SITE ANALYSIS DATA CHART

1. General Site Data

a. Present Zoning: MXD-3 b. Applicable DPZ File References: F-04-53, F-05-93, W/5 24-4120 D. 5-99-12, F-03-175, F-03-13, 2B-979-M, F-05-49, PB-339, PB-359, F-01-127, P-03-16 WP-01-14, WP-03-154, WP-05-24, F-07-138, WP-08-41 .

SHEET INDEX

FINAL PLAN COVER SHEET

FOREST CONSERVATION PLAN

FOREST CONSERVATION PLAN

FOREST CONSERVATION PLAN

FCP NOTES AND DETAILS

DESCRIPTION

COMPOSITE FOREST CONSERVATION EASEMENT SHEET

LEGEND

man and a second control of the second contr

30% ----

------ 100 YR. FLOODPLAIN

----- 25' WETLAND BUFFER

---- LIMIT OF WETLANDS

PROPOSED ROAD

EX EDGE OF ROAD

EXISTING CONTOURS

PERENNIAL STREAM

EXISTING TREE LINE

- c. Proposed Use of Site or Structure(s): OPEN SPACE
- d. Proposed Water and Sewer Systems are: public
- e. Any Other Information Which May be Relevant: _

2. Area Tabulation

- a. Total Project Area: b. Area of This Plan Submission: 52.41 Acres c. Limit of Disturbed Area:
- d. Area of 100-year Flood Plain: 51.129 Acres
- 3. Site Program

c. Limit of Open Space:

- a. Number of Units: N/A b. Number of open space lots: ___N/ c. Parking Spaces Required: ____
- d. Parking Spaces Provided: __ Garage and Driveway: NIA

GENERAL NOTES

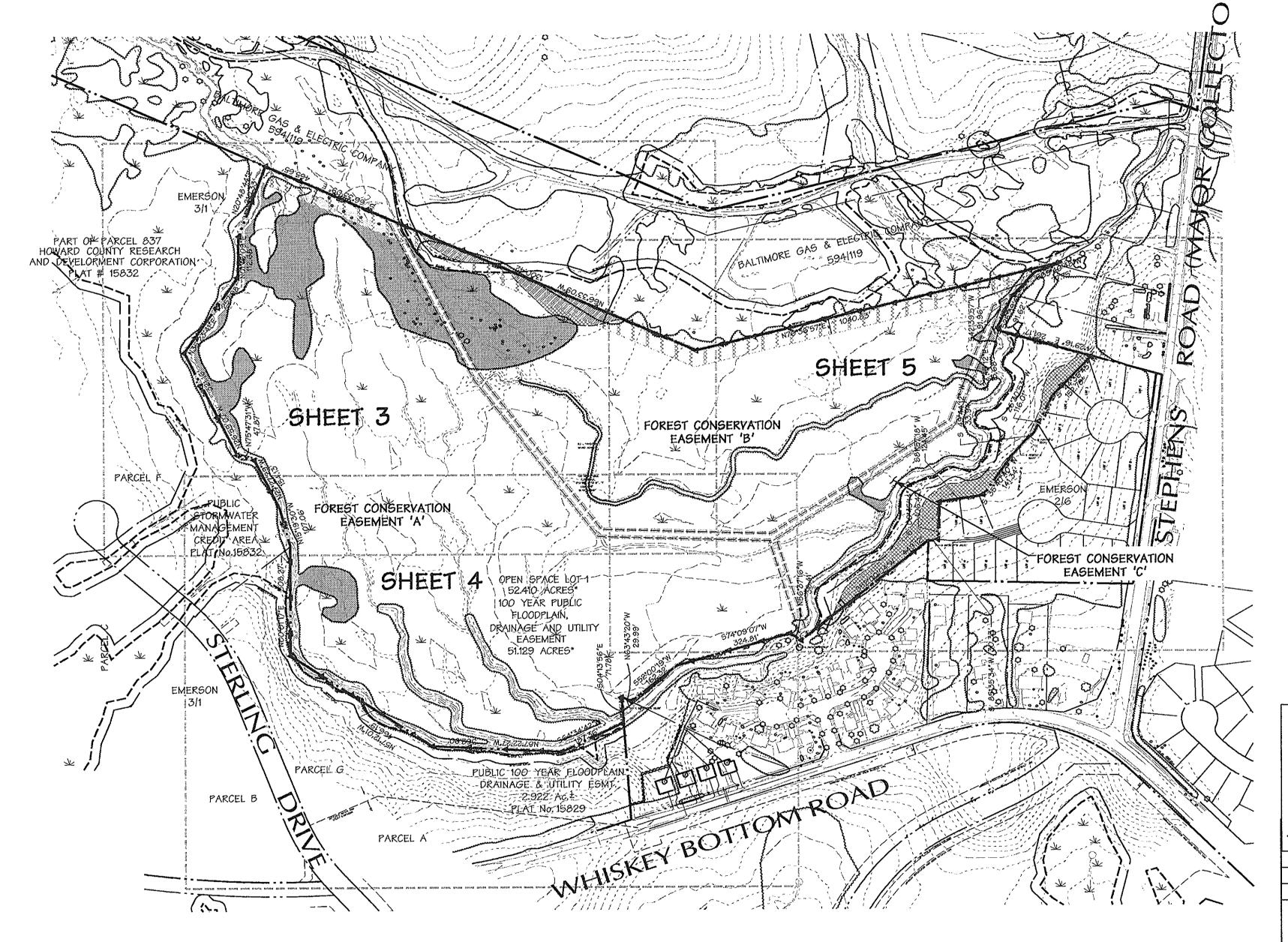
- 1. THE EXISTING TOPOGRAPHY IS TAKEN FROM F-04-53 GRADING PLAN AND
- SUPPLEMENTED BY FIELD SURVEY BY DMW DATED JAN. 17, 2006. 2. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT 47G2 AND 47E4 WERE USED FOR THIS PROJECT.
- 3. EXISTING UTILITIES ARE BASED ON CONTRACT NO. 24-4120-D AND F-04-53 PLANS 4. THIS PHASE OF THE EMERSON PROJECT COMPLIES WITH SECTION 16.1200 OF THE
- HOWARD COUNTY CODE FOR FOREST CONSERVATION BY RETAINING 0.90 ACRES OF EXISTING FOREST AND PROVIDING 4.50± ACRES OF REFORESTATION. WHEN EVALUATED CUMULATIVELY WITH PREVIOUS PHASES OF THE PROJECT, 71.14+ ACRES OF FOREST HAVE BEEN CLEARED, 55.58 ACRES HAVE BEEN RETAINED, AND 20.56 ACRES HAVE BEEN REFORESTED. THE CUMULATIVE REFORESTATION OBLIGATION IS 13.50 ACRES.
- 5. THERE ARE NO EXISTING STRUCTURES ON THE SITE.
- 6. DEPARTMENT OF PLANNING AND ZONING REFERENCE FILE NUMBERS: WP-08-41, F-04-53, F-05-93, W/S 24-4120-D, S-99-12, ZB-979-M,
- F-05-49, PB-339, PB-359, F-01-127, P-03-16, WP-01-14, WP-03-154, WP-05-24, F-07-138. 7. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 8. NO IMPROVEMENTS SHALL BE CONSTRUCTED OR PLACED WITHIN THE PUBLIC WATER AND UTILITY EASEMENT THAT WILL IMPEDE OR HINDER ACCESS TO THE WATER MAIN.
- REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE
- 10. RESERVATION OF PUBLIC UTILITY AND FOREST CONSERVATION EASEMENTS DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAN FOR WATER SEWER STORM DRAINAGE, OTHER PUBLIC UTILITIES AND FOREST CONSERVATION (DESIGNATED AS "FOREST CONSERVATION AREA"), LOCATED IN. ON. OVER AND THROUGH LOTS/PARCELS, ANY CONVEYANCES OF THE AFORESAID LOTS/ PARCELS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOTS/PARCELS. DEVELOPER SHALL EXECUTE AND DELIYER DEEDS FOR THE EASEMENTS HEREIN RESERVED TO HOWARD COUNTY WITH A METES AND BOUNDS DESCRIPTION OF THE FOREST CONSERVATION AREA. UPON COMPLETION OF THE PUBLIC UTILITIES ANT THEIR ACCEPTANCE BY HOWARD COUNTY. AND IN THE CASE OF THE FOREST CONSERVATION EASEMENT(S), UPON THE COMPLETION OF THE DEVELOPER'S OBLIGATIONS UNDER THE FOREST CONSERVATION INSTALLATION AND MAINTENANCE AGREEMENT EXECUTED BY THE DEVELOPER AND THE COUNTY, AND THE RELEASE OF DEVELOPER'S SURETY POSTED WITH SAID AGREEMENT, THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED(S) OF EASEMENT IN THE LAND RECORDS
- OF HOWARD COUNTY. 11. THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY HOWARD COUNTY FOR THE HAMMOND BRANCH, DATED 1986.
- 12 OPEN SPACE TO BE DEDICATED TO HOWARD COUNTY, MARYLAND.
- 13. THE WETLANDS AND STREAM DELINEATION FOR THIS PROJECT WAS PREPARED BY DMW, INC DATED MARCH 28, 2000. THE EXISTING WETLANDS SHOWN HEREON WILL NOT BY IMPACTED BY THIS PLAN. 14. REF WP-08-41 APPROVED FEBRUARY 1, 2008, TO WAIVE SECTIONS 16,146 AND
- 16.121 (e) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SUBJECT TO THE FOLLOWING:
- A. THE DEVELOPER SHALL COMPLY WITH THE DPZ POLICY MEMORANDUM DATED JANUARY 8,2008 CONCERNING REQUIRED SETBACKS AND PLANTING REQUIREMENTS FOR PROPOSED FOREST CONSERVATION EASEMENTS LOCATED IN CLOSE PROXIMITY TO BGE POWER LINES OR TRANSMISSION RIGHT-OF-WAY. B. BEST MANAGEMENT PRACTICES FOR PLANTING THE PROPOSED FOREST CONSERVATION TREES WHEN WORKING WITHIN THE ENVIRONMENTAL FEATURES (STREAMS, WETLANDS AND FLOODPLAIN AREA) AND BUFFERS SHALL BE USED BY THE LANDSCAPE CONTRACTOR WHEN INSTALLING THE FOREST CONSERVATION PLANTS AND PROTECTIVE DEVICES.

