

MEMORANDUM THRU CEMVS-OD-T/Burick

FOR CEMVS-PM-E

SUBJECT: Mark Twain Lake, Missouri, Supplement No. 7, Design Memorandum No. 9, The Master Plan.

1. Reference:

- a. ER 1130-2-550, Chapter 3: Project Master Plans and Operational Master Plans, approved 15 August 2002
- b. EM 1110-1-400, Engineering and Design: Recreation Facility and Customer Services Standards, 1 November 2004
- c. Mark Twain Lake Master Plan, Design Memorandum No 9, Salt River, Missouri, 2004
- d. Mark Twain Lake Master Plan, Design Memorandum No. 9, Salt River, Missouri, 2004, Supplement No. 5

2. Purpose: The purpose of this supplement is to request approval for the development of additional hardened surface campsites in the Frank Russell Recreation Area Equestrian Camping Facility. This proposal will address an aspect of a recreational facility that has been identified as insufficient to providing quality outdoor experiences. It is projected that subject proposal will improve customer service by providing a quality facility that will meet current standards, visitor demand and operational needs. It is also projected that the proposal will realize an increase in visitation and user fees.

3. Background: Previous camping accommodations offered at Mark Twain Lake permitted trail-riders to board their horses/mules in the Frank Russell Corral, but they had to camp in the adjoining Joanna Loop of the Frank Russell Campground. Because of numerous factors, such as horse/mule care requirements, distance between corral and campsites, and limited visibility of the corralled stock from the campsites, many equine recreational users found the camping conditions undesirable. Many sought alternative boarding and camping accommodations due to these factors.

Supplement No. 5 of the Mark Twain Lake Master Plan addressed this issue by approving the development of three hardened campsites in the Frank Russell Recreation Area in proximity to the Joanna Trail Corral. A 2012 Handshake Partnership grant, and subsequent Challenge Partnership Agreement with the NEMO River Valley Chapter of the Show Me Missouri Back Country Horsemen, funded the construction of the equestrian campsites. Efficient and judicious use of funding, material resources and partnership contributions permitted the development of four campsites which feature hardened surface trailer pads, gravel impact areas, picnic tables, ground grills, lantern hangers, 50 amp electric service, and water service. In addition, a fire ring was added as a feature of the campground.

The facility was opened for public use during the 2013 recreation season, and the reception provided by equestrian enthusiasts was positive. Occupancy rates exceeded expectations, and visitor feedback yielded more campsites were necessary to accommodate anticipated equestrian enthusiast use.

