

## IMPACT MITIGATION RECOMMENDATIONS

### Archeology

This section provides specific recommendations concerning the potential archeological impacts associated with proposed project activities at Elkmont Historic District. The recommendations are organized by the principal types of ground- disturbing activities that could occur, including those associated with building restoration, removal, rehabilitation, preservation and reconstruction, parking lot construction, and proposed water and sewer line improvements. Detailed recommendations concerning individual buildings and groups of buildings are provided as part of the site- specific recommendation for 4oSV120, 4oSV122 and 4oSV166, and are summarized in Table E- 1.

### Building Removal, Restoration, Rehabilitation and Reconstruction

The Elkmont project alternatives propose a variety of treatments for the historic buildings. These activities have the potential to impact shallow archeological deposits surrounding and beneath buildings, as well as associated landscape features. Any such activities carried out at Elkmont will take place in accordance with protocol developed to limit potential impacts to both natural and cultural resources and will include the following provisions:

- The potential disturbance area for the area of operation will be defined and surveyed (shovel tested) for archeological deposits. Monitoring or survey, as appropriate, will also be conducted beneath the buildings if ground- disturbing activities are required (such as foundation removal, etc.).
- Use of heavy machinery in the area (including traversing the area or setup) will not be permitted if significant deposits are present within the A horizon or plow zone. If buried deposits are present, the potential for impact will be assessed on a case- by- case basis. Factors to be considered include depth and type of deposits, and soil type. Installation of protective matting can be considered as a means to prevent impact from vehicular traffic.

### Parking Areas

Alternatives B through F include proposed parking areas at several locations within the District. The following specific recommendations are made concerning these proposed improvements.

- Wonderland Hotel Parking (Alternatives D–F). Proposed parking area on ridge top east of the Wonderland Hotel. This area was surveyed, and no potentially significant resources were identified. However, monitoring is recommended during any ground- disturbing activities, due to the potential for discrete features associated with the former Wonderland Hotel.
- Elkmont Historic District Orientation and Day Use Parking Area (Alternatives B–F). Proposed parking is north of 434 Quarters. This area was surveyed, and no potentially significant resources were identified. With the exception of monitoring during construction, no additional work is recommended.
- Wonderland Overflow and Day Use Parking Area (Alternatives E–F). This area, which lies across the proposed new Little River bridge, was surveyed and no potentially



significant resources were identified. With the exception of monitoring during construction, no additional work is recommended.

- Appalachian Clubhouse (Alternatives B–F). Resurfacing of existing parking area. This area was surveyed, and no potentially significant resources were identified. With the exception of monitoring during construction, no additional work is recommended.
- Day Use/Daisy Town/Jakes Creek Trail (Alternatives B–F). Proposed parking area at site of Cabins 12 and 14. This area was surveyed, and no potentially significant resources were identified. No additional work is recommended.
- Day Use/Jakes Creek Trail (Alternative F). Proposed parking area east of road. This area was surveyed. The northern part of the proposed parking area is eroded, and contains no significant or potentially significant resources. Additional resource evaluation is recommended prior to any ground- disturbing activities in the southern portion of the proposed parking area.
- Day Use/Little River Trail (Alternatives B–F). Proposed parking area along both sides of the Little River Trail. This area was surveyed. The southern part of the proposed parking area (south of the trail) does not contain potentially significant resources and no additional work is recommended in that area. For the northern part of the area, additional resource evaluation is recommended prior to any ground- disturbing activities.

#### Road and Bridge Improvement

Alternatives D through F include potential road and bridge improvements within the District. The following specific recommendation is made concerning these proposed improvements.

- Bridge Replacement (Alternatives E–F). Potential replacement of bridge abutments for the bridge leading from the Wonderland Club north across the Little River to the existing air quality monitoring station. There are no indications that historic deposits extend into this area. With the exception of monitoring during construction, no additional work is recommended.

#### Water System Improvements

Alternatives B through F include various degrees of water system improvements to support project options ranging from day use through overnight stays at selected buildings. The following specific recommendations are made concerning these proposed improvements, and are provided by improvement type or water line segment.