FINAL PLAN

EMERSON SECTION 2 PHASE 9

OPEN SPACE LOT 1

Howard County, Maryland



LOCATION MAP

FOREST CONSERVATION TRACKING CHART

DPZ FILE Number	Section! Phase Number	Gross Arca	Floodplain	Net Tract Area	Ex Forest Area	Forest Cleared	Forest Retained	Reforest./Affor. Required	Reforest./Affor. Provided	Excess Reforest./Affor.	Future Forest Clearing	Future Refor./Affor.	Comments
F-01-137	2 1A/1B	106.20	3.50	102.70	24.70	7.93	16.77	0.61	5.03	4.42	4,48	3.41	
F-01-145	2/2	118.90	3.50	115.40	24.80	8.03	16.77	2.95	5.03	208	3.28	3.41	See Note A
F-02-55	2/3	137.35	4.00	133.35	34.40	12.53	21.87	1.27	5.03	3.76	2.18	3.91	See Note B
F-02-131	3/1	206.85	21.19	185.66	85,30	39.47	45.83	0.00	5.03	5. 03	2.18	3.91	
F-02-178	3/2	220.27	21.27	199.00	87.50	41.67	45.83	0.00	5.03	5.03	218	3.91	See Note C
F-03-13	2 14	264.81	26.57	238.24	98.18	47.15	51.03	0.00	5.03	5.03	249	5.24	
F-03-175	2 5 C	267.84	27.40	240,44	98.62	47.59	51.03	0.00	5.77	5.77	2.49	5.24	
F-04-68	216 1 A	277.75	27.40	250.35	98.62	47.59	51.03	0.00	5.77	5.77	249	5.24	See Note D
F-04-131	2/4	<i>271.7</i> 5	27.10	250.35	98.62	47.59	51.03	0.00	8.55	8.55	249	3.91	See Note E
F-04-53	2/5/A	306.93	27.51	279.42	98.66	47.63	51.03	2.79	8.74	5.95	2.49	3.91	
F-04-127	2 5 8	332.63	3243	300.20	115.66	63.31	52.36	8.51	11.51	3.00	2.49	3.91	See Note F
F-05-49	2/1/B	332.63	3243	300.20	115.66	61.73	53.93	6.53	13.29	6.76	0.49	1.84	See Note G
F-05-93	2/7	341.19	32.43	308.76	115.66	61.73	53.93	7.81	13.29	5.48	0.49	1.84	
F-05-89	2/6/18	347.46	32.43	315.03	121.26	67.33	53.93	10.15	13.52	3.37	0.49	1.84	
SDP-05-124	"FARM POND"	347.46	3243	315.03	121.26	67.33	53.93	10.15	15.49	5.34	0.49	1.84	
F-07-141	2 8 8	373.80	32.75	341.05	125.82	71.14	54.68	14.27	16.06	1.79	0.49	1.84	See Note H
F-08-82	219	426.21	83.88	341.95	126.72	71.14	55.58	13.50	20.56	7.06	0.49	1.84	See Note I

