OWNER/DEVELOPER

BONNIE BRANCH CORPORATION

P.O.BOX 396

ELLICOTT CITY, MD 21043

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION 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 SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

EWED FOR THE HOWARD SOIL CONSERVATION

Bun Jayl Pres

Bruce Taylor, Pres

SIGNATURE OF DEVELOPER

ROAD CONSTRUCTION PLANS AUTUMN VIEW SECTION 5, PHASE 3 LOT 301 THRU 335 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

Phase 8 AUTUMN VIEW SECTION 4 SECTION 4 AUTUMN VIEW SECTION 2 AUTUMN VIEW SECTION 1 AUTUMN VIEW SECTION 1

VICINITY MAP

SCALE: 1'=500'

AREA OF BULK PARCEL "A": 4.32 AC \pm *GROSS AREA OF PHASE 4 (INCLUDING PARCEL "A"): 23.41 AC \pm SECTION 5 SUMMARY

TOTAL NUMBER OF BUILDABEL LOTS/UNITS ALLOWED: 178
TOTAL NUMBER OF BUILDABLE LOTS/UNITS —PHASE 1—PROPOSED: 46
TOTAL NUMBER OF BUILDABLE LOTS/UNITS —PHASE 2—PROPOSED: 36
TOTAL NUMBER OF BUILDABLE LOTS/UNITS —PHASE 3—PROPOSED: 34
TOTAL NUMBER OF BUILDABLE LOTS/UNITS REMAIN: 62

**CREDIT OF 1,500 S.F. OF RECREATIONAL OPEN SPACE WILL BE
APPLIED TO FUTURE PHASES OF SECTION 5.

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:

MISS UTILITY
C&P TELEPHONE COMPANY
HOWARD COUNTY BUREAU OF UTILITIES
AT&T CABLE LOCATION DIVISION
BALTIMORE GAS & ELECTRIC
STATE HIGHWAY ADMINISTRATION
HOWARD COUNTY DEPT. OF PUBLIC WORKS/

1-800-257-7777 (410) 725-9976 (410) 313-4900 (410) 393-3533 (410) 685-0123 (410) 531-5533

(410) 313-1880

PROJECT BACKGROUND:

LOCATION: TAX MAP 25 &31, P/O PARCEL 75
ZONING: R-ED
ELECTION DISTRICT: 2ND

CONSTRUCTION INSPECTION DIVISION

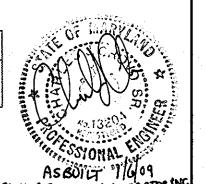
SECTION: 5
PHASE: 3
DPZ FILES: S-99-01 APPROVED 7/1/99, PB 329

P-01-08 APPROVED 1/26/01.

- TOPOGRAPHIC INFORMATION ARE BASED ON AERIAL TOPOGRAPHIC SURVEY BY WINGS AERIAL MAPPING CO., INC. FLOWN ON MARCH 25, 1995. VERTICAL DATUM IS NAD 83.
- COORDINATES BASED ON NAD'83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 3147 AND 3148.

