



State of North Carolina
Department of Natural Resources and Community Development
Division of Parks and Recreation
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
S. Thomas Rhodes, Secretary

Dr. William W. Davis
Director

May 28, 1985

Mr. Julian I. Wooten, Director
Natural Resources and Environmental Affairs
Natural Resources Division
Assistant Chief of Staff Facilities
Camp Lejeune Marine Corps Base
Jacksonville, N.C. 28542

Dear Mr. Wooten:

We are pleased to transmit the attached Memorandum of Understanding for the designation of the C.F. Russell Longleaf Pine Natural Area and the Wallace Creek Natural Area as protected management areas on Camp Lejeune Marine Corps Base and for recognition of these areas on the North Carolina Registry of Natural Heritage Areas. We are most appreciative of the willingness of the U.S. Marine Corps to enter this management agreement for the protection of these highly significant natural areas and ecological resources.

If this interagency agreement document appears to be in order, we request that it be transmitted to Major General L.H. Buehl III for his acceptance and signature. Please return the agreement to us for certification and signature by the Secretary of the North Carolina Department of Natural Resources and Community Development.

More detailed descriptions of both natural areas have been prepared by Natural Heritage Program staff member, Julie H. Moore, and will be sent to you for review in a few days when typing is completed. We transmit this agreement to you in advance due to the necessity for reaching General Buehl as soon as possible.

Thank you for your coordination and initiation of this process.

Sincerely,

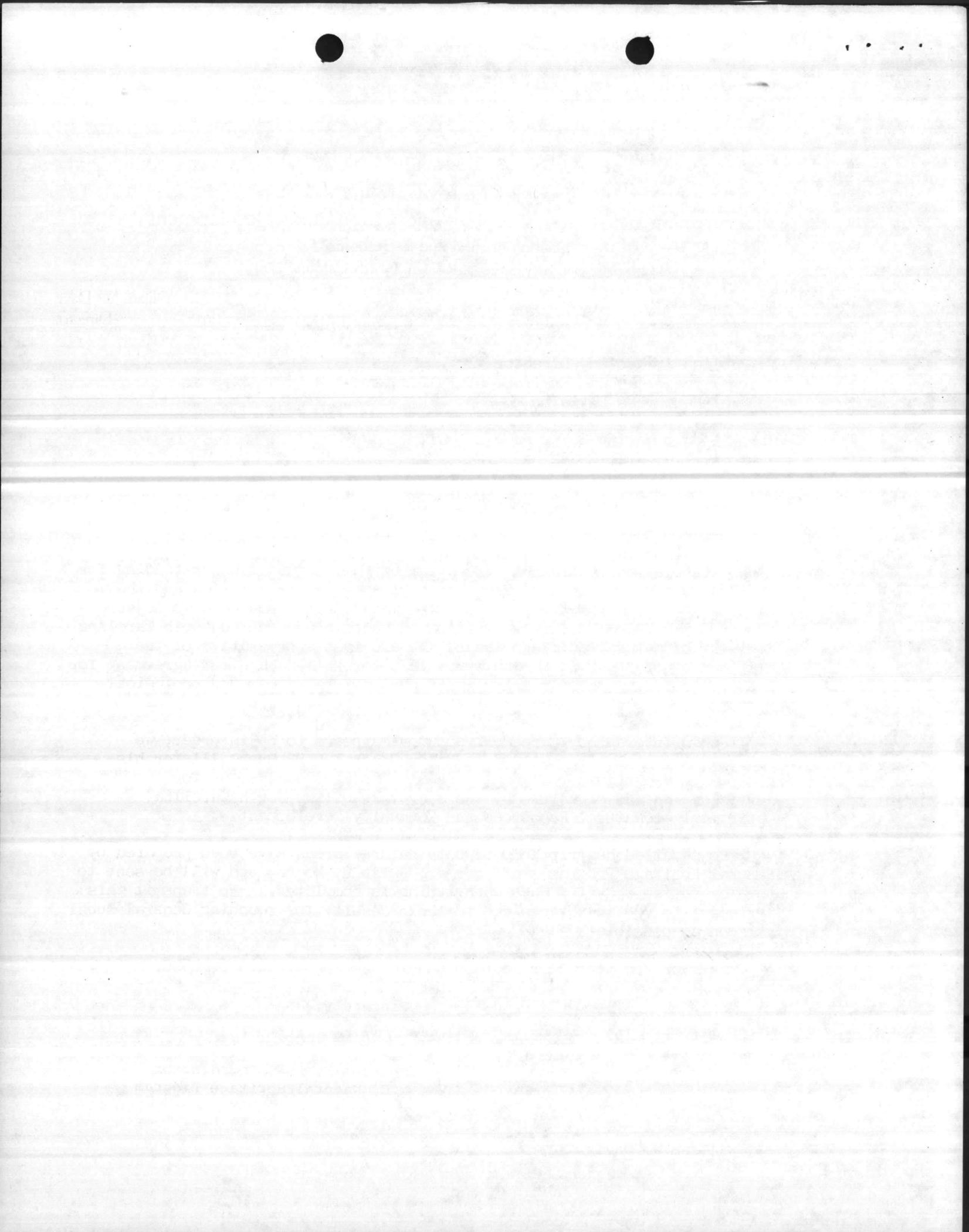
A handwritten signature in cursive script that reads "Charles Roe".

Charles E. Roe, Coordinator
N.C. Natural Heritage Program

cc. William W. Davis

P.O. Box 27687, Raleigh, North Carolina 27611-7687 Telephone 919-733-4181

An Equal Opportunity Affirmative Action Employer



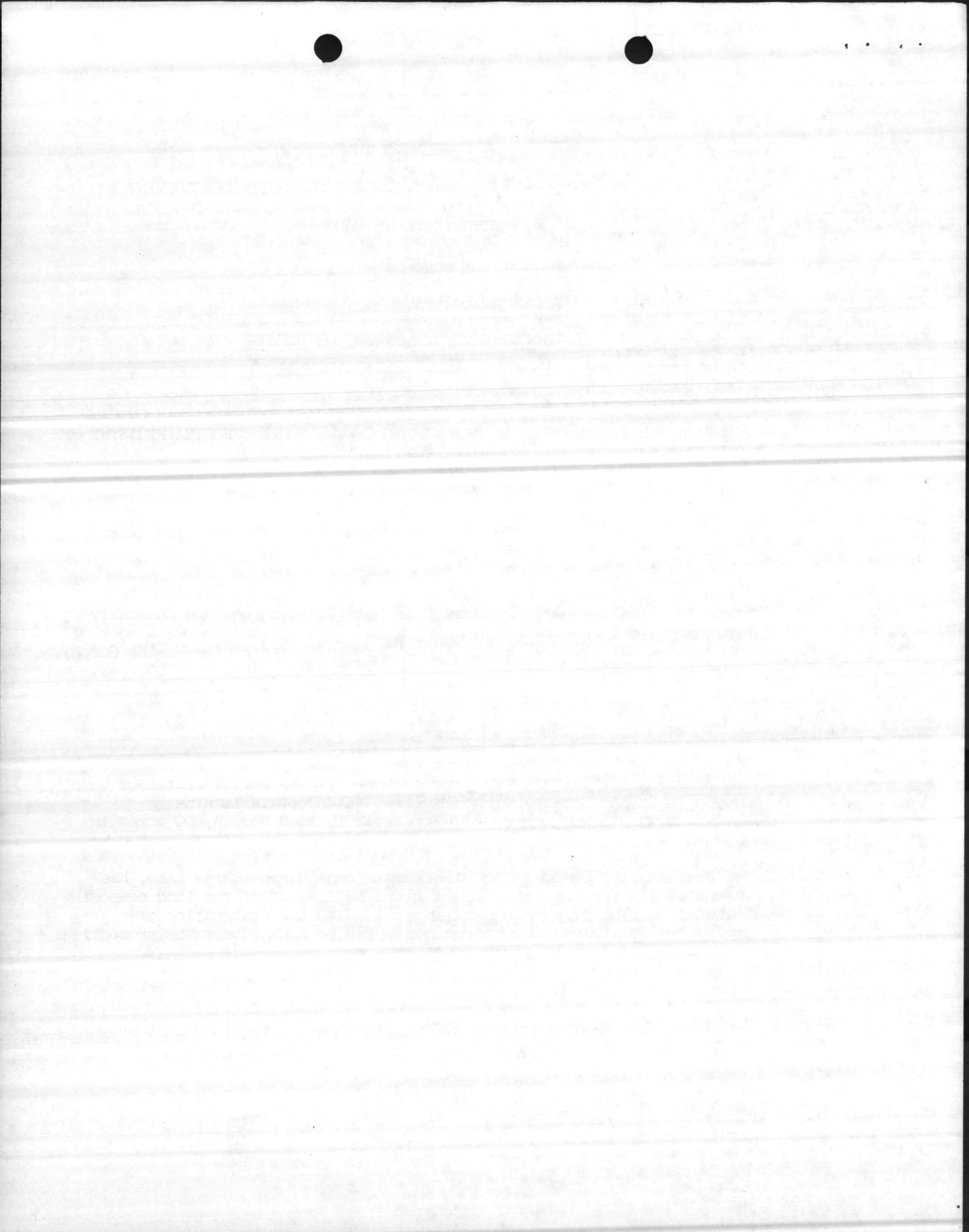
MEMORANDUM OF UNDERSTANDING
BETWEEN THE
DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
STATE OF NORTH CAROLINA
AND THE
CAMP LEJEUNE MARINE CORPS BASE
UNITED STATE DEPARTMENT OF DEFENSE
FOR
DESIGNATION AND MANAGEMENT OF HIGHLY SIGNIFICANT NATURAL AREAS ON CAMP
LEJEUNE, AND RECOGNITION OF THOSE AREAS ON THE NORTH CAROLINA REGISTRY OF
NATURAL HERITAGE AREAS

This MEMORANDUM OF UNDERSTANDING is made and entered into by the Secretary, North Carolina Department of Natural Resources and Community Development, acting for the State of North Carolina, and the Commander of Camp Lejeune Marine Corps Base, acting for the United States Marine Corps, Department of Defense.

PURPOSE

Whereas, the United States Marine Corps is the administrator of Camp Lejeune in Onslow County, North Carolina, which totals in size approximately 111,208 acres -- 85,208 acres in land and 26,000 acres in water.

Whereas, the Commander of the Camp Lejeune Marine Corps Base, has responsibility for the administration and management of the land composing the base. Marine Corps regulations provide for the designation of special-interest management areas, which may be managed for the protection of significant natural resources.



Whereas, the Secretary of the North Carolina Department of Natural Resources and Community Development (DNRCD) has administrative responsibility for the North Carolina Natural Heritage Program pursuant to North Carolina General Statute 113A-164 (the Natural Areas Registration and Dedication Act) and Department Administrative Code. The Natural Heritage Program is responsible for identifying, evaluating, and protecting unique and representative examples of North Carolina's natural areas. The Natural Heritage Program serves as the State's central data bank for information relating to special elements of natural diversity. The Natural Heritage Program manages for the Department the North Carolina Registry of Natural Heritage Areas. The Secretary, with permission of landowners, may register and designate areas in North Carolina having rare or representative examples of plant communities, geologic landforms, aquatic systems, soil types, habitats for endangered or threatened plants and animals, other plants and animals of special concern, and special interest wildlife habitats.

