SPECIFICATIONS FOR ST-1**
1. Area under sediment trap shall be cleared, grubbed and stripped of any vegetation and rock mat. The soil area shall be cleared.
 2. The fill material for the sediment trap shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The sediment trap shall be constructed by excavating with equipment while it is being constructed.
 3. All cut and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small riprap 4" to 8" along with a 1" thickness of 2" aggregate placed on the upstream side on the small riprap 2" embedded filter cloth in the filter.
 5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth.
 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operation shall be carried out in such a manner that erosion and water pollution is minimized.
 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



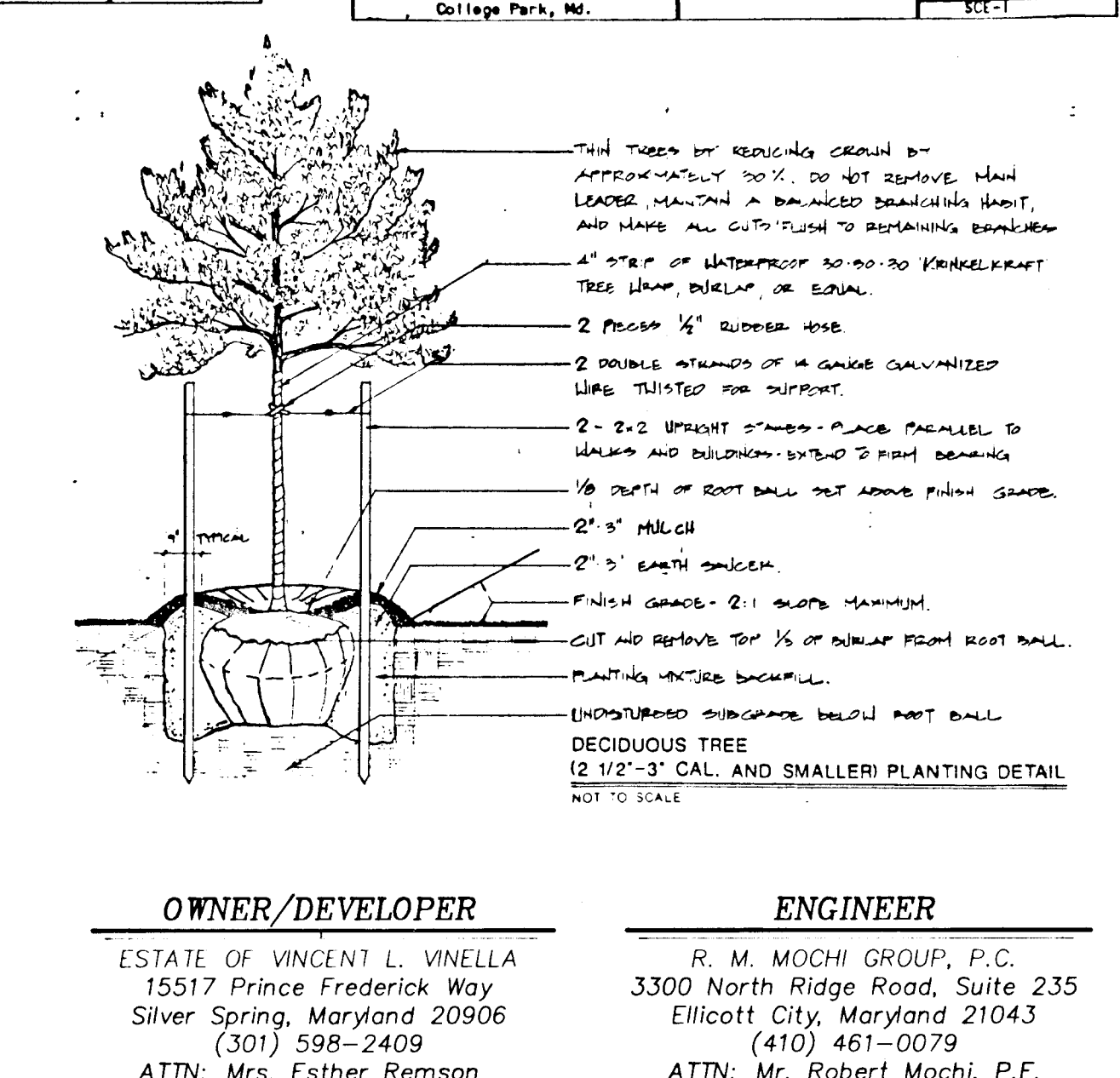
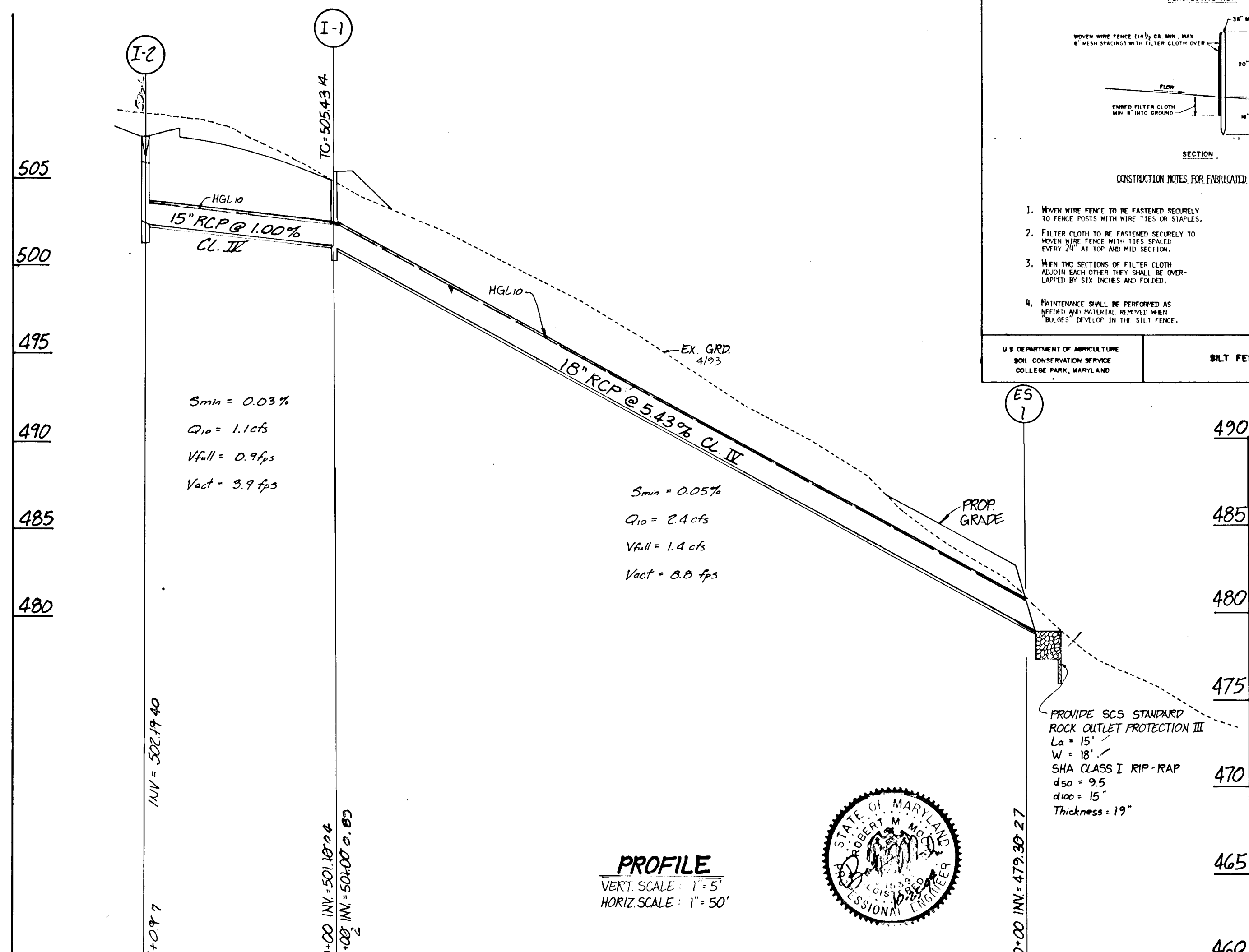
- CONSTRUCTION SPECIFICATIONS**
1. Stone Rip - Use 2" stone, or recycled or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residential lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten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



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND TUCKED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPAIRED WHEN NEEDED OR REPLACED IN THE SILT FENCE.



- CONSTRUCTION SPECIFICATIONS**
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 2. Length - As required, but not less than 50 feet (except on a single residential lot where a 30 foot minimum length would apply).
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 8. Periodic inspection and needed maintenance shall be provided after each rain.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 11/17/94
[Signature] 11-18-94
[Signature] 11/17/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 11/23/94

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
[Signature] 4/7/94

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 11/7/94

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
[Signature] June 1-1994

ENGINEER'S CERTIFICATE
I hereby 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] 6-10-94

CORTINA HIGHLANDS
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5
SEDIMENT CONTROL DETAILS & NOTES AND STORM DRAIN PROFILES

Project No: 9201113
Date: 5/31/94
Illustration: LIG/JLM
Scale: 1" = 50'

10/28/94
10/29/94
10/30/94
11/27/94

2 SUBMITTED FOR SIGNATURES
1 REVISED PER COUNTY COMMENTS
1ST SUBMITTAL TO HOWARD COUNTY DPZ

DATE DESCRIPTION REVIEWER

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Ellicott City, MD 21043-3305
(410) 461-0079
Fax: (410) 750-6340