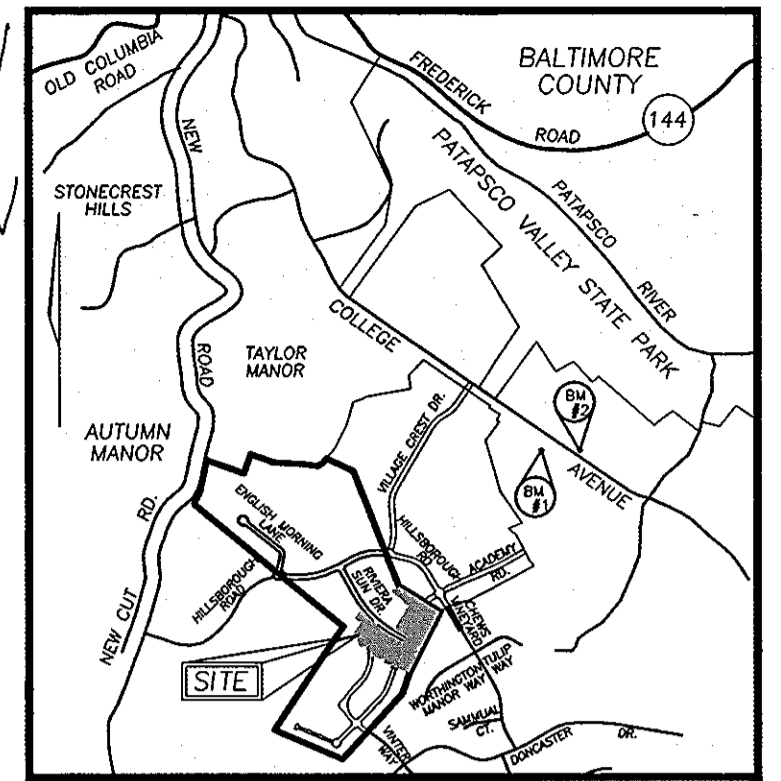


# FINAL ROAD CONSTRUCTION PLAN WORTHINGTON FIELDS

## PHASE 5, LOTS 60-89 AND NON-BUILDABLE PARCEL B-4 A RESUBDIVISION OF NON-BUILDABLE PARCEL B-3, PHASE 4 HOWARD COUNTY, MARYLAND

**BENCHMARKS**  
**BENCHMARK NO. 1:** COUNTY CONTROL #3044005R  
 3/4" REBAR 0.8" BELOW SURFACE  
 N. 578233.92, E. 1373142.33  
 ELEV. = 374.389  
 ELEV. = 362.575  
**BENCHMARK NO. 2:** COUNTY CONTROL #3044004R  
 3/4" REBAR 0.6" BELOW SURFACE  
 N. 578128.03, E. 1373460.71



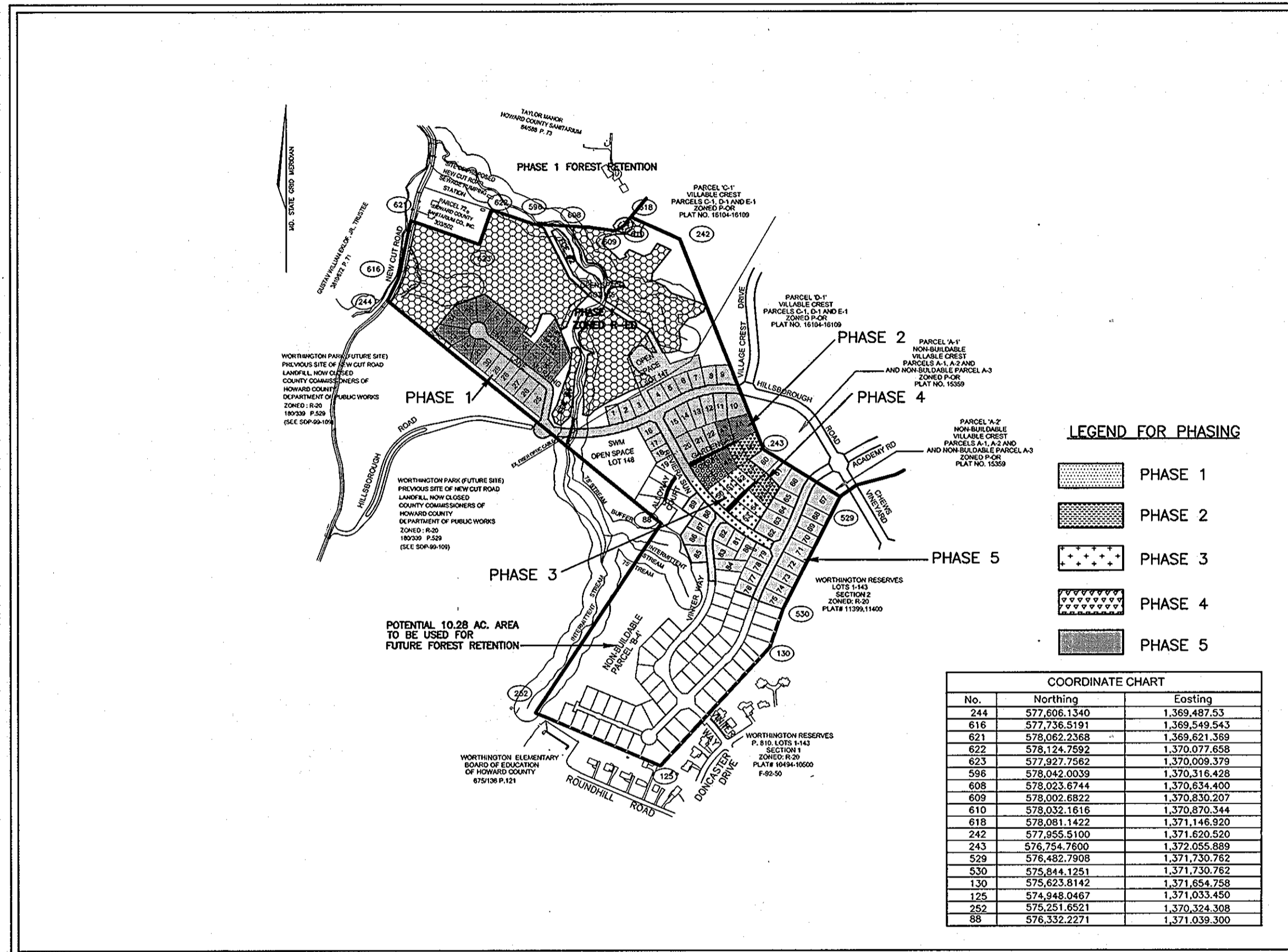
VICINITY MAP  
SCALE: 1"=2000'

**SITE DATA**

LOCATION: TAX MAP 25 & 31, BLOCKS 2 & 20, PARCEL P/O '98'  
 2ND ELECTION DISTRICT  
 EXISTING ZONING: R-ED  
 DPZ REFERENCES: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
 P-01-01, F-01-206 (PHASE 2), P-02-08, F-02-170 (PHASE 3), P-03-07, F-03-207 (PHASE 4),  
 P-04-012 (PHASE 5)  
 TOTAL AREA OF SITE: 83.27 AC (R-ED)  
 AREA OF PHASE 5 PLAN SUBMISSION: 34.37 AC (R-ED)  
 AREA OF PROPOSED BUILDABLE LOTS: 8.63 AC  
 AREA OF PROPOSED ROAD RIGHT OF WAY: 1.33 AC  
 OPEN SPACE TABULATIONS: 0.00 AC  
 AREA OF 100 YEAR FLOODPLAIN ON SITE: 0.00 AC  
 NUMBER OF LOTS/PARCELS PROPOSED: 30 BUILDABLE LOTS  
 LIMIT OF DISTURBANCE FOR PHASE 5 PLAN SUBMISSION: 9.44 AC ±

**GENERAL NOTES**

1. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-297-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
5. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
6. DEED REFERENCE: 5611/31
7. THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PREPARED BY VOGEL & ASSOCIATES, INC., DATED NOVEMBER 1998.
8. THE TOPOGRAPHY SHOWN HEREON IS BASED ON AERIAL PHOTOGRAMETRIC SURVEY PREPARED BY WINGS AERIAL MAPPING COMPANY, INC., DATED MARCH 1995.
9. COORDINATE DATUM IS BASED ON THE MARYLAND COORDINATE SYSTEM (NAD 83) AS PROJECTED BY THE FOLLOWING HOWARD COUNTY GEODETIC CONTROL STATIONS: 3044005R & 3044004R
10. WATER AND SEWER FOR THIS PROJECT WILL BE PUBLIC. EXISTING WATER CONTRACT NO. 14-3160-D AND CONTRACT NO. 14-3375-D WILL BE EXTENDED FROM RIVERIA SUN DRIVE AND ACADEMY ROAD, RESPECTIVELY. A NEW SEWER WILL BE PROPOSED TO DRAIN TO THE PLANNED PUMPING STATION TO BE CONSTRUCTED AS CONTRACT NO. 14-3855-D.
11. STORMWATER MANAGEMENT (2-YR & 10-YR) IS PROVIDED UNDER PHASE 1, F-01-60, AS A WET POND.
12. HDPE BEDDING SPECIFICATIONS ARE TO BE AS PER ASTM STANDARDS.
13. THERE ARE NO WETLANDS OR STREAMS WITHIN THIS PHASE BASED ON A WETLANDS REPORT PREPARED BY REIMER, MUEGGE AND ASSOCIATES, DATED SEPTEMBER 25, 1998, AND APPROVED UNDER S-98-18.
14. THERE IS NO 100-YR FLOODPLAIN LOCATED WITHIN THIS PHASE.
15. A FOREST STAND DELINEATION PLAN WAS PREPARED FOR THE ENTIRE SITE PREPARED BY CHESAPEAKE ENVIRONMENTAL, DATED MARCH 1995, AND APPROVED UNDER S-98-18.
16. FOREST CONSERVATION PLAN PREPARED BY EXPLORATION RESEARCH, INC., DATED OCTOBER 1999, FOR THE ENTIRE SITE. FOREST CONSERVATION OBLIGATIONS HAVE BEEN MET BY A WETLANDS EASEMENT OF 20.32 AC. THE OUTSTANDING FOREST CONSERVATION OBLIGATION OF 10.28 AC, FOR THE ENTIRE SITE WILL BE PROVIDED AT PHASE 6.
17. APFO TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, DATED JUNE 8, 1998, AND APPROVED UNDER S-98-18.
18. PERIMETER LANDSCAPING REQUIREMENTS AS SET FORTH IN SECTION 16.124 OF THE SUBDIVISION REGULATIONS AND THE HOWARD COUNTY LANDSCAPE MANUAL SHALL BE COMPLIED WITH. A FINANCIAL SURETY IN THE AMOUNT OF \$6,000.00 FOR THE REQUIRED 20 SHADE TREES WILL BE POSTED AS PART OF THE DEVELOPERS AGREEMENT.
19. STREET TREES ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH SECTION 16.124(6)(1) OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$20,400.00 TO BE POSTED AS PART OF THE DEVELOPERS AGREEMENT FOR THE REQUIRED 68 PUBLIC STREET TREES.
20. STREET LIGHTING HAS BEEN PROVIDED FOR THE PUBLIC ROADS IN ACCORDANCE WITH SECTION 16.135 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE DESIGN MANUAL. A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
21. SEDIMENT AND EROSION CONTROL HAS BEEN PROVIDED FOR THIS SITE.
22. THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT.
23. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL/CEMETARY LOCATIONS ON SITE.
24. A NOISE STUDY IS NOT REQUIRED FOR THIS SITE.
25. REFERENCE PLANNING BOARD CASE PB-336 FOR APPROVAL OF THIS DEVELOPMENT WITHIN THE R-ED DISTRICT ON JUNE 16, 1999, SUBJECT TO THE FOLLOWING CONDITIONS:
  1. COMPLIANCE WITH THE SUBDIVISION REVIEW COMMITTEE COMMENTS FOR SKETCH PLAN S-98-19.
  2. THE DEVELOPERS SHALL PROVIDE PEDESTRIAN ACCESS FROM THIS SUBDIVISION TO THE ADJACENT WORTHINGTON ELEMENTARY SCHOOL SITE.
26. AS A RESULT OF THIS PRELIMINARY PLAN BEING SUBMITTED TO THE COUNTY FOR REVIEW PRIOR TO 11/15/01, IT IS SUBJECT TO COMPLIANCE WITH THE FOURTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. IN ADDITION, BECAUSE THIS PHASE OF THE SUBDIVISION DID NOT OBTAIN SIGNATURE APPROVAL OF THIS PRELIMINARY PLAN PRIOR TO 11/01/01, IT IS SUBJECT TO COMPLIANCE WITH COUNTY COUNCIL BILL 50-2001 WHICH AMENDS THE ZONING REGULATIONS, AND THE AMENDED ZONING REGULATIONS WHICH BECAME EFFECTIVE ON 01/08/02.
27. FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND THE ROAD RIGHT-OF-WAY ONLY AND NOT ONTO THE FLAG OR PIPE STEM DRIVEWAY.
28. ALL FILLED AREAS OF EARTHWORK REQUIRE 95% COMPACTION PER AASHTO-180 SPECIFICATIONS.
29. DRIVEWAY PLACEMENT AND GRADING WILL BE FINALIZED AT SITE DEVELOPMENT PHASE.
30. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH THE SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF THE SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION OR BUILDING/GRADING PERMIT.
31. A MINIMUM OF 20' IS REQUIRED BETWEEN ANY STREET LIGHT AND ANY TREE.
32. ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)-3" LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.



LOCATION PLAN  
SCALE: 1"=600'

**FOREST CONSERVATION TABULATION (LAND USE: HDR)**

PHASES	F-01-60	F-01-206	F-02-170	F-03-207	F-05-019	ENTIRE SITE
TOTAL TRACT AREA	47.22 AC	0.89 AC	2.04 AC	1.20 AC	8.83 AC	83.27 AC
FLOODPLAIN	1.62 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	1.62 AC
NET TRACT AREA	45.60 AC	0.89 AC	2.04 AC	1.20 AC	8.83 AC	81.65 AC
AFFORESTATION THRESHOLD -15%	6.84 AC	0.13 AC	0.31 AC	0.18 AC	1.32 AC	12.25 AC
REFORESTATION THRESHOLD -20%	9.12 AC	0.18 AC	0.41 AC	0.24 AC	1.77 AC	16.33 AC
EX. FOREST LESS FLOODPLAIN	31.37 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	51.10 AC
FOREST ABOVE AFF. THRESHOLD	24.61 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	38.85 AC
FOREST ABOVE REF. THRESHOLD	22.25 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	34.75 AC
BREAK EVEN POINT	13.57 AC	N/A	N/A	N/A	N/A	23.29 AC
RET. W. NO MITIGATION REQUIRED	13.57 AC	N/A	N/A	N/A	N/A	23.29 AC
CLEARING W. NO MITIGATION REQUIRED	17.80 AC	N/A	N/A	N/A	N/A	27.81 AC
FOREST AREA CLEARED	11.05 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	20.50 AC
FOREST AREA RETAINED	20.32 AC	0.00 AC	0.00 AC	0.00 AC	10.28 AC	30.60 AC
REFOREST FOR CLEARING ABOVE CON.THRESH.	2.76 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	5.13 AC
REFOREST FOR CLEARING BELOW CON.THRESH.	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC
CREDIT FOR RETENTION ABOVE CON.THRESH.	11.20 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	14.27 AC
TOTAL REFORESTATION REQUIRED	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC
TOTAL AFFORESTATION REQUIRED	0.00 AC	N/A	N/A	N/A	N/A	0.00 AC
TOTAL RE AND AFFORESTATION REQUIRED	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC
RE/AFFORESTATION PROVIDED	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC

1. THIS PLAN IS IN ACCORDANCE WITH APPROVED SKETCH PLAN S-98-18. NOTE THAT THE 4.42 ACRE (3.23 AC. AFTER DEDICATION TO ROADS) POR ZONED NON-BUILDABLE PARCEL A IS NOW PART OF VILLAGE CREST SUBDIVISION. FOREST CONSERVATION FOR THAT PARCEL IS PROVIDED IN VILLAGE CREST F-02-47.
2. IN ACCORDANCE WITH APPROVED PB-366 AND S-98-18, A MINIMUM OF 30.60 AC. OF FOREST RETENTION IS REQUIRED FOR THE ENTIRE WORTHINGTON FIELDS SUBDIVISION AREA. THIS INCLUDES A STATEMENT THAT FOREST CONSERVATION OBLIGATIONS CAN BE MET BY RETENTION OF FOREST STANDS EQUAL TO OR ABOVE THE BREAK-EVEN-POINT. ANY CHANGES TO THE PLAN WHICH ARE NOT IN ACCORDANCE WITH THE SKETCH PLAN EXHIBIT THAT WAS SUBMITTED AT PLANNING BOARD WILL REQUIRE ANOTHER PLANNING BOARD HEARING.
3. THIS PROJECT IS LOCATED IN THE WORTHINGTON ELEMENTARY SCHOOL DISTRICT AND THE ELLICOTT MILLS MIDDLE SCHOOL DISTRICT. AS A CONSEQUENCE OF THE COUNCIL'S APPROVAL OF RESOLUTION "95-2003 AND RESOLUTION 96-2003". THE 30 UNITS COMPRISING PHASE V HAVE PASSED THE APFO TEST FOR OPEN SCHOOL REGION, REPHASING PROPOSAL HAS BEEN ENDORSED BY DEPARTMENT OF PLANNING & ZONING BY LETTER DATED JUNE 26, 2003 AND HAD GRANTED 30 TENTATIVE HOUSING UNIT ALLOCATIONS FOR THE YEAR 2006 (PHASE V) AND 59 FOR THE YEAR 2007 (PHASE VI).