 √STA. 3147 N575598.0794, E137581.7684 EL.335.987
 √STA. 3148 N576015.4313 E1375770.4364 EL.379.248
- 7. BOUNDARY INFORMATION IS BASED ON MONUMENTED FIELD RUN SURVEY BY MILDENBERG, BOENDER AND ASSOC., INC. PERFORMED IN OR ABOUT MAY, 2000.
- 8. STORMWATER MANAGEMENT CONTROL HAS BEEN PROVIDED UNDER PHASE 2 (F-01-38). STORMWATER MANAGEMENT IS PRIVATELY OWNED AND MAINTAINED.
- HOUSES NOT CONTROLLED BY THE SWM PONDS TO HAVE DRY WELLS AT SDP STAGE. SEE DETAIL ON SHEET 4 OF 5.
- 10. NO WETLANDS EXISTS ON THIS SITE.
- 11. NO FLOODPLAIN EXISTS ON THIS SITE.12. DEED REFERENCE: P/O PARCEL 75, L. 5105 F. 652.
- 13. NO CEMETERIES OR HISTORIC STRUCTURES EXIST ON SITE.
- 14. ALL EXISTING STRUCTURES AND DRIVEWAYS ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
- 15. TRAFFIC STUDY BY TRAFFIC GROUP, DATED JUNE 4, 1998. APPROVED AUGUST 20, 1999.
- 16. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. WATER AND SEWER ARE PUBLIC WATER CONTRACT NO. 266-W. SEWER PROVIDED VIA PROPOSED PUMP STATION.
- 17. PROPOSED WATER AND SEWER ARE PUBLIC, CONTRACT # 14-3974-D.
- 18. P.B. CASE NO. 329, APPROVED ON JULY 1, 1999. PB 354 APPROVED 01/10/02
- 19. ALL LOTS WILL HAVE A MINIMUM OF 2 ON-SITE PARKING SPACES. NO STREET PARKING SPACES ARE REQUIRED.
- 20. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL HAVE BEEN SATISFIED BY PLACEMENT OF A TOTAL OF 62.67 ACRES IN A FOREST CONSERVATION EASEMENT (41.22 ACREAS OF RETENTION UNDER AUTUMN VIEW, SECTION 3 (F-99-45) 7.59 ACRES OF RETENTION UNDER AUTUMN VIEW, SECTION 5, PHASE 1 (F-01-23), AND 13.96 ACRES OF RETENTION UNDER AUTUMN VIEW, SECTION 5, PHASE 2 (F-01-38). 50.13 ACRES OF WHICH IS THE REQUIRED BREAK EVEN POINT FOR THE ACREAGE OF AUTUMN VIEW, SECTIONS 3, 4, AND 5 (PHASE 1 & 2). THE REMAINING 12.54 ACRES IS TO BE CREDITED TOWARD THE FUTURE PHASES OF
- 21. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 22. COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.
- 23. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- 24. ALL DRIVEWAYS ENTRANCES TO BE H.C.STD. R-6.03 UNLESS OTHERWISED NOTED.
- 25. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, WETLANDS BUFFER, FLOODPLAIN, FOREST CONSERVATION EASEMENTS, OR STREAM BUFFER AREAS EXCEPT AS SHOWN ON APPROVED PLANS.
- 26. 8,500 S.F. OF PREVIOUSLY CREDITED 19,500 S.F. OF OPEN SPACE (SEE SECTION 5, PHASE 2, F-01-38) WILL BE CREDITED TO THIS PHASE. REMAINING 1,500 S.F. OF OPEN SPCE WILL BE APPLIED TO FUTURE PHASES OF SECTION 5.
- 27. STREET LIGHTS WILL BE REQUIRED IN THIS DEVELOPMENT IN ACCORDANCE WITH THE DESIGN MANUAL STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SELECTED SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III(1993) AND AS MODIFIED BY GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 2993) THE JUNE 1993 POLICY INCLUDES GUIDELINES FOR LATERAL AND LONGITUDINAL PLACEMENT. A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- 28. THE STREET LIGHT LOCATIONS AND TYPES OF LIGHTS ARE AS FOLLOWS

STREET NAME	STATION	OFFSET	FIXTURE/POLE TYPE
OLD VALLEY COURT	2+59	47' R	100 watt HPS VAPOR COLINIAL POST-TOP MOUNTED ON A 14' FIBERGLASS POLE



AREA TABULATION:

	EXISTING SECTION 3	SECTION 4	SECTION 5	SECTION 3, 4 & 5	SECTION 5 PHASE 1	SECTION 5 PHASE 2	SECTION 5 PHASE 3
GROSS AREA:	87.39 AC ±	19.08 AC ±	84.91 AC ±	191.39 AC ±	31.15 AC ±	29.87 AC ±	6.87 AC ±
AREA OF STEEP SLOPES:	13.20 AC, ±	2.05 AC. ±	11.44 AC ±	26.69 AC ±	6.28 AC ±	5.16 AC ±	0
AREA OF FLOODPLAIN:	6.19 AC ±	0	2.03 AC ±	8.22 AC ±	0.90 AC ±	0.67 AC ±	0
NET AREA:	68.00 AC ±	17.03 AC ±	71.44 AC ±	156.48 AC ±	23.97 AC ±	24.04 AC ±	6.87 AC ±
AREA OF PROPOSED BUILDABLE LOTS SFD:	16.46 AC ±	14.39 AC ±	32.64 AC ±	63.27 AC ±	9.93 AC ±	7.26 AC ±	5.88 AC ±
AREA OF PROPOSED BUILDABLE LOTS SFA:	0	- 0	1.12 AC ±	1.12 AC ±	0	0	0.40 AC ±
TOTAL AREA OF PROPOSED BUILDABLE LOTS:	16.46 AC ±	14.39 AC ±	33.76 AC ±	64.39 AC ±	9.93 AC ±	7.26 AC ±	6.28 AC ±
AREA OF PROPOSED ROAD (R/W):	6.11 AC ±	2.12 AC ±	7.62 AC ±	16.53 AC ±	2.75 AC ±	2.51 AC ±	0.36 AC ±
REQUIRED OPEN SPACE (25% OF GROSS AREA):	21.85 AC ±	4.77 AC ±	21.23 AC ±	47.85 AC ±	7.89 AC ±	7.47 AC ±	1.72 AC ±
PROVIDED OPEN SPACE:	60.50 AC ±	6.89 AC ±	41.67 AC ±	108.91 AC ±	18.47 AC ±	20.10 AC ±	0.24 AC ±
NON CREDITED OPEN SPACE:	0.06 AC ±	0.08 AC ±	0.20 AC ±	0.34 AC ±	0.093 AC±	0.06 AC ±	0.07 AC ±
CREDITED OPEN SPACE:	60.44 AC ±	6.81 AC ±	41.47 AC ±	108.54 AC ±	18.38 AC ±	20.04 AC ±	0.17 AC ±
REQUIRED RECREATIONAL OPEN SPACE (250 S.F. PER LOT):		14,250 S.F.	44,500 S.F.	61,750 S.F.	11,500 S.F.	9,500 S.F.	8,500 S.F.
PROVIDED RECREATIONAL OPEN SPACE:	18,000 S.F.	14,250 S.F.	44,500 S.F.	67,750 S.F.	15,000 S.F.	19,500 S.F.	0**
NUMBER OF BUILDABLE LOTS ALLOWED (NET AREA x 2):	136	34	142	312	47	48	13
NUMBER OF PROPOSED BUILDABLE LOTS (SFD):	72	56	156	284	46	38	27
NUMBER OF PROPOSED BUILDABLE LOTS (SFA):	0	0	22	22	0	0	7
NUMBER OF PROPOSED BUILDABLE LOTS:	72	56	178	306	46	38	34
NUMBER OF PROPOSED OPEN SPACE LOTS:	4	3	7	13	3	- 3	1
NUMBER OF BULK PARCELS:	1	0	0	. 1	0	0	0
TOTAL NUMBER OF PROPOSED LOTS:	. 76	59	185	321	49	41	35

1 of 5 F-01-192

AS BUILT

description dat

1 REVIOIONS RER ROAD AS descrip

301-335 1; P/O PARCEL 75 HOWARD COUNTY,

> TAX MAP 26 ND ELECTION DISTRICT

ASSOC., INC.

s Surveyors

Ellicott City, Maryland 21042

VDER & ASS

rers Planners Surves

Drive, Suite 202, Ellicott City,

(301) 621-5521 Wash. (4

| MILDE'N BOEND!
| BOEND!
| Engineers
| 5072 Dorsey Hall Drive,

1 of 5

CURVE TABLE
 CURVE
 RADIUS
 LENGTH
 TANGENT
 CHORD
 \$60°46'39"W
 DELTA

 C1
 50.00'
 26.18'
 13.40'
 25.88'
 \$44°54'08"E
 30°00'00"

 C2
 50.00'
 26.18'
 13.40'
 25.88'
 N44°54'08"W
 30°00'00"
 LIMIT OF CONSTRUCTION COURT STA.0+90 LOT 307 LOT 308 "OLD VALLEY COURT" PLAN VIEW
SCALE: 1"=50" HIGH POINT ELEV = 454.75 **23**HIGH POINT STA = 1+43.54
PVI STA = 1+43.54
PVI ELEV = 457.75
A.D. = -12.00 40'- RIGHT OF WAY (R/W) K = 16.67LIMIT OF EX. PHASE 2 — EXIST. GROUND @ LEFT BRL PROPOSED GRADE @ FLOW LINE-EXIST GROUND @ CENTERLINE TYPICAL ROADWAY SECTION CLASSIFICATION: ACCESS PLACE