A. 1.20+/- ACRES OF FUTURE FOREST CLEARING SHOWN ON F-01-137 WAS CLEARED FOR SWM ON OPEN SPACE LOT 174. B. 1.10+/- ACRES OF FUTURE FOREST CLEARING SHOWN ON F-01-137 WAS CLEARED FOR SWM ON OPEN SPACE LOT 176.

C. GROSS AREA INCLUDES 1.07+1- ACRES FOR SANITARY SEWER EXTENSION AND CONTAINS 0.08+1- ACRES OF FLOODPLAIN.

D. GROSS AREA EXCLUDES 0.38 ACRES FOR THE SANITARY SEWER SHOWN ON F-02-178. GROSS AREA ALSO EXCLUDES 0.07 ACRES FOR AREA PREVIOUSLY ACCOUNTED FOR UNDER P-03-16. E. THIS LINE ITEM ACCOUNTS FOR REFORESTATION PROVIDED RETROSPECTIVELY ON A PHASE THAT PREVIOUSLY ADDRESSED

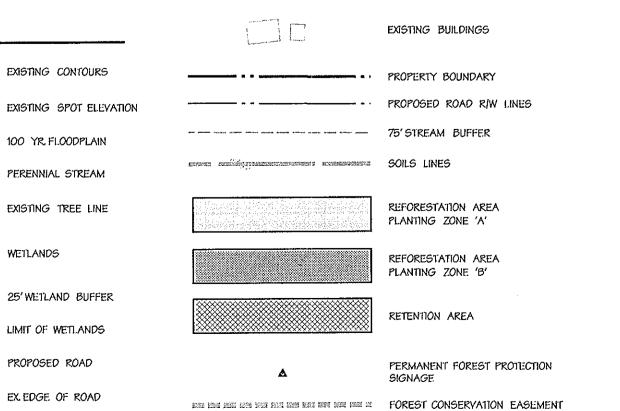
FOREST CONSERVATION, APPROXIMATELY 1.33 ACRES OF FUTURE

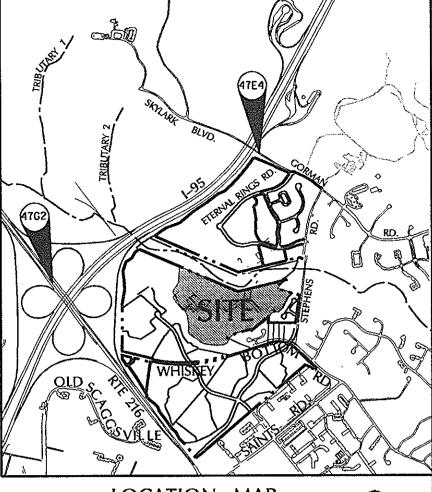
REFORESTATION AREA WILL BE USED UNDER THIS REFORESTATION

F. GROSS AREA EXCLUDES 0.52* ACRES FOR SANITARY SEWER SHOWN I. NET TRACT AREA EXCLUDES 0.38 ACRES OUTSIDE ON F-02-178, A GROSS AREA INCLUDES 237 ACRES FOR THE THE FLOODPLAIN WITHIN THE BGE RESTRICTED AREA. WETLAND MITIGATION SITE, FLOODPLAIN INCLUDES 1.2 ACRES FOR

G. APPROXIMATELY OA2 ACRES OF FUTURE CLEARING/FUTURE REFORESTATION IS BEING CLEARED AND IS NOT BEING REFORESTED. APPROXIMATELY 1.58 ACRES OF FUTURE CLEARING/FUTURE REFORESTATION IS BEING RETAINED. APPROXIMATELY 0.13 ACRES OF FUTURE REFORESTATION IS BEING REFORESTED.

H, GROSS AREA EXCLUDES 0.13 AC FOR SEWER SHOWN ON F-02-178. GROSS AREA ALSO EXCLUDES 2.37 AC FOR WETLAND MITIGATION AREA COUNTED UNDER F-04-127, FLOODPLAIN EXCLUDES 1.20 AC FOR MITIGATION AREA FLOODPLAIN COUNTED UNDER F-04-127.





LOCATION MAP

BENCHMARK DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGYD29 (VERTICAL) DATUMS.

BM1 47E4 NORTHING: 163326.2295 EASTING: 413136.2550 ELEVATION: 338.909ft.

BM2 47G2 NORTHING: 162440.1212 EASTING: 4118539279 ELEVATION: 364.210ft.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

sell commen CHIEF, DEVELOPMENT ENGINEERING DIVISION

Date No.

