



DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, CORPS OF ENGINEERS
10 S. HOWARD STREET
BALTIMORE, MD 21201

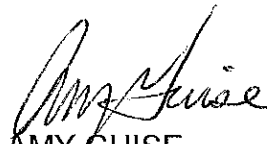
CENAB-PL-E

MEMORANDUM FOR Joint Base Myers-Henderson Hall (JBM-HH), Mrs. Kristie Lalire, Cultural Resources Manager, Directorate of Public Works

SUBJECT: Tree Survey Findings for NEPA Documentation of Proposed Perimeter Security Fence

1. The purpose of this memorandum is to submit the findings of the survey of trees within 50 feet of the proposed security fence alignment, on the JBM-HH side of the historic stonewall surrounding Arlington National Cemetery. Trees within this area may have the potential to be impacted by the proposed fence.
2. A total of 117 trees were surveyed within 50 feet of the proposed alignment. Trees were GPS located, identified by species, size class (based on diameter at breast height) and assigned a condition rating. Species information is included in the attached GIS files.
3. The breakdown in condition is as follows: 8 dead, 23 in poor condition (50% or more crown die off, extensive basal damage, evidence of fungal infection), 18 in fair condition (25-49% crown die off, minor basal damage), and 68 in good condition (less than 25% crown die off, no basal damage). See attached table and maps for tree locations, sizes, species, conditions, and recommendations. The current proposed fence alignment is shown on the maps as an orange dashed line and is subject to change based on avoidance of impacts to natural/cultural resources to the extent practicable.
4. Of the 23 trees in poor condition, one double trunk white oak should be considered a hazard tree due to its proximity to the chapel and its advanced decay (see t-85 in the attached Figure 4). It has the potential to cause extensive damage to the chapel and possibly harm to human life.
5. Should you have any questions, please contact Mr. Dan Cockerham at (410) 962-2792.

Encl


AMY GUISE
Chief, Planning Division

LIST OF SURVEYED TREES FOR SECURITY FENCE IMPROVEMENTS AT JBM-HH

TREE ID	CONDITION	DBH	SCINAME	COMNAME	Recommendations
t-1	poor	13	Celtis occidentalis	Hackberry	Recommended Removal
t-2	good	17	Acer saccharum	Sugar Maple	
t-3	poor	12	Koelreuteria paniculata	Golden Rain Tree	Recommended Removal
t-4	good	21	Quercus rubra	Northern Red Oak	
t-5	good	20	Quercus rubra	Northern Red Oak	
t-6	poor	18	Quercus rubra	Northern Red Oak	Recommended Removal
t-7	poor	16	Quercus rubra	Northern Red Oak	Recommended Removal
t-8	good	18	Quercus rubra	Northern Red Oak	
t-9	good	20	Quercus rubra	Northern Red Oak	
t-10	good	17	Quercus rubra	Northern Red Oak	
t-11	fair	17	Quercus rubra	Northern Red Oak	
t-12	good	20	Quercus rubra	Northern Red Oak	
t-13	good	17	Quercus rubra	Northern Red Oak	
t-14	good	16	Quercus rubra	Northern Red Oak	
t-15	good	14	Quercus rubra	Northern Red Oak	
t-16	poor	16	Quercus rubra	Northern Red Oak	Recommended Removal
t-17	good	18	Quercus rubra	Northern Red Oak	
t-18	poor	16	Quercus rubra	Northern Red Oak	Recommended Removal
t-19	poor	19.5	Quercus rubra	Northern Red Oak	Recommended Removal
t-20	dead	12.2	Quercus rubra	Northern Red Oak	Recommended Removal
t-21	dead	12.4	Quercus rubra	Northern Red Oak	Recommended Removal
t-22	good	17.8	Quercus rubra	Northern Red Oak	
t-23	fair	14	Quercus rubra	Northern Red Oak	
t-24	dead	11	Quercus rubra	Northern Red Oak	Recommended Removal
t-25	fair	16	Quercus rubra	Northern Red Oak	
t-26	dead	13.2	Quercus rubra	Northern Red Oak	Recommended Removal
t-27	good	20.5	Juniperus virginiana	Eastern redcedar	
t-28	good	15	Juniperus virginiana	Eastern redcedar	