- Wastewater Treatment Plant Expansion (Alternative E and F). Expansion of the existing wastewater treatment plant northwest of the campground is proposed and could potentially impact a 100 by 100 foot area. This area was surveyed, and because no potentially significant resources were identified, no additional work is recommended.
- Wonderland Club Area (Alternatives D–F). A new water line is proposed extending from the Park Quarters area, north and east along the inside (upslope side) of the road leading



up to Wonderland Club, continuing along the south/east side of the road to the Paine cabin (# 58- 2B). This entire corridor was surveyed and no significant archeological resources were identified. With the exception of monitoring during construction, no additional work is recommended.

- Wonderland Club Area and Campground Area (Alternatives D–F). A new water line is proposed from the Park Quarters area, southeast along the south side of the road to the Little River Bridge. The entire corridor was surveyed. The only archeological resources recovered consist of several chert artifacts recovered from fill and are not considered significant. With the exception of monitoring during construction, no additional work is recommended.
- Campground Area (Alternatives D–F). A new water line is proposed extending across the Little River Bridge and west along the north side of the road to an existing water line along the north- south campground road. The single artifact located along the actual water line corridor appears to be redeposited and has no research potential. Consequently, no additional work is recommended for this segment as long as construction is limited to the low area along the road.
- Campground Area (Alternatives C–F). A new water line is proposed extending west from Jakes Creek Bridge at Daisy Town and then north to an existing water line in the campground. In addition, replacement of all or parts of the existing line running north from that point to the line along the north side of Elkmont Road leading to the line along the north- south campground road is proposed. The new segment extending from Jakes Creek to the existing line was surveyed and no resources were identified. Therefore, no additional work is recommended. Replacement of the existing water line within the previously disturbed corridor will not impact significant resources, and will avoid potentially significant prehistoric and historic period deposits. With the exception of monitoring during construction, no additional work is recommended in relation to water line replacement activities.
- Water Treatment Facilities area (Alternatives C–F). New water lines are proposed extending from Jakes Creek west and then south to the water treatment facility. Unless these lines can be routed within previously disturbed areas within the road or along existing lines, additional work is recommended to delineate and evaluate these resources. The small part of this line located at the base of the hill in this area will not impact any significant resources, and no additional work is recommended in that area.
- Daisy Town (Alternative B–F). A new water line is proposed extending from Bearwallow Branch south through Daisy Town, and then west to Jakes Creek. This area was surveyed, and no significant resources were identified along the proposed corridor. With the exception of monitoring during construction, no further work is recommended.
- Society Hill (Alternative E and F). A new water line is proposed extending from Jakes Creek south through Society Hill to the McNabb cabin (#41). This area was surveyed, and no significant resources were identified. As long as the corridor is limited to its



proposed location along the road and west of the terrace cut bank, no further work is recommended.

- Millionaire's Row (Alternative E and F). A new water line is proposed extending from Bearwallow Branch east to Little River Trail, and then south along the east/north side of the trail past the Cambier cabin (#49). The portion of this line from Bearwallow Branch to the proposed gate at the Cambier cabin (#49) was surveyed. The area west of the trail crossed by the proposed water line is not believed to contain significant prehistoric or historic period deposits and, with the exception of monitoring during construction, no further work is recommended. Finally, the portion of this line east of the gate at Cambier cabin (# 49) will require survey if it is to be constructed.

#### Sewer System Improvements

Alternatives B through F include various degrees of sewer system improvements to support project options ranging from day use through overnight stays at selected buildings. The following specific recommendations are made concerning these proposed improvements.