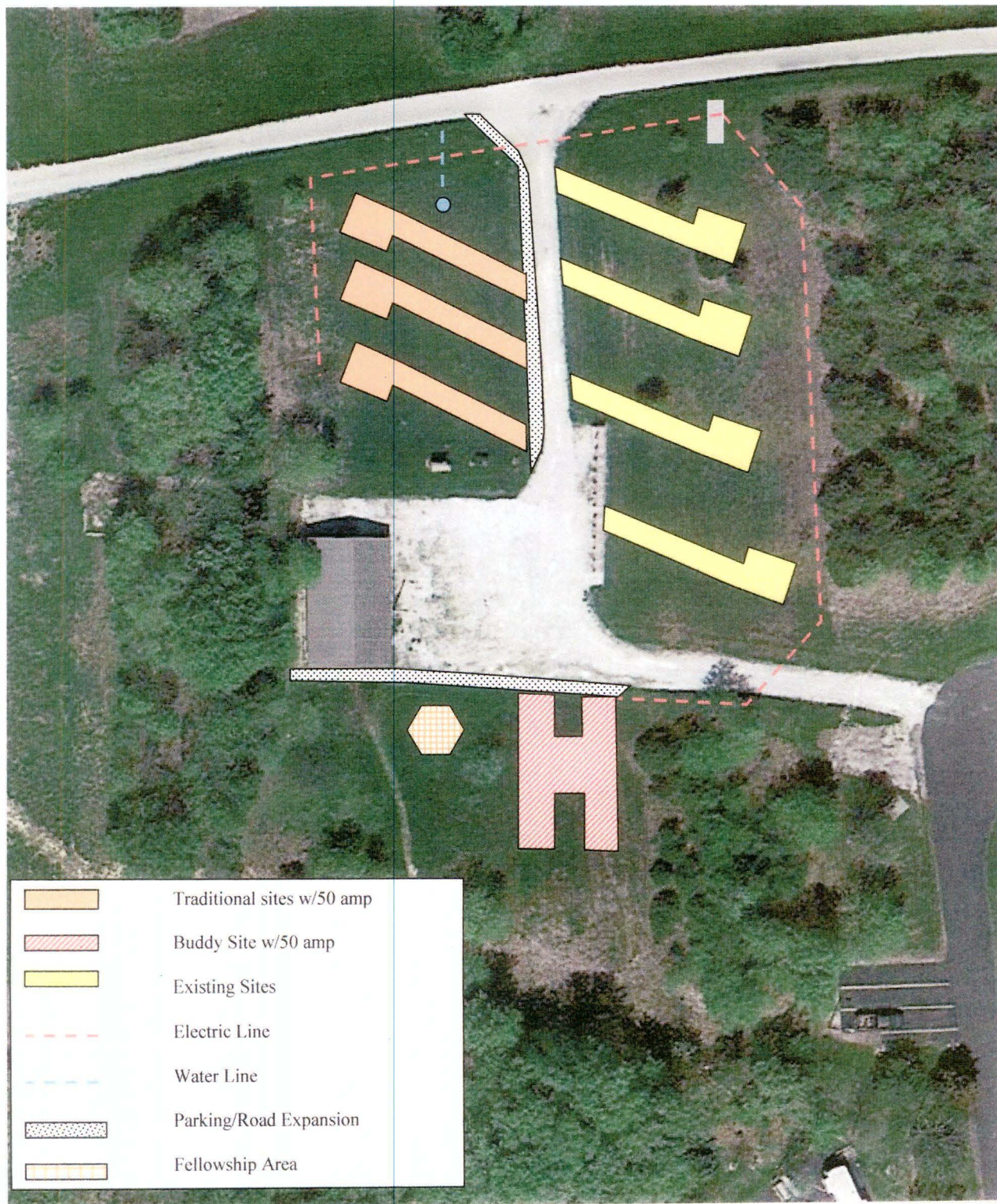
4. Project Description: It is proposed to develop five hardened campsites in the area directly adjacent to the corral, increasing the total available campsites in the Frank Russell Equestrian Campground to nine. Three campsites will be traditional single unit sites, featuring hardened surface trailer pads, gravel impact areas, a picnic table, ground grill, lantern hanger, and 50 amp electric service. The remaining sites are proposed to be developed as "buddy" campsite, and will feature two hardened surface trailer pads with a shared gravel impact area, picnic table, ground grill, lantern hanger and 50 amp electric service. There is potential to include water utilities in proximity to the sites. The hardened sites will provide a favorable recreation environment for equine recreational users, as most enthusiasts possess stock trailers that are outfitted with living quarters. This activity will occur outside the developed campground maintaining a defined separation of recreational uses, but close enough to utilize existing facility utility infrastructure. It will continue to address customer requests by providing a camping facility that permits equine enthusiasts to maintain their equipment and stock at the same location.

It is anticipated that this action will increase customer satisfaction, increase visitation, and promote increased volunteer contributions. Mark Twain Lake has received commitments from the NEMO River Valley Chapter of the Show Me Missouri Back Country Horsemen to support the development and maintenance of the facility in order to maintain compliance with the Master Plan and Partnering Requirements for installation of new recreation structures.