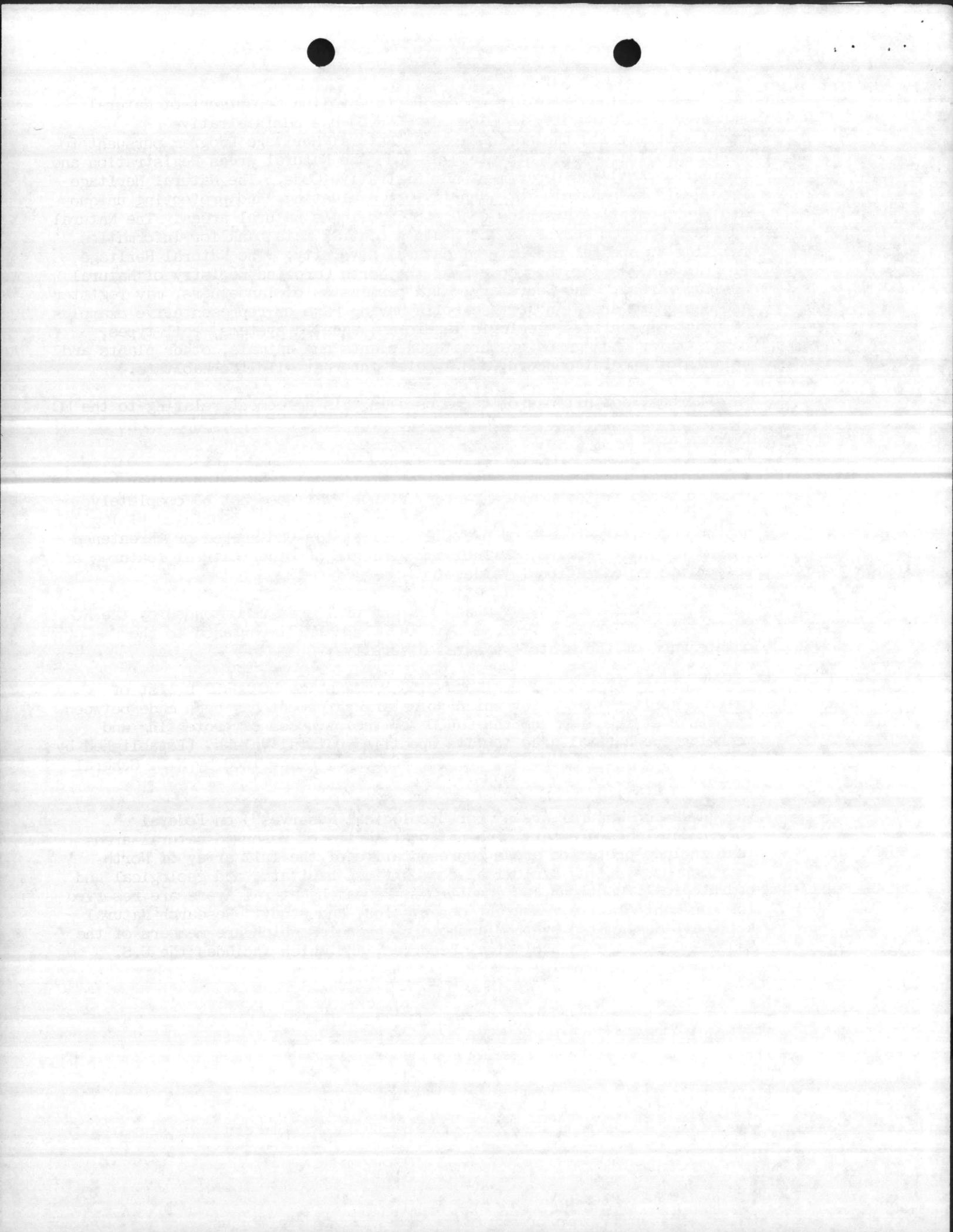
Whereas, definitions of terms used in this agreement relating to the NC DNRCD Natural Heritage Program and the U.S. Marine Corps, Department of the Defense are:

(1) "Natural Area" means a physical or biological area which either has reestablished its natural character, although it need not be completely undisturbed, and which typifies native vegetation and associated biological and geological features, or provides habitat for endangered or threatened animal or plant species, or includes geologic or other natural features of scientific or educational value.

(2) "Natural Heritage Area" means that natural area recommended by the NC DNRCD Natural Heritage Program that is of special importance to the maintenance of the state's natural diversity.

(3) "Registry of Natural Heritage Areas" means the NC DNRCD's list of natural heritage areas for which voluntary agreement has been made between the owner of the area and the DNRCD for the purposes of protecting and managing the natural area for its specified natural values. (Established by N.C. Administrative Code 15, Chapter 12H.0200; authorized by N.C. General Statute 113A-164).

(4) "Research Natural Areas" (or "Ecological Reserves") on Federal government lands are part of a national series of reserved natural areas that include protected areas representative of the full array of North American ecosystems, biological communities, habitats, and geological and hydrological functions and conditions. Research Natural Areas are reserved for non-manipulative research, observation, and study. Research Natural Areas are designated by the landholding agencies which are members of the Federal Committee on Ecological Reserves, and which includes the U.S. Department of Defense.



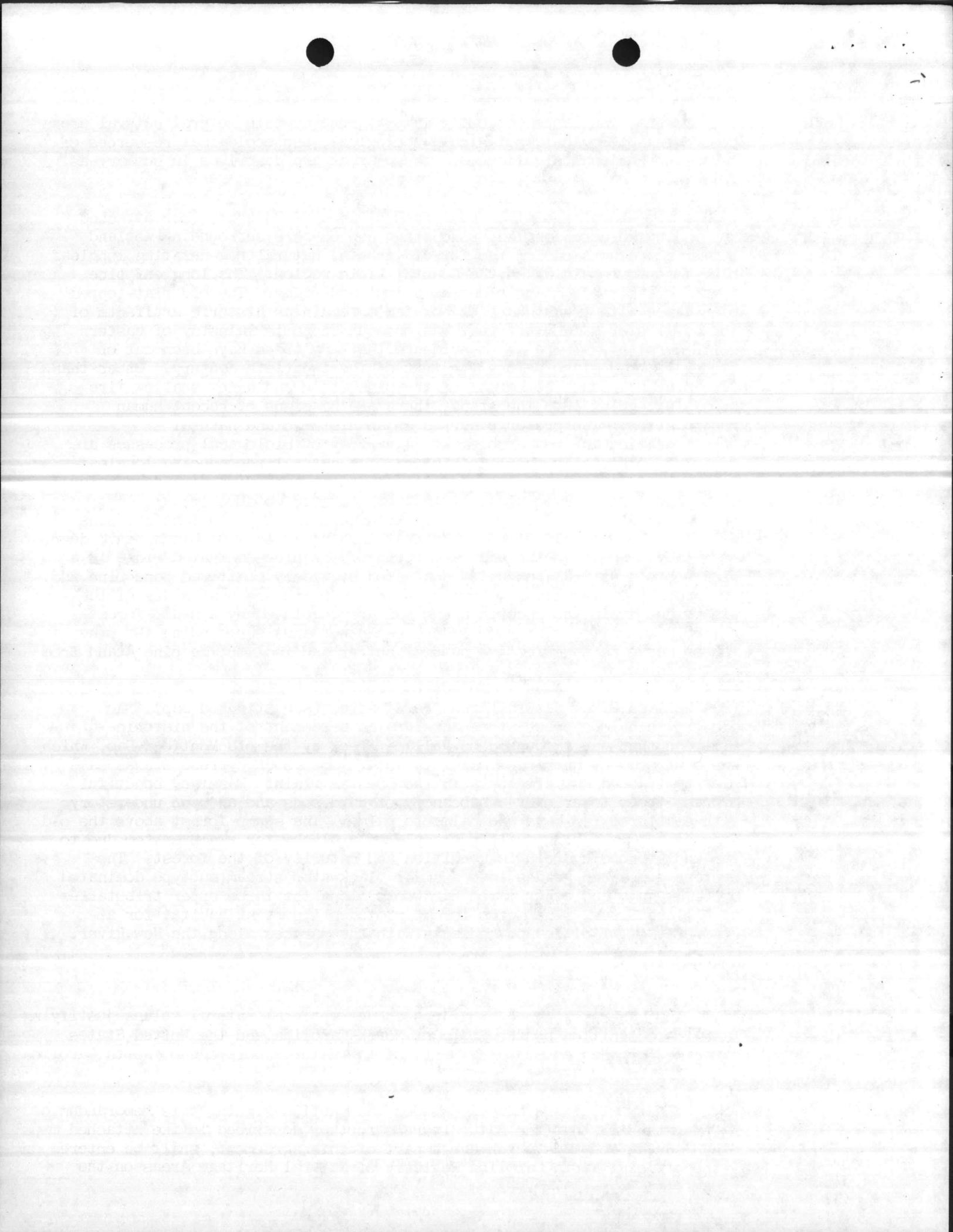
Whereas, the lands composing Camp Lejeune contain several natural areas possessing biological, botanical, zoological, and ecological resources of state and national significance. These areas are described in summary as follows:

(A) C.F. Russell Longleaf Pine Natural Area - 94 acres (see attached map). The 26-acre longleaf pine stand and 68-acre surrounding wetland buffer represents one of the few old-growth, natural regenerating longleaf pine forests remaining on the Coastal Plain region. The longleaf pine (Pinus palustris) stand occupies a dry sand ridge. The old flat-topped pine trees with trunk scars or box-faces remain as historic artifacts of the naval stores industry that was once an economic mainstay of eastern North Carolina. There is no evidence that any trees have been cut or stumps removed since before the turn of the twentieth century. Other than fire breaks around the border of the pine stand and a few shallow fire breaks extending into the stand, there are no signs of recent human manipulation. The preserve serves as an historic and natural interpretation and research area. A variety of biological processes are depicted, especially the life history of a natural reproducing longleaf pine forest and the effects of fire management on a fire-dependent natural community. An active colony of the red-cockaded woodpecker, a federally-listed endangered species, is found in this old longleaf pine stand. Other wildlife species using this habitat include black bear, deer, and wild turkey. To the east and south of the pine-dominated ridge is a high pocosin natural community dominated by widely scattered pond pine and evergreen shrub species. The creeks on the north and west sides of the pine ridge drain the pocosin areas and are vegetated by a swamp forest natural community. The pocosin and swamp wetlands surrounding the pine forest serve as an effective natural buffer and isolate the pine stand from disturbances.

(B) Wallace Creek Natural Area - 350 acres (see attached map). An old-growth bald cypress stand survives as a remnant of the historic millpond that was impounded on Wallace Creek by the old Montford Dam, which was destroyed by Hurricane Hazel in 1954. Most such cypress stands have previously been cut elsewhere in the Coastal Plain. Massive, beautiful cypress trees tower over a subcanopy of hardwoods and an open understory with scattered red bays and palmetto palms. The swamp forest above the old impoundment is a high quality example of a blackwater swamp system due to its undisturbed hydrologic condition and maturity of the forest. The cypress-gum swamp grades into a small blackwater stream subtype dominated by black gums and other mixed hardwoods along the three upper tributaries of Wallace Creek. The swamp forest provides important habitat for a diversity of wildlife and connects with the marshes along the New River.

And, Whereas, these areas possess exceptional natural values justifying their recognition by the State of North Carolina and the United States Marine Corps as outstanding parts of the natural heritage of North Carolina and the United States.