LIST OF SURVEYED TREES FOR SECURITY FENCE IMPROVEMENTS AT JBM-HH

TREE ID	CONDITION	DBH	SCINAME	COMNAME	Recommendations
t-29	good	17.3	Acer rubrum	Red Maple	
t-30	poor	16	Acer rubrum	Red Maple	Recommended Removal
t-31	fair	12.4	Acer rubrum	Red Maple	
t-32	good	24.8	Quercus rubra	Northern Red Oak	
t-33	good	29.8	Quercus palustris	Pin Oak	
t-34	poor	20.7	Tilia cordata	Little Leaf Linden	Recommended Removal
t-35	fair	16.6	Acer saccharum	Sugar Maple	
t-36	dead	19.3	Acer saccharum	Sugar Maple	Recommended Removal
t-37	fair	9	Tilia cordata	Little Leaf Linden	
t-38	poor	5.5	Crataegus sp.	Hawthorn	Recommended Removal
t-39	poor	5.5	Crataegus sp.	Hawthorn	Recommended Removal
t-40	fair	14.4	Prunus serotina	Black Cherry	
t-41	fair	5	Cercis canadensis	Eastern Red Bud	
t-42	poor	15	Quercus palustris	Pin Oak	Recommended Removal
t-43	poor	8	Quercus palustris	Pin Oak	Recommended Removal
t-44	good	30	Quercus palustris	Pin Oak	
t-45	good	38.8	Quercus phellos	Willow Oak	
t-46	good	31.5	Quercus phellos	Willow Oak	
t-47	good	33	Quercus phellos	Willow Oak	
t-48	good	29	Quercus phellos	Willow Oak	
t-49	good	27	Quercus phellos	Willow Oak	
t-50	good	42	Quercus phellos	Willow Oak	
t-51	good	29.5	Quercus phellos	Willow Oak	
t-52	good	37	Quercus phellos	Willow Oak	
t-53	good	35.3	Quercus phellos	Willow Oak	
t-54	poor	5	Malus sp.	Crab apple	Recommended Removal
t-55	fair	4	Malus sp.	Crab Apple	
t-56	good	42.5	Quercus phellos	Willow Oak	
t-57	good	37	Quercus phellos	Willow Oak	
t-58	good	41.2	Quercus phellos	Willow Oak	
t-59	good	32.3	Quercus phellos	Willow Oak	
t-60	good	22	Pinus strobus	White Pine	
t-61	good	17	Pinus strobus	White Pine	
t-62	good	38.4	Quercus phellos	White Oak	
t-63	good	37.7	Quercus phellos	White Oak	
t-64	good	32.5	Quercus phellos	White Oak	
t-65	poor	22.8	Acer rubrum	Red Maple	Recommended Removal
t-66	good	43.3	Quercus phellos	White Oak	
t-67	fair	16.6	Acer rubrum	Red Maple	
t-68	good	43.3	Quercus phellos	White Oak	

LIST OF SURVEYED TREES FOR SECURITY FENCE IMPROVEMENTS AT JBM-HH

TREE ID	CONDITION	DBH	SCINAME	COMNAME	Recommendations
t-69	good	45.9	Quercus phellos	White Oak	
t-70	good	21.8	Pinus strobus	White Pine	
t-71	good	47	Quercus phellos	White Oak	
t-73	good	39	Quercus phellos	White Oak	
t-73	good	29	Quercus phellos	White Oak	
t-74	good	37.7	Quercus phellos	White Oak	
t-75	good	37	Quercus phellos	White Oak	
t-76	good	29.8	Quercus phellos	White Oak	
t-77	good	31.5	Quercus phellos	White Oak	
t-78	good	33.7	Quercus phellos	White Oak	
t-79	good	39.5	Quercus phellos	White Oak	
t-80	good	33.3	Quercus phellos	White Oak	
t-81	good	32.5	Quercus phellos	White Oak	
t-82	good	32.8	Quercus phellos	White Oak	
t-83	good	30	Quercus phellos	White Oak	
t-84	good	13.7	Carya glabra	Pignut hickory	
t-85	poor	32	Quercus phellos	Willow Oak	Recommended Removal
t-86	good	71.3	Abies balsamea	Balsam Fir	
t-87	dead	22.6	Quercus rubra	Northern Red Oak	Recommended Removal
t-88	fair	34	Quercus alba	White Oak	
t-89	good	6	Robinia pseudoacacia	Black Locust	
t-90	fair	12	Ulmus rubra	Slippery Elm	
t-91	poor	4	Fraxinus pennsylvanica	Green Ash	Recommended Removal
t-92	good	8	Acer nigrum	Black Maple	
t-93	fair	5	Fraxinus pennsylvanica	Green Ash	
t-94	poor	27	Quercus montana	Chestnut Oak	Recommended Removal
t-95	poor	6	Ailanthus altissima	Tree of Heaven	Recommended Removal
t-96	good	8	Morus rubra	Red Mulberry	
t-97	good	10.5	Acer saccharum	Sugar Maple	
t-98	good	12.5	Acer saccharum	Sugar Maple	
t-99	good	15	Thuja occidentalis	American Arborvitae	
t-100	good	6	Morus rubra	Red Mulberry	
t-101	good	6	Ulmus rubra	Slippery Elm	
t-102	good	4	Morus rubra	Red Mulberry	
t-103	fair	10	Prunus serotina	Black Cherry	
t-104	good	12	Prunus serotina	Black Cherry	
t-105	good	4	Morus rubra	Red Mulberry	
t-106	poor	15	Catalpa speciosa	Catalpa	Recommended Removal
t-107	fair	15	Ailanthus altissima	Tree of Heaven	
t-108	good	8	Catalpa speciosa	Catalpa	