FINAL PLAN

EMERSON SECTION 2 PHASE 9 OPEN SPACE LOT 1

OWNER/DEVELOPER: THE HOWARD RESEARCH & DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MARYLAND 21044

410-992-6000

Fax 296-4705

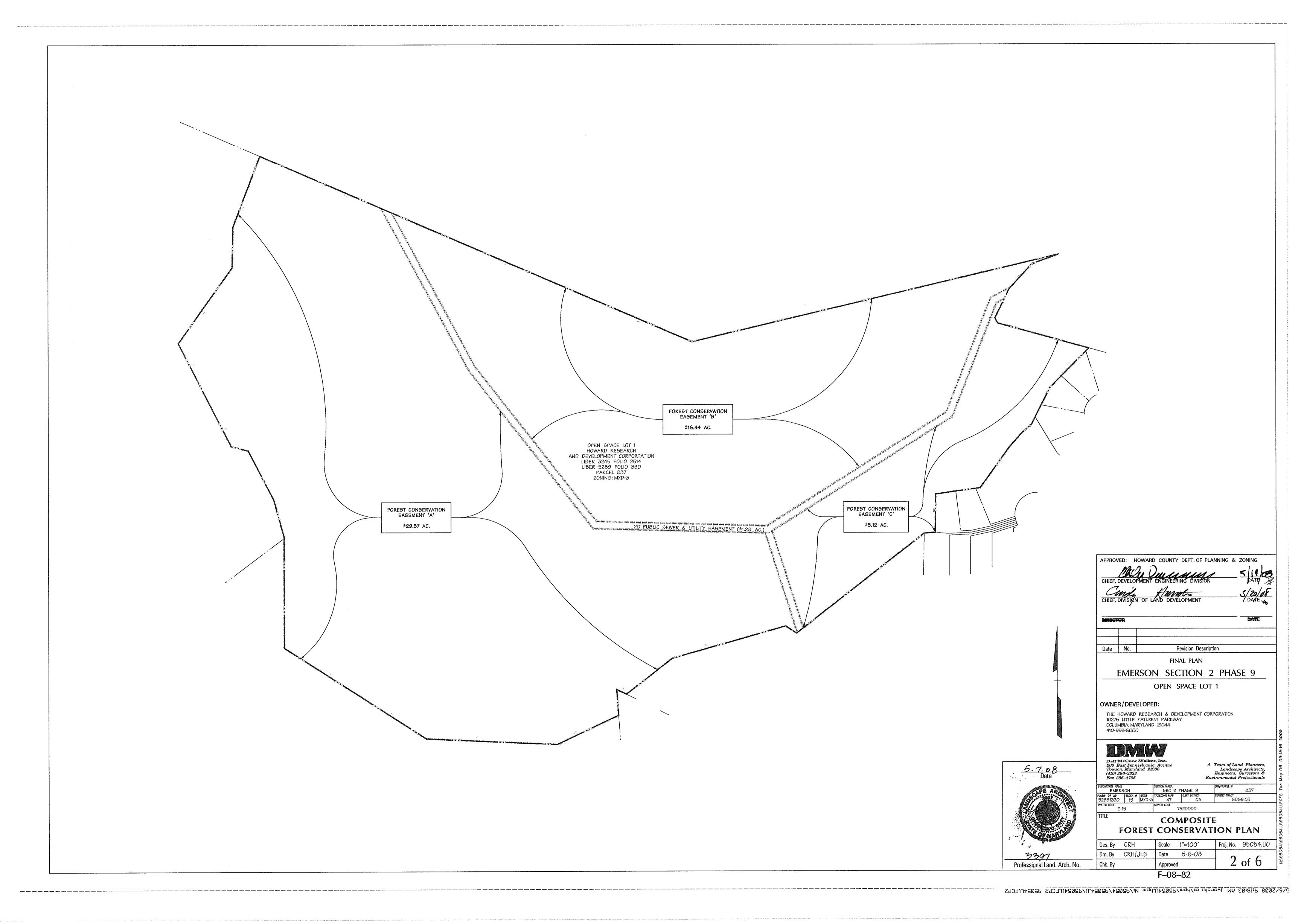
Professional Land. Arch. No.

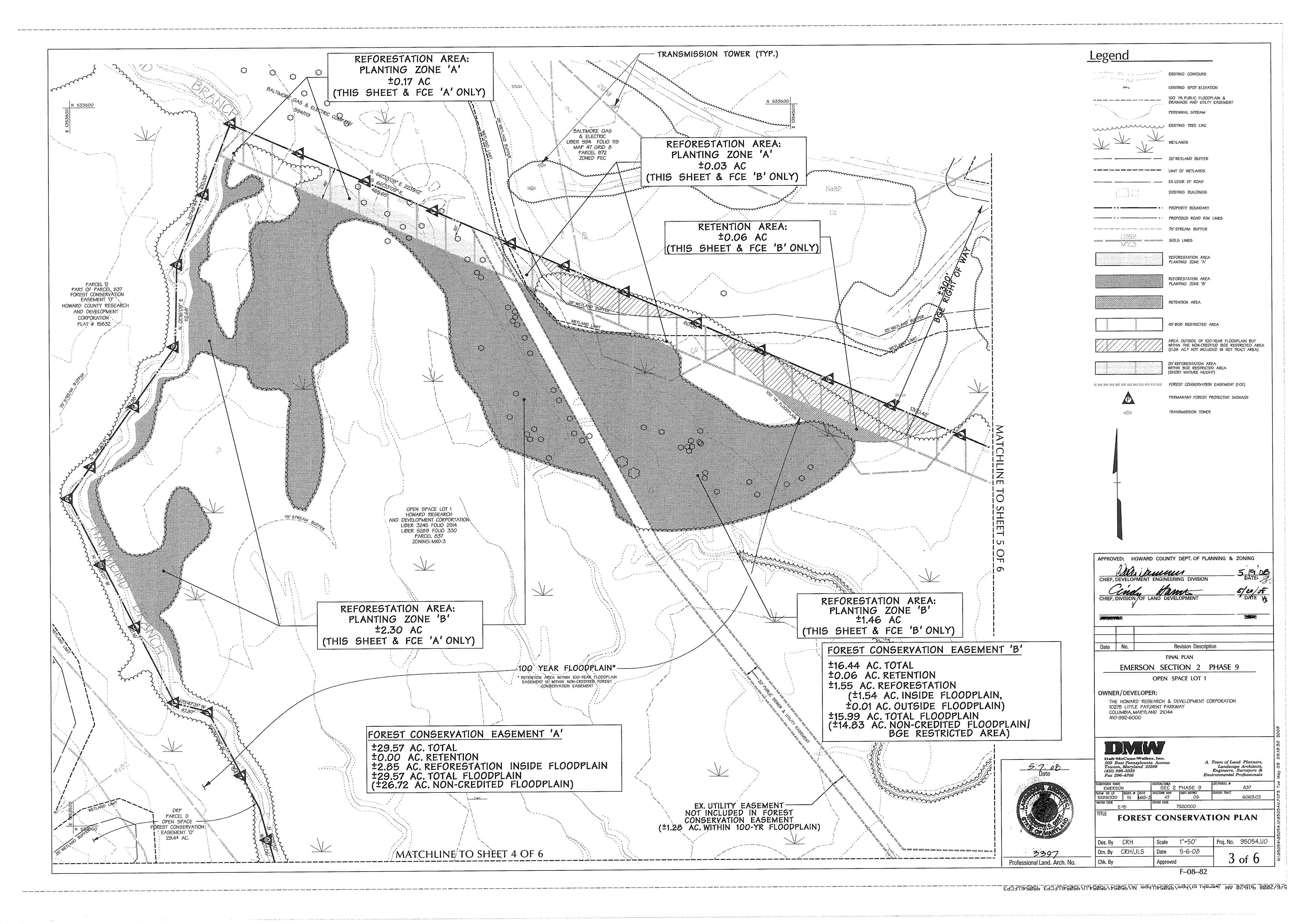
A Team of Land Planners, 200 East Pennsylvania Avenue Towson, Maryland 21286 Landscape Architects, Engineers, Surveyors &

