



Iowa Department of Transportation

SPECIAL PROVISIONS FOR ALTERNATE BORROW AREAS (LOESS HILLS)

**Pottawattamie County
IM-NHS-080-1(385)0--03-78**

**Effective Date
April 21, 2015**

THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

120296.01 DESCRIPTION.

This specification describes the Contractor's responsibilities in regards to locating alternate borrow areas in the Loess Hills region of western Iowa.

Article 2102.03, F, of the Standard Specifications shall apply with modifications and additions contained in this specification.

120296.02 DEFINITIONS.

A. Loess Hills.

Loess Hills is a distinctive topographic region encompassing over 640,000 acres and extending nearly 200 miles in a narrow band adjacent to the Missouri River. Loess material is described as a widespread geologic deposit, but accumulating to depths of 150 feet in places within the Loess Hills landform. Topographic features include distinctive shapes, such as steep, narrow ridge crests, peaks, saddles, and numerous steep side slopes, branching spurs, and precipitous bluffs. Figure 1, attached, shows the Loess Hills landform in relation to the seven principal landform regions of Iowa. Figure 2, attached, shows more specific boundaries of the Loess Hills landform within seven counties of western Iowa.

With the exception of the eastern slope of the Loess Hills, the boundaries shown in Figure 2 will define the Loess Hills landform. Because soil types on the eastern boundary of the Loess Hills tend to be gradational, soil borings will be used to define Loess soils material, using a 50 foot or greater measure to further refine boundaries. Less than 50 foot Loess soils depths will not be considered Loess Hills.

B. Natural Vegetation.

Areas exhibiting natural vegetation cover shall be afforded a higher level of protection than those areas where natural vegetation has been significantly disturbed or removed. Natural vegetation includes herbaceous or woody vegetation that is unmodified by human activities, vegetation

altered in varying degrees by humans, but has retained or regained characteristics of an undisturbed community; or vegetation planted by humans, but is not actively maintained for agricultural or commercial purposes. Natural vegetation includes both native and introduced species, although a higher level of protection will be afforded those areas exhibiting a predominance of native species. Areas cultivated and planted to non-native grasses, legumes, or grass-legume mixtures for purposes of livestock grazing, seed production, or hay crops shall not be given consideration as natural vegetation, except in cases where threatened or endangered species are present or otherwise very high quality habitat is present.

C. Special Landscape Areas and Glenwood Locality.

Special landscape areas and the Glenwood locality shall be afforded the highest level of protection. A general location map, attached, of the twelve special landscape areas is shown on Figure 3A. Figure 3B, attached, shows the location described as the Glenwood locality.

120296.03 CONSTRUCTION.

A. Loess Hills Borrow Material.

1. Avoid or minimize use of borrow material from within the designated Loess Hills boundary. Do not utilize Loess Hills borrow material unless there is no practicable alternative per the discretion of the Engineer. In addition, afford special protection measures for areas within the Loess Hills mapped feature exhibiting native vegetation, previously undisturbed areas, or unique habitat.
2. Do not use of borrow materials from the twelve special landscape areas, Glenwood locality, and west face of the Loess Hills boundary.
3. When borrow sites are necessary within the Loess Hills, shape borrows to blend into the natural surroundings.
4. When land use from the Loess Hills is unavoidable, cultivated land and previously disturbed areas within the Loess Hills can receive less consideration for avoidance and minimization than natural vegetative areas.

B. Alternate Borrow Area Review.

1. The Department, in consultation with the DNR, will review proposed alternate borrow areas within the designated Loess Hills boundary.
2. The DNR will provide input regarding establishing mitigative buffer zones adjacent to areas of natural vegetation.
3. The review process will be completed within 30 calendar days, except under extraordinary circumstances.

120296.04 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

Work required to comply with this specification shall be considered incidental to Excavation, of the class specified, as shown on the plans.