**DENSITY TABULATION**

PHASE	TOTAL SUBDIVISION AREA(GROSS AREA)	FLOODPLAIN	STEEP SLOPES	NET AREA	UNITS ALLOWED	UNITS PROPOSED	TOTAL UNITS REMAINING
TOTAL	83.27 AC (R-ED) 4.42 AC (POR)*	1.62 AC 0.00 AC	8.36 AC 0.00 AC	73.29 AC 4.42 AC	146 D.U. N/A	144 D.U.** N/A	-
1 (F-01-60)	50.46 AC (R-ED)***	1.62 AC	8.36 AC	40.48 AC	80 D.U.	42 D.U.	102 D.U.
2 (F-01-206)	0.89 AC (R-ED)***	0.00 AC	0.00 AC	0.89 AC	1 D.U.	3 D.U.	99 D.U.
3 (F-02-170)	2.06 AC (R-ED)***	0.00 AC	0.00 AC	2.06 AC	4 D.U.	5 D.U.	94 D.U.
4 (F-03-207)	1.20 AC (R-ED)***	0.00 AC	0.00 AC	1.20 AC	2 D.U.	5 D.U.	89 D.U.
5 (F-05-019)	8.83 AC (R-ED)***	0.00 AC	0.00 AC	8.83 AC	18 D.U.	30 D.U.	59 D.U.
6							
TOTAL	54.61 AC (R-ED)***	1.62 AC	8.36 AC	44.63 AC	105 D.U.	85 D.U.	0 D.U.

\*THE POR ZONED AREA RECORDED AS NON-BUILDABLE PARCEL 'A' (3.23 AC.) ON WORTHINGTON FIELDS PHASE 1, PLAT NO. 14946-14955, HAS SUBSEQUENTLY BEEN RESUBDIVIDED TO CREATE VILLAGE CREST, PARCELS A-1, A-2 AND NON-BUILDABLE PARCEL A-3 AND RECORDED AS PLAT NO. 15359. THE REMAINING PORTION OF THE POR ZONED AREA (1.19 AC.) HAS BEEN DEDICATED TO HOWARD COUNTY, MARYLAND, FOR THE PURPOSE OF A PUBLIC ROAD AS PER WORTHINGTON FIELDS PHASE 1, PLAT NO. 14946-14955.  
 \*\*MAXIMUM ALLOWABLE DENSITY OF 144 UNITS APPROVED UNDER S-98-18.  
 \*\*\*DOES NOT INCLUDE RESIDUE PORTIONS OF NON-BUILDABLE PARCEL 'B'.

**OPEN SPACE TABULATION**

PHASE	TOTAL AREA	REQUIRED OPEN SPACE*	PROVIDED CREDITED OPEN SPACE	PROVIDED NON-CREDITED OPEN SPACE	TOTAL PROVIDED OPEN SPACE	OPEN SPACE IN RESERVE	REQ. REC. OPEN SPACE*	PROV. REC. OPEN SPACE	REC. O.S. IN RESERVE
TOTAL SUBDIVISION	83.27 AC.	20.82 AC.	-	-	-	-	0.83 AC.	-	-
1 (F-01-60)	50.46 AC.***	12.62 AC.	32.49 AC. (39%)	0.54 AC.	33.03 AC.	19.87 AC.	0.24 AC.	1.01 AC.	0.77 AC.
2 (F-01-206)	0.89 AC.***	0.22 AC.	0.00 AC.	0.00 AC.	0.00 AC.**	19.65 AC.	0.02 AC.	0.00** AC.	0.75 AC.
3 (F-02-170)	2.06 AC.***	0.52 AC.	0.00 AC.	0.00 AC.	0.00 AC.**	19.13 AC.	0.03 AC.	0.00** AC.	0.72 AC.
4 (F-03-207)	1.20 AC.***	0.30 AC.	0.00 AC.	0.00 AC.	0.00 AC.**	18.83 AC.	0.03 AC.	0.00** AC.	0.69 AC.
5 (F-05-019)	8.83 AC.***	2.21 AC.	0.00 AC.	0.00 AC.	0.00 AC.**	16.62 AC.	0.09 AC.	0.00** AC.	0.60 AC.
6									
TOTAL	63.44 AC.***	15.87 AC.	32.49 AC.	0.54 AC.	33.03 AC.	16.62 AC.	0.41 AC.	1.01 AC.	0.60 AC.

\*REQUIRED OPEN SPACE CALCULATED FOR THE ENTIRE R-ED PORTION OF THE SUBDIVISION AS 25% OF GROSS AREA (83.27 AC. X 25% = 20.82 AC.) REQUIRED RECREATIONAL OPEN SPACE CALCULATED AS 250 SF PER D.U. (144 D.U. X 250 SF = 36,000 SF OR 0.83 AC.)  
 \*\*REQUIRED OPEN SPACE AND REQUIRED RECREATIONAL OPEN SPACE FOR THE ENTIRE SUBDIVISION PROVIDED UNDER WORTHINGTON FIELDS PHASE 1, PLAT NO. 14946-14955.  
 \*\*\*DOES NOT INCLUDE RESIDUE PORTIONS OF NON-BUILDABLE PARCEL 'B' TO BE DEVELOPED IN FUTURE PHASES.

**SHEET INDEX**

SHEET NO.	TITLE
1 OF 8	COVER SHEET
2 OF 8	ROAD CONSTRUCTION PLAN AND PROFILE
3 OF 8	ROAD CONSTRUCTION PLAN AND PROFILE
4 OF 8	GRADING AND SEDIMENT AND EROSION CONTROL PLAN
5 OF 8	SEDIMENT AND EROSION CONTROL DETAILS
6 OF 8	STORM DRAIN DRAINAGE AREA MAP
7 OF 8	STORM DRAIN PROFILES
8 OF 8	LANDSCAPE PLAN

NO.	REVISION	DATE

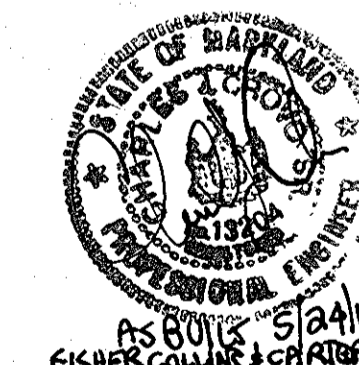
**COVER SHEET  
WORTHINGTON FIELDS, PHASE 5  
LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'  
A RESUBDIVISION OF NON-BUILDABLE  
PARCEL 'B-3', PHASE 4**

TAX MAP 25 BLOCK 20 PARCEL P/O '98'  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 REF.: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
 P-01-01, F-01-206 (PHASE 2), P-02-08, F-02-170 (PHASE 3),  
 P-03-07, F-03-207 (PHASE 4), P-04-12

**ROBERT H. VOGEL  
ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410-461-7666  
 FAX: 410-461-8961

DESIGN BY: RHV  
 DRAWN BY: CMH  
 CHECKED BY: RHV  
 DATE: JANUARY, 2005  
 SCALE: AS SHOWN  
 W.O. NO.: 00-1100

1 SHEET OF 8



*[Signature]* 2/1/05  
 LAND SURVEYOR  
 DUK QUALIFIED PROFESSIONAL

**OWNER**  
 TAYLOR FAMILY LIMITED PARTNERSHIP B  
 4100 COLLEGE AVE.  
 ELLICOTT CITY, MARYLAND  
 21043-5505

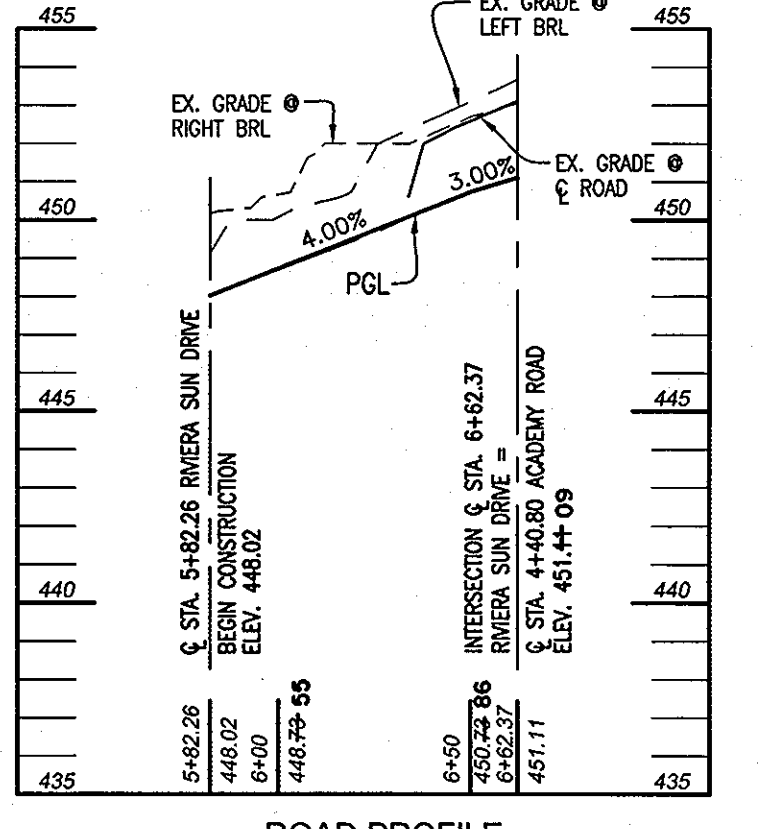
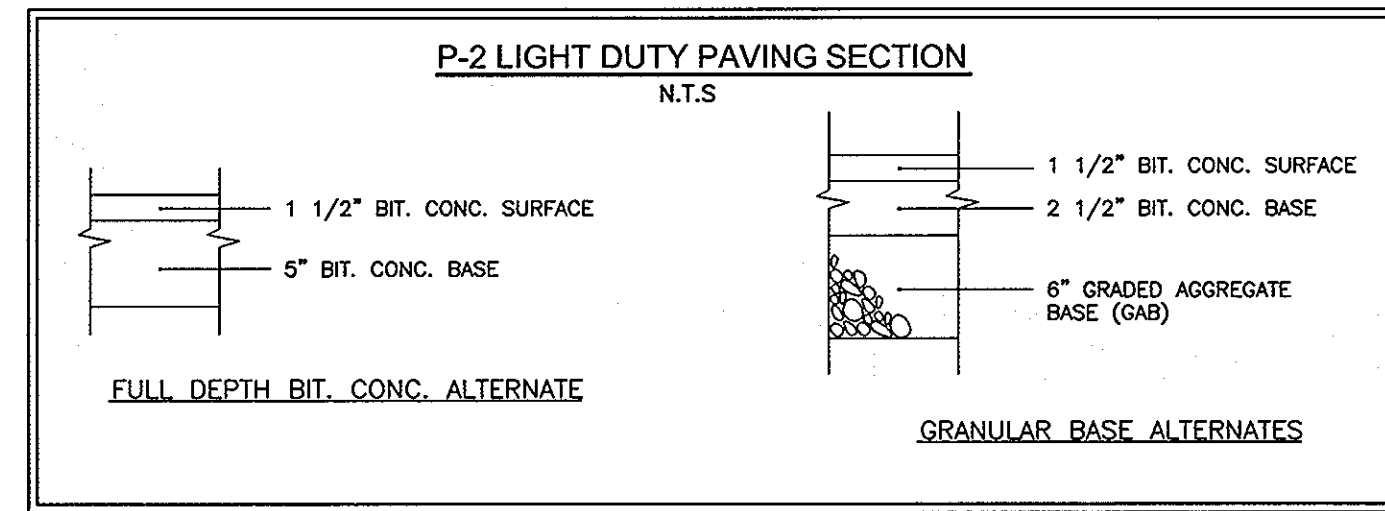
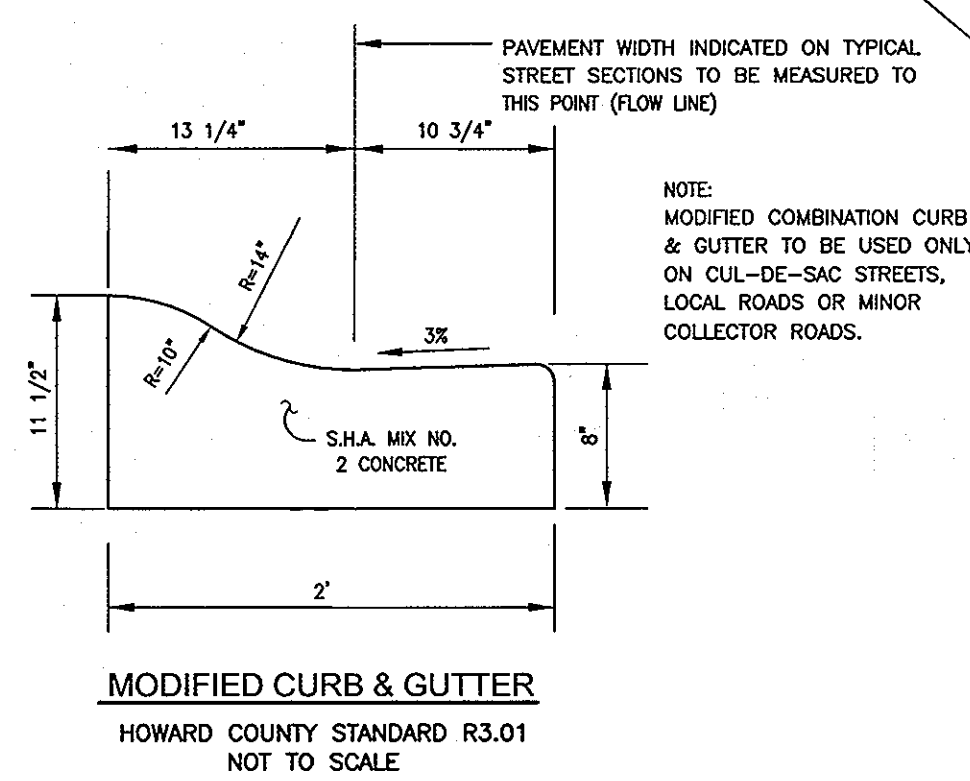
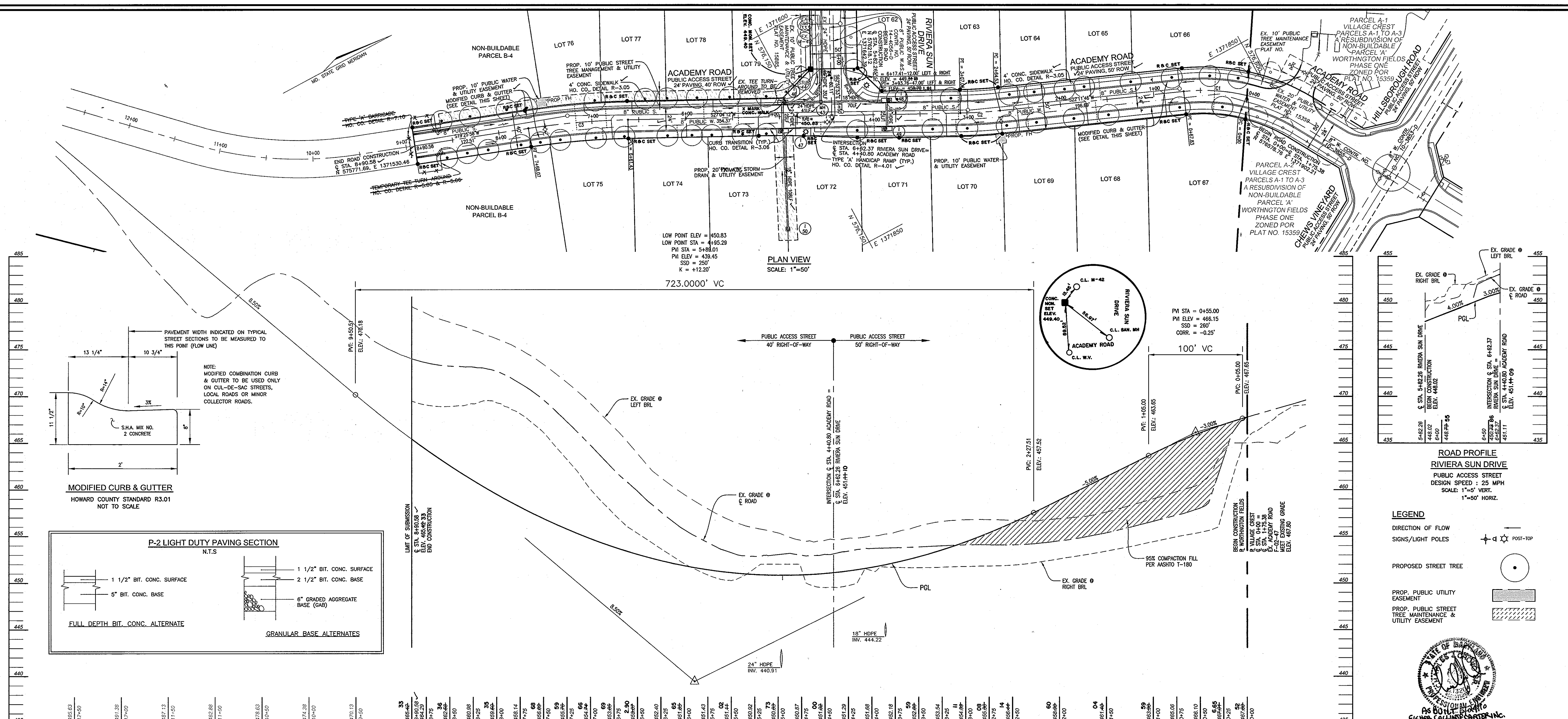
**DEVELOPER**  
 NEW CUT ROAD DEVELOPMENT 2, INC.  
 C/O LAND DESIGN & DEVELOPMENT, INC.  
 8000 MAIN STREET  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: DONALD R. REUWER  
 (410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 2-14-05  
 CHIEF, BUREAU OF HIGHWAYS

