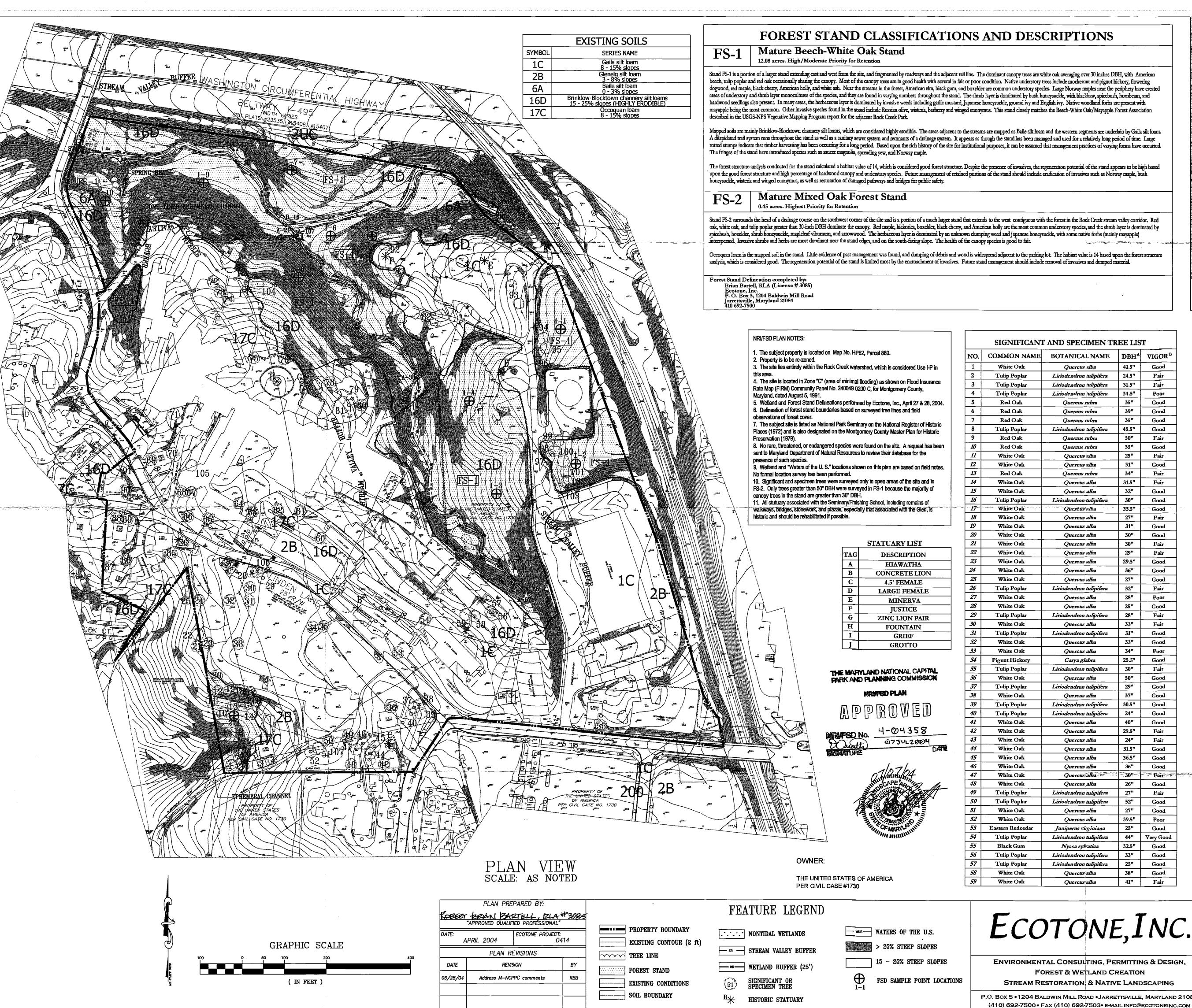
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Stand FS-1 is a portion of a larger stand extending east and west from the site, and fragmented by roadways and the adjacent rail line. The dominant canopy trees are white oak averaging over 30 inches DBH, with American beech, tulip poplar and red oak occasionally sharing the canopy. Most of the canopy trees are in good health with several in fair or poor condition. Native understory trees include mockernut and pignut hickory, flowering dogwood, red maple, black cherry, American holly, and white ash. Near the streams in the forest, American elm, black gum, and boxelder are common understory species. Large Norway maples near the periphery have created areas of understory and shrub layer monocultures of the species, and they are found in varying numbers throughout the stand. The shrub layer is dominated by bush honeysuckle, with blackhaw, spicebush, hombeam, and hardwood seedlings also present. In many areas, the herbaceous layer is dominated by invasive weeds including garlic mustard, Japanese honeysuckle, ground ivy and English ivy. Native woodland forbs are present with mayapple being the most common. Other invasive species found in the stand include Russian olive, wisteria, barberry and winged euonymus. This stand closely matches the Beech-White Oak/Mayapple Forest Association