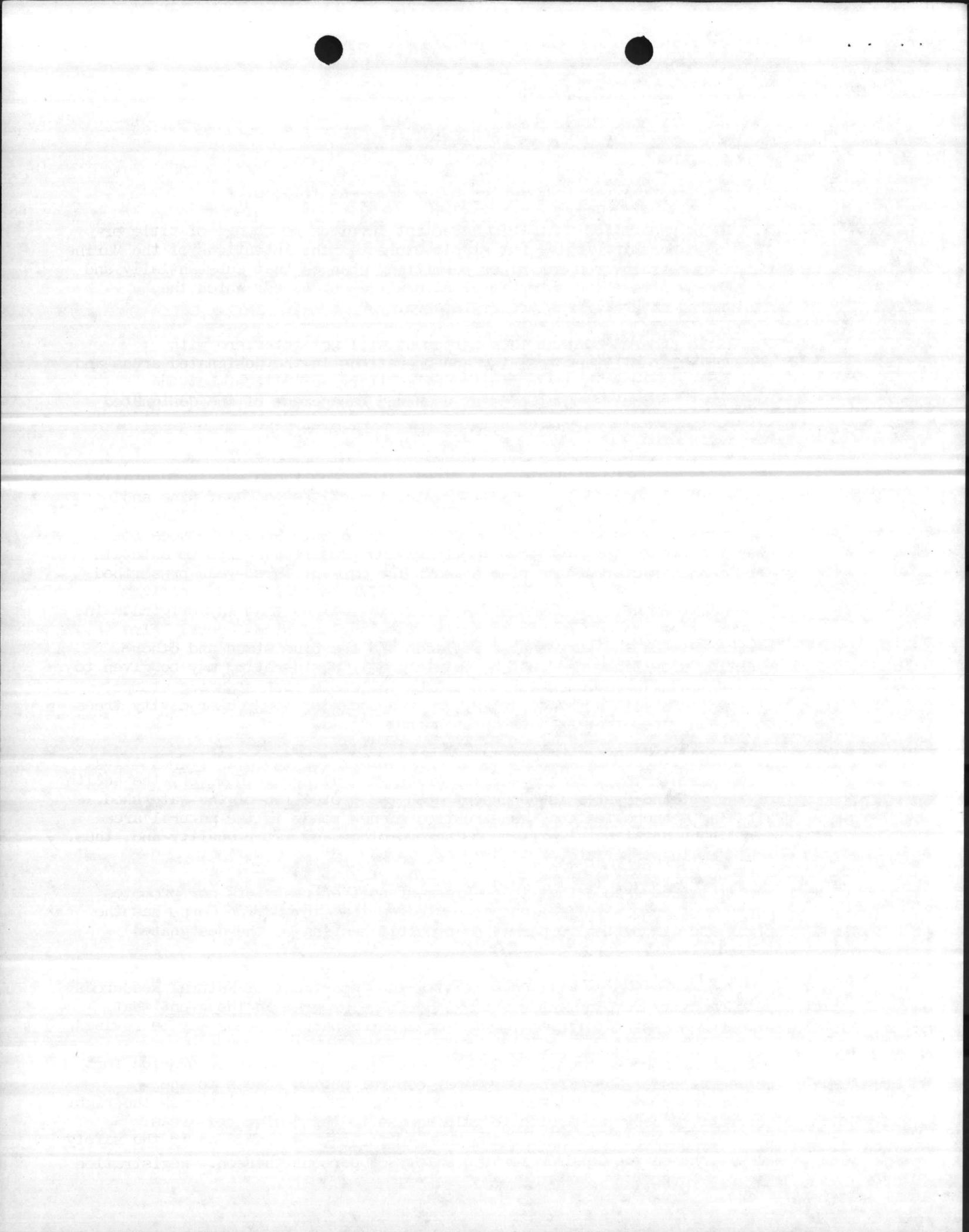
THEREFORE, it is agreed between the parties signing this Memorandum of Understanding that the natural areas further described in the attached maps and survey accounts which are a part of this agreement, shall be entered on the official North Carolina Registry of Natural Heritage Areas on the _____ day of _____, 1985.



AGREEMENT

Accordingly, the parties signing below agree as follows:

1. It is understood that this agreement involves no change of title or loss of ownership rights, but simply expresses the intentions of the Marine Corps to refrain from making or permitting changes that substantially and negatively affect the exceptional natural resources for which the designated natural areas are registered.
2. It is understood that this agreement will not interfere with non-vehicular military training and operations in the designated areas and does not preclude future expansion of military activities, but the agreement recognizes that present uses and management of the designated areas are beneficial to the natural resources for which the natural areas are registered.
3. It is understood that ground fires, including those set incidentally, are generally beneficial to the perpetuation of the longleaf pine and pocosin community types present in the Russell Natural Area. This agreement does not require fire suppression in that area, and does not change current fire management policies for prescribed burns to maintain the open character of the pine stand. The current three-year prescribed burning cycle reduces the accumulation of fuel material and minimizes potential damage from unscheduled fires. Wildfires that may originate in the pocosins are not likely to damage the longleaf pine forest. Fire breaks between the surrounding wetlands and the pine stand and other existing plow lines need not be maintained. Consideration may be given to hand raking flammable materials around the resin-rich standing stumps, living trees with box-face scars, and red-cockaded woodpecker cavity trees to prevent them from inadvertently burning.
4. No active resource management is necessary for the self-perpetuating swamp forest system in the Wallace Creek Natural Area. However, the health of the wetland system is dependent upon the protection of the watershed. Ditching, channelization, construction of new roads in the natural area would have detrimental effect on the hydrology and water quality and, thus, would be inappropriate.
5. It is understood that this agreement neither restricts nor promotes hunting of game wildlife, but acknowledges that the Marine Corps has the right and discretion to permit or prohibit hunting on the designated natural lands.
6. The Marine Corps will consult with the Department of Natural Resources and Community Development's Natural Heritage Program in the event that timber management policies for the designated natural areas may be revised.
7. It is understood that this agreement does not promote or provide for public access. The Marine Corps may control public access to the designated areas as it sees necessary. The Marine Corps reserves the right to grant or deny permission to gain access to the designated areas. Neither the Marine Corps nor the DNRCD offer any assurance as to the safety conditions on the land or for the safety of persons thereon. Registration



of the natural areas does not affect the landowner's liability for injury to visitors or their property.

8. This agreement does not preclude the designation of additional special-interest natural areas on the base by mutual agreement in the future, particularly as a result of findings of ecological significance during the course of the national wetlands inventory project, now in progress.
9. This agreement promotes the use of the designated natural areas for purposes of protection and perpetuation of the ecological systems that distinguish the areas.
10. The N.C. Department of Natural Resources and Community Development encourages the U.S. Marine Corps to consider designation of the registered areas to the system of Federal Research Natural Areas (Ecological Reserves) pursuant to Department of Defense procedures.
11. Either agency entering this agreement may terminate this Memorandum of Understanding by providing 30 days written notice to the other party. Unless so terminated, this agreement will remain in force indefinitely.

These Camp Lejeune Natural Areas are hereby registered as protected North Carolina Natural Heritage Areas. This Memorandum of Understanding is executed as of the last date below.

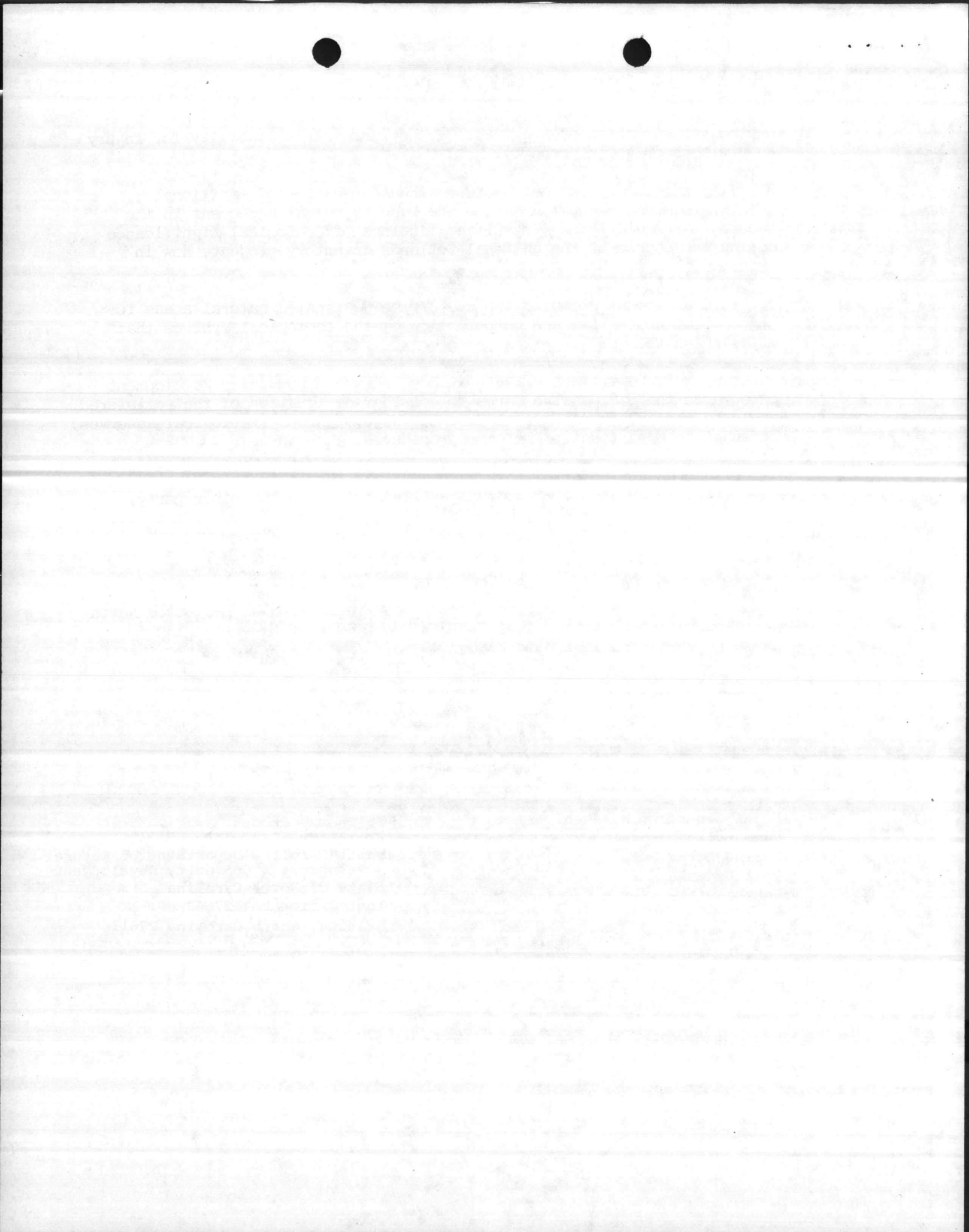
SIGNATURES:

Major General L.H. Buehl III
Commanding General
Marine Corps Base
Camp Lejeune
Jacksonville, North Carolina 28542

S. Thomas Rhodes
Secretary
North Carolina Department of Natural
Resources & Community Development
State of North Carolina
Post Office Box 27687
Raleigh, North Carolina 27611

Date

Date

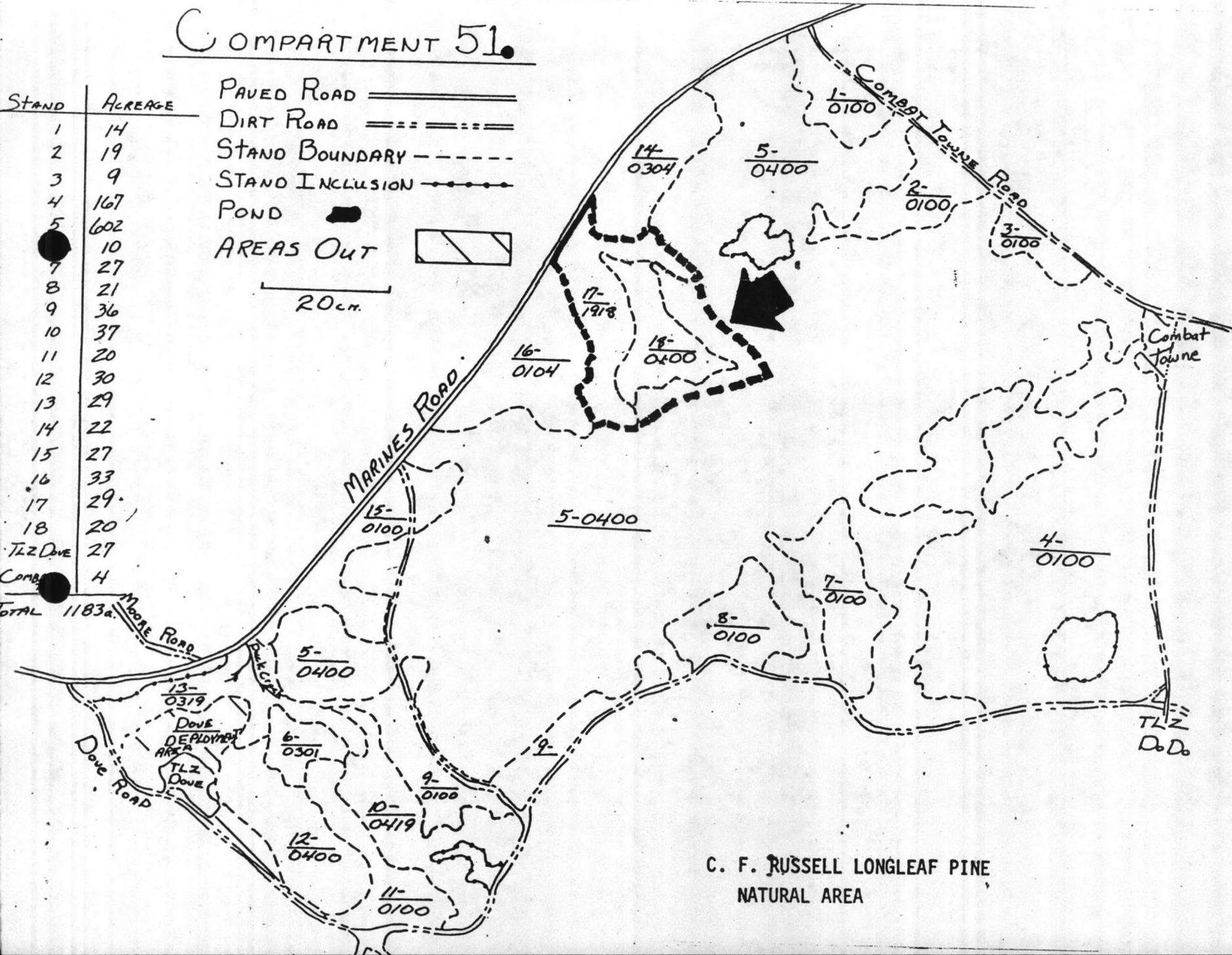


COMPARTMENT 51.