DESIGN SPEED: 15 MPH

SECTION NOT TO SCALE EXIST GROUND-LIMIT OF CONSTRUCTION STA. 0+90.00

"OLD VALLEY COURT" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'
CLASSIFICATION: ACCESS PLACE
DESIGN SPEED: 15 MPH

OWNER/DEVELOPER

BONNIE BRANCH, CORPORATION P.O.BOX. 396 ELLICCOT CITY, MD 21041

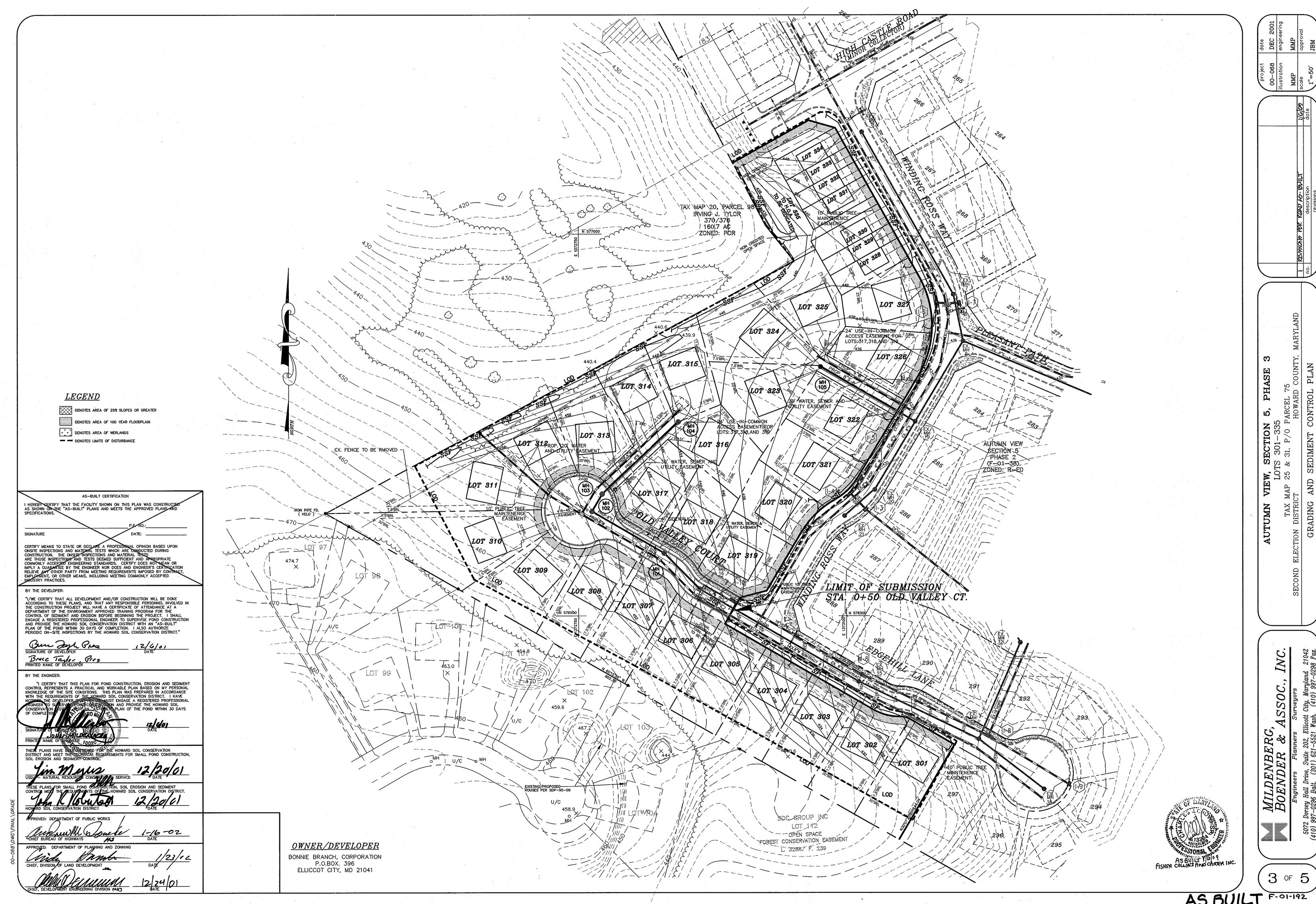
CHIEF, DEVELOPMENT ENGINEERING DISTON MAS DATE