5. Cost Estimate: The cost estimate for this action is \$24,000.00.

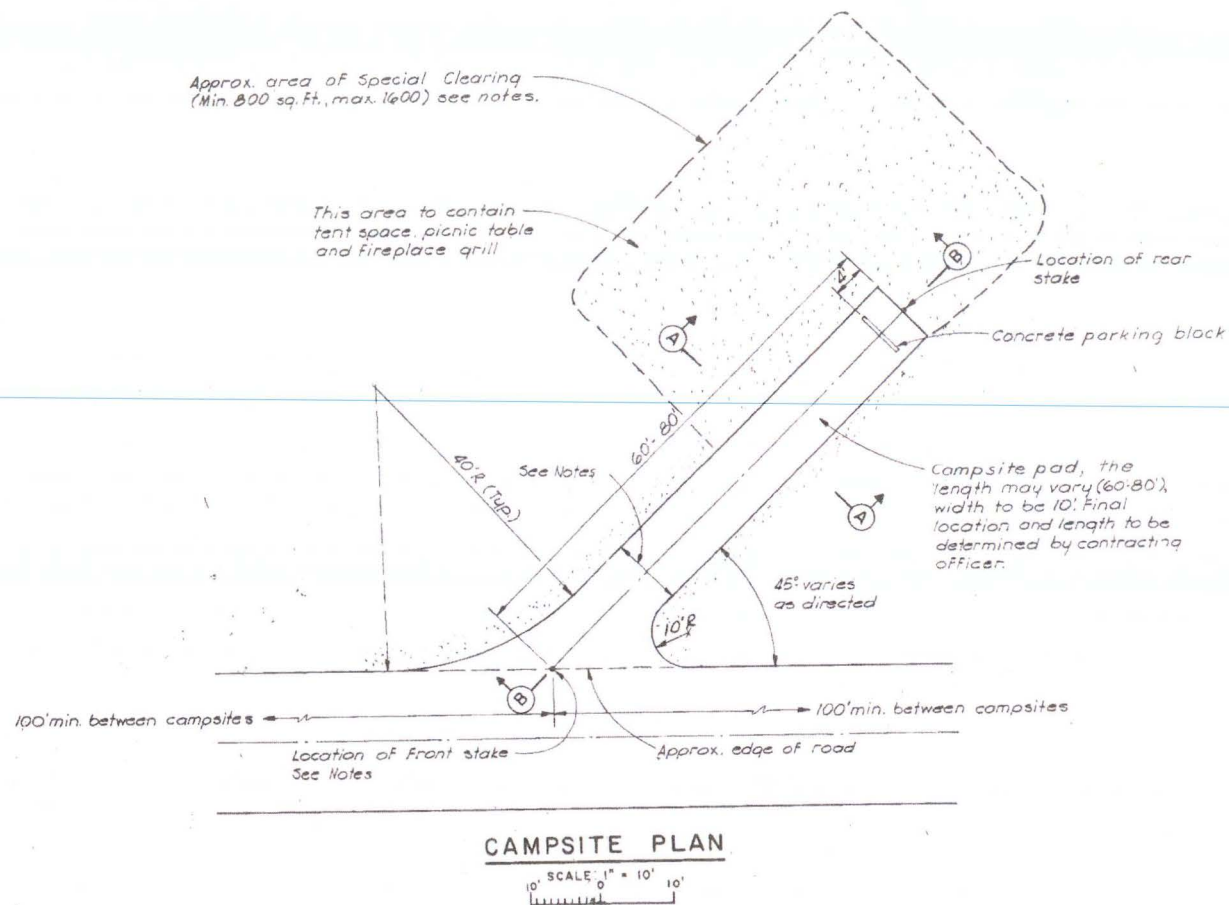
6. Environmental Compliance: An environmental checklist, dated September 21, 2011 was submitted and approved for the initial development. The submitted document addressed the proposed development area.

7. Conclusion: The proposed project addresses an identified need at Mark Twain Lake and is an appropriate proposal to meet the demand for recreational facilities and operational needs. The proposed action is in accordance with the Mark Twain Lake Master Plan and Corps regulations and policies. Approval of this supplement is recommended.



US Army Corps
of Engineers

Clarence Cannon Dam and Mark Twain Lake
Frank Russell Recreation Area – Equestrian Campground
3 Single Unit Campsites, 1 “Buddy” Site
Master Plan Supplement No. 7, Design Memorandum No. 9
Frank Russell Equestrian Campground



US Army Corps
of Engineers

**Clarence Cannon Dam and Mark Twain Lake
Frank Russell Recreation Area – Equestrian Campground**

**Master Plan Supplement No. 7, Design Memorandum No. 9
Typical Single Unit Camp Site Design**

ENVIRONMENTAL CHECKLIST
For
ST. LOUIS DISTRICT CORPS PROJECTS

GENERAL INSTRUCTIONS: This checklist will be used to document environmental compliance under NEPA and Section 404/401 of the CWA on all new construction projects or real estate actions conducted at St. Louis District COE Projects. The checklist also contains questions relating CERCLA and RCRA issues that will be used to evaluate the need for various local, state and federal permits. Please fill out pages 1-3 and forward to OD-

DATE: September 21, 2011

NAME OF PROJECT: Master Plan Supplement No. 5, Design Memorandum No. 9, Frank Russell Recreation Area Equine Camping Facility

LOCATION: Frank Russell Recreation Area

LEGAL DESCRIPTION: T 55N R 7W S 23 COUNTY Ralls County

BRIEF DESCRIPTION OF PROJECT (include photographs, maps and/or drawings):

This action includes the development of three hardened surface campsites in the Frank Russell Recreation Area in proximity to the Joanna Trail Corral. Development includes hardened trailer pads, gravel impact areas, picnic tables, ground grills, lantern hangers, and 50 amp electric service. The sites will provide a favorable recreation environment for equine recreational users, by providing a camping facility that permits maintenance of equipment and stock at the same location. This activity will occur outside the developed campground maintaining a defined separation of recreational uses. Development will be accomplished in partnership with the FOREST Council (Reference attached map.)