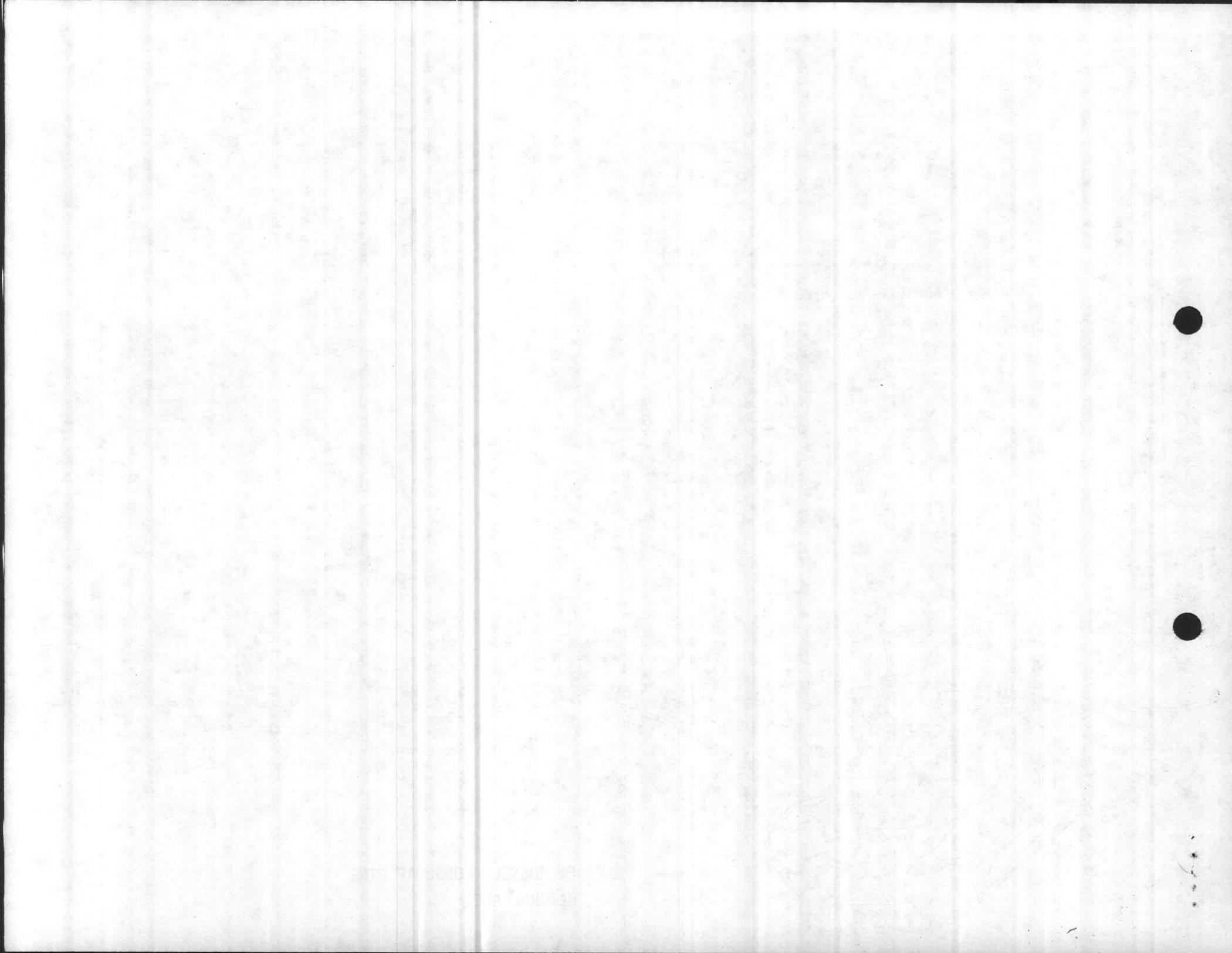
STAND	ACREAGE
1	14
2	19
3	9
4	167
5	602
6	10
7	27
8	21
9	36
10	37
11	20
12	30
13	29
14	22
15	27
16	33
17	29
18	20
TLZ Dove	27
COMB	4
TOTAL	1183a

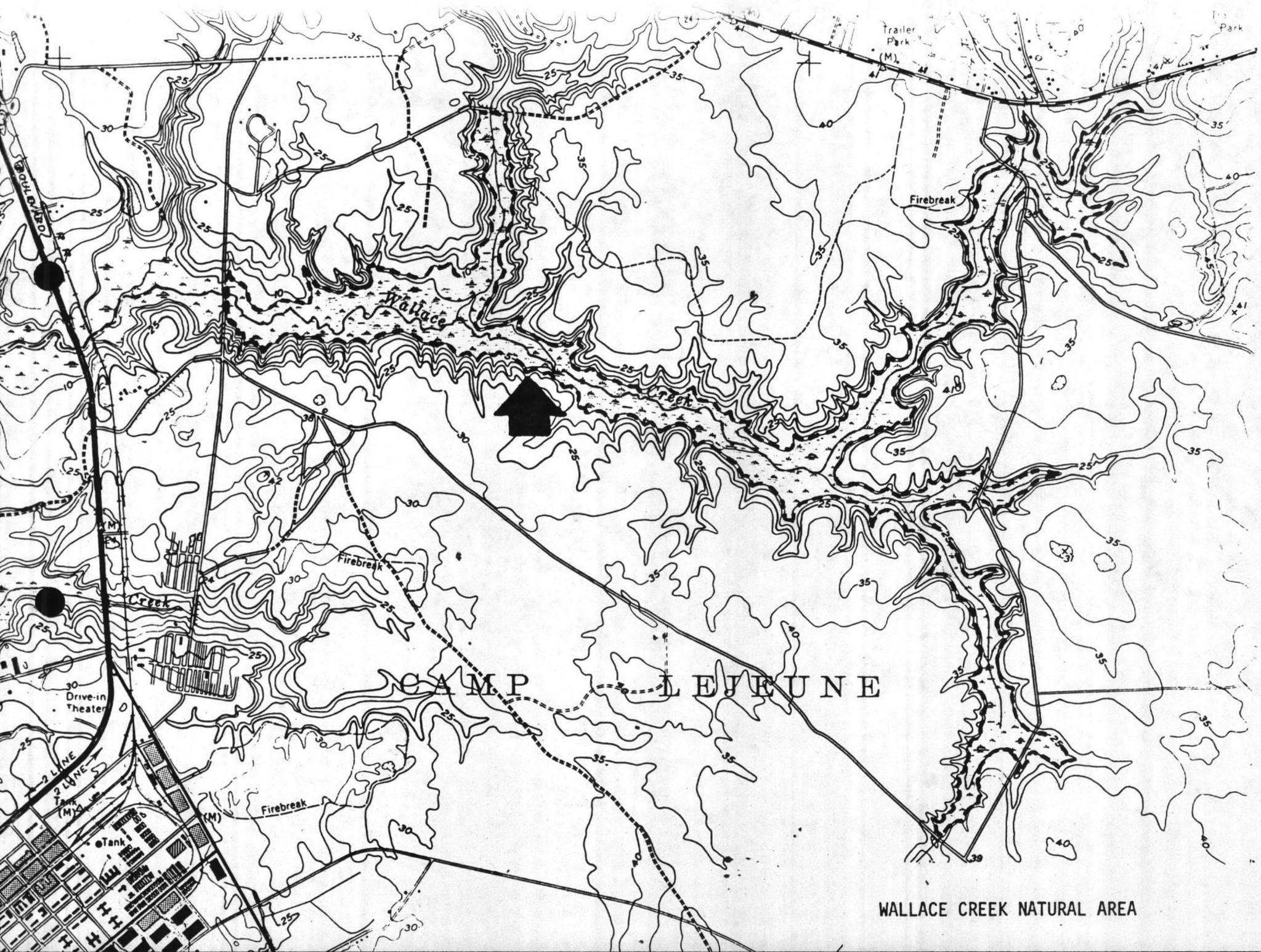
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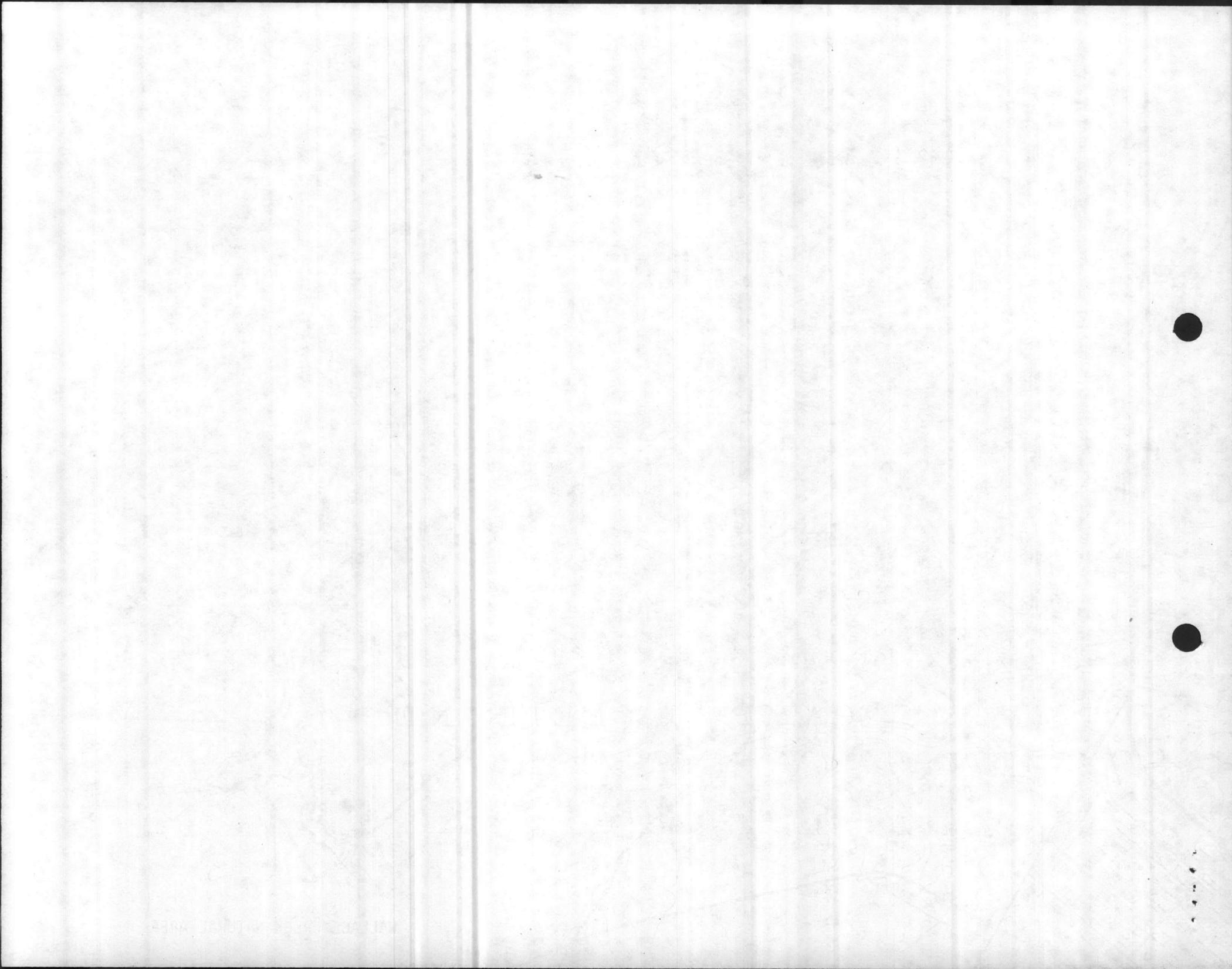