"OLD VALLEY COURT" LINEAR PROFILE

SCALE: HOR. 1"=50' VER. 1"=5'

ASBUILT

2 of 5 F-01-192



AS BUILT F-01-192

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING 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 ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY

ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE

400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).

SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FÉSCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD. OPTION (3) -SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE WELL ANCHORED STRAW. MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL 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.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR 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 OCTOBER 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 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRÉ OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE

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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT (INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF NAY
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER 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 PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 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.
- 6) 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.

7) SITE ANALYSIS: TOTAL AREA OF SITE: AREA DISTURBED: _ ACRES AREA TO BE ROOFED OR PAVED: AREA TO BE VEGITATIVELY STABILIZED: ___ __ ACRES CU. YDS. TOTAL WASTE/BORROW AREA LOCATION: (NOT REQUIRED)

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS. 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF

UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

SEDIMENT CONTROL INSPECTOR.

ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY AS-BUILT CERTIFICATION HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AN CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ONSITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ONSITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR IMPLY A GUADANTEE BY THE ENGINEER NOR DOES AND ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED BY THE DEVELOPER: "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION 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 SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT. Brue Dayh Pres SIGNATURE OF DEVELOPER Bruce Toylor , Pres PRINTED NAME OF DEVELOPER BY THE ENGINEER: "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMEN" CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL AGE A REGISTERED PROFESSIONAL THE POND WITHIN 30 DAYS THESE PLANS HAVE BEEN REVIEWED FOR WHE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION,

10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL

11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER. STANDARD AND SPECIFICATIONS FOR TOPSOIL

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

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE 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: a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE
- b. 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.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- d. 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.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATION. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

- TOPSOIL SPECIFICATIONS SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
- TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CON-TRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN
- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING
- III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - FLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION : - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
- i. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
- o. ph for topsoils shall be between 6.0 and 7.5. If the tested soil demonstrates a ph of LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE pH TO 6.5 OR HIGHER.
- b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
- c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
- d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL

- ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE TOPSOIL APPLLICATION
- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS. GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
- ii. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.
- TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- iv. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER
- ALTERNATIVE FOR PERMANENT SEEDING INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
- COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
- b. COMPOSTED SLUDGE SHALL CONTAIN AT LEASE 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOURUS, AND 0.2 PERCENT POTASSIUM AND HAVE A Ph OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
- iv. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILLIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE

c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

OWNER/DEVELOPER

BONNIE BRANCH CORPORATION P.O.BOX 396 ELLICOTT CITY, MD 21043

TEMPORARY DUST CONTROL MEASURES

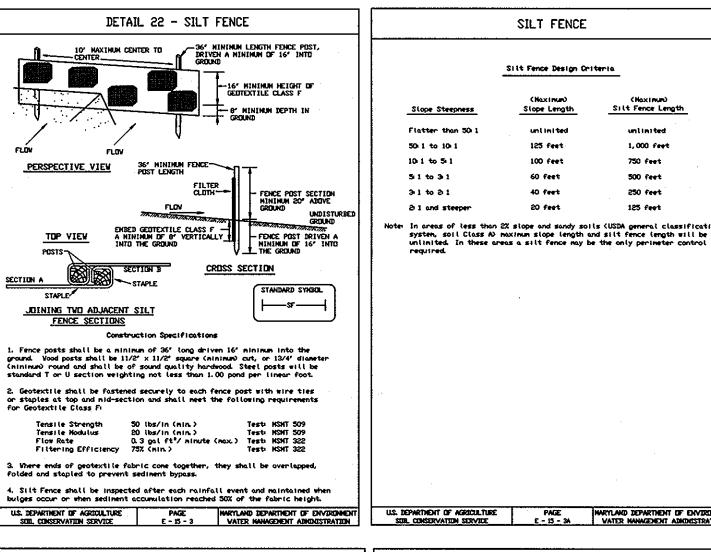
- 1. MULCHES SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- 2. VEGETATIVE COVER SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER. . TILLAGE - TO ROUGHTN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN
- PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS APCED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- 4. IRRIGATION THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.