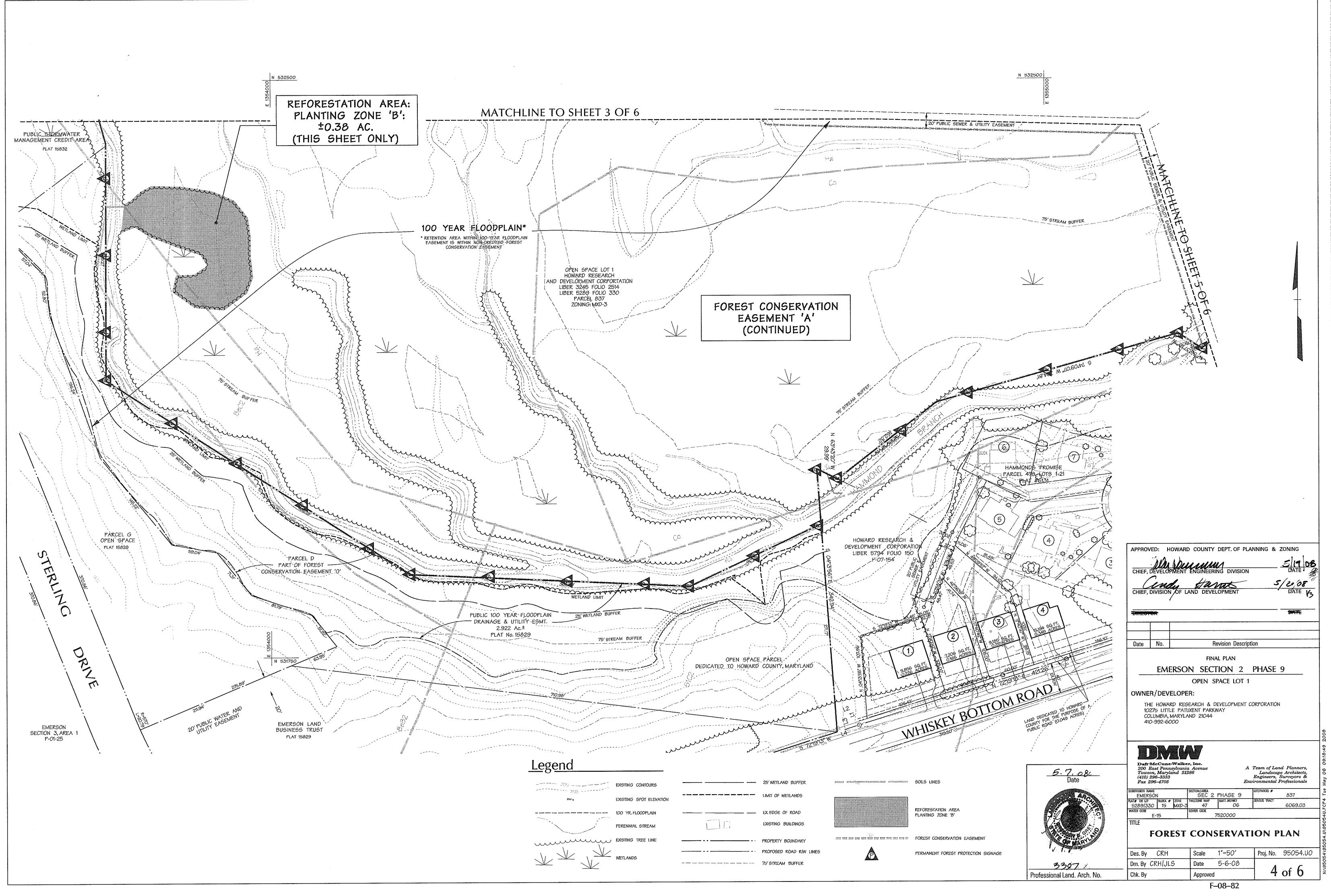
SEC 2 PHASE 9 PLAT# OR L/F BLOCK # ZONE TAX/ZONE MAP ELECT. DISTRICT 5289/330 15 MXD3 47 06