*[Signature]* 3/9/05  
 CHIEF, DIVISION OF LAND DEVELOPMENT



**ROAD PROFILE**  
**RIVIERA SUN DRIVE**  
 PUBLIC ACCESS STREET  
 DESIGN SPEED : 25 MPH  
 SCALE: 1"=50' VERT.  
 1"=50' HORIZ.

- LEGEND**
- DIRECTION OF FLOW
  - SIGNS/LIGHT POLES
  - PROPOSED STREET TREE
  - PROP. PUBLIC UTILITY EASEMENT
  - PROP. PUBLIC STREET TREE MAINTENANCE & UTILITY EASEMENT



**PUBLIC ROAD STREET TREE SCHEDULE**

KEY	QUAN.	BOTANICAL NAME	SIZE	REM.
68		ACER RUBRUM 'AUTUMN FLAME'	2 1/2"-3" CAL. B & B	

**STREET TREE CALCULATIONS**

STREET NAME	LINEAR FEET	NO. REQUIRED	NO. PROVIDED
RIVIERA SUN DRIVE	PROVIDED UNDER F-02-170		
ACADEMY ROAD	1782/40	45	45
VINTER WAY	890/40	23	23

**CURVE TABLE**

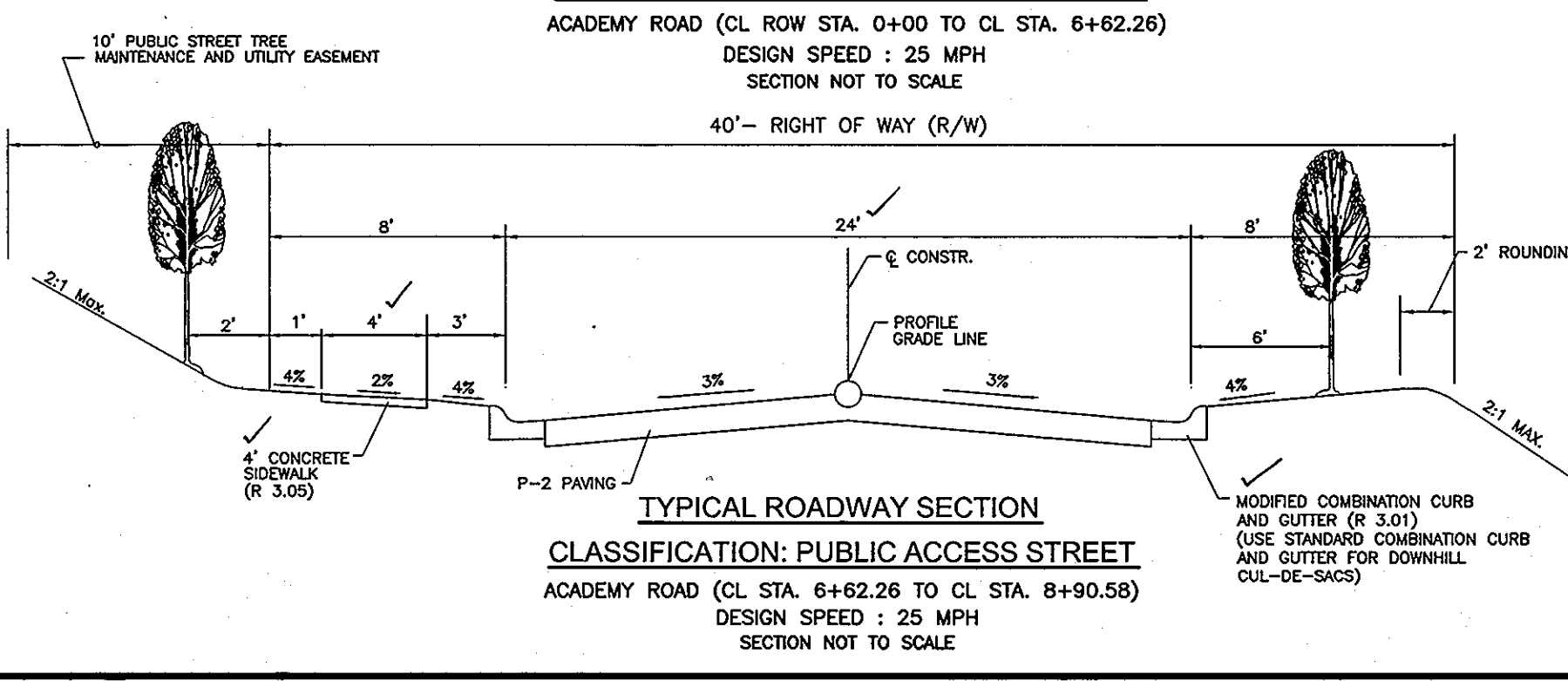
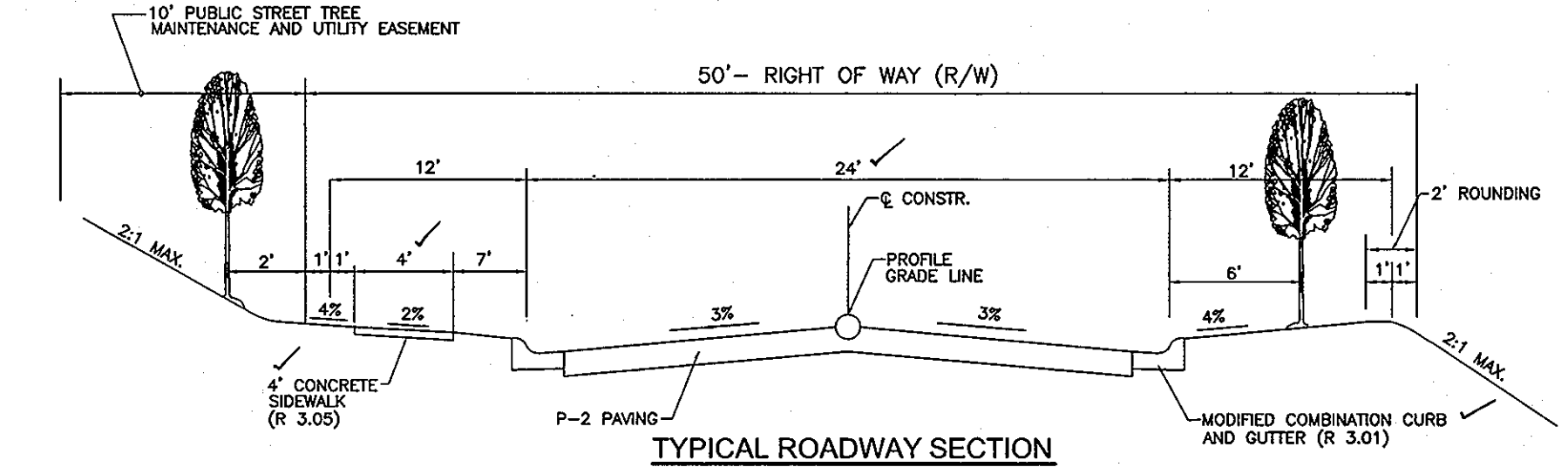
CURVE	LENGTH	RADIUS	DELTA ANGLE	TANGENT	CHORD	DIRECTION	CHORD LENGTH
C1	67.83'	200.00'	19°25'59"	34.25'	S 31°54'45" W		67.51'
C2	43.53'	499.98'	4°52'26"	21.28'	S 24°37'59" W		42.52'
C3	106.64'	800.00'	7°38'14"	53.40'	S 23°15'05" W		106.56'
C4	166.79'	200.00'	47°46'56"	88.59'	S 18°00'56" W		162.00'
C5	94.16'	400.00'	16°29'14"	47.30'	S 00°52'05" W		93.94'

**SIGN AND STREET LIGHT LOCATION CHART**

DWG. NO.	STREET NAME	STATION	OFFSET	FIXTURE/POLE TYPE
2 OF 8	RIVIERA SUN DR.	6+31	34' L	100 WATT HPS VAPOR PREMIER POST-TOP FIXTURE MOUNTED ON A 14' BLACK FIBERGLASS POLE
2 OF 8	ACADEMY ROAD	4+72	17' L	
2 OF 8	RIVIERA SUN DR.	6+28	18' R	R1-1 "STOP"
3 OF 8	VINTER WAY	0+36	18' L	
2 OF 8	RIVIERA SUN DR.	0+02	15' L	W3-2a "15 MPH"
2 OF 8	RIVIERA SUN DR.	1+01	15' R	R2-1 "25 MPH"
2 OF 8	RIVIERA SUN DR.	1+14	15' L	W96-9 WITH ROAD NAME PANELS BELOW

NOTE: A MINIMUM OF 20' IS REQUIRED BETWEEN ANY STREET LIGHT AND ANY TREE

**ROAD PROFILE**  
**ACADEMY ROAD**  
 PUBLIC ACCESS STREET  
 DESIGN SPEED : 25 MPH  
 SCALE: 1"=50' VERT.  
 1"=50' HORIZ.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 2-14-05  
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 2/9/05  
 CHIEF, DIVISION OF LAND DEVELOPMENT

**OWNER**  
 TAYLOR FAMILY LIMITED PARTNERSHIP B  
 4100 COLLEGE AVE.  
 ELLICOTT CITY, MARYLAND  
 21043-5506

**DEVELOPER**  
 NEW CUT ROAD DEVELOPMENT 2, INC.  
 C/O LAND DESIGN & DEVELOPMENT, INC.  
 8000 MAIN STREET  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: DONALD R. REUWER  
 (410) 480-9105

NO.	REVISION	DATE

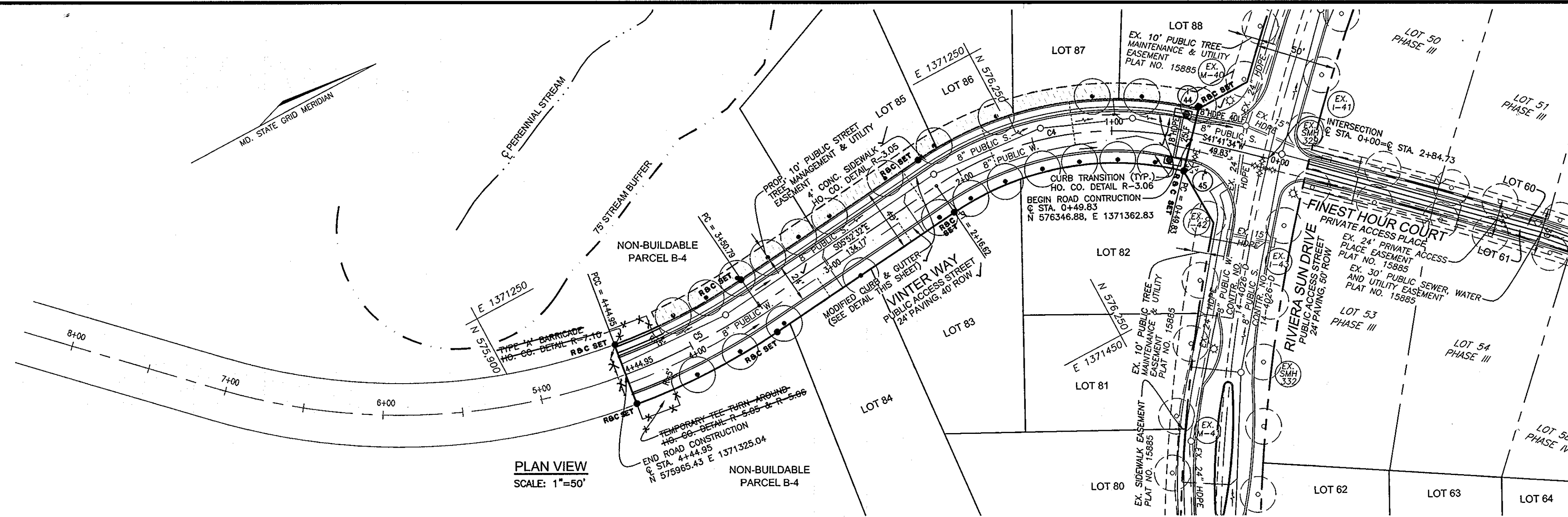
**PLAN VIEW AND PROFILE**  
**WORTHINGTON FIELDS, PHASE 5**  
**LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'**  
 A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-3', PHASE 4

TAX MAP 25 BLOCK 20 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 REF: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
 P-01-01, F-01-206 (PHASE 2), P-02-08, F-02-170 (PHASE 3),  
 P-03-07, F-03-207 (PHASE 4), P-04-12