C. F. RUSSELL LONGLEAF PINE
NATURAL AREA





WALLACE CREEK NATURAL AREA



Memorandum

UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542-5001

11015
FAC
13 SEP 1985

FIRST ENDORSEMENT on Dir, NREAD Memo 5200 NREAD dtd 29 Aug 1985

From: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

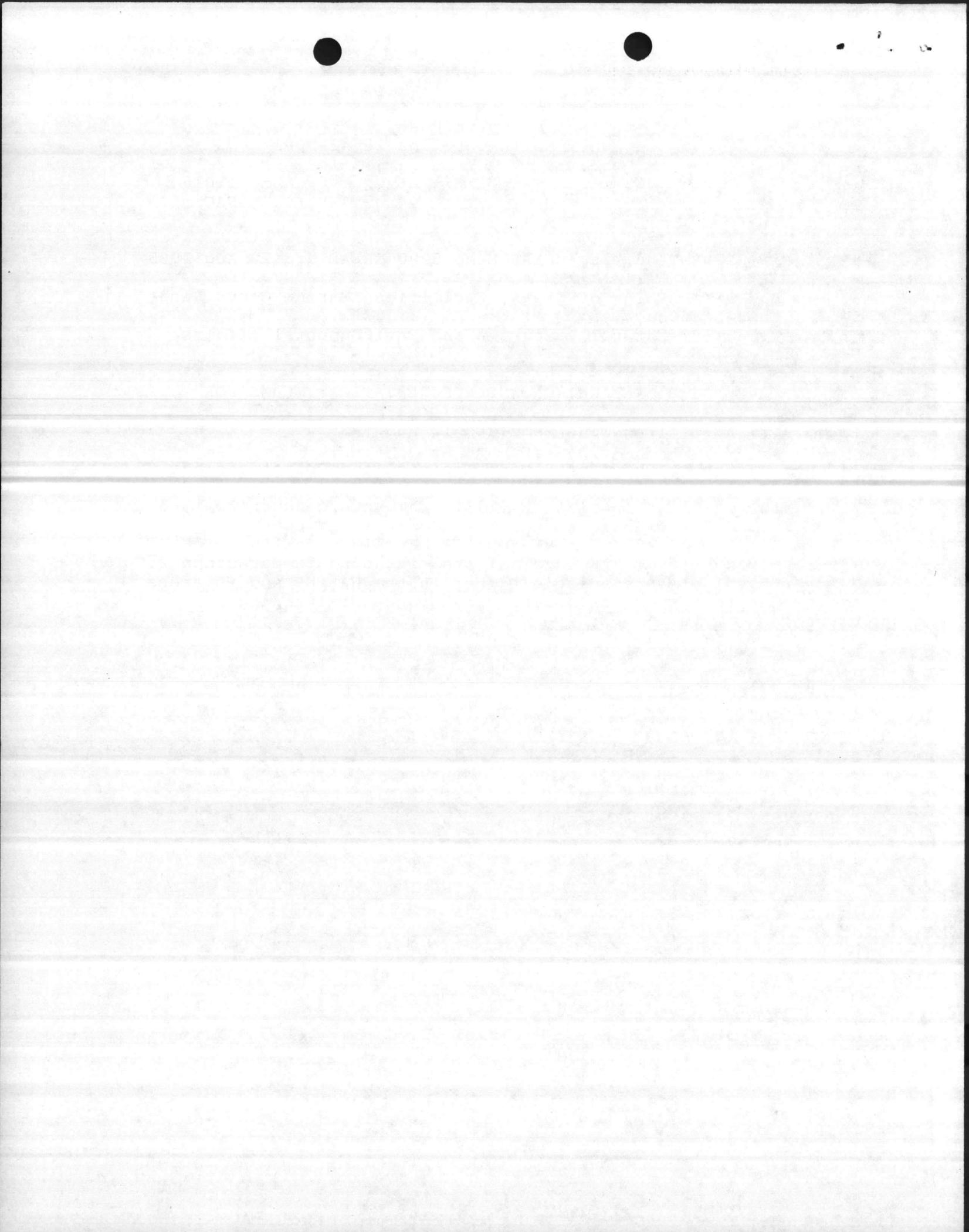
To: Director, Natural Resources and Environmental Affairs
Division

Subj: FY-86 SITE PREPARATION AND REFORESTATION; PLANS FOR

Encl: (1) AC/S, Trng&Opns Memo dtd 13 Aug 1985

1. The Assistant Chief of Staff, Training and Operations has withdrawn his comments concerning FY-86 site preparation and reforestation plans (enclosure (1)). Comments/concurrence are noted in the left margin of the basic correspondence. Accordingly, request you make appropriate plans for the reforestation of the TLZ Cardinal area as noted in paragraph 2. Also, removal of merchantable timber in the HA, HB and HC areas should be programmed for harvest in advance of training operations.

R. A. Tiebout
R. A. TIEBOUT



Memorandum

DATE: 13 August 1985

FROM: Assistant Chief of Staff, Training and Operations

TO: Assistant Chief of Staff, Facilities.

SUBJ: FY-86 SITE PREPARATION AND REFORESTATION; PLANS FOR

Ref: (a) Dir, NREAD Memo 5200 NREAD of 23 July 1985

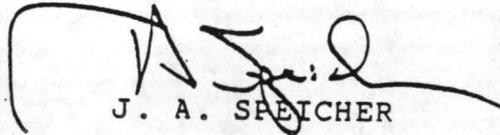
1. The proposals outlined on the portions of the CLNC Special Edition Map have been reviewed and are concurred in for FY-86 with the following exception:

a. Verona Loop area - the two sections shown in red/black for planting in loblolly or longleaf pine.

(1) With increased use of tracked vehicles/mechanized forces in the Verona training areas, these open spaces are well suited for mechanized and anti-mechanized unit training and were used extensively by the 2d Marines during a recent exercise.

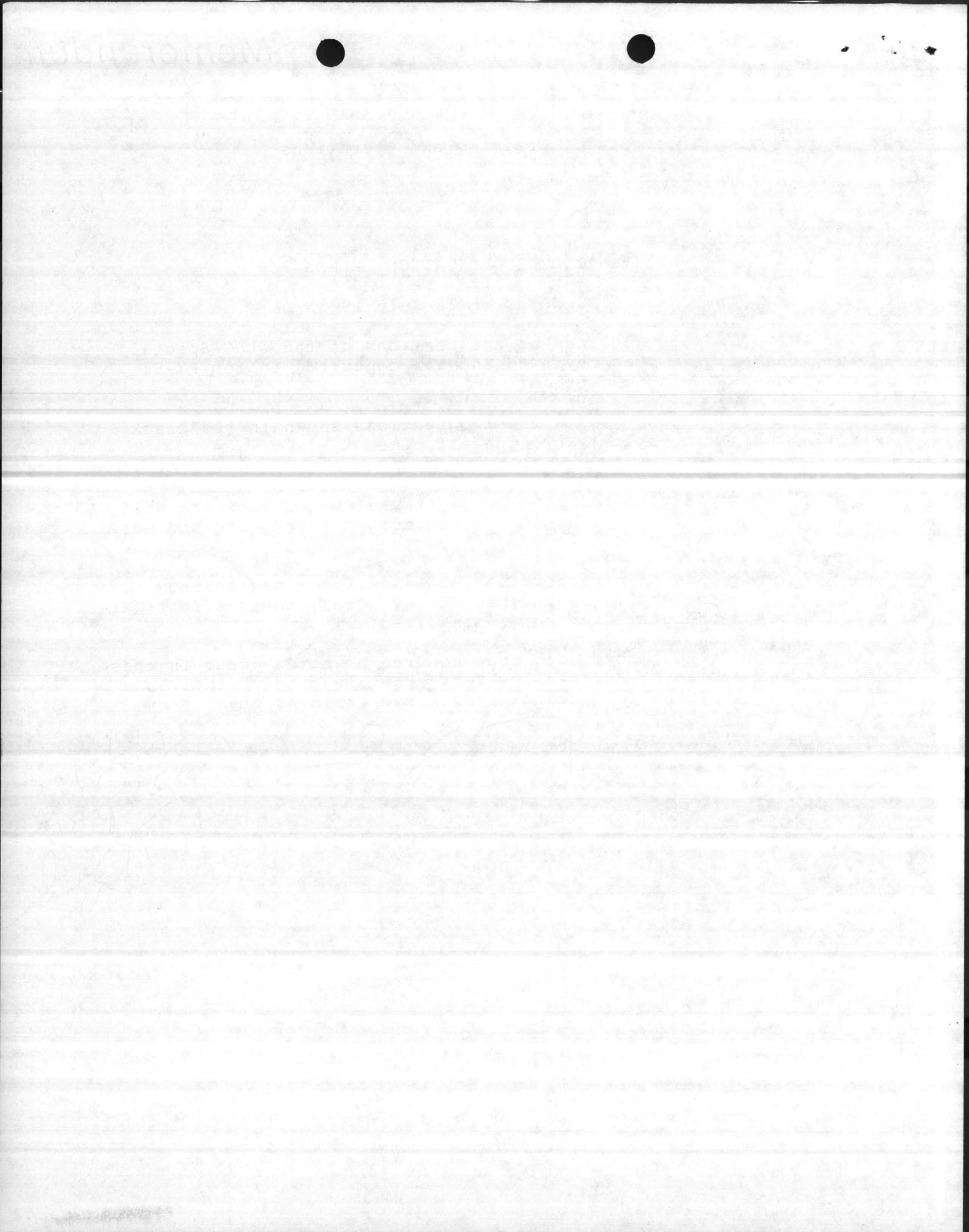
(2) While plans are being initiated for a mechanized infantry training area in the HA, HD, HC areas, these efforts are 6 months to one year from being finalized.

(3) It is recommended that no tree planting occur in these two areas during FY-86 to allow further evaluation of their use and final planning for a mechanized force training area.


J. A. SPEICHER

Copy to:
Dir, NREAD
RCTL

*Withdrown
12 Sep 85
[Signature]*



Memorandum

5200
NREAD

DATE: 29 Aug 1985

FROM: Director, Natural Resources and Environmental Affairs Division,
Marine Corps Base, Camp Lejeune
TO: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

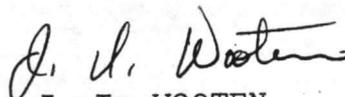
SUBJ: FY-86 SITE PREPARATION AND REFORESTATION; PLANS FOR