LIST OF SURVEYED TREES FOR SECURITY FENCE IMPROVEMENTS AT JBM-HH

TREE ID	CONDITION	DBH	SCINAME	COMNAME	Recommendations
t-109	fair	18	Ulmus rubra	Slippery Elm	
t-110	dead	8	Ailanthus altissima	Tree of Heaven	Recommended Removal
t-111	fair	10	Catalpa speciosa	Catalpa	
t-112	fair	8	Catalpa speciosa	Catalpa	
t-113	poor	15	Acer negundo	Boxelder Maple	Recommended Removal
t-114	poor	21	Acer saccharinum	Silver Maple	Recommended Removal
t-115	poor	20	Morus rubra	Red Mulberry	Recommended Removal
t-116	dead	34	Quercus alba	White Oak	Recommended Removal
t-117	good	27.5	Quercus phellos	Willow Oak	

Legend

Proposed Fence Line

Surveyed Trees (dbh)

Dead

- 0- 10.5
- 10.5 - 17.3
- 17.3 - 24.8
- 24.8 - 39.5
- 39.5 - 71.3

Poor

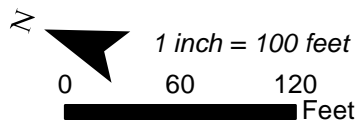
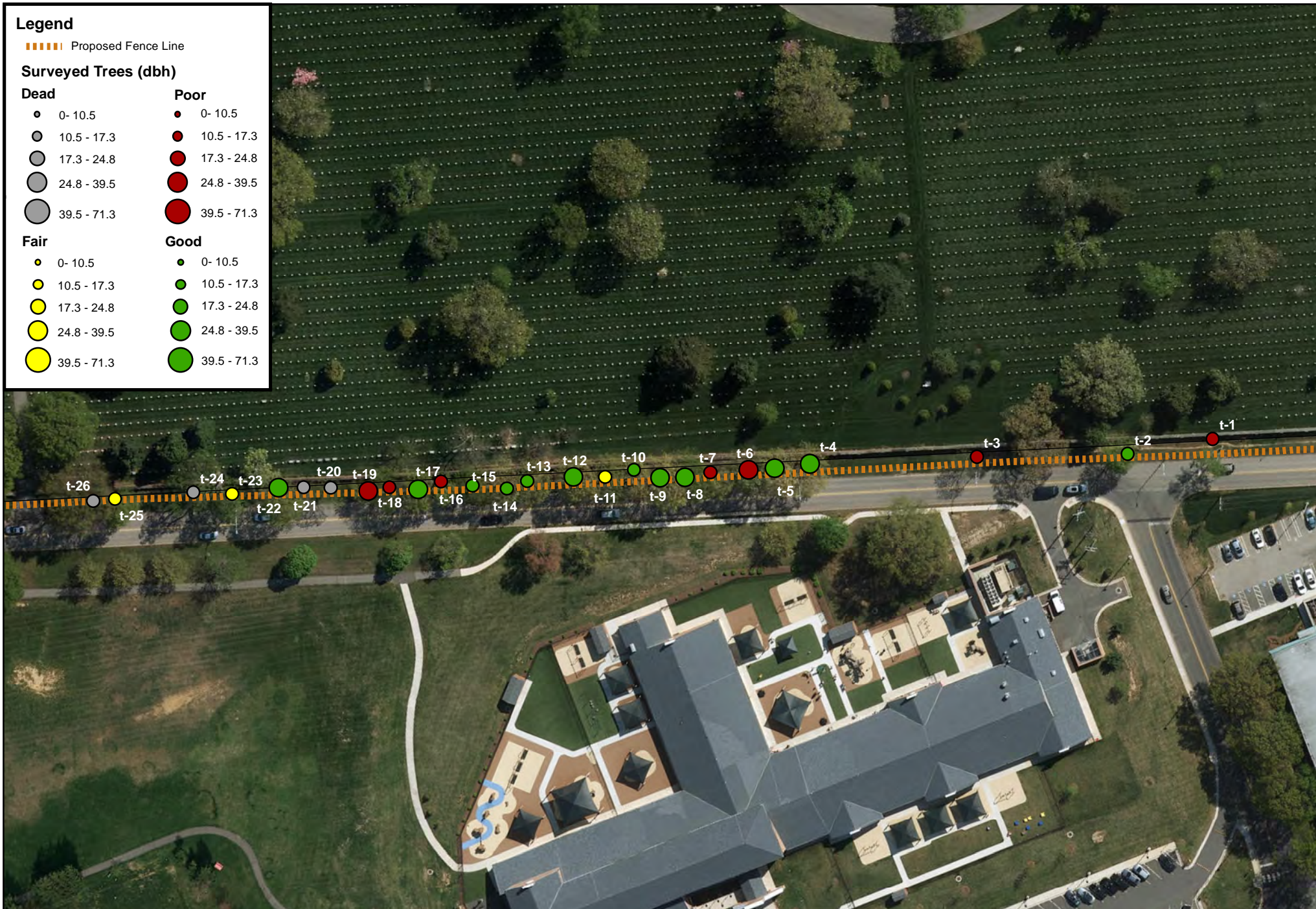
- 0- 10.5
- 10.5 - 17.3
- 17.3 - 24.8
- 24.8 - 39.5
- 39.5 - 71.3

Fair

- 0- 10.5
- 10.5 - 17.3
- 17.3 - 24.8
- 24.8 - 39.5
- 39.5 - 71.3

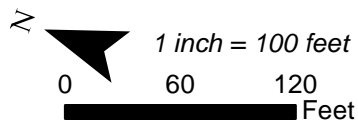
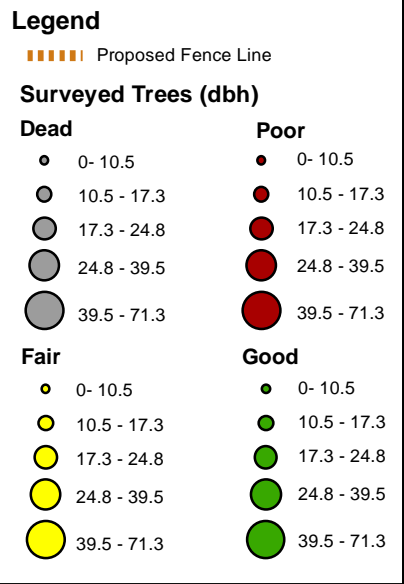
Good