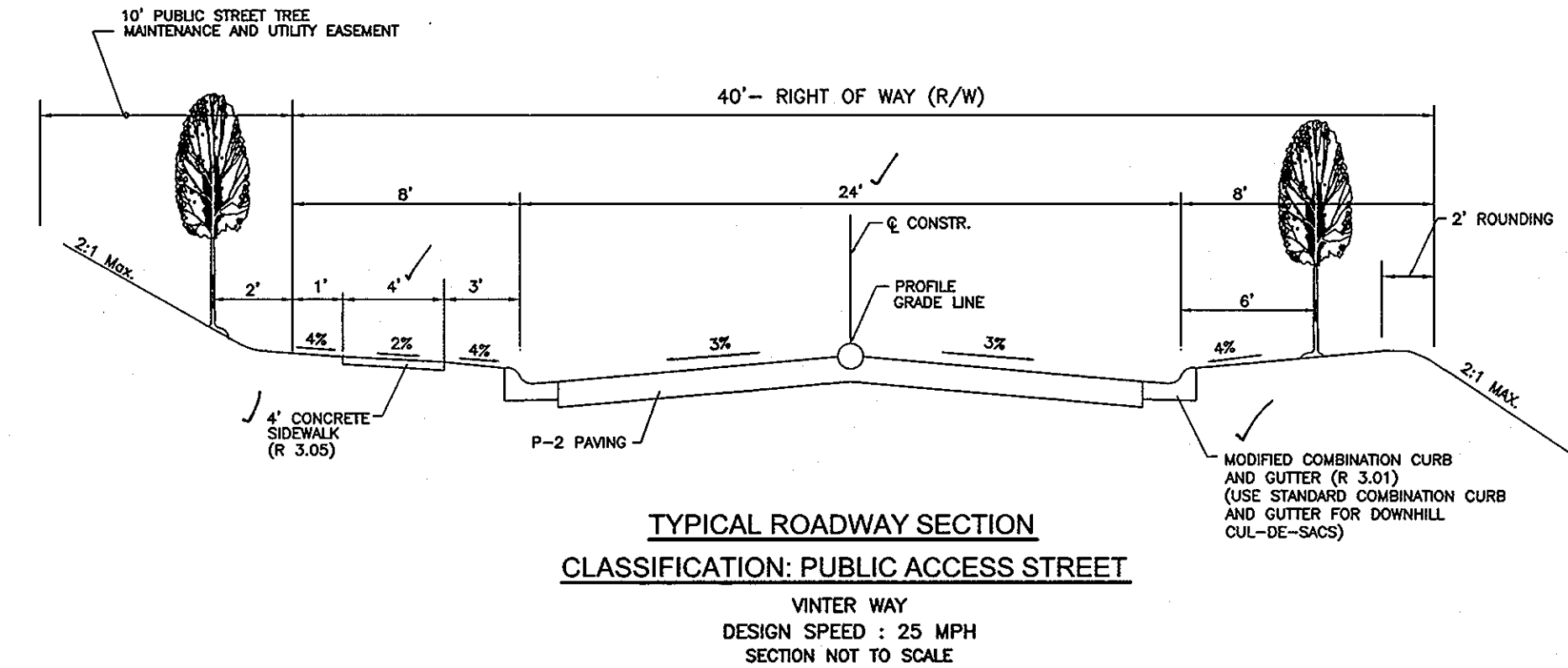
**ROBERT H. VOGEL ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666  
 FAX: 410.461.8961

DESIGN BY: RHV  
 DRAWN BY: CMH  
 CHECKED BY: RHV  
 DATE: JANUARY, 2005  
 SCALE: AS SHOWN  
 W.O. NO.: 00-11.00

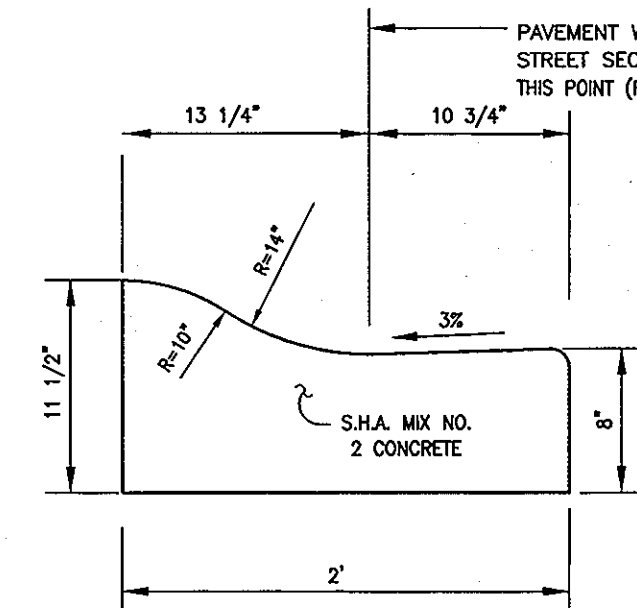
2 SHEET OF 8



PLAN VIEW  
SCALE: 1"=50'

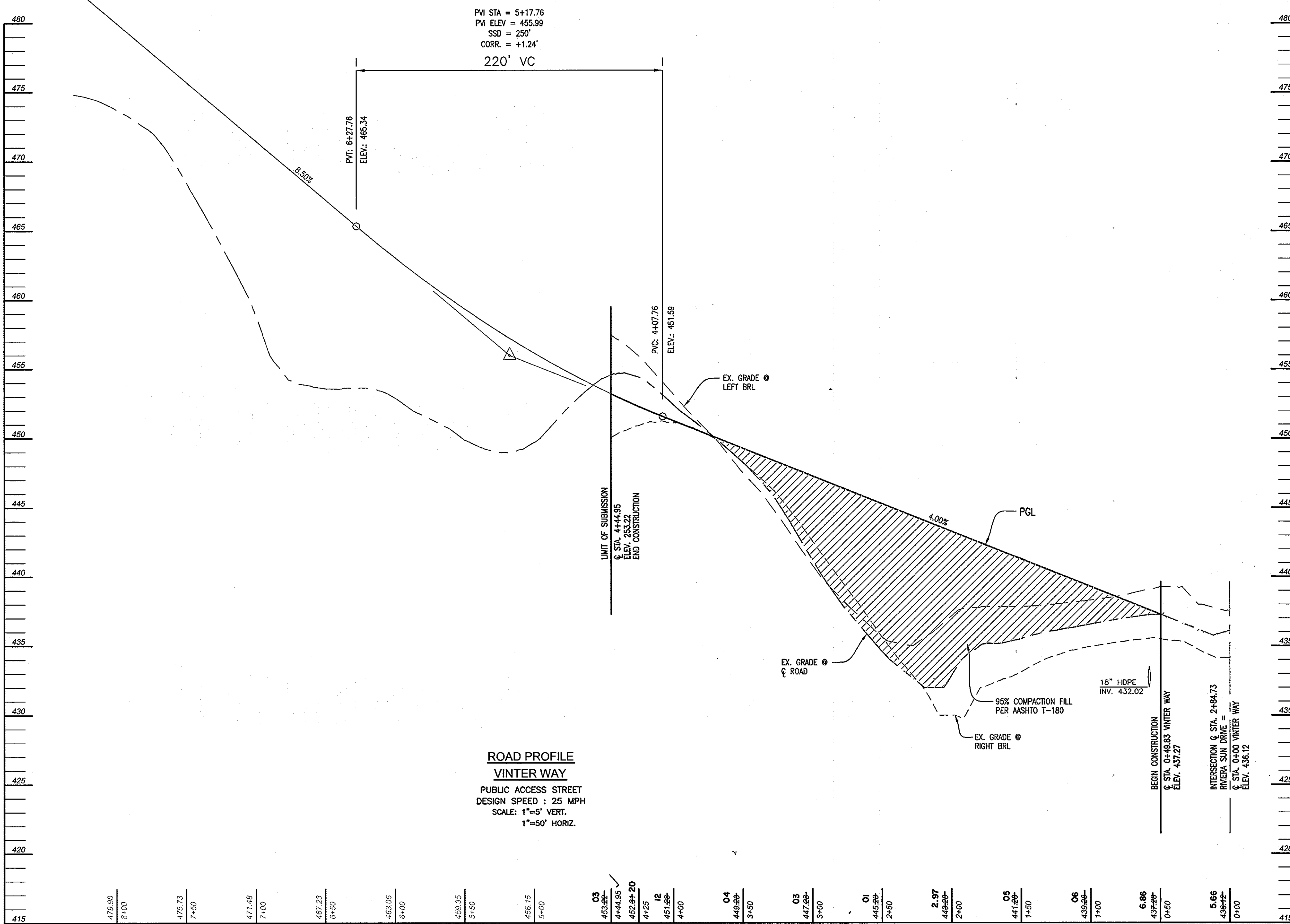


TYPICAL ROADWAY SECTION  
CLASSIFICATION: PUBLIC ACCESS STREET  
VINTER WAY  
DESIGN SPEED: 25 MPH  
SECTION NOT TO SCALE



MODIFIED CURB & GUTTER  
HOWARD COUNTY STANDARD R3.01  
NOT TO SCALE

- LEGEND**
- DIRECTION OF FLOW
  - SIGNS/LIGHT POLES
  - PROPOSED STREET TREE
  - PROP. PUBLIC UTILITY EASEMENT
  - PROP. PUBLIC STREET TREE MAINTENANCE & UTILITY EASEMENT



ROAD PROFILE  
VINTER WAY  
PUBLIC ACCESS STREET  
DESIGN SPEED: 25 MPH  
SCALE: 1"=5' VERT.  
1"=50' HORIZ.

**PUBLIC ROAD STREET TREE SCHEDULE**

KEY	QUAN.	BOTANICAL NAME	SIZE	REM.
○	68	ACER RUBRUM 'AUTUMN FLAME'	2 1/2"-3" CAL.	B & B

**STREET TREE CALCULATIONS**

STREET NAME	LINEAR FEET	NO. REQUIRED	NO. PROVIDED
RIVIERA SUN DRIVE	1782/40	45	45
ACADEMY ROAD	890/40	23	23

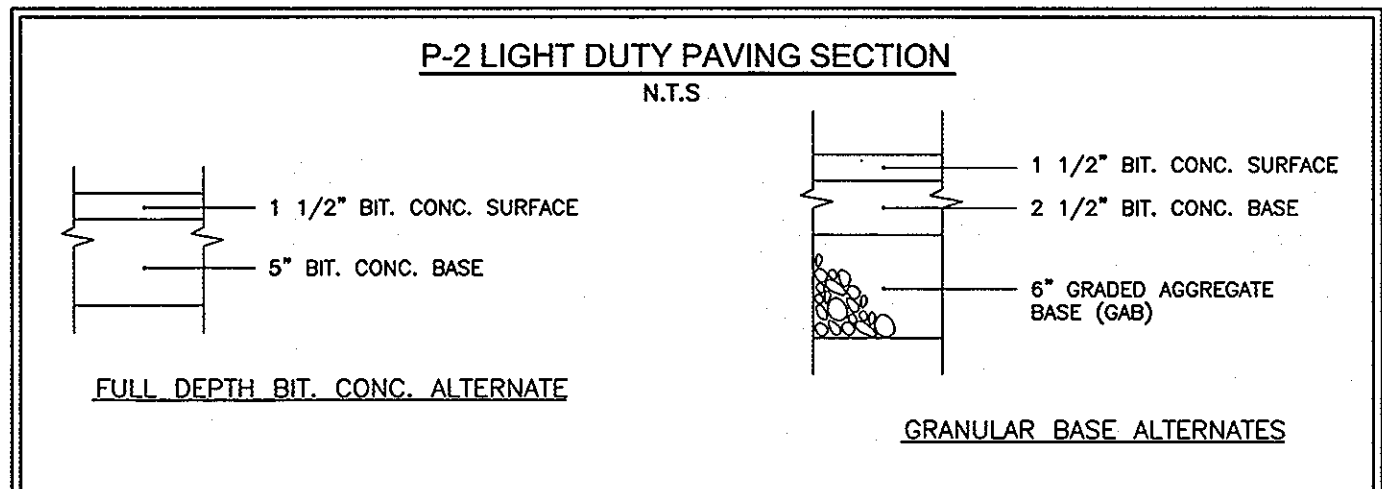
**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA ANGLE	TANGENT	CHORD DIRECTION	CHORD LENGTH
C1	67.83'	200.00'	19°25'59"	34.25'	S 31°54'45" W	67.51'
C2	43.53'	499.98'	4°52'26"	21.28'	S 24°37'59" W	42.52'
C3	106.64'	800.00'	7°38'14"	53.40'	S 23°15'05" W	106.56'
C4	166.79'	200.00'	47°46'56"	88.59'	S 18°00'56" W	162.00'
C5	94.16'	400.00'	16°29'14"	47.30'	S 00°52'05" W	93.94'

**SIGN AND STREET LIGHT LOCATION CHART**

DWG. NO.	STREET NAME	STATION	OFFSET	FIXTURE/POLE TYPE
2 OF 8	RIVIERA SUN DR.	6+31	34' L	100 WATT HPS VAPOR PREMIER POST-TOP FIXTURE MOUNTED ON A 14' BLACK FIBERGLASS POLE
2 OF 8	ACADEMY ROAD	4+72	17' L	
2 OF 8	RIVIERA SUN DR.	6+28	18' R	R1-1 "STOP"
3 OF 8	VINTER WAY	0+36	18' L	W3-2g "15 MPH"
2 OF 8	RIVIERA SUN DR.	0+32	15' L	R2-1 "25 MPH"
2 OF 8	RIVIERA SUN DR.	1+01	15' R	W96-9 WITH ROAD NAME PANELS BELOW
2 OF 8	RIVIERA SUN DR.	1+14	15' L	

NOTE: A MINIMUM OF 20' IS REQUIRED BETWEEN ANY STREET LIGHT AND ANY TREE



**OWNER**  
TAYLOR FAMILY LIMITED PARTNERSHIP B  
4100 COLLEGE AVE.  
ELlicOTT CITY, MARYLAND  
21043-5506

**DEVELOPER**  
NEW CUT ROAD DEVELOPMENT 2, INC.  
C/O LAND DESIGN & DEVELOPMENT, INC.  
8000 MAIN STREET  
ELlicOTT CITY, MARYLAND 21043  
ATTN: DONALD R. REUWER  
(410) 480-9105

**PLAN VIEW AND PROFILE**  
**WORTHINGTON FIELDS, PHASE 5**  
LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'  
A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-3', PHASE 4

TAX MAP 25 BLOCK 20 PARCEL P/O '98'  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
REF.: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
P-01-01, F-01-206 (PHASE 2), P-02-08, F-02-170 (PHASE 3),  
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8407 MAIN STREET TEL: 410.461.7666  
ELlicOTT CITY, MD 21043 FAX: 410.461.8961

NO.	REVISION	DATE

DESIGN BY: RHV  
DRAWN BY: CMH  
CHECKED BY: RHV  
DATE: JANUARY, 2005  
SCALE: AS SHOWN  
W.O. NO.: 00-11.00

3 SHEET OF 8

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Donald R. Reuwer* 2/10/05  
CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ DATE