- Wonderland Club Area (Alternatives D–F). A new sewer line is proposed from the Park Quarters area extending north and east along the inside (upslope side) of the road leading up to the Wonderland Club, and then along the south/east side of the road to the Paine cabin (#58- 2B). This entire corridor was surveyed, and no significant archeological resources were identified. With the exception of monitoring during construction, no additional work is recommended.
- Wonderland Club Area and Campground Area (40SV165) (Alternatives D–F). A new sewer line is proposed from the Park Quarters area southeast along the north side of the road to existing facilities adjacent to the Little River Bridge. The entire corridor was surveyed. Part of this corridor impacts resources identified from a discrete Woodland period occupation. The deposits there are considered potentially significant and additional evaluation is recommended prior to any ground- disturbing activities in that area. No additional work is recommended along the rest of this corridor.
- Campground Area (Alternatives C–F). A new sewer line is proposed extending from Jakes Creek west and north to an existing sewer line in the campground. This segment was surveyed and no resources were identified. No additional work is recommended in association with this construction.
- Daisy Town (Alternatives B–F). A new sewer line is proposed extending from Bearwallow Branch west to Jakes Creek. This segment was surveyed. Additional evaluation of one potentially significant historic resource is recommended prior to any ground- disturbing activities. No additional work is recommended in association with the remainder of this corridor.
- Daisy Town (Alternative F). A new sewer line is proposed extending from the McAmis cabin (# 34) south to the McNabb cabin (#41). This segment was surveyed. There is no potential for disturbance of significant archeological resources along the sewer line corridor, providing that all ground- disturbing activities are confined to the terrace



below the alluvial/colluvial hillslopes. If this condition is met, no additional work is recommended in association with this corridor.

- Daisy Town (Alternative F). A new sewer line is proposed extending from the proposed new line along Jakes Creek Road to the Kuhlman cabin (#40). This segment was surveyed. There are no potentially significant resources along the westernmost part of this segment that passes through a disturbed and eroded area in the north part of the proposed Day Use/Jakes Trail Parking Area. However, the remainder of this proposed line traverses an area with potentially significant resources. Additional resource evaluation will be necessary in association with that western part of the proposed line.
- Millionaire's Row (Alternative E and F). A new sewer line is proposed extending from Bearwallow Branch east to the Little River Trail, and then south along the west/south side of the trail to the Cambier cabin (#49). The segment was surveyed and part of the proposed line contains potentially significant prehistoric deposits. Therefore, additional resource evaluation will be necessary in association with that portion of this segment. The remainder of the proposed line segment is not believed to contain significant deposits, and with the exception of monitoring during construction, no further work is recommended.



**Table E- 1: Recommendations Concerning Potential Impacts to Archeology due to Building Removal or Modification**

Resource	Archeological Status	Recommendation
<b>Appalachian Club - Daisy Town</b>		
Appalachian Clubhouse (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant historic period deposits northeast and west of building, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Sneed (1) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Smith (2) (C)	Partially Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant historic period deposits behind (west of) building, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Higdon (3) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Swan (4) (NC)	Unsurveyed	Complete survey and survey under building prior to any disturbance; determine need for additional work or monitoring at that time.
Addicks (5) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
“Adamless Eden” (5A)(C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Creekmore (6) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Mayo (7) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Levi Trentham Log Cabin (7A) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Mayo Servants’ Quarters (7B) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Cain (8) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Galyon (9) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Galyon rear 1- room. (NC)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Baumann (10) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.



**Table E- 1: Continued**

Resource	Archeological Status	Recommendation
<b>Appalachian Club - Daisy Town (continued)</b>		
Scruggs- Brisco (11) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Sneed (12) (NC)	Surveyed - 40SV120 Locus B	No additional work required.
Cook (13) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Jamerson (14) (NC)	Surveyed - 40SV120 Locus B	No additional work required.
Hale (15) (C)	Surveyed - 40SV120 Locus A	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon, survey under building prior to disturbance, and monitor other ground- disturbing activities.
Burdette (16) (NC)	Surveyed - 40SV120 Locus B	No additional work required.
Bagley (17) (NC)	Surveyed - 40SV120 Locus B	No additional work required.
<b>Appalachian Club - Society Hill</b>		
Gilliand (18) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Thomas (19) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
F. Andrews (20) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Andrews- Sherling (21) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Congleton- Brownlow (22) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
McDonald (23) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
W. Arnett (24) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.