Mapped soils are mainly Brinklow-Blocktown channery silt loams, which are considered highly erodible. The areas adjacent to the streams are mapped as Baile silt loam and the western segments are underlain by Gaila silt loam. A dilapidated trail system runs throughout the stand as well as a sanitary sewer system and remnants of a drainage system. It appears as though the stand has been managed and used for a relatively long period of time. Large rotted stumps indicate that timber harvesting has been occurring for a long period. Based upon the rich history of the site for institutional purposes, it can be assumed that management practices of varying forms have occurred.

The forest structure analysis conducted for the stand calculated a habitat value of 14, which is considered good forest structure. Despite the presence of invasives, the regeneration potential of the stand appears to be high based upon the good forest structure and high percentage of hardwood canopy and understory species. Future management of retained portions of the stand should include eradication of invasives such as Norway maple, bush

Stand FS-2 surrounds the head of a drainage course on the southwest corner of the site and is a portion of a much larger stand that extends to the west contiguous with the forest in the Rock Creek stream valley corridor. Red oak, white oak, and tulip poplar greater than 30-inch DBH dominate the canopy. Red maple, hickories, boxelder, black cherry, and American holly are the most common understory species, and the shrub layer is dominated by spicebush, boxelder, shrub honeysuckle, mapleleaf viburnum, and arrowwood. The herbaceous layer is dominated by an unknown clumping weed and Japanese honeysuckle, with some native forbs (mainly mayapple) interspersed. Invasive shrubs and herbs are most dominant near the stand edges, and on the south-facing slope. The health of the canopy species is good to fair.

Occoquan loam is the mapped soil in the stand. Little evidence of past management was found, and dumping of debris and wood is widespread adjacent to the parking lot. The habitat value is 14 based upon the forest structure analysis, which is considered good. The regeneration potential of the stand is limited most by the encroachment of invasives. Future stand management should include removal of invasives and dumped material.

## SIGNIFICANT AND SPECIMEN TREE LIST

<b>N</b> IO	1	TAND SPECIMEN TR		<del></del>
NO.	COMMON NAME	BOTANICAL NAME	DBH <sup>A</sup>	
1	White Oak	Quercus alba	41.5"	Good
2	Tulip Poplar	Liriodendron tulipifera	24.5"	Fair
3	Tulip Poplar	Liriodendron wlipifera	31.5"	Fair
4	Tulip Poplar	Liriodendron tulipifera	34.5"	Poor
5	Red Oak	Quercus rubra	35"	Good
6	Red Oak	Quercus rubra	39"	Good
7	Red Oak	Quercus лиbra	35"	Good
8	Tulip Poplar	Liriodendron tulipifera	45.5"	Good
9	Red Oak	Quercus rubra	50"	Fair
10	Red Oak	Quercus rubra	35"	Good
	White Oak	Quercus alba	25"	Fair
12	White Oak	Quercus alba	31"	Good
13	Red Oak	Quercus rubra	34"	Fair
14	White Oak	Quercus alba	31.5"	Fair
15	White Oak	Quercus alba	32"	Good
16	Tulip Poplar	Liriodendron tulipifera	30"	Good
17-	White Oak	Quercus alba	33.5"	Good
18	White Oak	Quercus alba	27"	Fair
19	White Oak	Quercus alba	31"	Good
20	White Oak	Quercus alba	30"	Good
21	White Oak	Quercus alba	30"	<u>Fair</u>
22	White Oak	Quercus alba	29"	Fair
23	White Oak	Quercus alba	29.5"	Good
24	White Oak	Quercus alba	36"	Good
25	White Oak	Quercus alba	27"	Good
26	Tulip Poplar	Liriodendron tulipifera	32"	Fair
27	White Oak	Quercus alba	28"	Poor
28	White Oak	Quercus alba	25"	Good
29	Tulip Poplar	Liriodendron tulipifera	28"	Fair
<i>30</i>	White Oak	Quercus alba	33"	Fair
31	Tulip Poplar	Liriodendron tulipifera	31"	Good
32	White Oak	Quercus alba	33"	Good
33	White Oak	Quercus alba	34"	Poor
34	Pignut Hickory	Carya glabra	25.5"	Good
35	Tulip Poplar	Liriodendron tulipifera	30"	Fair
36	White Oak	Quercus alba	50"	Good
37	Tulip Poplar	Liriodendron tulipifera	29"	Good
38	White Oak	Quercus alba	37"	Good
39	Tulip Poplar	Liriodendron tulipifera	30.5"	Good
40	Tulip Poplar	Liriodendron tulipifera	24"	Good
41	White Oak	Quercus alba	40"	Good
42	White Oak	Quercus alba	29.5"	Fair
43	White Oak	Quercus alba	24"	Fair
44	White Oak	Quercus alba	31.5"	Good
45	White Oak	Quercus alba	36.5"	Good
46	White Oak	Quercus alba	36"	Good
47	White Oak	Quercus alba	30"-	Fair
48	White Oak	Quercus alba	26"	Good
49	Tulip Poplar	Liriodendron tulipifera	27"	Fair
50	Tulip Poplar	Liriodendron tulipifera	52"	Good
51	White Oak	Quercus alba	27"	Good
52	White Oak	Quercus alba	39.5"	Poor
53	Eastern Redcedar	Juniperus virginiana	25"	Good
54	Tulip Poplar	Liriodendron tulipifera	44"	Very Good
55	Black Gum	Nyssa sylvatica	32.5"	Good
56	Tulip Poplar	Liriodendron tulipifera	33"	Good
57	Tulip Poplar	Liriodendron tulipifera	25"	Good
58	White Oak	Quercus alba	38"	Good
50	White Oak	Z == 1 == == == == == == == == == == == =	36	G004