*Walter J. Madala* 2-14-05  
CHIEF, BUREAU OF HIGHWAYS HO DATE

*Conrad K. Smith* 3/3/05  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

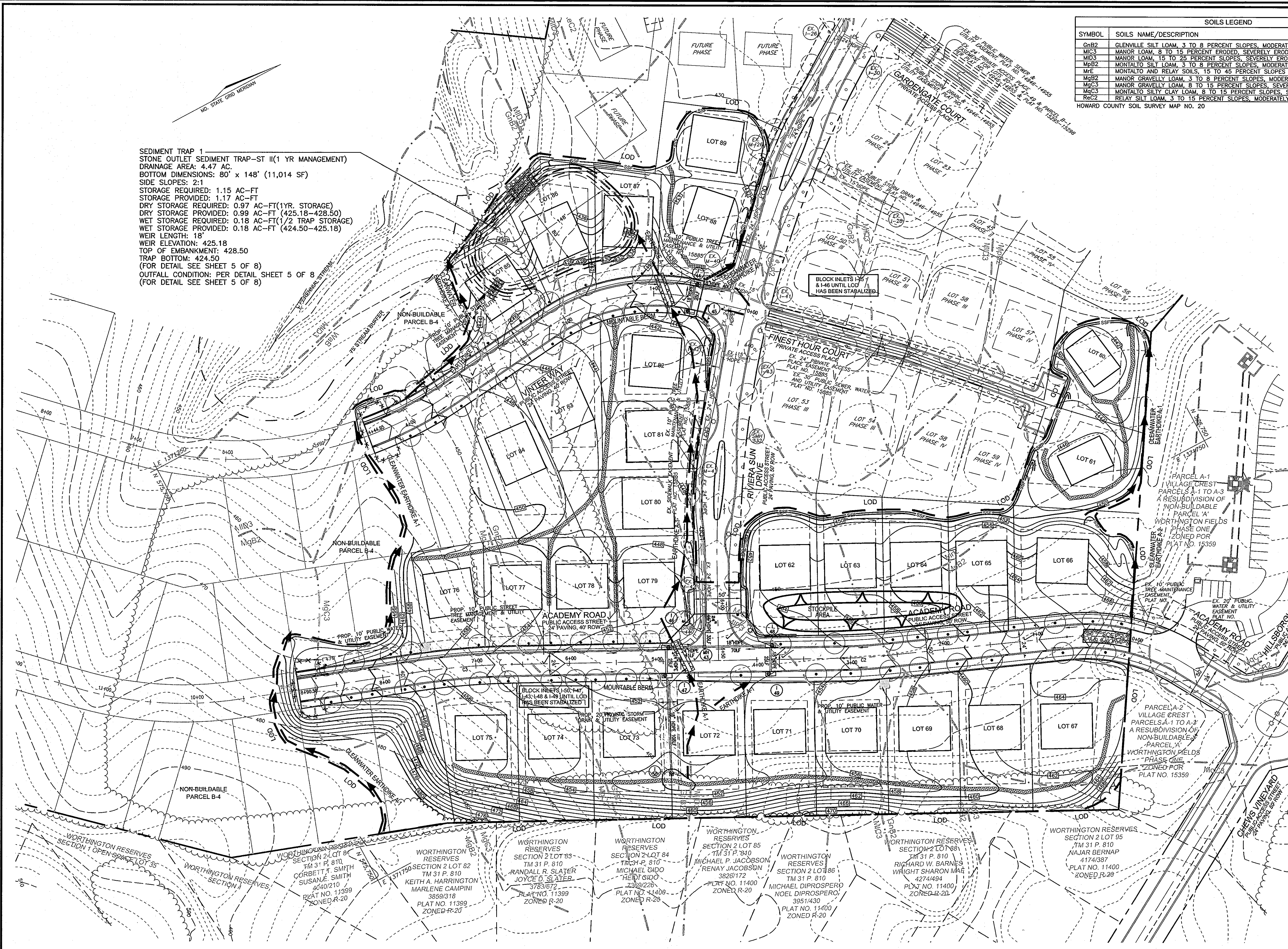
SEDIMENT TRAP 1  
 STONE OUTLET SEDIMENT TRAP-ST II(1 YR MANAGEMENT)  
 DRAINAGE AREA: 4.47 AC.  
 BOTTOM DIMENSIONS: 80' x 148' (11,014 SF)  
 SIDE SLOPES: 2:1  
 STORAGE REQUIRED: 1.15 AC-FT  
 STORAGE PROVIDED: 1.17 AC-FT  
 DRY STORAGE REQUIRED: 0.97 AC-FT(1YR. STORAGE)  
 DRY STORAGE PROVIDED: 0.99 AC-FT (425.18-428.50)  
 WET STORAGE REQUIRED: 0.18 AC-FT(1/2 TRAP STORAGE)  
 WET STORAGE PROVIDED: 0.18 AC-FT (424.50-425.18)  
 WEIR LENGTH: 18'  
 WEIR ELEVATION: 425.18  
 TOP OF EMBANKMENT: 428.50  
 TRAP BOTTOM: 424.50  
 (FOR DETAIL SEE SHEET 5 OF 8)  
 (FOR DETAIL SEE SHEET 5 OF 8)  
 (FOR DETAIL SEE SHEET 5 OF 8)

SOILS LEGEND		
SYMBOL	SOILS NAME/DESCRIPTION	CLASS
GNB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MC3	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	B
MIO3	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	B
MPB2	MONTALTO SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MRE	MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES	C/B
MB2	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MC3	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	B
MC3	MONTALTO SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	C
REC2	RELAY SILT LOAM, 3 TO 15 PERCENT SLOPES, MODERATELY ERODED	B

HOWARD COUNTY SOIL SURVEY MAP NO. 20

LEGEND	
EXISTING CONTOUR	--- 440 ---
PROPOSED CONTOUR	--- 412 ---
DIRECTION OF FLOW	→
EXISTING TREES TO REMAIN	⊙
SIGNS/LIGHT POLES	+ * POST-TOP
PROPOSED STREET TREE	○
SOILS	SIB2 SSE
PROP. PUBLIC UTILITY EASEMENT	▨
PROP. PUBLIC STREET TREE MAINTENANCE & UTILITY EASEMENT	▨
SUPER SILT FENCE	SSF
LIMIT OF DISTURBANCE	LOD
EROSION CONTROL MATTING	▨
EARTHDIKE	→
STABILIZED CONSTRUCTION ENTRANCE	▨

NOTE: HOUSES AFFECTED BY THE INSTALLATION OF THE SHOWN SEDIMENT CONTROL DEVICES ARE TO HAVE THEIR CONSTRUCTION DELAYED UNTIL PERMISSION IS RECEIVED FROM THE SEDIMENT CONTROL INSPECTOR ALLOWING THEM TO BE REMOVED.



**OWNER**  
 TAYLOR FAMILY LIMITED PARTNERSHIP B  
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 ELLICOTT CITY, MARYLAND  
 21043-5506

**DEVELOPER**  
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 DESIGN & DEVELOPMENT, INC.  
 8000 MAIN STREET  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: DONALD R. REISNER  
 (410) 480-9105

NO.	REVISION	DATE

**GRADING AND SEDIMENT AND EROSION CONTROL PLAN**  
**WORTHINGTON FIELDS, PHASE 5**  
 LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'  
 A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-3', PHASE 4

TAX MAP 25 BLOCK 20 PARCEL P/O '98'  
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 REF.: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
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 FAX: 410-461-8961

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William F. White* 2-14-05  
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John Damman* 2/28/05  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ DATE

*Cindy Hammit* 3/4/05  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Jim Martin* 2/10/05  
 CHIEF, NATURAL RESOURCES CONSERVATION SERVICE DATE

*John V. Roberts* 2/10/05  
 CHIEF, SOIL CONSERVATION DISTRICT DATE

**ENGINEER'S CERTIFICATE**

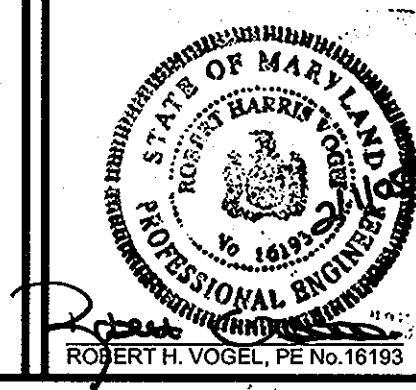
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Robert H. Vogel* 2/1/05  
 SIGNATURE OF ENGINEER DATE  
 ROBERT H. VOGEL

**DEVELOPER'S CERTIFICATE**

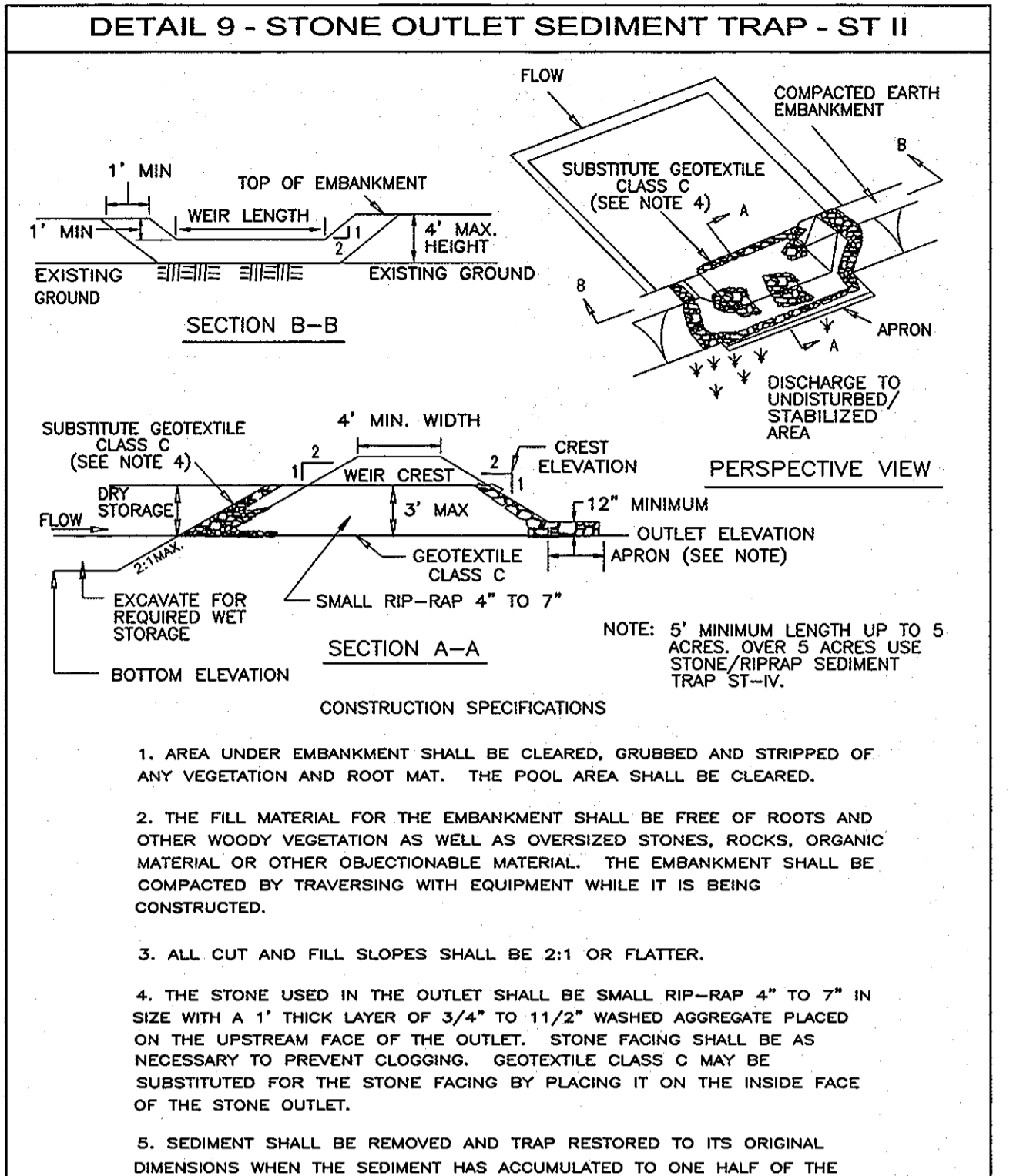
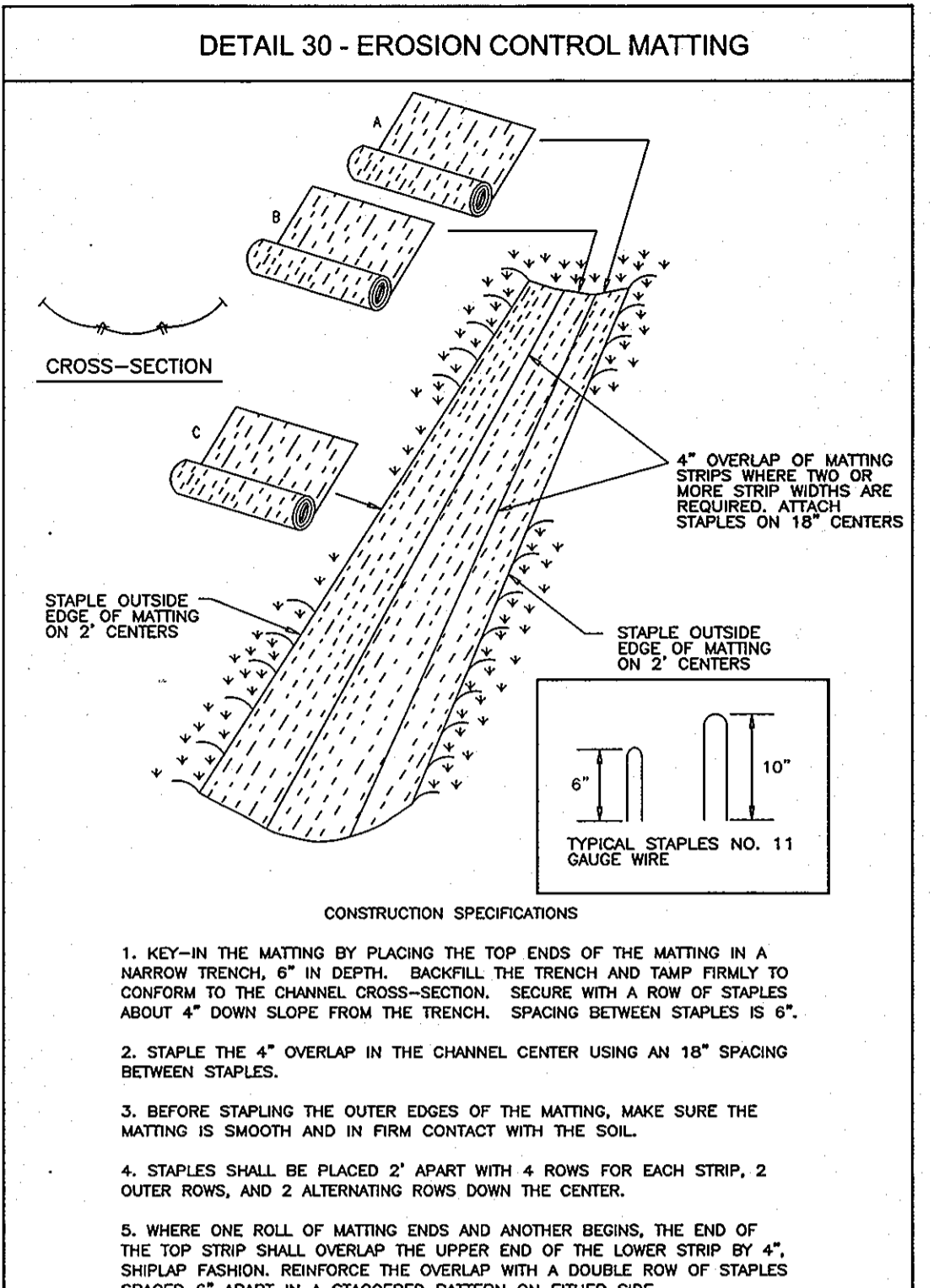
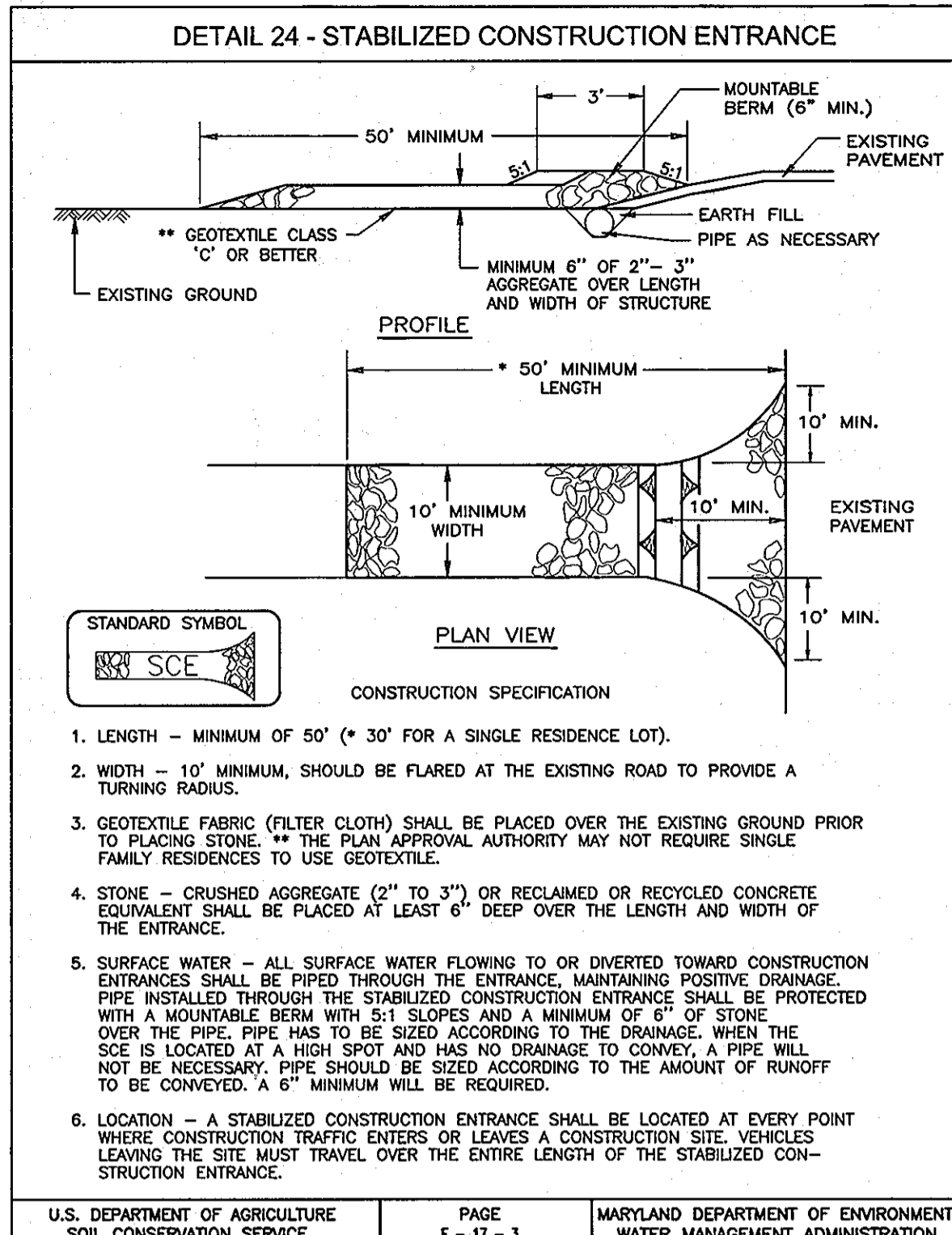
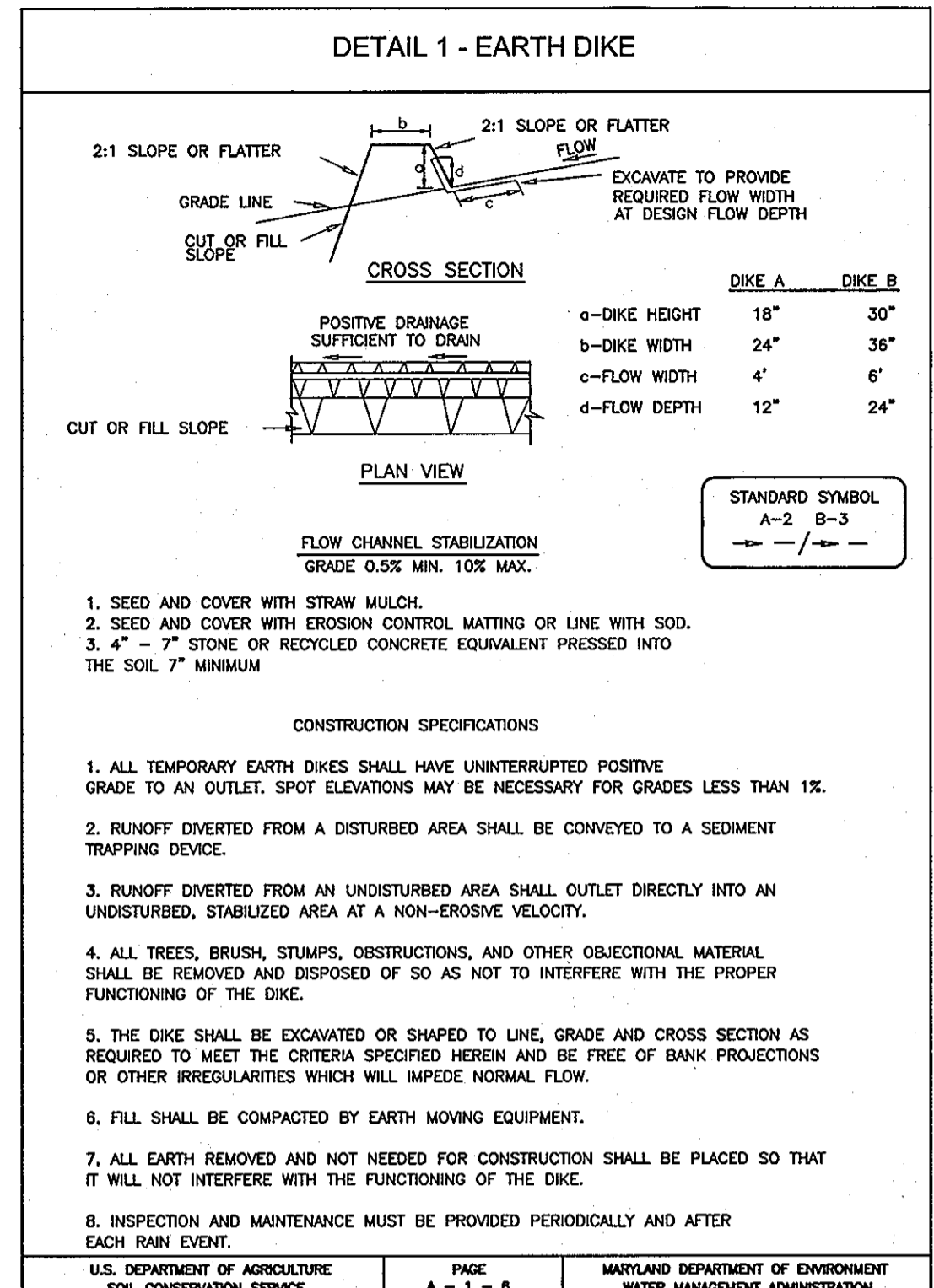
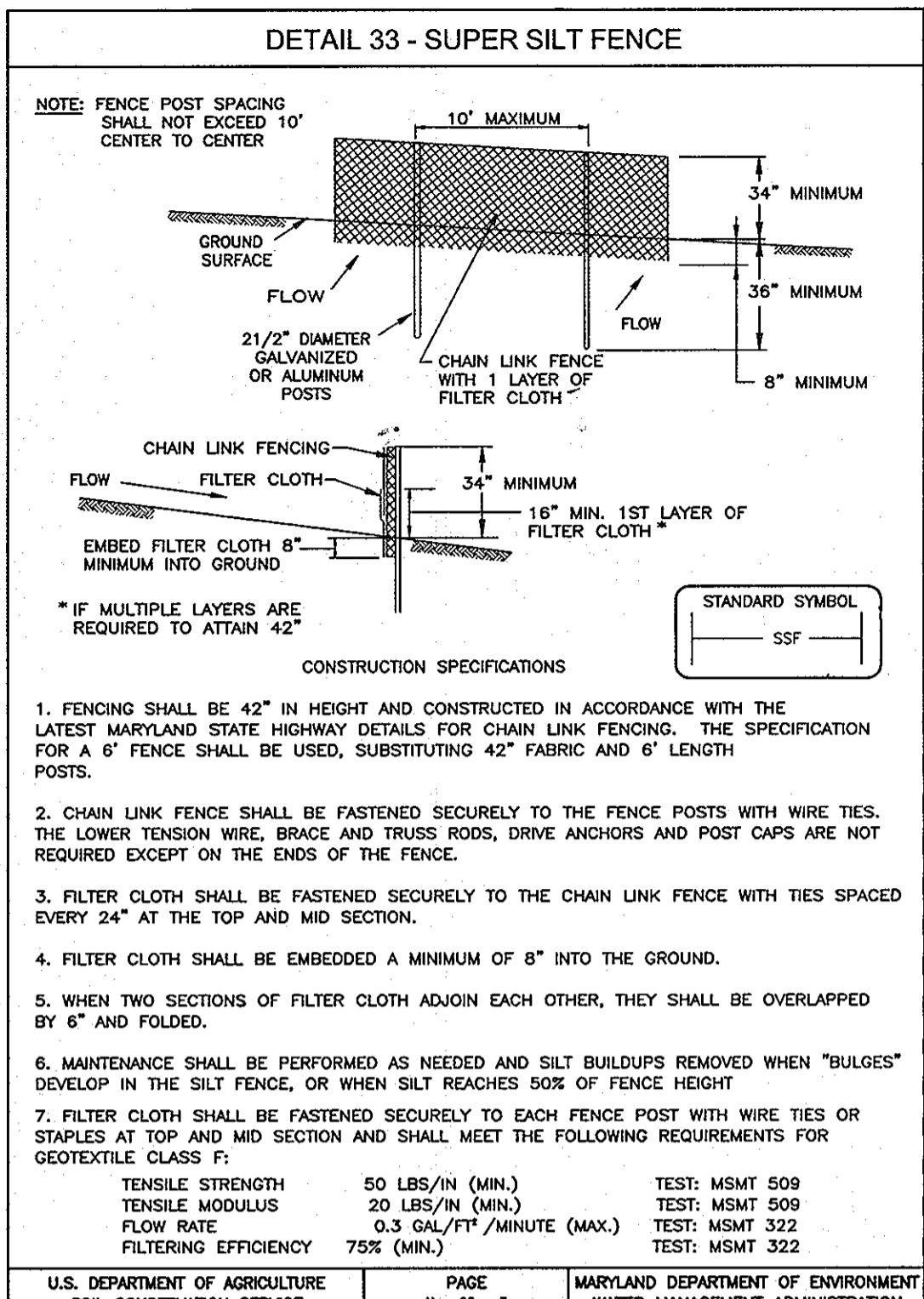
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Ronald L. Spahn* 2-1-05  
 SIGNATURE OF DEVELOPER DATE  
 RONALD L. SPANH