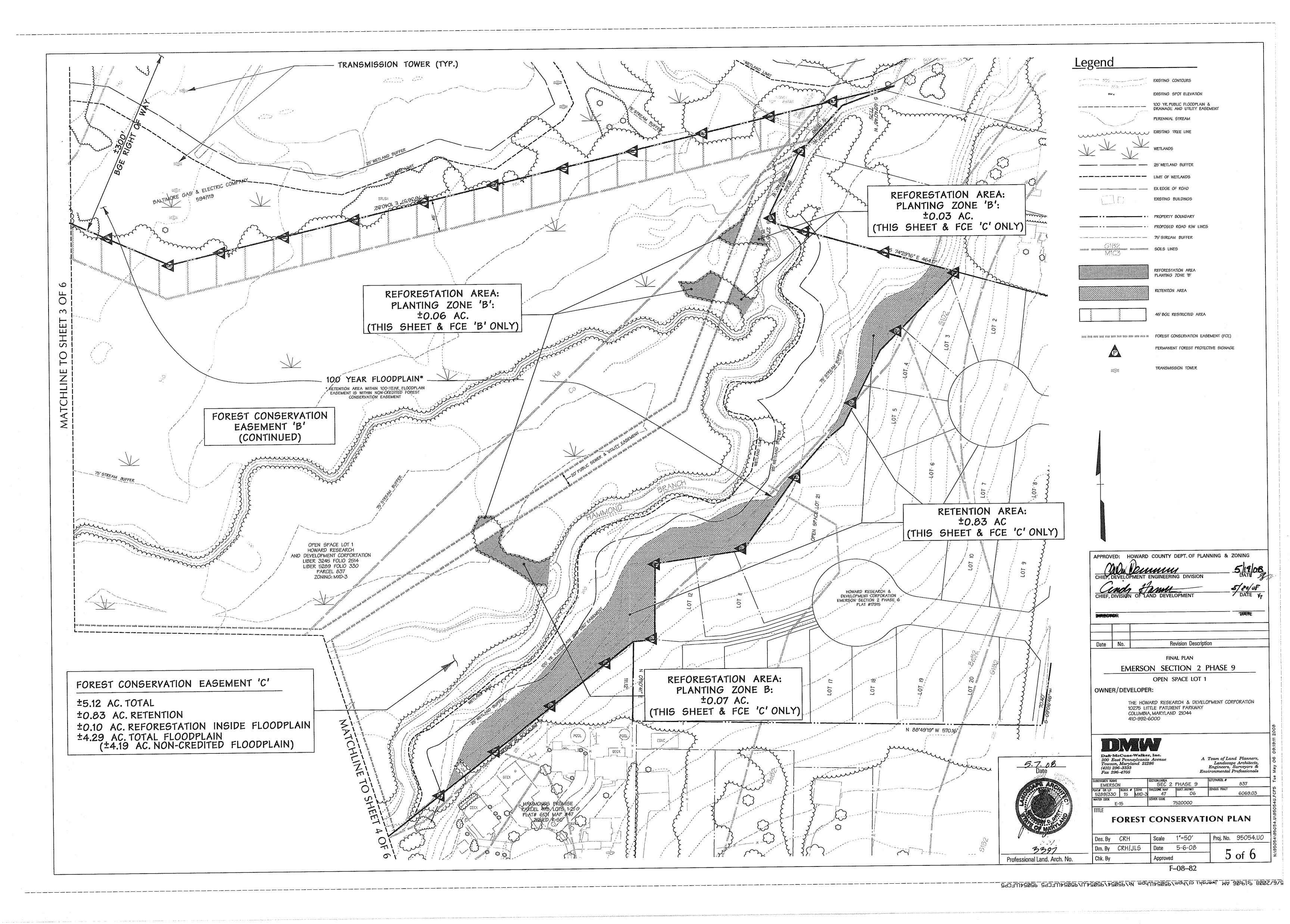
COVER SHEET FOREST CONSERVATION PLAN

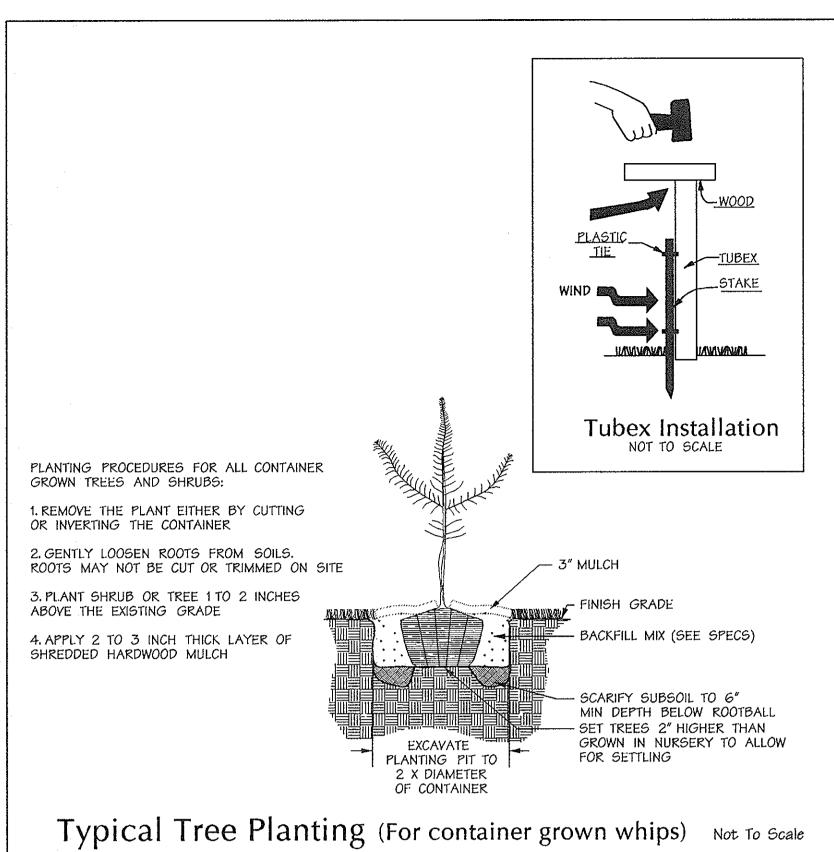
Scale 1"=200' Proj. No. 95054.UO Des. By CRH Dm. By CRH/JLS Date 5-6-08 of b Chk. By Approved F-08-82