- 0- 10.5
- 10.5 - 17.3
- 17.3 - 24.8
- 24.8 - 39.5
- 39.5 - 71.3



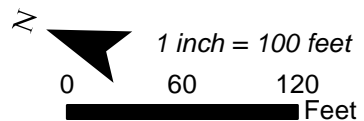
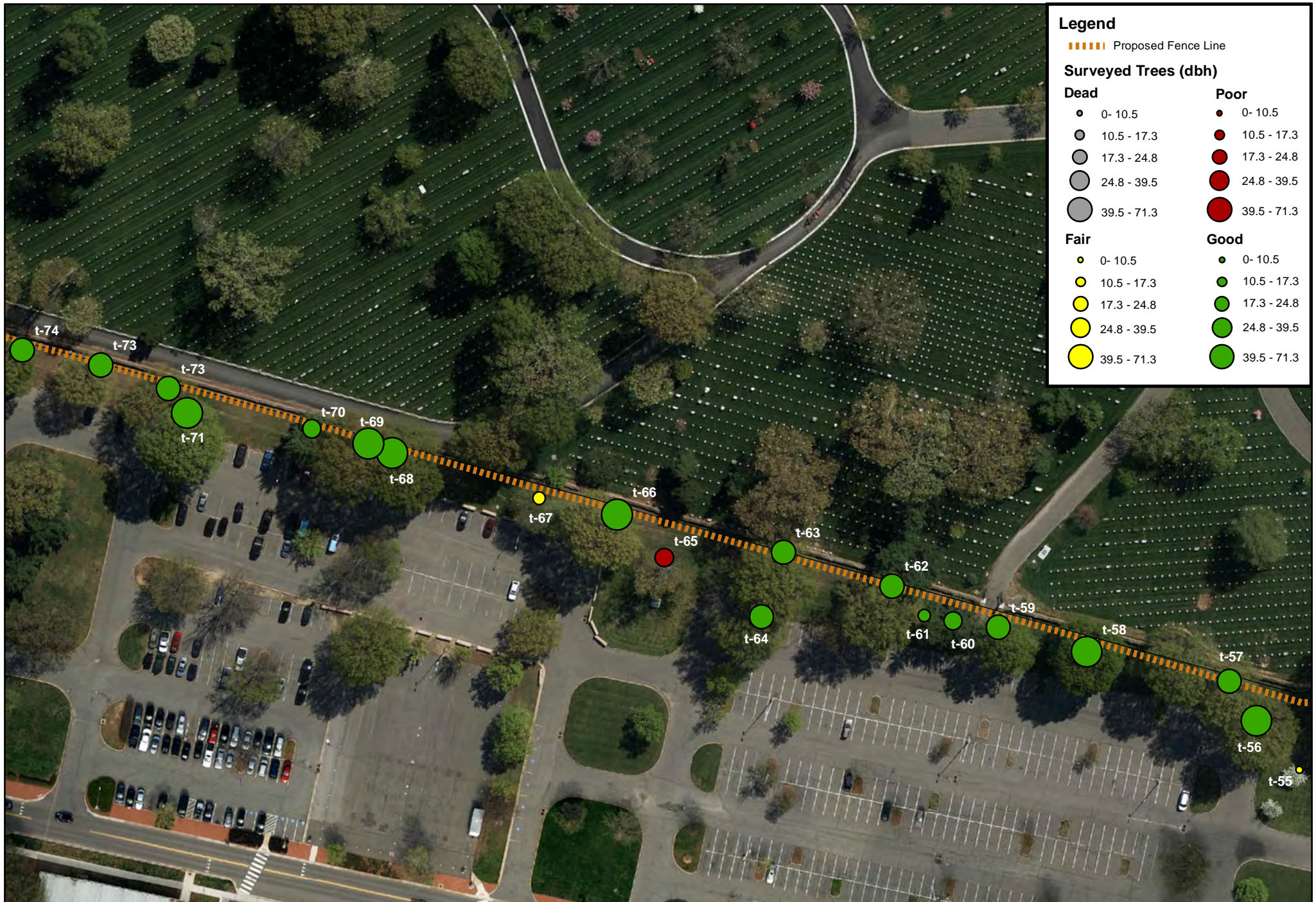
JBM-HH Fence Line Security Improvements
Tree Survey