DESIGN BY: RHV  
 DRAWN BY: CMH  
 CHECKED BY: RHV  
 DATE: JANUARY, 2005  
 SCALE: 1"=50'  
 W.O. NO.: 00-1100

4 SHEET OF 8



### 21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

**DEFINITION**  
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**  
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

### PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED-APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./100 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREA/NITROGEN FERTILIZER (6 LBS./1000 SQ.FT.).
- ACCEPTABLE-APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./1000 SQ.FT.) AND APPLY 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 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 PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOIL 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 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

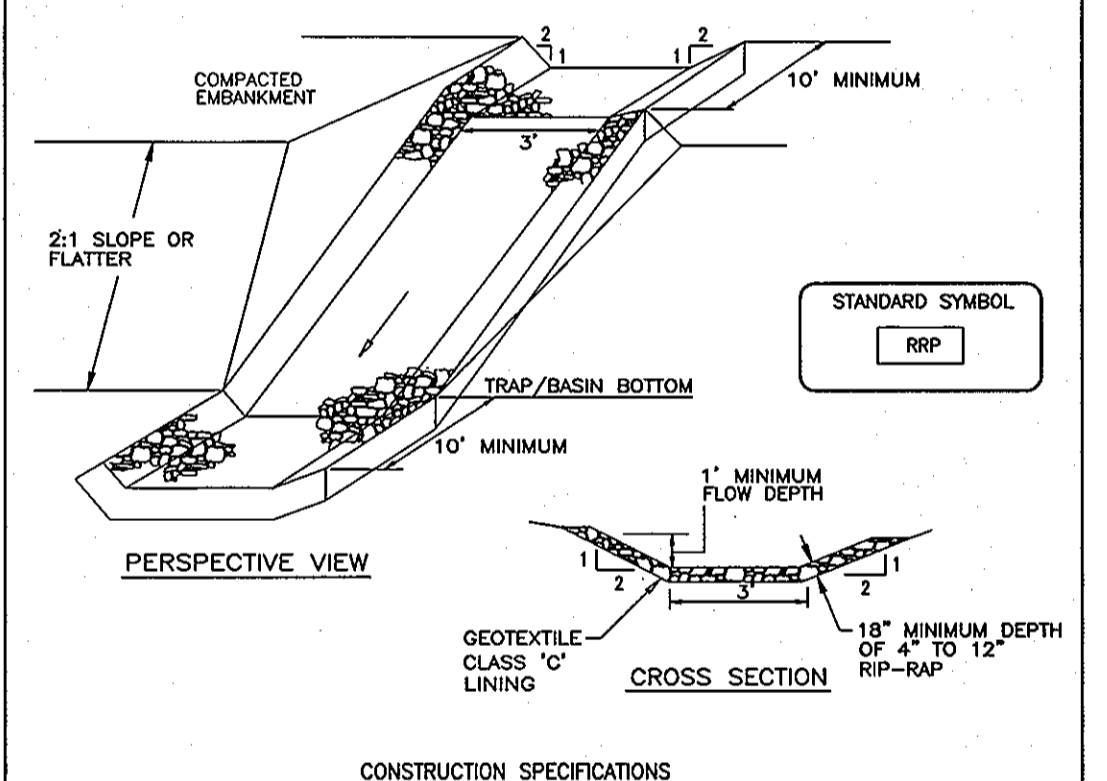
MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

### SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SO, TEMPORARY SEEDING, AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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.
- SITE ANALYSIS:**

TOTAL AREA	34.37 AC.
AREA DISTURBED	3.44 AC.
AREA TO BE REGRADED OR PAVED	3.75 AC.
AREA TO BE VEGETATIVELY STABILIZED	3.69 AC.
TOTAL CUT	5000 CU.
TOTAL FILL	5000 CU.
- 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 SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

### DETAIL 5 - RIP-RAP INFLOW PROTECTION



### STONE OUTLET SEDIMENT TRAP - ST II

- THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OF TRAPS SHALL CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS ABATED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED AND MULCH. POINTS OF CONCENTRATION INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE DURING THE LIFE OF THE TRAP.
- THE STRUCTURE SHALL BE DETERMINED BY APPROVED METHODS, REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- REFER TO SECTION D FOR SPECIFICATIONS CONCERNING TRAP DETERMINING.
- MINIMUM TRAP DEPTH SHALL BE MEASURED FROM WEIR ELEVATION.
- THE ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO THE TRAP MUST EQUAL OR EXCEED THE ELEVATION OF THE TRAP EMBANKMENT.
- GEOTEXTILE CLASS C SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO THE PLACEMENT OF STONE. SECTIONS OF FILTER CLOTH MUST OVERLAP AT LEAST 1' WITH THE SECTION NEAREST THE ENTRANCE PLACED ON TOP. THE FILTER CLOTH SHALL BE EMBEDDED AT LEAST 6" INTO EXISTING GROUND AT THE ENTRANCE OF THE OUTLET CHANNEL.
- OUTLET-AN OUTLET SHALL BE PROVIDED, INCLUDING A MEANS OF CONVEYING THE DISCHARGE IN AN EROSION FREE MANNER TO AN EXISTING STABLE CHANNEL.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE G-9-10 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**NOTES**

DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN HEREON.

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH:

- 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERMETER SLOPES SLOPES AND ALL SLOPES GREATER THAN 3:1.
- 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

### TEMPORARY SEEDING NOTES

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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 2 1/2 BUSHEL 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 1 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 SOO.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

### SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- CONTRACTOR STABILIZED CONSTRUCTION ENTRANCE, SEDIMENT TRAP 1, PERMETER SUPER SILT FENCE, EARTHDIKES AND CLEANWATER EARTHDIKES.
- WITH INSPECTOR'S APPROVAL CLEAR AND GRUB SITE TO 100.
- INSTALL WATER, SEWER AND STORM DRAIN AND BLOCK INLETS.
- GRADE ROAD TO SUB-BASE AND INSTALL CURB AND GUTTER.
- BEEN ROAD GRADING.
- AS PAVING IS COMPLETED, INSTALL SIDEWALK AND FINALIZE LOT GRADING.
- WITH INSPECTOR'S APPROVAL AND WITH ROAD PAVING COMPLETE REMOVE TRAP 1 AND STABILIZE REMAINING AREAS. UNLOCK INLETS.
- INSTALL STREET TREES

**DURATION**

5 DAYS
3 DAYS
2 WEEKS
1 MONTH
2 WEEKS
2 WEEKS
1 WEEK
2 DAYS

**NOTES**

- DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN HEREON.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH:
  - 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERMETER SLOPES SLOPES AND ALL SLOPES GREATER THAN 3:1.
  - 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William J. Mahala* 2-14-05  
CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Candy Kuntz* 2/14/05  
CHIEF, DIVISION OF LAND DEVELOPMENT

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*John H. Mahala* 2/14/05  
USDA NATURAL RESOURCES CONSERVATION SERVICE

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

*John H. Mahala* 2/14/05  
HOWARD SOIL CONSERVATION DISTRICT

**ENGINEERS CERTIFICATE**

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

*Robert H. Vogel* 2/14/05  
SIGNATURE OF ENGINEER  
ROBERT H. VOGEL

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A COURSE OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Robert H. Vogel* 2-1-05  
SIGNATURE OF DEVELOPER  
ROBERT H. VOGEL

**SEDIMENT AND EROSION CONTROL DETAILS**  
**WORTHINGTON FIELDS, PHASE 5**  
LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'  
A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-3', PHASE 4

TAX MAP 25 BLOCK 20 PARCEL P/O '98'  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
REF.: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
P-01-01, F-01-206 (PHASE 2), P-02-08, F-02-170 (PHASE 3),  
P-03-07, F-03-207 (PHASE 4), P-04-12