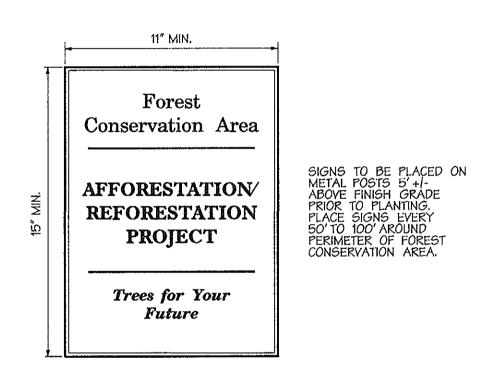












Permanent Signage

REFORESTATION PROVIDED

Not To Scale

CUMULATIVE FOREST CONSERVATION CALCULATIONS

BASIC SITE DATA GROSS SITE AREA AREA WITHIN 100 YEAR FLOODPLAIN AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL (IF APPLICABLE) AREA WITHIN BGE RESTRICTED AREA NET TRACT AREA LAND USE CATEGORY	ACRES (1/100) 426.21 83.88 N/A 0.38 341.95 CAI
INFORMATION FOR CALCULATIONS A. NET TRACT AREA B. REFORESTATION THRESHOLD (15% × A) C. AFFORESTATION MINIMUM (15% × A) D. EXISTING FOREST ON NET TRACT AREA E. FOREST AREAS TO BE CLEARED F. FOREST AREAS TO BE RETAINED	341.95 51.29 51.29 126.72 71.14 55.58
REFORESTATION CALCULATIONS A. NET TRACT AREA B. REFORESTATION THRESHOLD (15% x A) C. EXISTING FOREST ON NET TRACT AREA D. FOREST AREAS TO BE CLEARED E. FOREST AREAS TO BE RETAINED F. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD G. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD H. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD	341.95 51.29 126.72 71.14 55.58 71.14 0.00 4.29
CLEARING ABOVE THE THRESHOLD IF FOREST AREAS TO BE RETAINED ARE LESS THAN THE REFORESTATION THRESHOLD (IF F IS GREATER THAN B), THE FOLLOWING CALCULATIONS APPL REFORESTATION FOR CLEARING ABOVE THRESHOLD FX/1/4 REFORESTATION FOR CLEARING BELOW THRESHOLD GX2 TOTAL REFORESTATION REQUIRED (FX/1/4) + (GX2)	Y: 17.79 0.00 17.79
CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD REFORESTATION REQUIRED	4.29 13.50 ACRE

20.56 ACRES

FOREST CONSERVATION GOALS AND OBJECTIVES

The goals and objectives of this Forest Conservation Plan are to account for the retention of approximately 0.90 acres of existing forest outside the floodplain, and to detail the reforestation of approximately 4.50 acres. Reforestation species have been chosen to reflect and enhance the existing forest community, and were selected to tolerate the mesic moisture regime in the designated planting areas.

When calculated cumulatively with previous phases of this project, a total of 71.14 acres of forest will be cleared, and 55.58 acres will be retained. The total reforestation obligation is 13.50 acres, and 20.56 acres of reforestation have been provided. A surety in the amount of \$7,841.00 is required for forest retention (0.90 acres @ \$0.201s.f.), and a surety in the amount of \$98,010.00 is required for reforestation (4.50 acres @ \$0.50/s.f.). The total Forest Conservation surety amount is \$105,851.00.

PART 2 PRODUCTS

2.01 PLANTS

A. Sound, healthy, vigorous, free from plant diseases, insect pests or their eggs. B. Plants cut back from larger sizes or pruned prior to delivery will not be accepted. C. It is anticipated that these plants will need to be obtained from a nursery source. These plant species are normally unavailable from standard landscape nursery sources.

D. Shape and Form: Plant materials shall be symmetrical and typical for the variety and species. E. Container: The soil/root masses shall be thoroughly moist upon delivery to the job site. Any dry and light weight plants shall be rejected. If not planted immediately after being delivered to the job site, the plants shall be stored out of direct exposure to the sun and wind and their root masses maintained moist, through periodic watering, until the time of planting.

Until the removal of the plants from the containers, the soil/root masses shall be the size of the specified container size. If the soil/root masses are substantially smaller than the specified container size and loose soil exists on the bottom of the containers, the plants will be rejected since they have not been grown sufficiently long in the containers to root into the soils contained therein.

The plants shall appear healthy with no leaf spots, leaf damage, leaf discolorations, leaf wilting, or evidence of insects on the leaves.

The container size shall be at least as large as indicated in the specifications or shown in the plant tables/lists. Plants shall not be rejected if supplied in containers larger than specified. F. Fiber or Peat Pot: If not planted immediately after being delivered to the job site, the plants shall be stored out of direct exposure to the sun and wind and their pots and associated root masses maintained moist, through periodic watering, until the time of planting. The plants shall be well-rooted through the sides and bottoms of the pots and firmly contained therein. Should the plants be removed from the pots by holding them from their tops and gently pulling on the pots, the plants shall be rejected.

if growing, the plants shall appear healthy with no foliar spots, discolorations, wilting, or other evidence of the presence of disease or insects. The pot size shall be at least as large as indicated in the specifications or shown in the plant tables/lists. Plants shall not be rejected if supplied in pots larger than specified. The number of plants, stems, or culms per pot as specified or shown in the plant tables/lists at least shall be present, on the average, or the plants shall be rejected.

G. Dormant Propagule (Herbaceous): If not planted Immediately after being delivered to the Job site, the dormant propagules shall be stored out of the direct exposure to the sun and wind, and they shall be protected by covering with straw, peat moss, compost, or other suitable materials and shall be maintained moist, through periodic watering, until the time of planting.

The bodies and shoots associated with the propagules shall have turgor or be rigid to the touch. If the bodies and/or shoots associated with the propagules are soft or mushy or appear rotten or decomposed, the plant materials shall be rejected.

Rhizome (stolon) sections shall provide a minimum of two shoots per section or Rhizome (stolon) sections containing at least a terminal shoot shall be a minimum of four inches in length (in order to ensure sufficient stored energy to support the new growth). Rhizome sections containing shoots that are soft or mushy or otherwise appear rotten shall not be accepted.

Suckers shall contain a terminal shoot and be a minimum of four inches in length (in order to ensure sufficient stored energy to support the new growth). Growing Bare Root Plant (Herbaceous): The plants shall contain new roots that are clean and white

if not planted immediately after delivery to the job site, the plants shall be stored out of direct exposure to the sun and wind and the new roots shall be protected by the use of straw peat moss, compost, or other suitable materials and shall be maintained moist, through periodic watering, until

The plants shall appear healthy with no foliar spots, discolorations, wilting, or other evidence of the presence of disease or of insects.

A. Plant Fertilizer: Slow release fertilizer such as Osmocote 19-6-12 analysis (3-4 month release) or equal approved by the Landscape Architect.

B. Slow release fertilizer shall be applied at the time of planting and at the following rate: All emergent plant material - planting pit application of 1 oz. per container or bare root plant. C. Pesticides, herbicides and fungicides will not be used unless judged necessary by the wetland landscaper. If applied, quantities recommended by the Department of Agriculture shall not be exceeded. D. Fertilizer shall be delivered to the site in the original unopened containers with formulas attached.