**Table E- 1: Continued**

Resource	Archeological Status	Recommendation
<b>Appalachian Club - Society Hill (continued)</b>		
Franklin (25) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Hutchins (26) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Gaines (27) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Spengler- Schmid (28) (NC)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
F. Arnett (29) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Wright (30) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Matthews (31) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
“Little Cottage” (31A) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Allen (32) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Jeffords (33) (NC)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
McAmis (34) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Culver (35) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Knaffl (36) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Johnston (37) (NC)	Unsurveyed	Survey under building prior to disturbance; monitor other ground- disturbing activities.





**Table E- 1: Continued**

Resource	Archeological Status	Recommendation
<b>Appalachian Club - Society Hill (continued)</b>		
Byers (or Chapman) (38) (C)	Surveyed - 40SV120 Locus C	Avoid or evaluate potentially significant feature north of building. Survey under building prior to disturbance, and monitor other ground- disturbing activities.
Dudley (39) (C)	Surveyed - 40SV120 Locus C	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Kuhlman (40) (C)	Partially Surveyed - 40SV120 Locus D	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Kuhlman garage (40A) (C)	Partially Surveyed - 40SV120 Locus D	Complete survey prior to disturbance and determine need for additional work or monitoring.
Kuhlman woodshed (C)	Partially Surveyed - 40SV120 Locus D	Complete survey prior to disturbance and determine need for additional work or monitoring.
McNabb (41) (NC)	Unsurveyed	Complete survey and survey under building prior to any disturbance; determine need for additional work or monitoring at that time.
McNabb privy (NC)	Unsurveyed	Complete survey prior to disturbance and determine need for additional work or monitoring.
<b>Appalachian Club - Millionaire's Row</b>		
Spence (42) (C)	Unsurveyed	Complete survey and survey under building prior to any disturbance; determine need for additional work or monitoring at that time.
Brandau (43) (C)	Surveyed - 40SV122 Locus B	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Parrott (44) (NC)	Surveyed - 40SV122 Locus B	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Murphy (45) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Murphy garage (45A) (NC)	Unsurveyed	Complete survey prior to disturbance and determine need for additional work or monitoring.
Murphy gazebo (NC)	Unsurveyed	Complete survey prior to disturbance; determine need for additional work or monitoring at that time.
Miller (46) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.



**Table E- 1: Continued**

Resource	Archeological Status	Recommendation
<b>Appalachian Club - Millionaire's Row (continued)</b>		
Faust (47) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Faust garage (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Young (48) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Cambier (49) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
<b>Wonderland Club</b>		
Wonderland Hotel (58) (C)	Surveyed - 40SV166 Locus A	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Wonderland Annex (58) (C)	Surveyed - 40SV166 Locus A	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Wonderland Servants' Quarters (Riordan) (58) (C)	Surveyed - 40SV166 Locus A	Survey under building prior to disturbance; monitor other ground- disturbing activities.
May or Moore (58- 1A) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Paine (58- 2B) (C)	Surveyed - 40SV123 Locus B	Avoid or evaluate potentially significant prehistoric deposits prior to disturbance below A horizon. Survey under building prior to disturbance, and monitor other ground- disturbing activities.
Preston (58- 3C) (C)	Surveyed - 40SV166 Locus A	Survey under building prior to disturbance; monitor other ground- disturbing activities.
Bowman Brown (58- 4D) (NC)	Unsurveyed	Complete survey and survey under building prior to any disturbance; determine need for additional work or monitoring at that time.
Hicks (58- 5E) (C)	Unsurveyed	Complete survey and survey under building prior to any disturbance; determine need for additional work or monitoring at that time.
McMillian/Keith (58- 6F) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.



**Table E- 1: Continued**

Resource	Archeological Status	Recommendation
<b>Wonderland Club (continued)</b>		
Vandergriff (58- 7G) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Tate, Beaman & Tucker (58- 8H) (C)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Richards or Brandau (58- 9I) (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
Richards or Brandau woodshed (NC)	Unsurveyed	Complete survey and survey under building prior to disturbance; determine need for additional work or monitoring at that time.
(C) = Contributing; (NC) = Noncontributing; (I) = Resource Number		