Figure 1



JBM-HH Fence Line Security Improvements
Tree Survey

Figure 2



JBM-HH Fence Line Security Improvements
Tree Survey

Figure 3

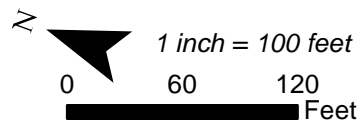


Legend

Proposed Fence Line

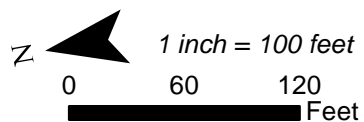
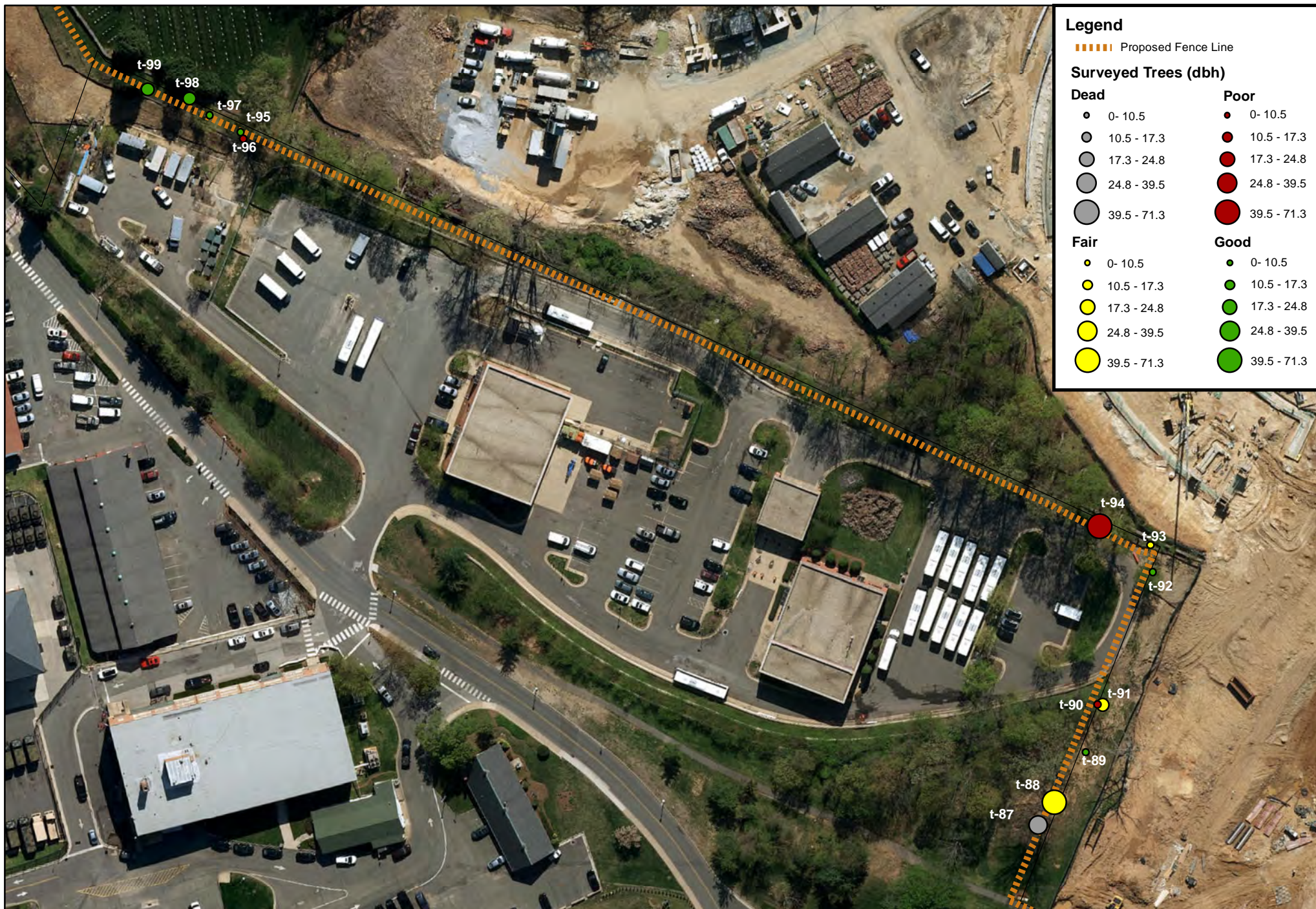
Surveyed Trees (dbh)

Dead	Poor
● 0- 10.5	● 0- 10.5
● 10.5 - 17.3	● 10.5 - 17.3
● 17.3 - 24.8	● 17.3 - 24.8
● 24.8 - 39.5	● 24.8 - 39.5
● 39.5 - 71.3	● 39.5 - 71.3
Fair	Good
● 0- 10.5	● 0- 10.5
● 10.5 - 17.3	● 10.5 - 17.3
● 17.3 - 24.8	● 17.3 - 24.8
● 24.8 - 39.5	● 24.8 - 39.5
● 39.5 - 71.3	● 39.5 - 71.3



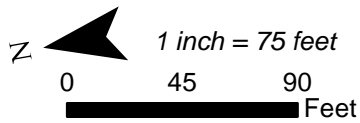
JBM-HH Fence Line Security Improvements
Tree Survey

Figure 4



JBM-HH Fence Line Security Improvements
Tree Survey

Figure 5



JBM-HH Fence Line Security Improvements
Tree Survey

Figure 6