PART 3 EXECUTION

3.01 PREPARATION

A. Plant Locations: As shown on the Drawings, to dimensions if shown, to scale if not dimensioned. Locations subject to review by the Landscape Architect before starting excavation. B. No plant material shall be installed until the Landscape Architect has approved the finish grade of the planted areas. 3.02 PLANTING PROCEDURES

A. Set plants straight and plumb.

B. Plant material shall be planted in existing soil with each planting pit excavated to size sufficient to contain the entire root stock or root mass without cramping. $\it C.$ Where water is not available on-site, the Contractor shall furnish sufficient quantities to complete the Work at no additional cost to the Owner. 3.04 CLEAN-UP

A. During planting operations, excess and waste materials including discarded containers, shall be removed

B. Repair turf areas and other existing conditions damaged during planting operations, including regrading, seed, mulch and fertilization to the satisfaction of the Owner. 3.05 MAINTENANCE

A. Watering of plant material shall take place at the end of each for fourteen (14) consecutive days if necessary after planting has been completed. The watering shall completely saturate the soil and partially immerse the plant material.

B. During maintenance period, on approximately the 1st and 15th of each month, the Contractor shall provide sufficient supervision, equipment, materials and manpower to:

1. Keep all plants in a healthy growing condition by watering, when necessary, removing dead or dying branches, controlling insect infestations, removing sprouts, weeding. 2. Remove and replace dead or damaged plant material. Where replacement is not possible due to season, remove dead material, etc. and level pit until planting is possible. B. Notify Owner for review of activities prior to initiating maintenance operations

Maintenance by the Contractor

A. A 2-year Contractor's Maintenance and Monitoring Period shall be at mobilization. Seventy-five percent survivorship must be guaranteed for this period. The Site Shall be inspected at the end of the two year period to ascertain survivorship and provide for replacement if necessary.

B. The Contractor's maintenance of new planting shall consist of watering, cultivating, weeding (and spot spraying with an approved herbicide as needed to control multiflora rose), mulching, and removing invasive vegetation as necessary to insure survival. The Contractor shall maintain and protect plantings from herbivory using Ropel or other approved herbivore deterrent as necessary to ensure survival.

C. Protect planting area and plants at all times against damage of all kinds for duration of maintenance period. Maintenance includes temporary protection barriers and signs as required for protection. If any plants become damaged or injured, because sufficient protection was not provided, treat or replace as directed by Landscape Architect at

D. DUE TO THE SENSITIVE NATURE OF THE PLANTING AREAS, ALL MAINTENANCE SHALL BE CONDUCTED BY HAND, NO MECHANIZED VEHICLES OR EQUIPMENT SHALL BE USED

A MINIMUM SURVIVAL RATE OF 75% IS TO BE GUARANTEED BY THE CONTRACTOR AT THE END OF THE TWO YEAR MAINTENANCE PERIOD.

PLANTING ZONE 'A' (BGE Restricted Height Zone Plantings)**

Plants required - 70 (350 whips/acre x 0.20 acres) Forest Conservation Easement A & B- mesic moisture regime

Species name	Common name	Size	Spacing	Quantity	Tolerance	indicator status	
Alnus serrulata	brookside alder	18"-24" height/cont. grown	11' × 11'	10	full sun	OBL	
Carpinus caroliniana	American hornbeam	18"-24" height/cont. grown	11' × 11'	20	full sun	FAC	
Cornus amomum	silky dogwood	18"-24" height/cont. grown	11' × 11'	25	full sun	FACW	
Viburnum dentatum	arrow wood	18"-24" height/cont. grown	11' × 11'	15	full sun to part shade	FAC	
TOTALS				70			

PLANTING ZONE 'B'**

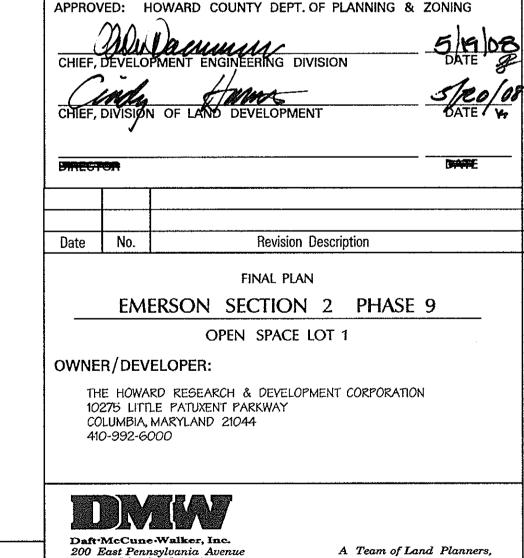
Forest Conservation Easement A. B. & C - mesic moisture regime

Plants required - 1,505 (350 whips/acre x 4.30 acres)

Species name	Common name	Size	Spacing	Quantity	Tolerance	Indicator status
Acer rubrum	red maple	18"-24" height/cont. grown	11' × 11'	350	full sun to part shade	FAC
Acer saccharinum	silver maple	18"-24" height/cont. grown	11' × 11'	175	full sun to part shade	FACW
Betula nigra	river birch	18"-24" height/cont. grown	11' × 11'	175	full sun	FACW
Cornus amomum	silky dogwood	18"-24" height/cont. grown	· 11' × 11'	175	full sun	FACW
Liquidambar styracifula	sweet gum	18"-24" height/cont. grown	11' × 11'	280	full sun	FAC
Platanus occidentalis	sycamore	18"-24" height/cont. grown	11' × 11'	250	full sun to part shade	FACW
Quercus palustris	pin oak	18"-24" height/cont. grown	11' x 11'	100	full sun	FACW
TOTALS				1,505		

Whip plantings should be installed in a curvilinear pattern to facilitate maintenance but avoid a grid appearance. Tree shelters should be installed on all whip plantings.

**DUE TO THE SENSITIVE NATURE OF THE PLANTING AREAS, ALL PLANTING AND MAINTENANCE SHALL BE CONDUCTED BY HAND, NO MECHANIZED VEHICLES OR EQUIPMENT SHALL BE USED



06

5.7.08

Professional Land, Arch. No.

200 East Pennsylvania Avenue Towson, Maryland 21286 Fax 296-4705 SEC 2 PHASE 9 EMERSON TAX/ZONE MAP 6289/330 15 MXD-3 47 FOREST CONSERVATION DETAIL

Scale 1"=50' Des. By CRH

Date 5-6-08 Drn. By CRH/JLS Chk. By Approved

b of b

Proj. No. 95054.UO

Landscape Architects

2/6/2008 9:19:38 AM Jwenski c:/hpm/95054U.hpm N:/95054/95054.U/95054U.FCP6 95054U.FCP6