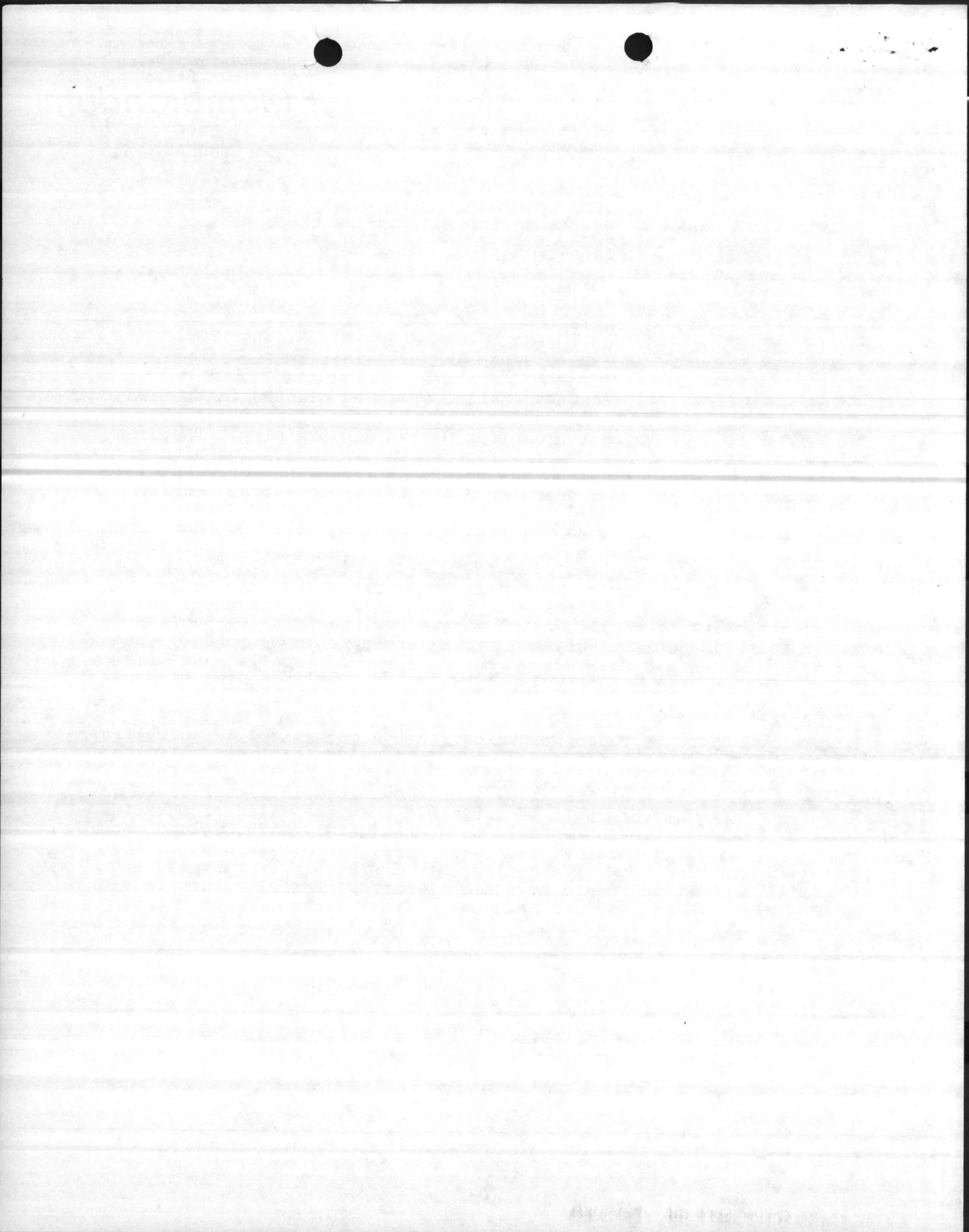
Ref: (a) AC/S Training and Operations Memo of 13 Aug 1985
(b) CG 2dMarDiv Memo 3900 3/RED/gac of 14 Oct 1982

1. Reference (a) requests that no trees be planted in the two areas near TLZ Cardinal during FY-86 because of needed evaluation of the use of the areas for mechanized training. The area was initially proposed for reforestation in 1983, with site preparation occurring in 1982 but reforestation plans were cancelled because of a proposal to enlarge the K-2 Impact Area. During preparation of the FY-86 budget, we discussed the reforestation with Lieutenant Colonel Cizerle of Range Control. At that time he saw no reason not to reforest the area and it was included for FY-86 reforestation plans.

OK
2. Historically, mechanized training in reforested areas has not been a problem because most damage associated with mechanized training is confined to the area adjacent to major roads. The TLZ Cardinal area has been prepared for reforestation and NREAD would prefer to reforest it in FY-86, as seedlings have been ordered.

Yes
3. Reference (a) also points out that a mechanized infantry training area in the HA, HB and HC areas is being initiated. If the areas under study in reference (a) are the same areas proposed by reference (b), there is significant merchantable timber to be removed from the area. It is estimated that the value of the standing merchantable timber would be approximately \$435,000 and should be harvested in advance of training operations. This would be a significant portion of the allowable annual timber harvest, and dollars generated would be a significant financial return to both the Marine Corps and Onslow County School system.

JMS

J. I. WOOTEN



5200
NREAD

23 July 1985

Director, Natural Resources and Environmental Affairs Division,
Marine Corps Base, Camp Lejeune
Assistant Chief of Staff, Training and Operations, Marine Corps
Base, Camp Lejeune

Via: Assistant Chief of Staff, Facilities

FY-86 SITE PREPARATION AND REFORESTATION; PLANS FOR

Ref: (a) AC/S FAC memo FAC/mgl/hf 11015 of Sep 1983

Encl: (1) Copies of three portions of Base Special Map

1. The reference requires submission of reforestation plans to Assistant Chief of Staff, Training, for concurrence. The enclosure shows planned reforestation projects for this winter and site preparation for future reforestation projects.
2. Please review the enclosure and provide comments at the earliest possible date, as seedling orders must be processed at the beginning of FY-86. For further information please contact Mr. Peter Black, Natural Resources and Environmental Affairs Division, extension 2195.

J. I. WOOTEN

Writer: P. E. Black, NREAD 2083
Typist: J. Cross 23Jul85

The following information was obtained from the records of the
Department of the Interior, Bureau of Land Management, and the
Bureau of Reclamation, regarding the land in question.

The land in question is situated in the County of [Name], State of [Name], and is
owned by [Name]. The land is subject to a certain right of way
granted to the [Name] by the [Name] in the year [Year].

The right of way is a strip of land [width] feet wide, and is
situated between the [Name] and the [Name]. The right of way
is used for the purpose of [purpose].

The land in question is situated in the County of [Name], State of [Name], and is
owned by [Name]. The land is subject to a certain right of way
granted to the [Name] by the [Name] in the year [Year].

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granted to the [Name] by the [Name] in the year [Year].

The right of way is a strip of land [width] feet wide, and is
situated between the [Name] and the [Name]. The right of way
is used for the purpose of [purpose].

The land in question is situated in the County of [Name], State of [Name], and is
owned by [Name]. The land is subject to a certain right of way
granted to the [Name] by the [Name] in the year [Year].