Attachments

Figure 1 – Landform Regions of Iowa

Figure 2 – Special Landscape Areas in the Loess Hills Landform Region

Figure 3A – Special Landscape Areas

Figure 3B – Nebraska Phase Archeological Sites Within the Glenwood Locality in Mills County

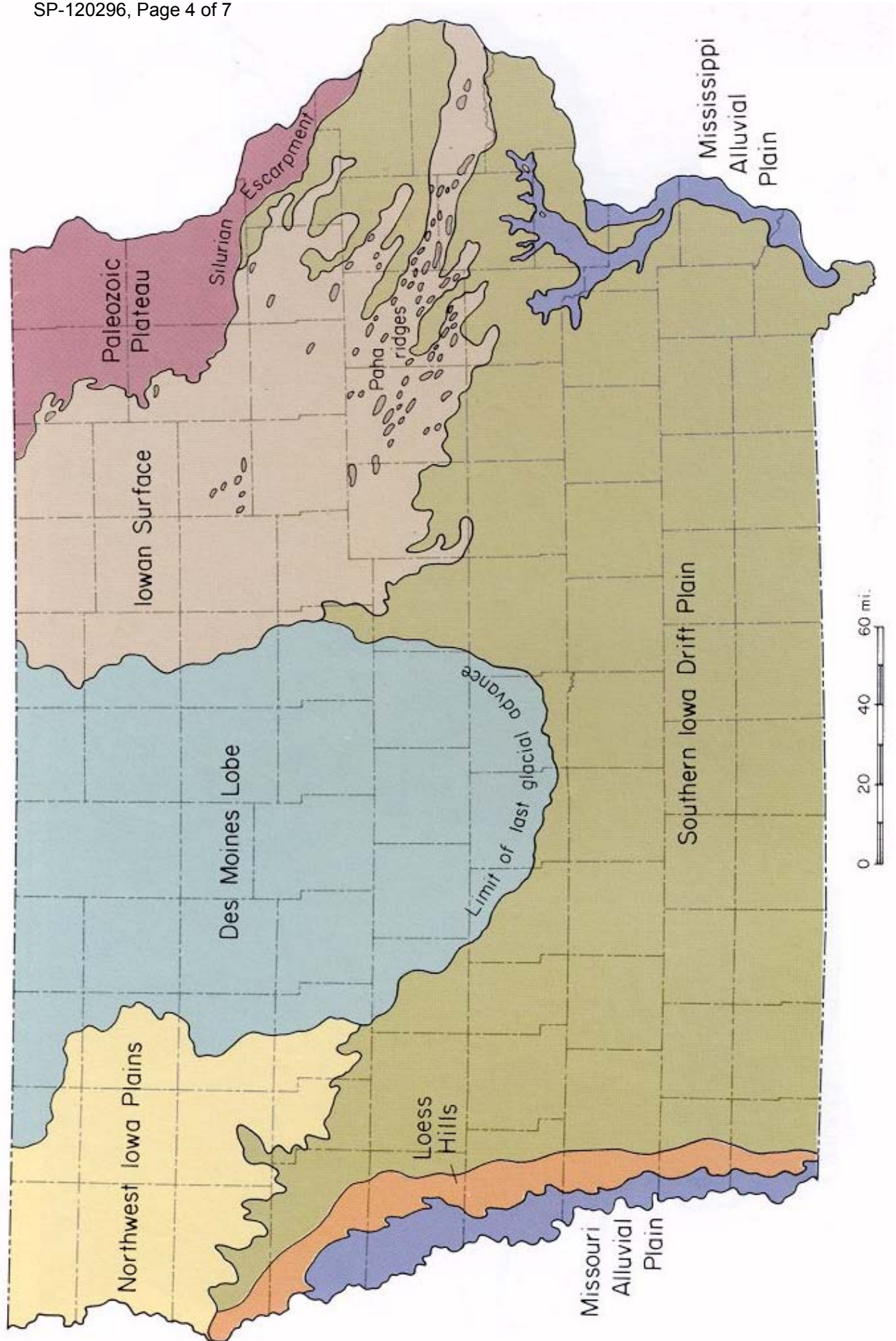


Figure 1

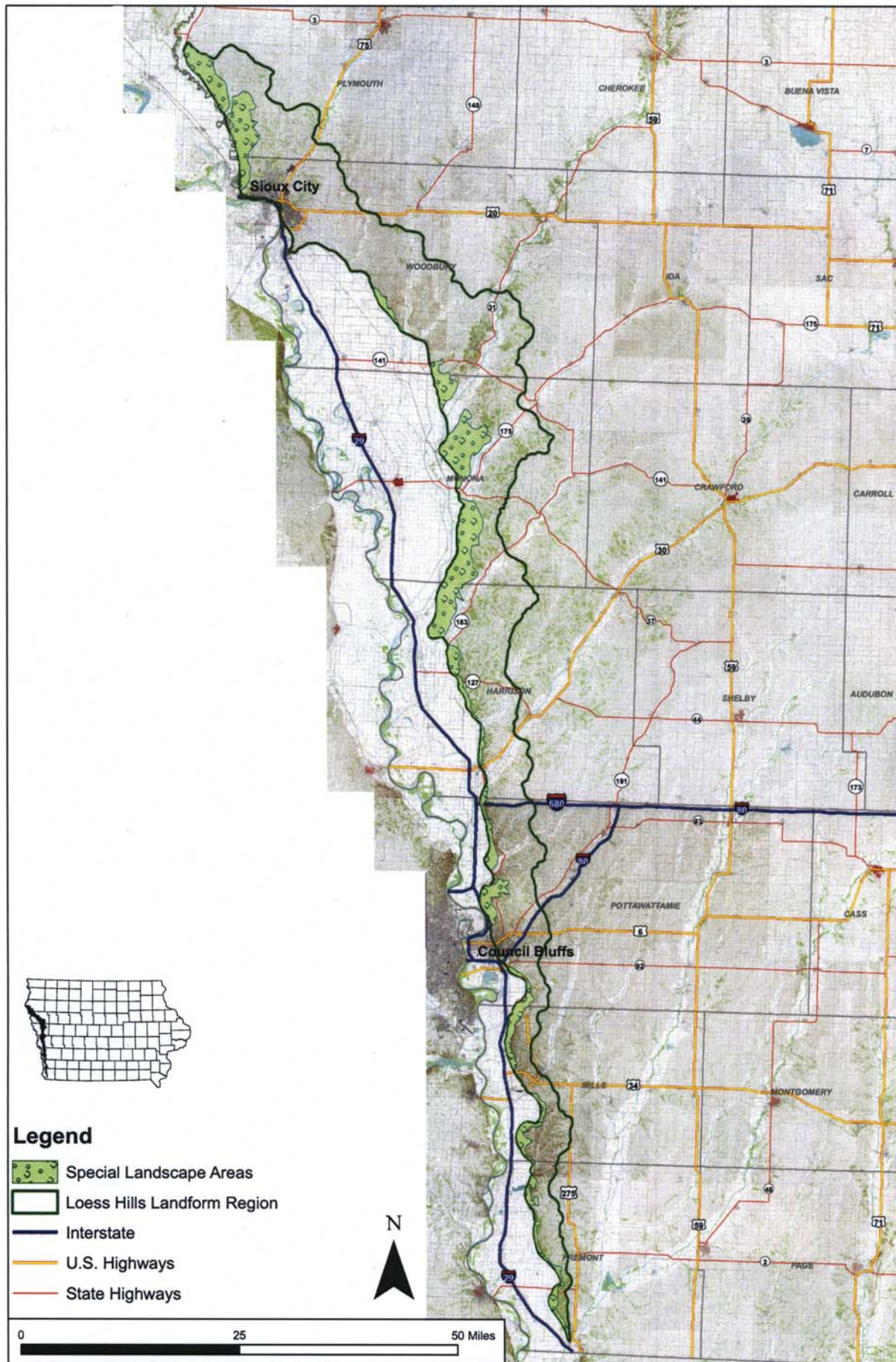
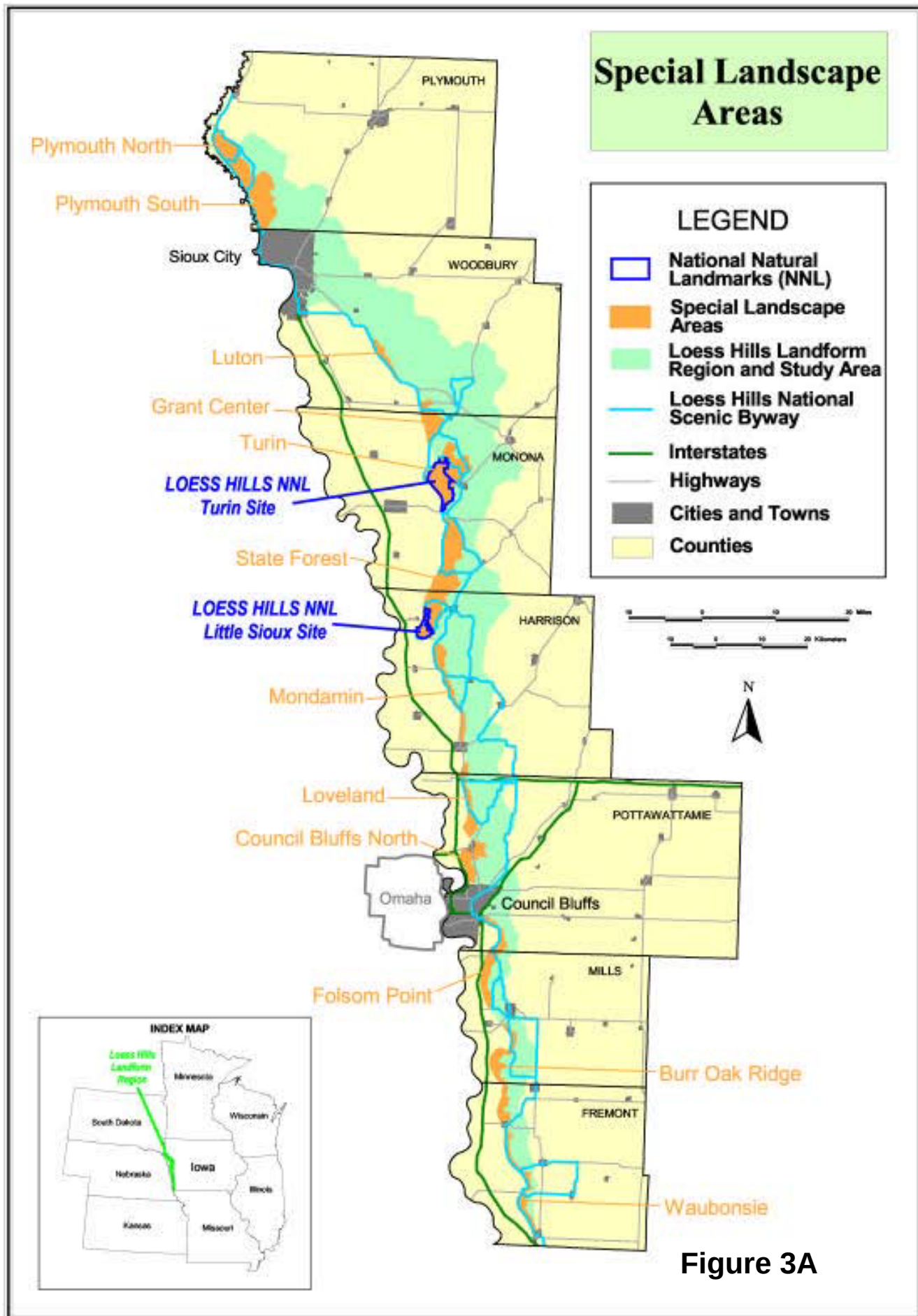