ANTICIPATED EFFECTS ON THE ENVIRONMENT AS A RESULT OF PROCEEDING WITH THIS PROJECT:

IS THIS ACTIVITY INCLUDED IN THE MASTER PLAN?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Initial <u>cm</u>
IS THIS ACTIVITY INCLUDED IN THE OMP?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Initial <u>cm</u>
IS THIS ACTIVITY INCLUDED IN A WORKPLAN?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Initial <u>cm</u>
IS THIS ACTIVITY INCLUDED IN THE PMP?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Initial <u>cm</u>

Project Manager initiating Environmental review [Signature] DATE: 9-21-11

Operation Manager's review [Signature] DATE: 9-22-11

Technical Operations review (OD-T) Lynn D. Rehan DATE: 9/23/11

Recommended Action

PM-E Biological review required	YES <input type="checkbox"/> (C-X) <u>9a</u> (A-EIS)	NO <input checked="" type="checkbox"/>	Initials <u>TKG</u>	DATE: <u>9/23/2011</u>
OD-E Cultural review required	YES <input type="checkbox"/> (C-X) (A-EIS)	NO <input checked="" type="checkbox"/>	Initials <u>gib</u>	DATE: <u>9/23/11</u>
CO-E review required	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Initials <u>CFK</u>	DATE: <u>9/23/11</u>
OD-HQ further action required	YES <input type="checkbox"/> Action	NO <input checked="" type="checkbox"/>	Initials <u>R</u>	DATE: <u>9/24/11</u>

CERCLA/RCRA REVIEW

Will the activity involve the storage of hazardous substances or materials (flammable/combustible, compressed gases, pesticides or acids)? YES ☐ NO ☒

If yes, list substances/materials: _____

If so will the site be covered in the spill plan? YES ☐ NO ☐

Will the activity result in a change of the hazardous waste generator status? YES ☐ NO ☒

Will the site store, accumulate or transfer hazardous waste? YES ☐ NO ☒

Will the activity result in a real property transaction? YES ☐ NO ☒

If yes, has a Environmental Baseline Survey been conducted? YES ☐ NO ☐

Is there a change in land use or the site Development Plan requiring a state permit or license? YES ☐ NO ☒

Will fuels be dispensed (temporarily or permanently) at the site? YES ☐ NO ☒

Does the activity involve the installation, removal or upgrade of storage tanks containing petroleum products, hazardous substances or wastes? YES ☐ NO ☒

Are there any pipelines located on the site? YES ☐ NO ☒

Will solid waste be generated at the site? YES ☐ NO ☒

Will construction, demolition or remodeling of facilities result in disturbance of asbestos, PCB's or Lead-Based Paint? YES ☐ NO ☒

Are there wastewater discharges associated with the activity regulated by outside agencies creating any of the following:

Stormwater runoff

Dredge fill

Wastewater treatment

Septic systems

Vehicle washing

Industrial waste systems

Lines which bypass treatment structures

requiring a National Pollution Discharge Elimination System (NPDES) permit?

YES ☐ NO ☒

Does the activity result in the operation of a public drinking water system, wellhead, swimming pool or beach regulated by state EPA or Public Health agencies or federal agencies enforcing the Clean Water Act? YES ☐ NO ☒

Will the activity involve construction, painting, venting or open burning that will require an Air Emissions Permit? YES ☐ NO ☒

NATURAL/CULTURAL RESOURCES REVIEW

Does the activity result in the removal of trees?

YES ☐

NO ☒

If YES, list the species name and number to be removed. _____

Are state and/or federal threatened/endangered/candidate species located in the project area?

YES ☒

NO ☐

If YES, list the species. Indiana Bat, Gray Bat

Will the project result in the modification or destruction of wetlands or the discharge of dredge material into the waters of the United States?

YES ☐

NO ☒

If YES, estimate the acreage to be altered. _____

Will the project result in the modification or destruction of Farmland? YES ☐

NO ☒

If YES, estimate the acreage to be altered. _____

Does the proposed project area contain known cultural properties?