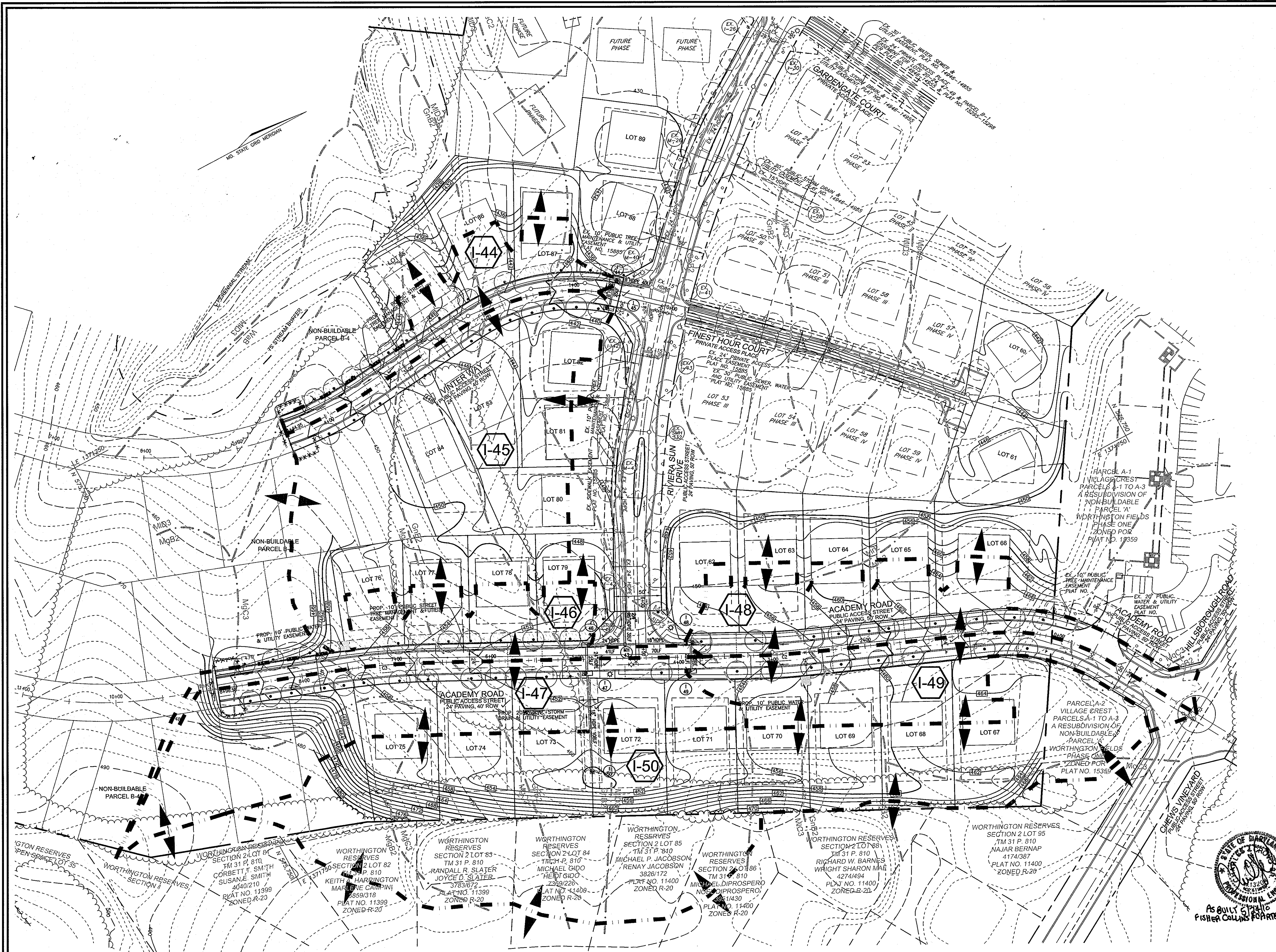
**OWNER**  
TAYLOR FAMILY LIMITED PARTNERSHIP B  
4100 COLLEGE AVE.  
ELLICOTT CITY, MARYLAND  
21043-5506

**DEVELOPER**  
NEW CUT ROAD DEVELOPMENT 2, INC.  
C/O LAND DESIGN & DEVELOPMENT, INC.  
8000 MAIN STREET  
ELLICOTT CITY, MARYLAND 21043  
ATTN: DONALD R. REUWER  
(410) 480-9105

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DESIGN BY: RHV  
DRAWN BY: CMH  
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5 SHEET OF 8



**LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF FLOW
- EXISTING TREES TO REMAIN
- SIGNS/LIGHT POLES
- PROPOSED STREET TREE
- SOILS
- PROP. PUBLIC STREET TREE MAINTENANCE & UTILITY EASEMENT
- PROP. PUBLIC UTILITY EASEMENT
- DRAINAGE DIVIDE

**STORM DRAIN DATA**

INLET NO.	AREA	'C' VALUE	ZONED	% IMPERV.
I-44	0.41 AC.	0.42	R-ED	45%
I-45	1.87 AC.	0.31	R-ED	35%
I-46	0.59 AC.	0.41	R-ED	45%
I-47	1.27 AC.	0.33	R-ED	37%
I-48	0.77 AC.	0.41	R-ED	43%
I-49	0.71 AC.	0.41	R-ED	43%
I-50	2.92 AC.	0.27	R-ED	30%

**SOILS LEGEND**

SYMBOL	SOILS NAME/DESCRIPTION	CLASS
GnB2	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
Mic3	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	B
MiB3	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	B
MpB2	MONTALTO SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
Mre	MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES	C/B
MgB2	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MgC3	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	B
MqC3	MONTALTO SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	C
ReC2	RELAY SILT LOAM, 3 TO 15 PERCENT SLOPES, MODERATELY ERODED	B

HOWARD COUNTY SOIL SURVEY MAP NO. 20

NO.	REVISION	DATE

**STORM DRAIN DRAINAGE AREA MAP**  
**WORTHINGTON FIELDS, PHASE 5**  
**LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'**  
**A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-3', PHASE 4**

TAX MAP 25 BLOCK 20 PARCEL P/O '98'  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 REF.: S-98-18, PB-366 (APP. 6/16/99), P-00-07, F-01-60 (PHASE 1),  
 P-01-01, F-01-206 (PHASE 2), P-02-08, F-02-170 (PHASE 3),  
 P-03-07, F-03-207 (PHASE 4), P-04-12

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**OWNER**  
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 4100 COLLEGE AVE. ELLICOTT CITY, MARYLAND 21043-5506

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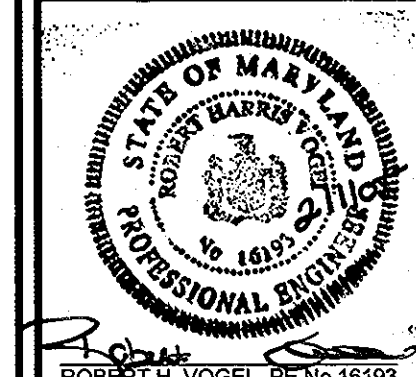
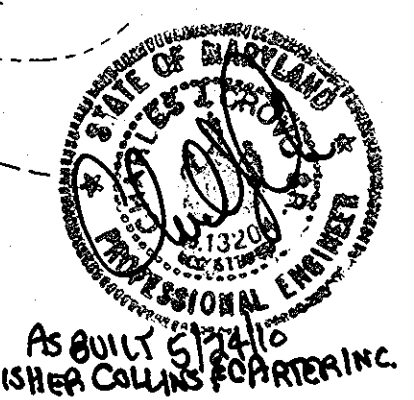
DESIGN BY: RHV  
 DRAWN BY: CMH  
 CHECKED BY: RHV  
 DATE: JANUARY, 2005  
 SCALE: 1"=50'  
 W.O. NO.: 00-11.00

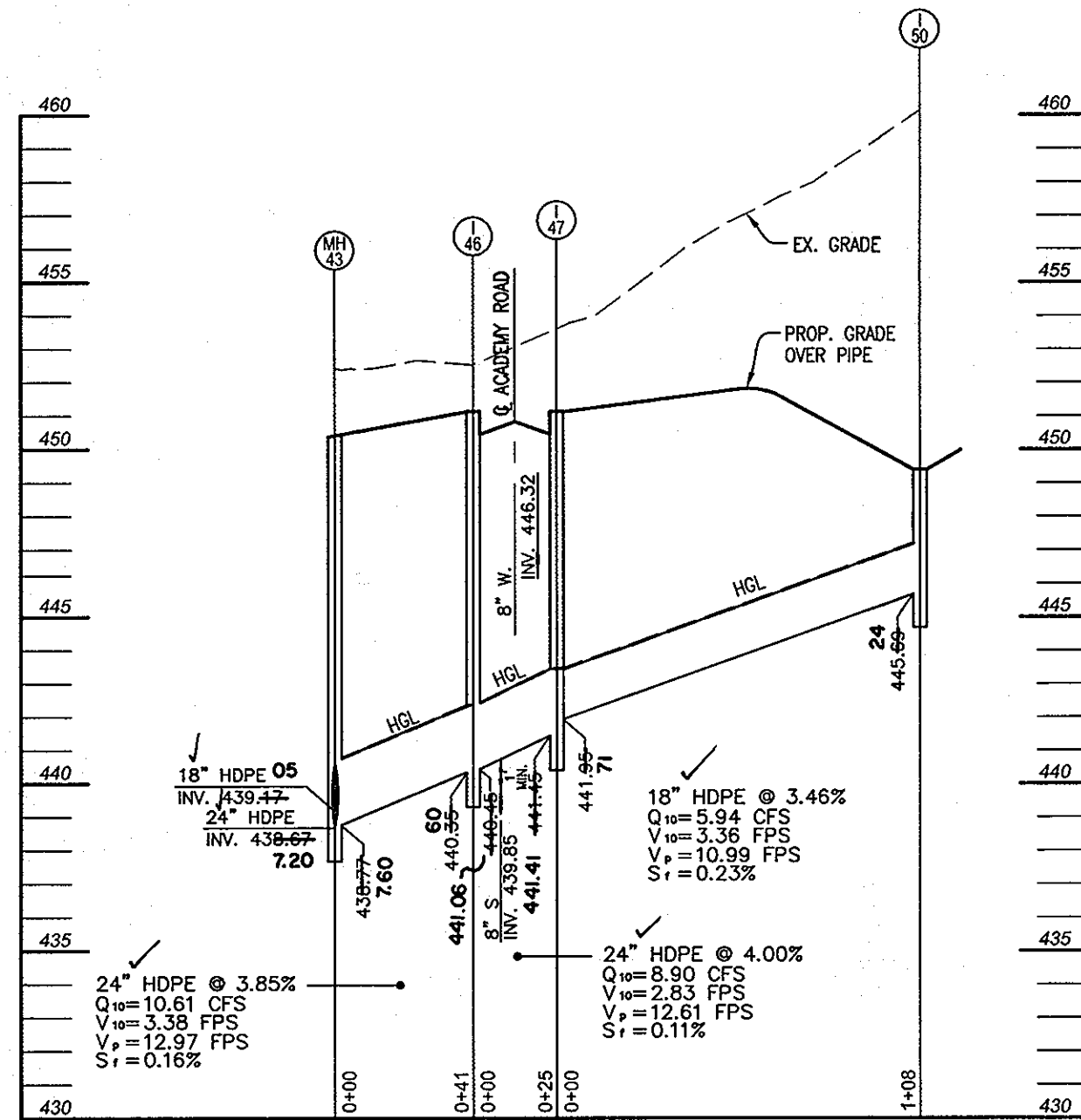
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*William J. Mahan* 2-14-05  
 CHIEF, BUREAU OF HIGHWAYS DATE

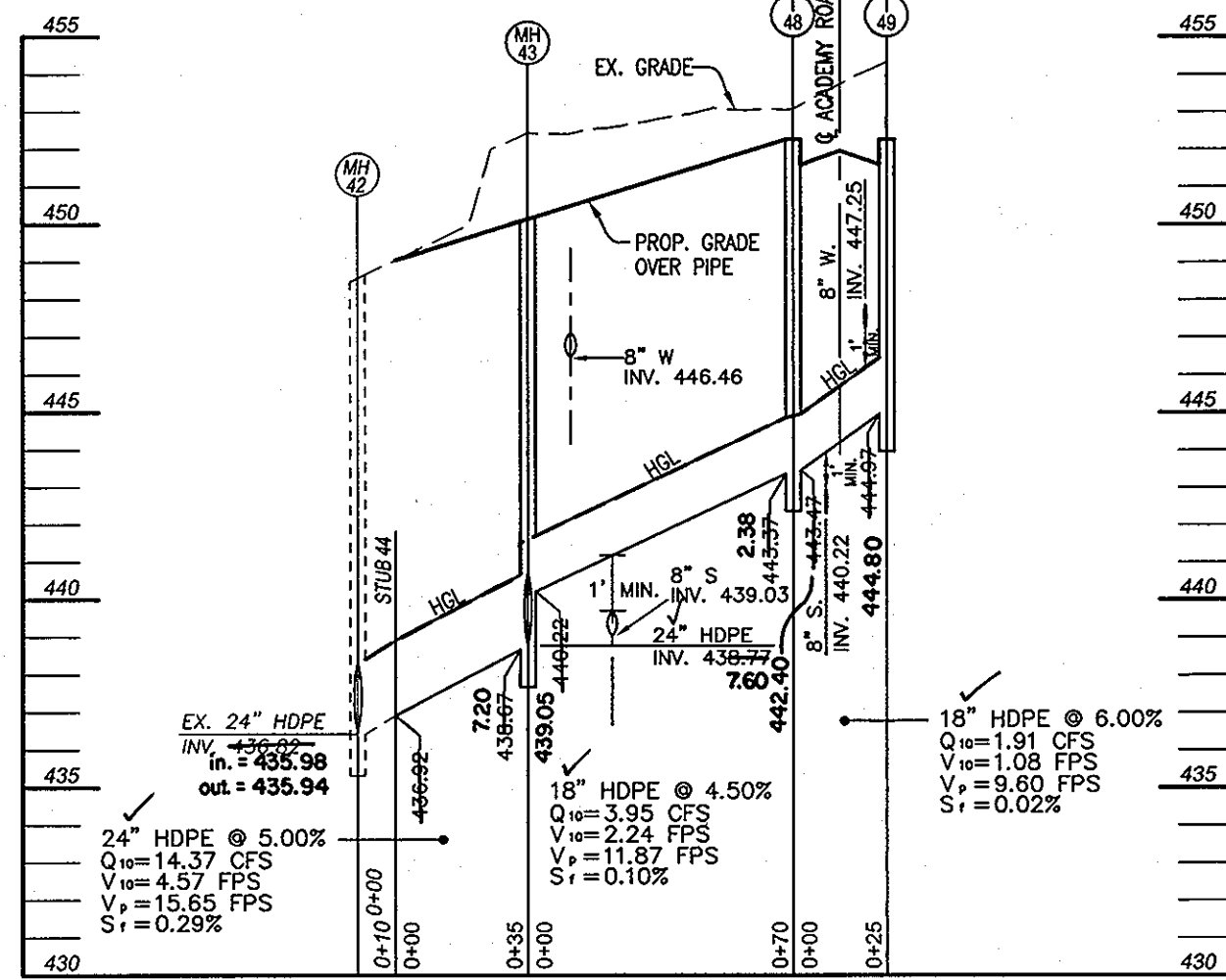
*David W. ...* 2/10/05  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MAR3 DATE

*Cindy Hamilton* 3/9/05  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

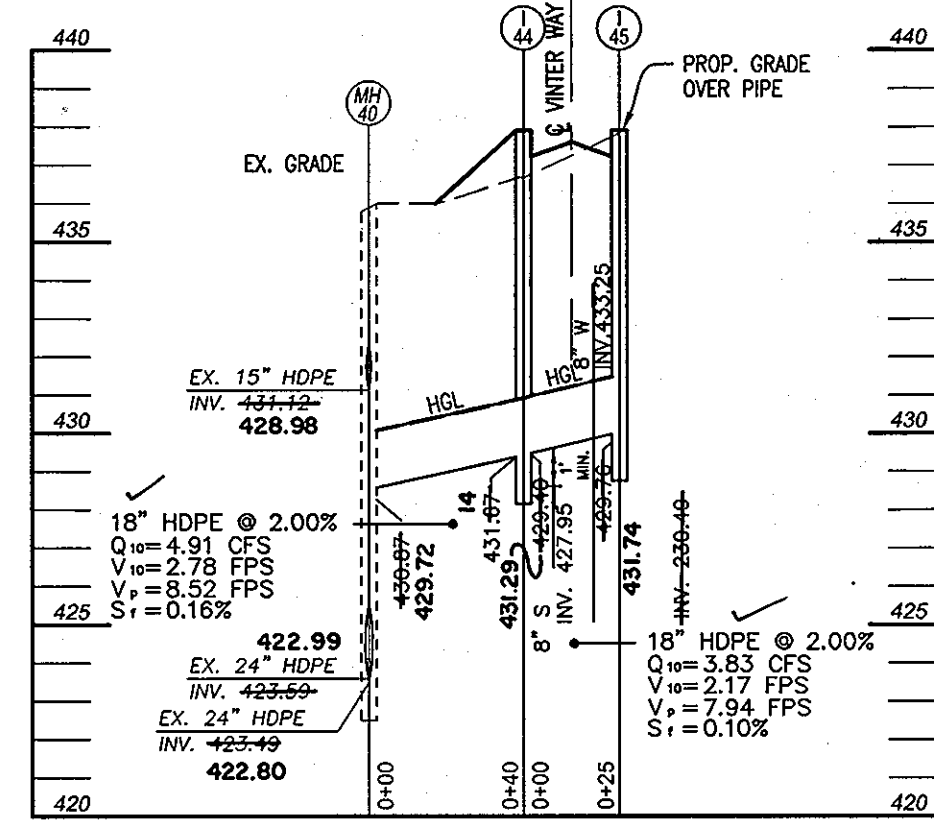




STORM DRAIN PROFILE  
SCALE: 1"=50' HORIZ.  
1"=5' VERT.