REFORESTATION PLAN FY 80

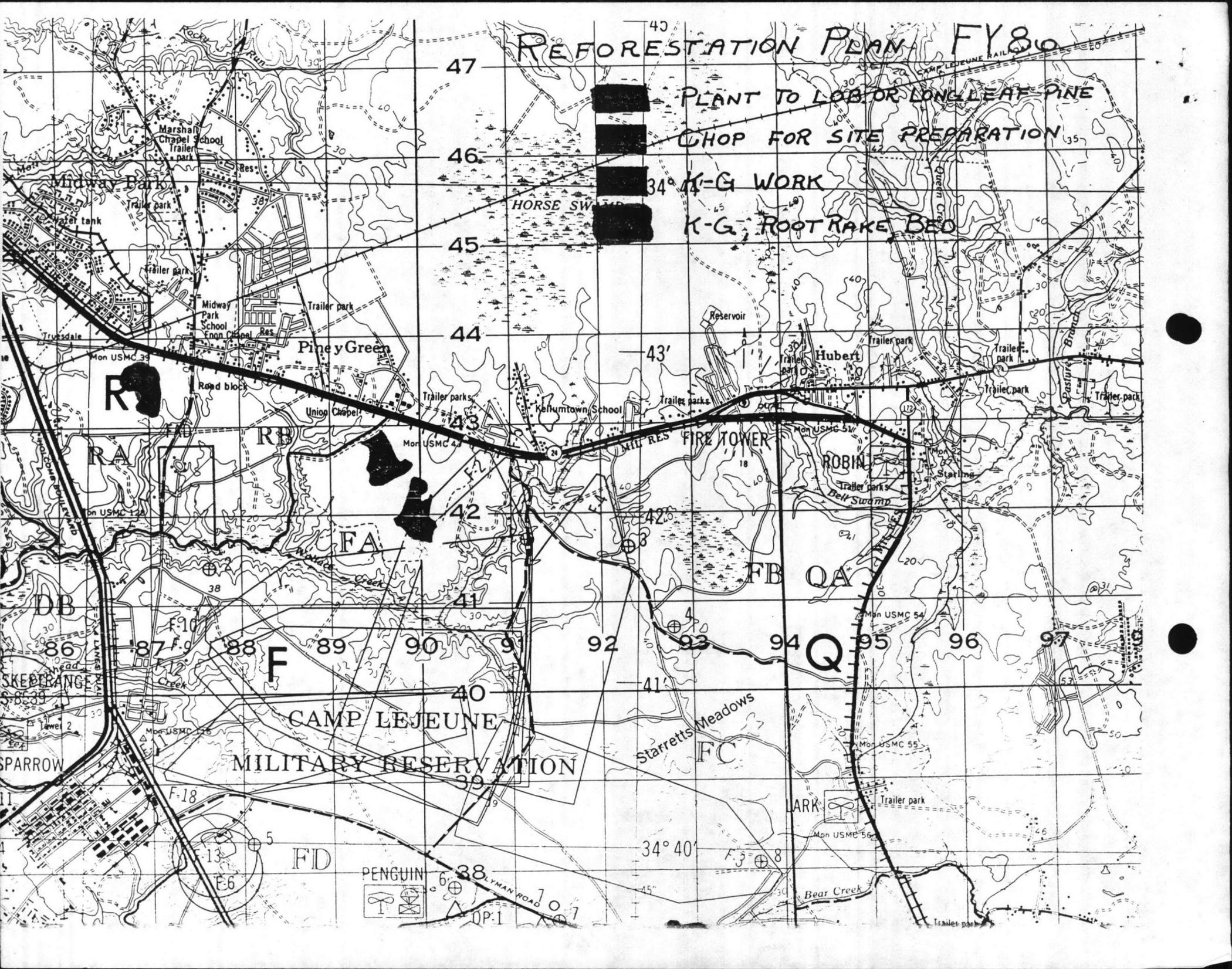


PLANT TO LOB OR LONG LEAF PINE

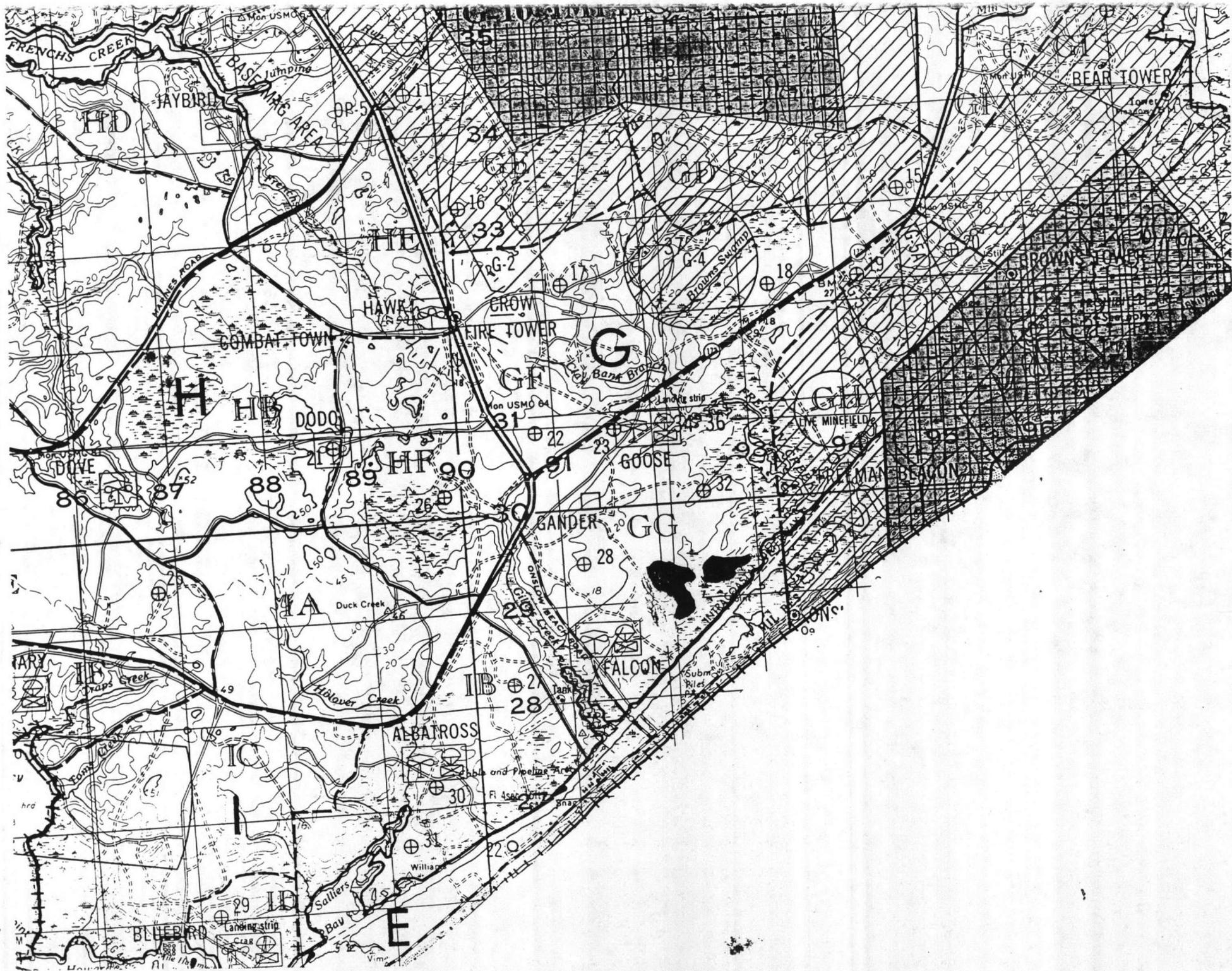
CHOP FOR SITE PREPARATION

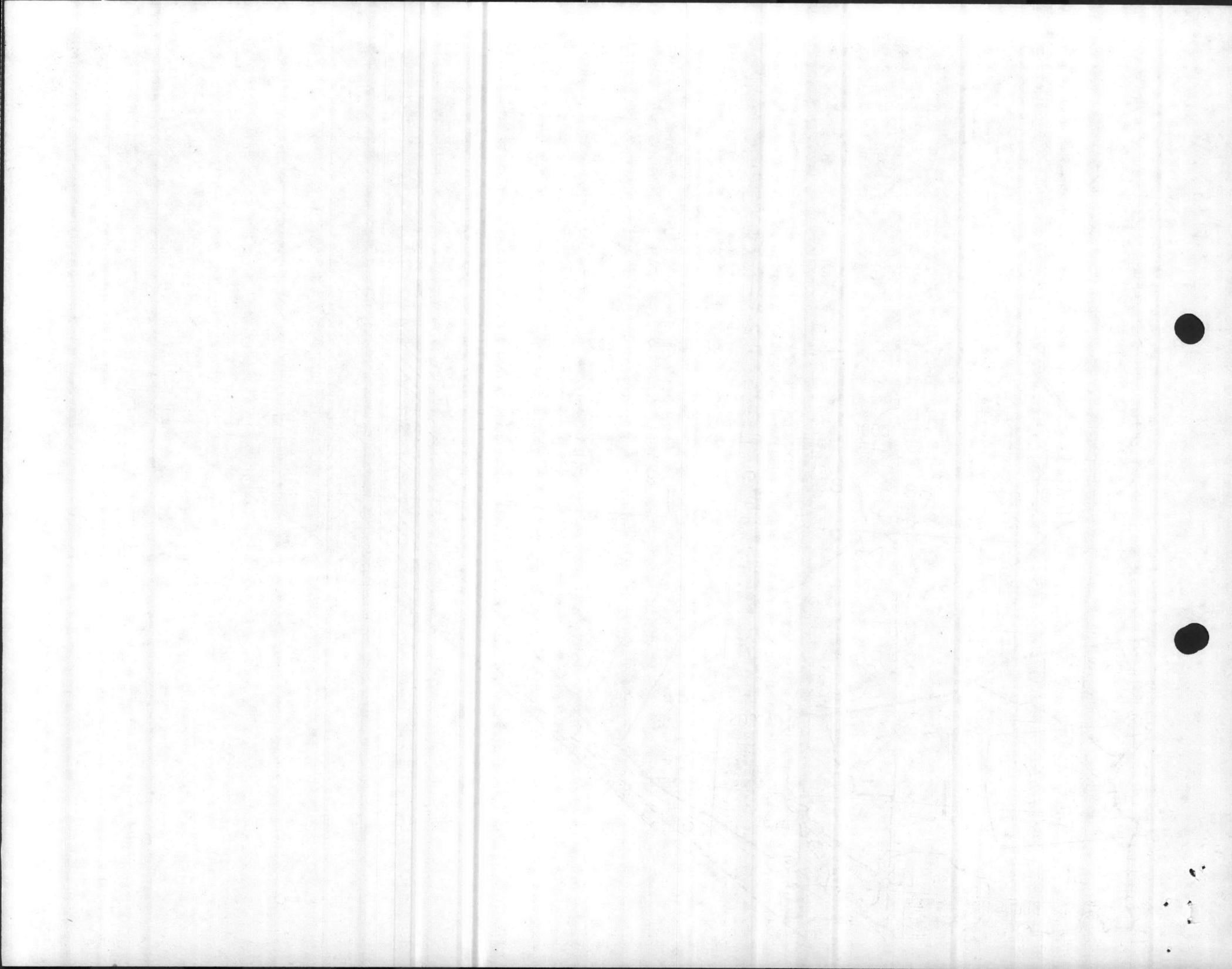
K-G WORK

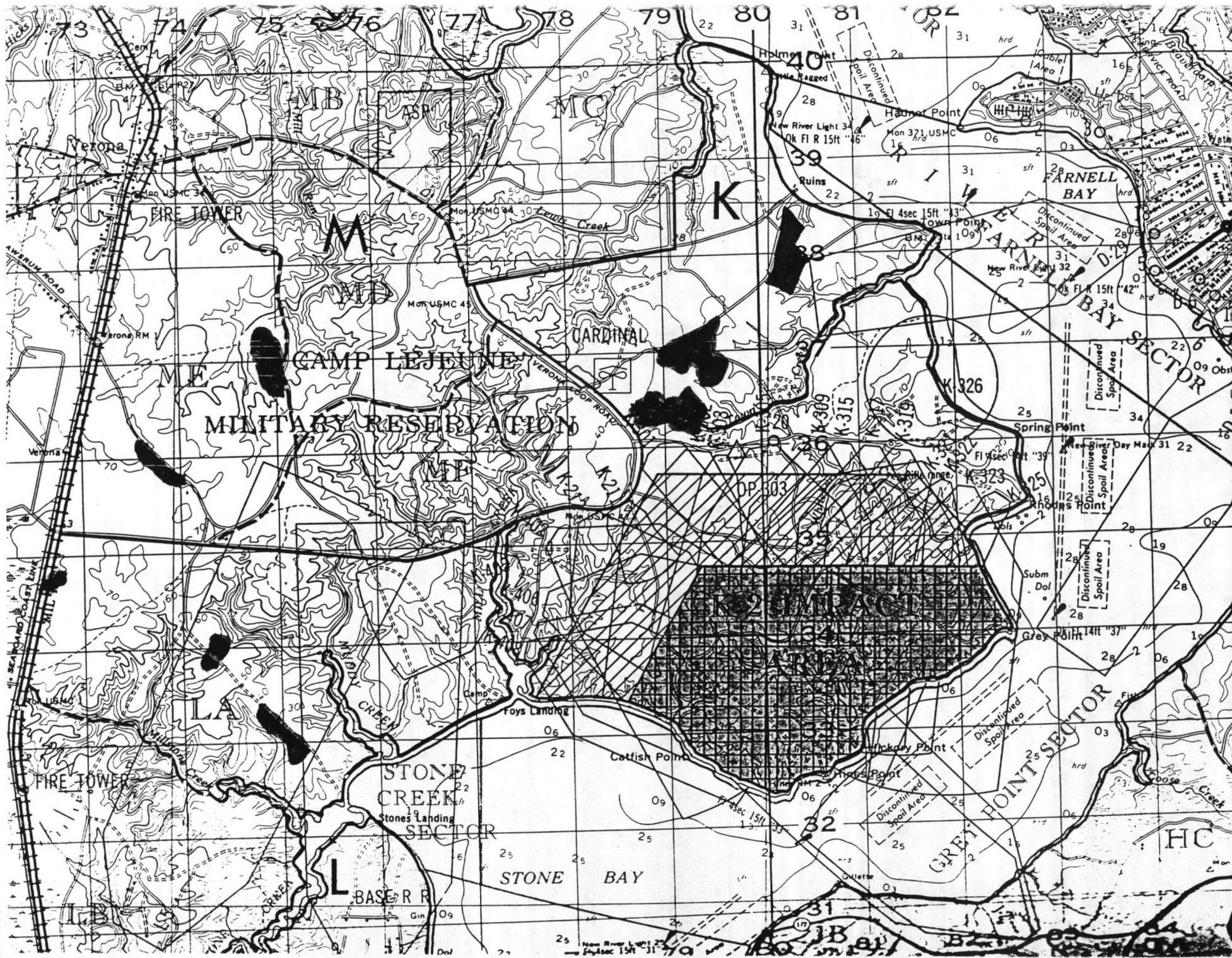
K-G ROOT RAKE BED



REPRODUCTION OF THE
SUN IN THE EAST AND
FOR THE PREPARATION
OF THE
SUN







New River Light 34
Fl R 15ft 46

Fl Asec 15ft 31



UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542-5001

11014
FAC
16 JUL 1985

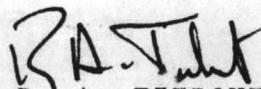
FIRST ENDORSEMENT on AC/S Trng/Ops ltr 1500/3 TRNG/OPS dtd
21 Jun 85

From: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

To: Base Maintenance Officer

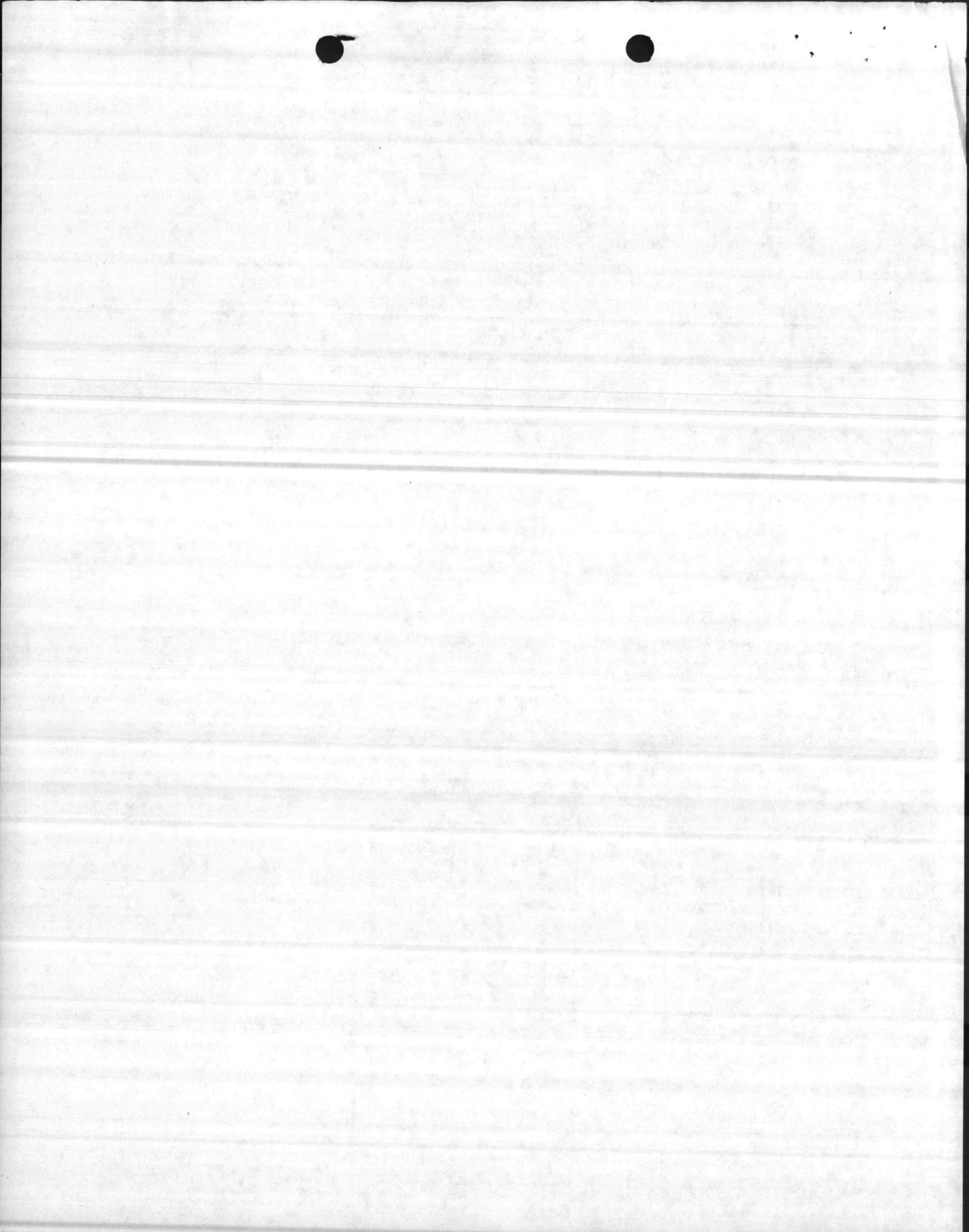
Subj: DEVELOPMENT OF HELICOPTER LANDING ZONES FOR THE MONTFORD
POINT