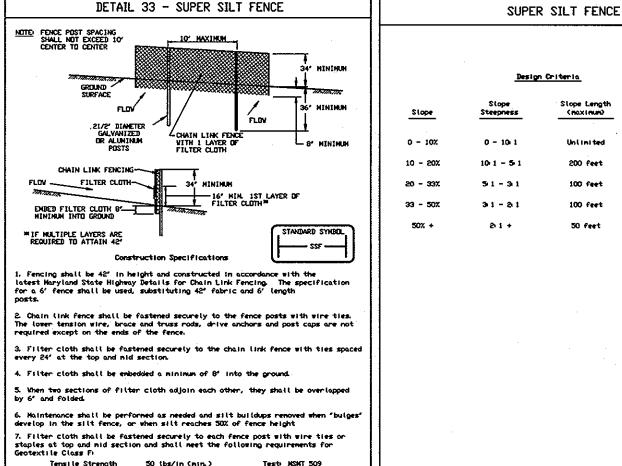
5. BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALT OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL

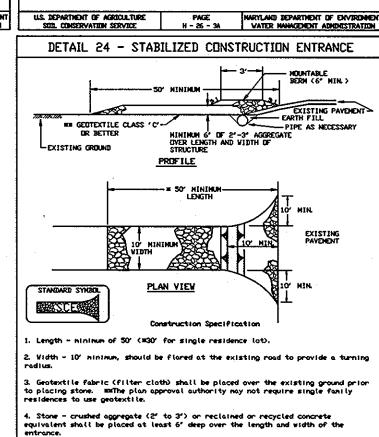
6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM AT LOCATION INDICATED. (1 DAY)
- 3. CONSTRUCT SILT FENCES, SUPER SILT FENCES AND TREE PROTECTION FENCES (4 DAYS)
- 4. AFTER RECEIVING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, CLEAR SITE PER LIMITS INDICATED. (30 DAYS)
- 5, BRING SITE TO GRADE INDICATED ON THE PLANS. (20 DAYS)
- 6. CONSTRUCT PAVEMENT AND CURB AND GUTTER AS INDICATED. (10 DAYS)
- 7. PERMANENTLY STABILIZE REMAINING DISTURBED AREAS. (10 DAYS)
- 8. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILZE REMAINING DISTURBED
- 9. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. 7 CALENDAR DAYS FOR ALL PERIMETER SLOPES AND ALL SLOPES GREATER
 - B. 14 CALENDER DAYS FOR ALL OTHER DISTURBED AREAS ON THE SITE







Countrain

Unlinited

1,500 feet

1,000 feet

500 feet

Unlinited

200 feet

100 feet

5. Surface Vater — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, naintaining positive drainage. Prinstalled through the stabilized construction entrance shall be protected with a nountable bern with \$1 slopes and a minimum of or or state or protected with a nountable bern with \$1 slopes and a minimum of o' of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6' minimum will be required. 6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leav the site must travel over the entire length of the stabilized construction entr

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4 OF ASBUILT

Tensile Strength Tensile Modulus Flow Rate -ROOF LEADER

HARYLAND DEPARTMENT OF ENVIRONMENT VATER HANGEMENT ADMINISTRATION --- LEAF SCREEN -CAP W/LOCK -SURCHARGE PIPE PERFORATED PVC PIPE W/CAP PERFORATION AREA ----SPLASH BLOCK 5xPIPE AREA ASHA CLASS "C") -BUILDING FOUNDATION <u>4'x4'x4' DRY WELL</u> TYP. DETAIL

LOTS: 313 THRU 316 AND 329 THRU 335

DRY WELL ARE TO BE PROVIDED AT EACH DOWNSPOUT DRAINING AWAY FROM THE ROAD

9 ONT. AND SEDIMEN AND

TY, MARYI DETAILS

75 COUN AND

D ELECTION EROSION