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60	Sugar Maple	Acer saccharum	37"	Good		
61	Tulip Poplar	Liriodendron tulipifera	45"	Good		
62	White Oak	Quercus alba	32"	Good		
63	White Oak	Quercus alba	37"	Good		
64	White Oak	Quercus alba	42.5"	Good		
65	Tulip Poplar	Liriodendron tulipifera	48.5"	Fair		
66	Black Gum	Nyssa sylvatica	30"	Good		
67	Pignut Hickory	Carya glabra	33"	Good		
68	American Elm	Ulmus americana	26.5"	Very Good		
69	Pignut Hickory	Carya glabra	29.5"	Good		
70	Ginko (male)	Ginko biloba	37.5"	Very Good		
71	American Elm	Ulmus americana	25.5"	Good		
72	White Oak	Quercus alba	41"	Good		
73	White Oak	Quercus alba	41"	Good		
74	White Oak	Quercus alba	34"	Good		
7 <del>4</del> 75	White Oak	Quercus alba	43.5"	Good Fair		
76 T	White Oak		25"	Fair Fair		
77	Red Oak	Quercus alba	<del></del>	Fair Fair		
<i>78</i>	White Oak	Quercus rubra	33.5"			
<i>79</i>	White Oak	Quercus alba  Quercus alba	32.5"	Good Good		
80	Red Oak	Quercus auba	42"			
81	White Oak	<del>-</del>	+	Good		
82	American Beech	Quercus alba	41"	Good		
83	<del></del>	Fagus grandifolia	32"	Good		
	Canadian Hemlock	Tsuga canadensis	29"	Poor		
84 0=	Red Oak	Quercus rubra	60"	Good		
85 oz	Tulip Poplar	Liriodendron tulipifera	34.5"	Good		
86	Slippery Elm	Ulmus rubra	25.5"	Good		
87	Black Walnut	Juglans nigra	34"	Good		
88	American Basswood	Tilia americana	33"	Good		
89	American Basswood	Tilia americana	32.5"	Good		
90	White Oak	Quercus alba	37"	Good		
91	Tulip Poplar	Liriodendron tulipifera	41"	Good		
92	Red Oak	Quercus rubra	40"	Good		
93	Ginko	Ginko biloba	14"	Good		
94	Tulip Poplar (x2)	Liriodendron tulipifera	46.5"	Good		
95	Red Oak	Quercus rubra	51"	Fair		
96	Red Oak	Quercus rubra	37"	Fair		
97	White Oak	Quercus alba	37"	Fair		
98	White Oak (x2)	Quereus alba	36"	Good		
99	White Oak (x2)	Quercus alba	41"	Good		
100	White Oak (x2)	Quercus alba	37"	Fair		
101	White Oak (x2)	Quercus alba	42.5"	Good		
102	White Oak (x3)	Quercus alba	56.5"	Good		
103	White Oak	Quercus alba	51"	Poor		
104	Sugar Maple	Acer saccharum	31"	Good		
105	Juniper	Juniperus spp.	21"	Good		
106	Mockernut Hickory	Carya tomentosem	11"	Good		
107	Mockernut Hickory	Carya tomentosem	16"	Good		
<sup>A</sup> Diameter at Breast Height <sup>B</sup> Estimate of health of tree						
(BLACK) - Significant Tree (>24") (RED) - Specimen Tree (> 30" DBH, or 75% of State/Local Champion)						