Figure 2



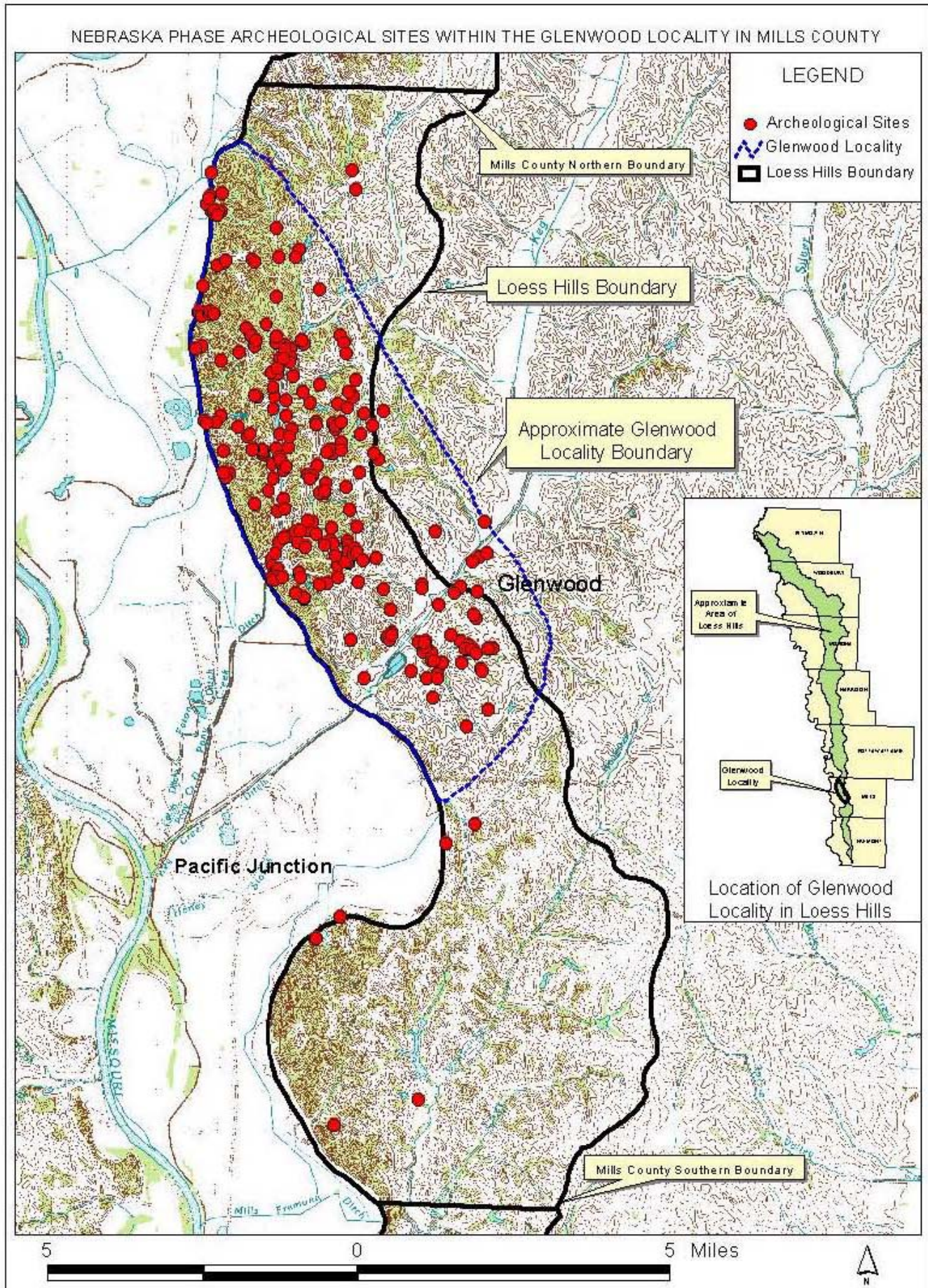


Figure 3B