STORM DRAIN PROFILE  
SCALE: 1"=50' HORIZ.  
1"=5' VERT.



STORM DRAIN PROFILE  
SCALE: 1"=50' HORIZ.  
1"=5' VERT.

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	TOP ELEV.	INV IN	INV OUT	REMARKS
I-44	TYPE 'A'-10' INLET	CL STA. 0+57.97-12.43' RIGHT	437.23	18" 431.22	18" 431.69	SD 4.41
I-45	TYPE 'A'-10' INLET	CL STA. 0+57.97-12.43' LEFT	437.23	18" 436.69	18" 436.69	SD 4.41
I-46	TYPE 'A'-10' INLET	CL STA. 4+96.59-12.43' RIGHT	450.45	24" 448.14	24" 448.24	SD 4.41
I-47	TYPE 'A'-10' INLET	CL STA. 4+96.59-12.43' LEFT	450.45	18" 441.94	24" 441.41	SD 4.41
I-48	TYPE 'A'-10' INLET	CL STA. 3+85.42-12.43' RIGHT	441.30	18" 442.72	18" 443.32	SD 4.41
I-49	TYPE 'A'-10' INLET	CL STA. 3+85.42-12.43' LEFT	441.30	18" 444.62	18" 444.62	SD 4.41
I-50	TYPE 'D' INLET	N 576080.95, E 1371797.99	449.50	18" 445.69	18" 445.69	SD 4.39
M-43	STANDARD 5' MANHOLE	CL STA. 4+55.62-15.46' RIGHT	450.40	18" 439.44	24" 438.62	SD 4.40

\*ELEVATION AT THROAT OPENING  
NOTE:  
HDPE BEDDING SPECIFICATIONS ARE TO BE AS PER ASTM STANDARDS.

PIPE SCHEDULE		
PIPE SIZE	TYPE	TOTAL LENGTH
18"	HDPE	268 LF
24"	HDPE	101 LF

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*William Z. ...* 2-14-05  
CHIEF, BUREAU OF HIGHWAYS DATE

*...* 3/1/05  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE



OWNER  
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21043-5506

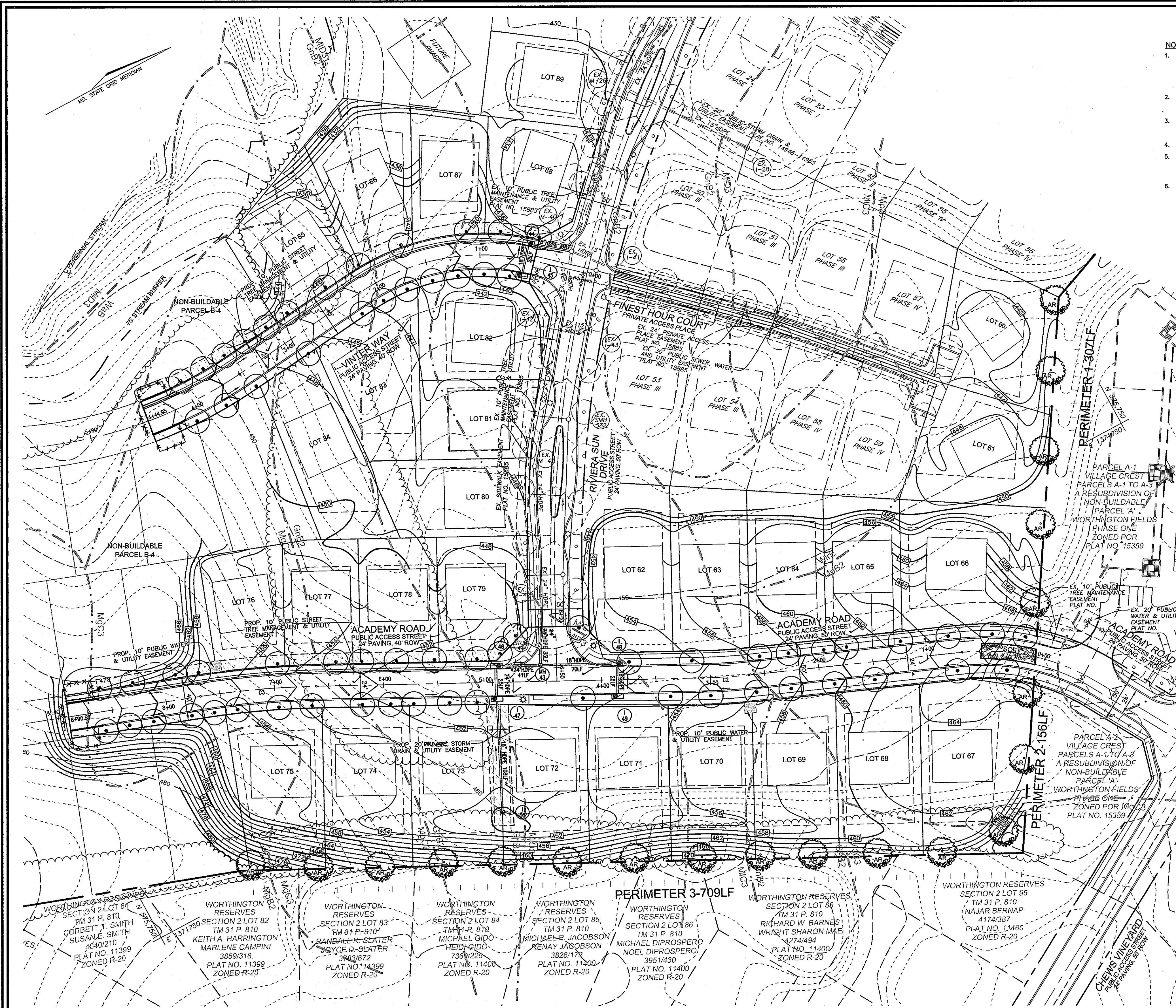
DEVELOPER  
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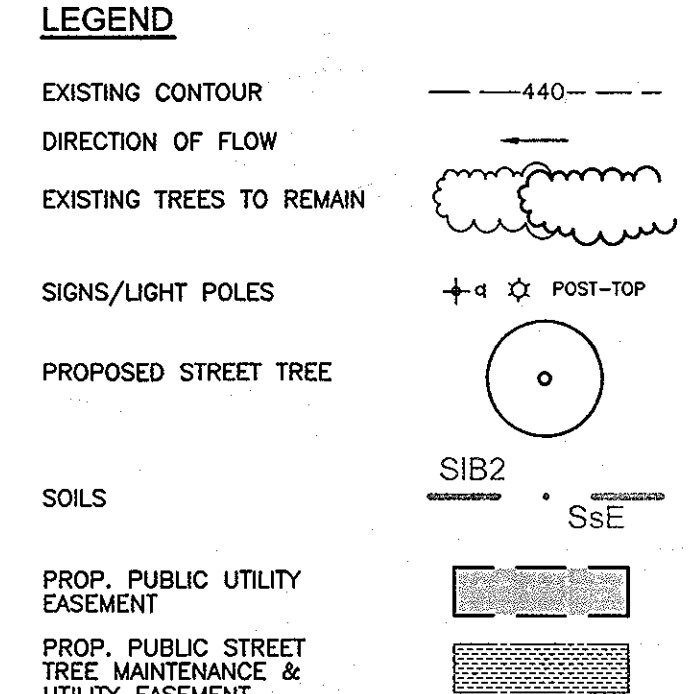
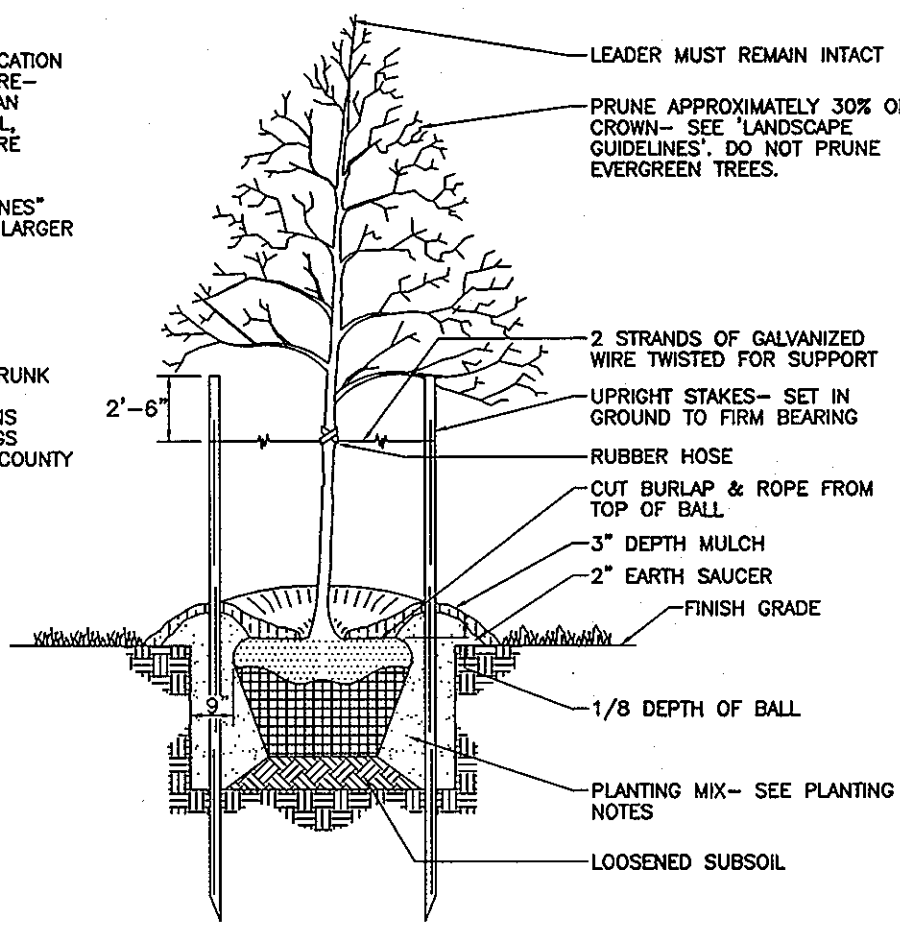
STORM DRAIN PROFILES  
WORTHINGTON FIELDS, PHASE 5  
LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'  
A RESUBDIVISION OF NON-BUILDABLE  
PARCEL 'B-3', PHASE 4  
TAX MAP 25 BLOCK 20 PARCEL P/O '98'  
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**ROBERT H. VOGEL**  
ENGINEERS • SURVEYORS • PLANNERS  
B407 MAIN STREET TEL: 410.461.7666  
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

DESIGN BY: RHV	
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DATE: JANUARY, 2005	
SCALE: AS SHOWN	
W.O. NO.: 00-11.00	7 SHEET OF 8



- NOTES**
- SEE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" FOR ALL MATERIAL, PRODUCT, AND PROCEDURE SPECIFICATIONS.
  - SEE "LANDSCAPE GUIDELINES" FOR SUPPORTING TREES LARGER THAN 2-1/2" CALIPER.
  - PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
  - KEEP MULCH 1" FROM TRUNK
  - SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
  - TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.



**PUBLIC ROAD STREET TREE SCHEDULE**

KEY	QUAN.	BOTANICAL NAME	SIZE	REM.
○	68	ACER RUBRUM 'AUTUMN FLAME'	2 1/2"-3" CAL.	B & B

**STREET TREE CALCULATIONS**

STREET NAME	LINEAR FEET	NO. REQUIRED	NO. PROVIDED
RIVIERA SUN DRIVE	PROVIDED UNDER F-02-170		
ACADEMY ROAD	1782/40	45	45
VINTER WAY	890/40	23	23

**SCHEDULE A: PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES		
	1	2	3
PERIMETER/FRONTAGE DESIGNATION	A	A	A
LINEAR FEET OF ROADWAY, PERIMETER/FRONTAGE	307'	156'	709'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	-	-	-
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	-	-	-
NUMBER OF PLANTS REQUIRED (IF REMAINING)	1:60 5	1:60 3	1:60 12
SHADE TREES	-	-	-
EVERGREEN TREES	-	-	-
NUMBER OF PLANTS PROVIDED	5	3	12
SHADE TREES	-	-	-
EVERGREEN TREES	-	-	-
OTHER TREES (2:1 SUBSTITUTION) (SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	-	-	-

**NOTE:** THE TYPE "B" PLANTING THAT IS REQUIRED BETWEEN THE SIDE OF THE HOUSE AND AN ADJACENT PUBLIC ROAD WILL BE PROVIDED ON THE FUTURE SITE DEVELOPMENT PLAN THAT IS REQUIRED FOR THE DEVELOPMENT OF THESE LOTS.

**LANDSCAPE SCHEDULE**

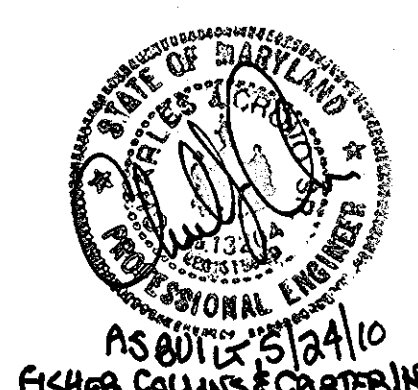
KEY	QUAN.	BOTANICAL NAME	SIZE	REM.
○	20	ACER RUBRUM 'OCTOBER GLORY' / OCTOBER GLORY RED MAPLE	2 1/2"-3" Cal.	B & B

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AMI SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH LANDSCAPE PLANTING SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL COVER.

**DEVELOPER'S AGREEMENT**

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING PROVIDED PER THE LANDSCAPE MANUAL TO BE POSTED WITH THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$6,000.00 FOR THE REQUIRED 20 SHADE TREES.

**NOTE:** A MINIMUM OF 20' IS REQUIRED BETWEEN ANY STREET LIGHT AND ANY TREE



**OWNER**  
TAYLOR FAMILY LIMITED PARTNERSHIP B  
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21043-5506

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3000 MAIN STREET  
ELLICOTT CITY, MARYLAND 21043  
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**LANDSCAPE PLAN**  
**WORTHINGTON FIELDS, PHASE 5**  
LOTS 60-89 AND NON-BUILDABLE PARCEL 'B-4'  
A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-3', PHASE 4

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NO.	REVISION	DATE

DESIGN BY: RHW  
DRAWN BY: CMH  
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8 SHEET OF 8

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William J. Mahoney* 2-14-05  
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Cindy Hamilton* 3/9/05  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

I CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN AND SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING

*Ronald L. Spaulin* 2-1-05  
OWNER/DEVELOPER DATE

**SOILS LEGEND**

SYMBOL	SOILS NAME/DESCRIPTION	CLASS
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MkC3	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	B
MkB3	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	B
MpB2	MONTALTO SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MfE	MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES	C/B
MgB2	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MgC3	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	B
MgC3	MONTALTO SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	C
RcC2	RELAY SILT LOAM, 3 TO 15 PERCENT SLOPES, MODERATELY ERODED	B

HOWARD COUNTY SOIL SURVEY MAP NO. 20