YES ☐

NO ☒

If YES, describe and list site numbers. _____

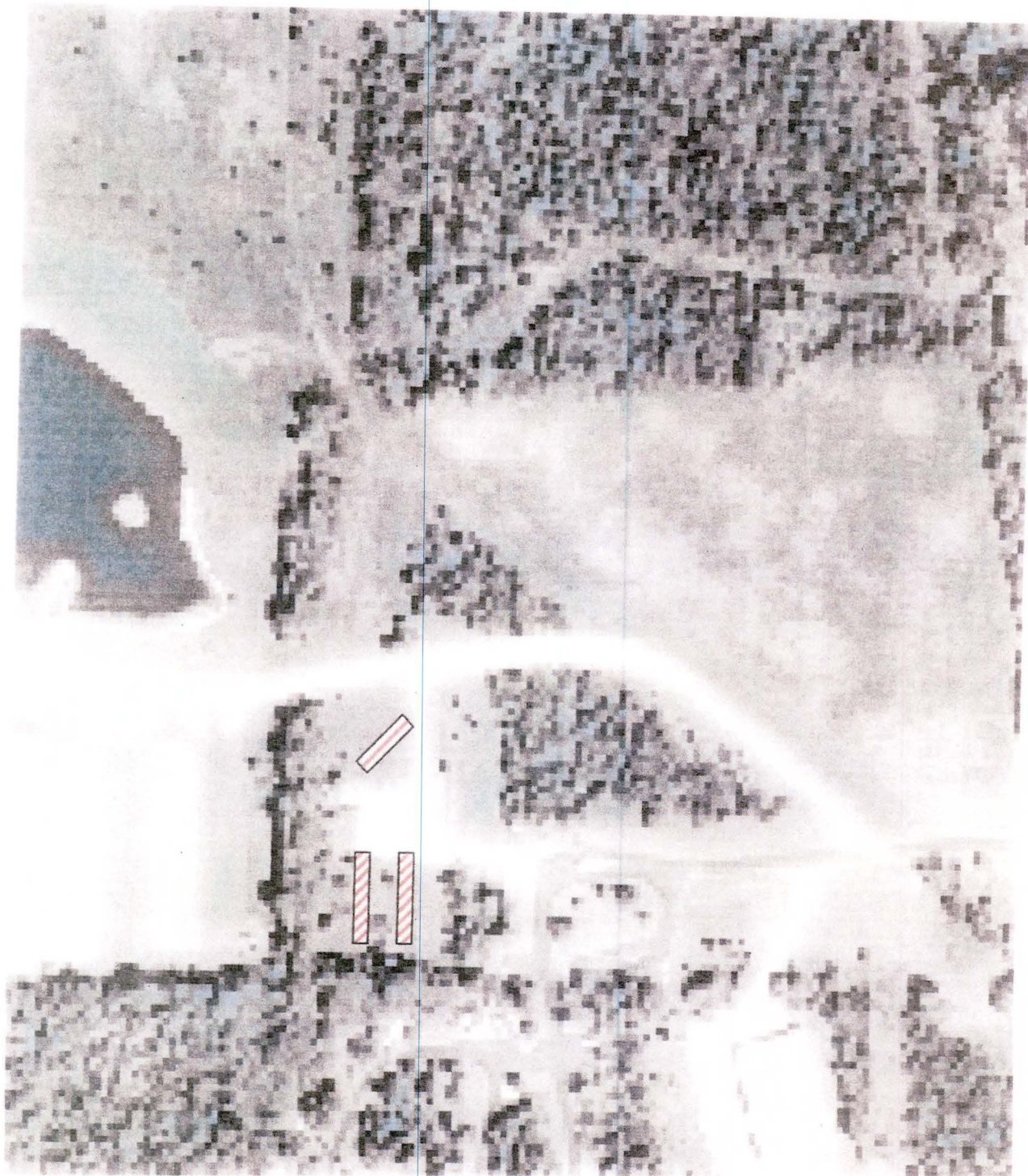
Has all or a portion of the proposed project area previously been professionally surveyed for cultural resources?

YES ☒

NO ☐

If YES, list dates. Reference the St. Louis District Historic Properties Management Report No. 47, Historic Properties Data Synthesis Mark Twain Lake, Missouri, Volume 1 & 2

Note – Areas disturbed during initial development of the Clarence Cannon Dam (Material borrow site), and the development of the Frank Russell Recreation Area.



US Army Corps
of Engineers

Clarence Cannon Dam and Mark Twain Lake
Frank Russell Recreation Area, Equine Camping Facility

Master Plan Supplement No. 5, Design Memorandum No. 9



US Army Corps
of Engineers

**Clarence Cannon Dam and Mark Twain Lake
Frank Russell Recreation Area, Equine Camping Facility**

Master Plan Supplement No. 5 Design Memorandum No. 9
Cultural Resource Map

Campsite Locations

CEMVS-DE

03 December 2013

MEMORANDUM FOR CEMVS-PM-E

SUBJECT: Supplement No. 7, Mark Twain Lake Master Plan, Design Memorandum No. 9

Supplement No.7 to the Mark Twain Lake Master Plan, December 2013 is:

Approved  Disapproved _____


CHRISTOPHER G. HALL
COL, EN
Commanding