SIGNIFICANT AND SPECIMEN TREE NOTES:

1. All significant and specimen trees were measured with a diameter tape at 4.5' above ground

2. Tree #36 has a minor trunk cavity and significant trunk flare at approx. 15-feet. Tree #60 has minor cavity decay and existing ivy in need of removal.
 Tree #84 is a current Montgomery County Big Tree co-champion for the species.

## ECOTONE, INC.

ENVIRONMENTAL CONSULTING, PERMITTING & DESIGN, **FOREST & WETLAND CREATION** 

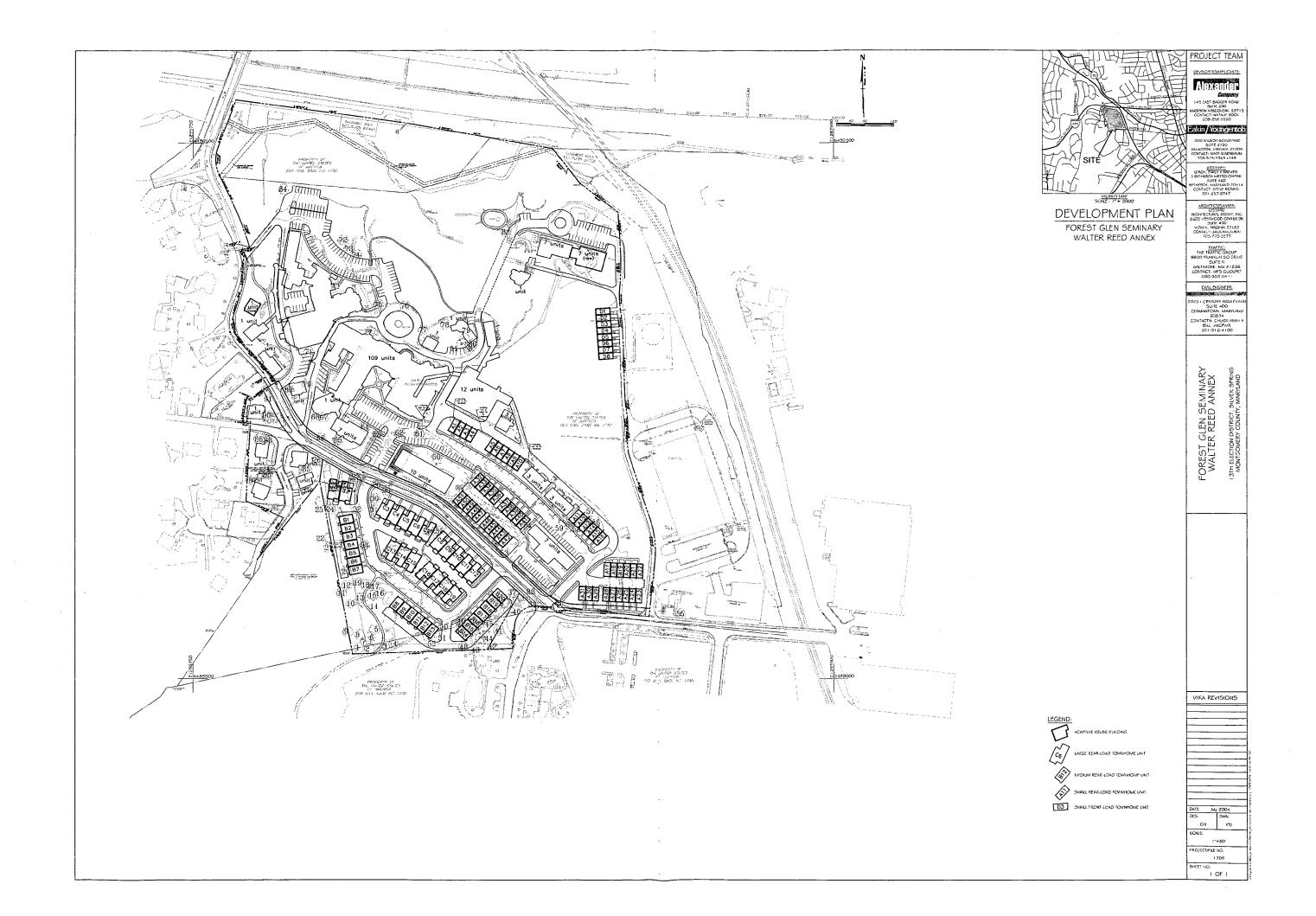
STREAM RESTORATION, & NATIVE LANDSCAPING P.O. BOX 5 • 1204 BALDWIN MILL ROAD • JARRETTSVILLE, MARYLAND 21084

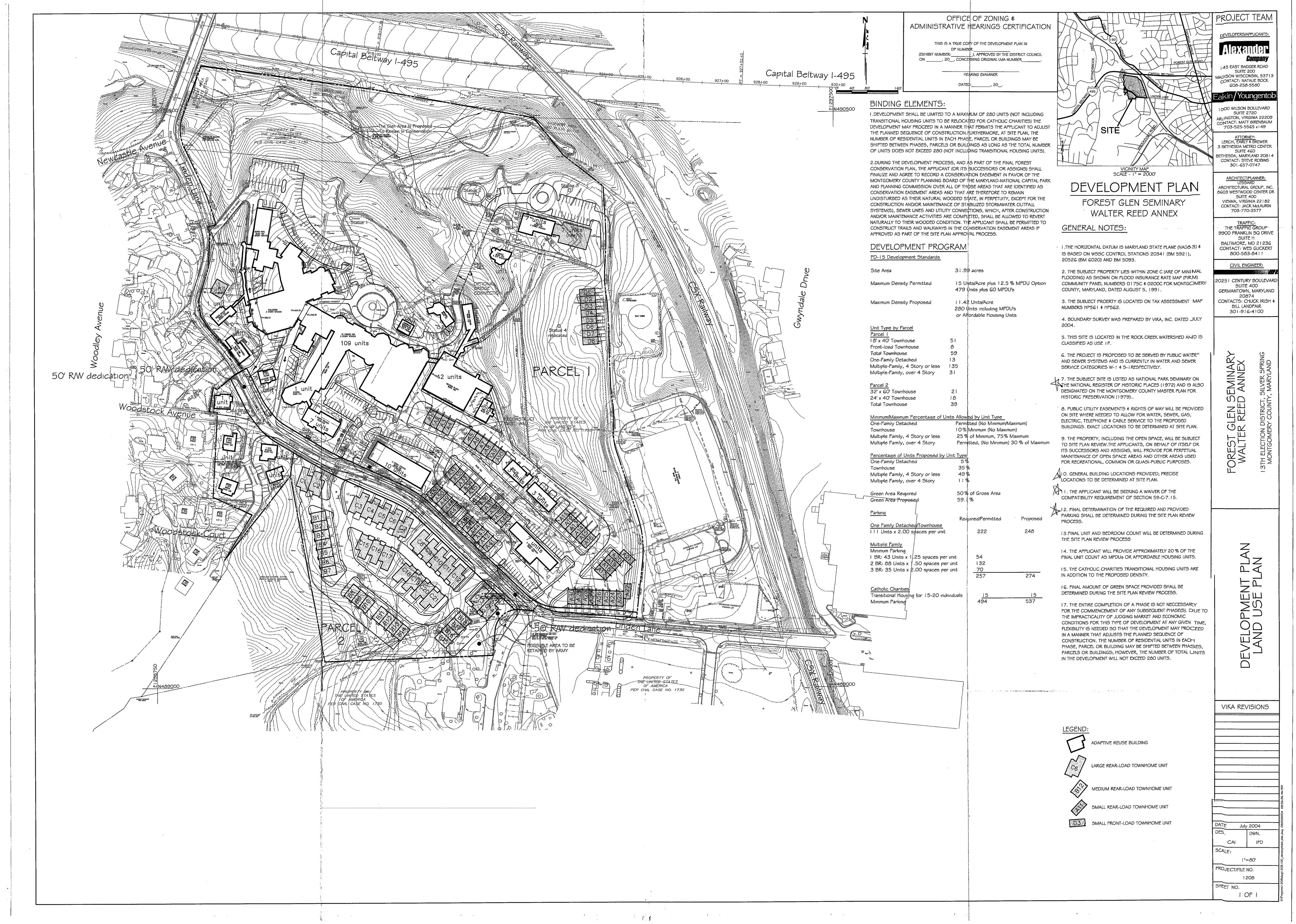
41" Fair

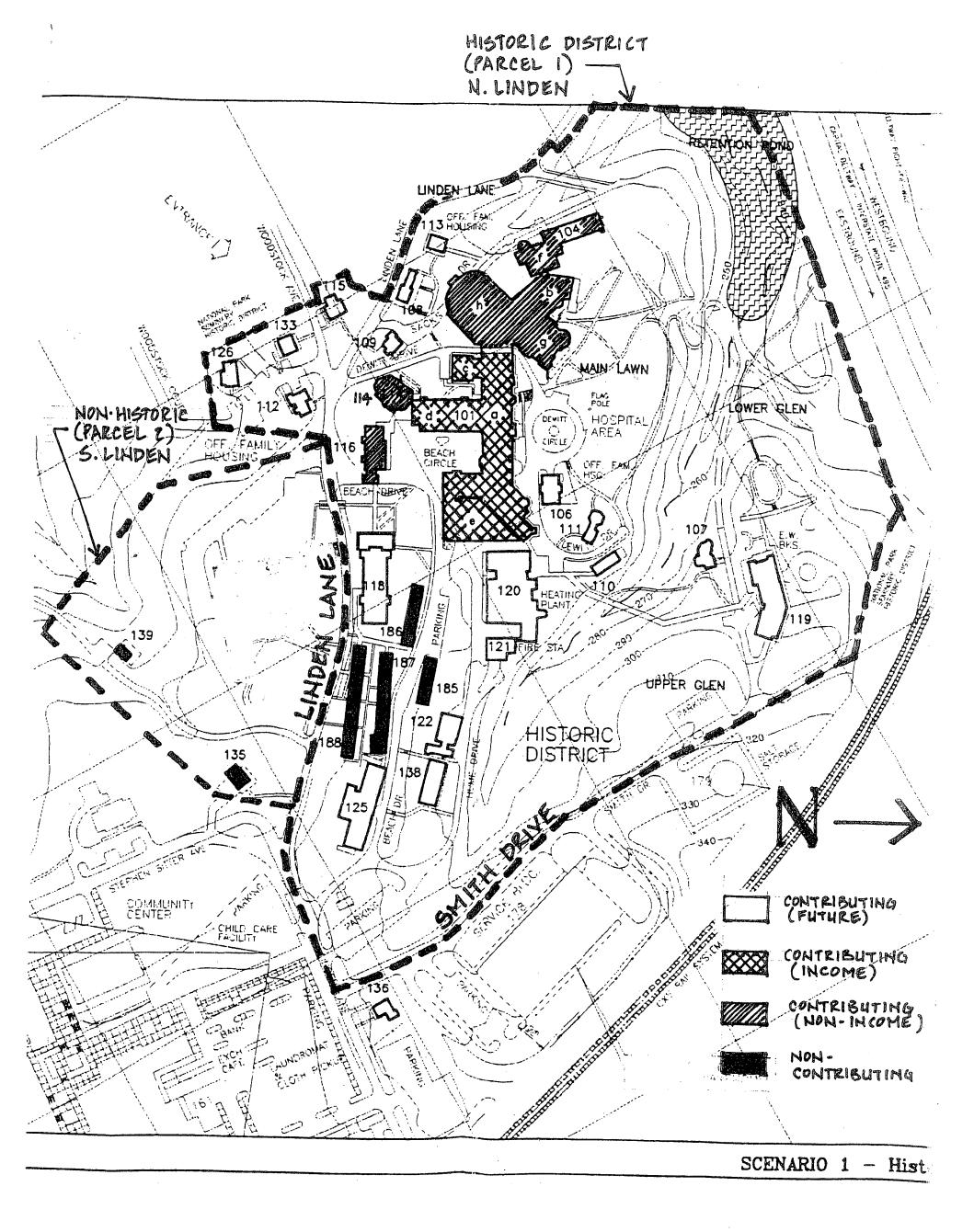
WALTER REED ANNEX

FOREST GLEN SEMINARY

FOREST STAND DELINEATION NATURAL RESOURCE INVENTORY







HISTORIC DISTRICT PLAN