1. Forwarded.
2. The work is approved for accomplishment in the scheduled work plan.


R. A. TIEBOUT

Copy to:
CO, MCSSS (S-3)
AC/S, Trng/Ops

6052





UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542-5001

IN REPLY REFER TO:
1500/3
TRNG/OPS
21 Jun 85

From: Assistant Chief of Staff, Training and Operations
To: Assistant Chief of Staff, Facilities

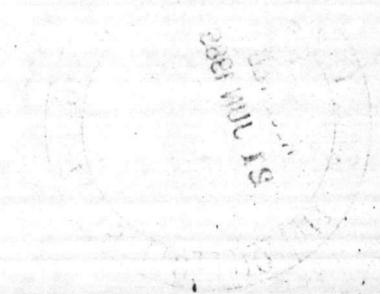
Subj: DEVELOPMENT OF HELICOPTER LANDING ZONES FOR THE MONTFORD
POINT

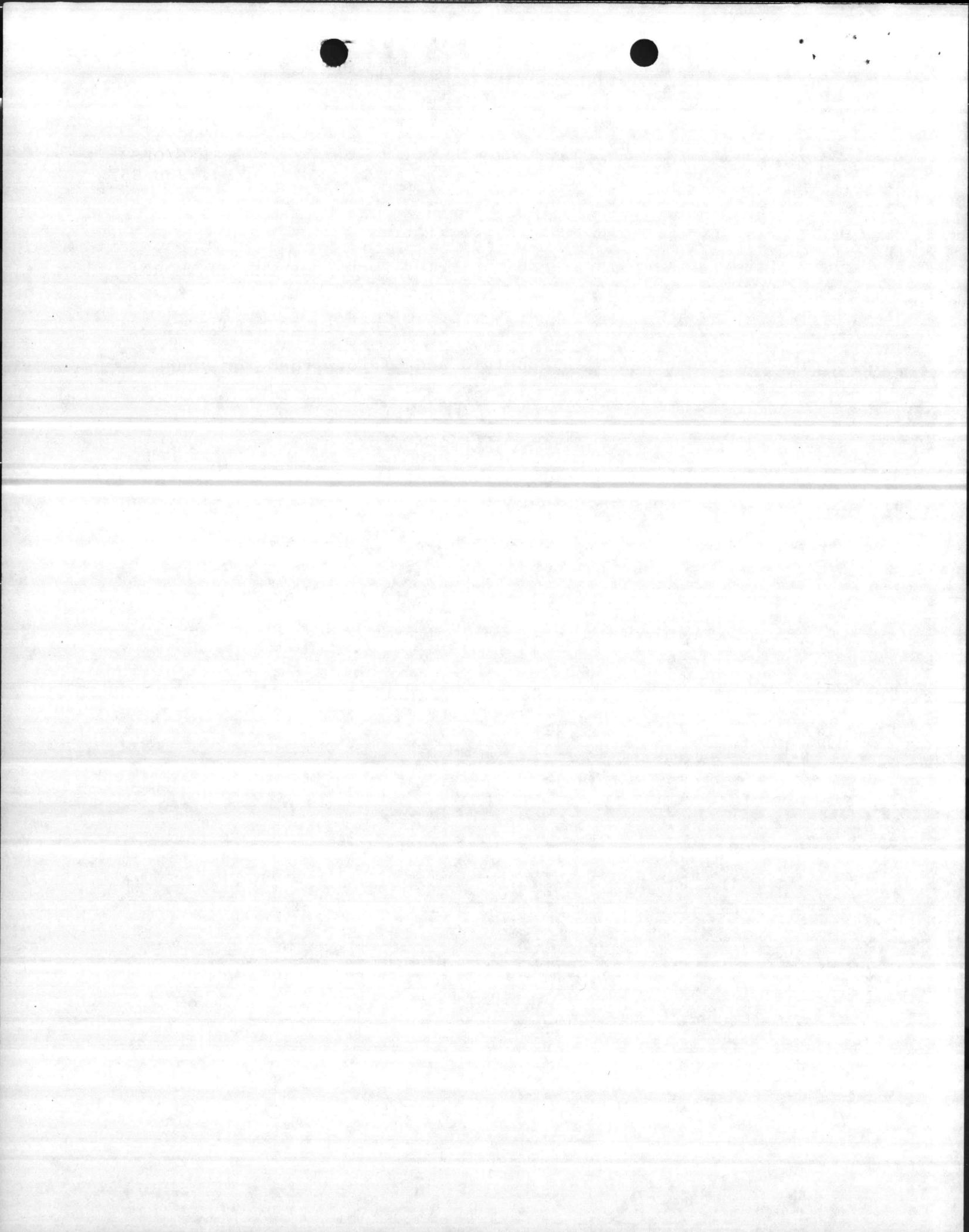
Encl: (1) Copy of CO, MCSSS ltr 1500/38 203 dtd 20 Jan 85

1. The enclosure has been approved and is forwarded for your
action.

S. E. Roberts
S. E. ROBERTS
By direction

6052







UNITED STATES MARINE CORPS
Marine Corps Service Support Schools
Marine Corps Base
Camp Lejeune, North Carolina 28542-5050

A24

IN REPLY REFER TO:
1500/38
203

23 JAN 1985

From: Commanding Officer, Marine Corps Service Support Schools
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542-5001 (Attn: Assistant Chief of Staff, Training)

Subj: DEVELOPMENT OF HELICOPTER LANDING ZONES FOR THE MONTFORD POINT

Ref: (a) Map: Camp Lejeune Special 1:50,000

Encl: (1) Request for Environmental Impact Review

1. The need exists to develop two tactical helicopter landing zones in the Montford Point/Camp Johnson area (Training area AC) to support field training of U. S. Navy Medical Department personnel by the Field Medical Service School. Two zones are requested, one to simulate an evacuation site for casualty overload training, and the other a zone near a simulated field medical hospital facility (Medical Company (-))
2. Activation of two tactical landing zones will enhance significantly the training of approximately 1400 Medical Department personnel yearly. The proximity of the proposed zones to the Field Medical Service School will allow them to avoid significant logistical problems, while creating realistic training conditions in which to learn.
3. Grid centers of proposed landing zones (reference (a)):
 - a. 7785 4583
 - b. 7889 4533
 - c. 7896 4528 (alternate for (b)).
4. Both proposed sites are partially cleared but will have to be expanded enough to allow landing by one CH53 or two CH46 helicopters.
5. Enclosure (1) contains known environmental impact information. Mr. Bob Alexander, Assistant Chief of Staff, Facilities, assisted in its completion.
6. The point of contact for questions concerning this request is Major J. A. Crookston, extension 0911 or 0755.


J. R. BRANDON

1052



1 May 1984

4. Location: Attach a Camp Lejeune Special Map (or equivalent quality map) showing location of proposed action/project site(s).

5. Potential Environmental Impact/Considerations: (See Note 1)

a. Air Quality: Will there be any open burning associated with the project/action? NO Will there be any new boilers, incinerators or fuel storage tanks (larger than 1,000 gallons) provided? NO Will there be any paint booths, solvent vats, degreasers or other vapor-producing industrial processes involved? NO Will the project involve the use or disposal of asbestos? NO Will project cause dust problems? NO

b. Land Quality: Will the action require use of significant amount of earthen fill material? NO Will there be an increase in level of soil disturbance/damage to vegetation? NO Will there be one acre or more of land cleared/disturbed? NO

c. Groundwater Quality: Does the project involve use of herbicides, insecticides or other pesticides in significant amounts? NO Does the project involve installation/use of septic tanks, or any other on-site disposal of sanitary waste? NO Will there be any wells dug or any excavations deeper than twenty feet? NO Will any toxic or hazardous material/waste requiring disposal be used or generated by the project? NO Will there be a net increase of solid waste caused by implementing the project/action? NO Will the project or action be carried out within 200 feet of a drinking water supply well? NO

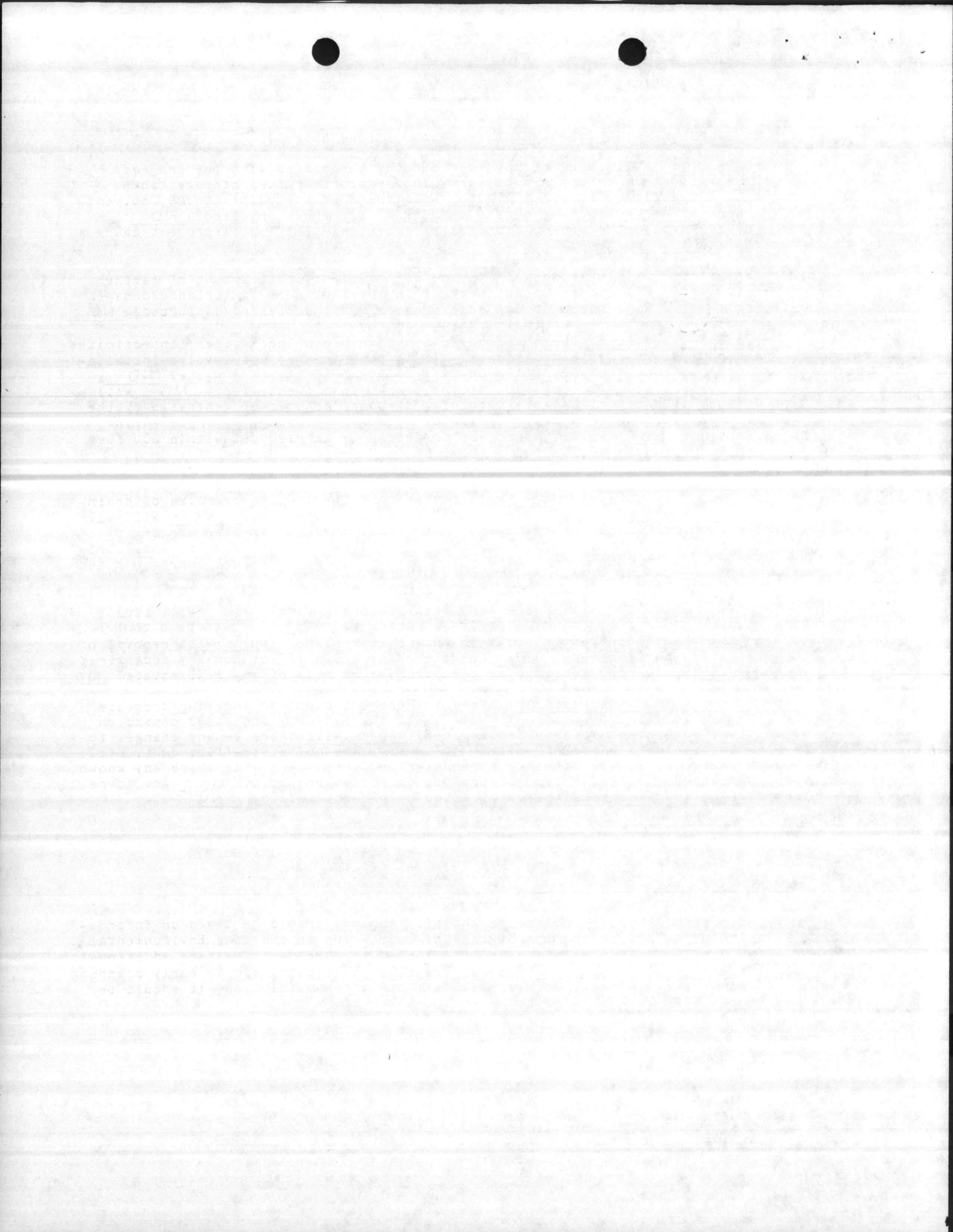
d. Surface Water Quality: Is the project located on or in a water body or adjacent 100-year flood plain? NO Will the project involve construction of drainage ditches/underground drains for purposes of lowering water table? NO Will all wastewater be connected to sanitary sewer? NO Will there be an increase in erosion/siltation from soil disturbing activity? NO Will petroleum oil and lubricants be routinely stored or used at the site? NO Will the project increase rates of surface/storm water run-off? NO

e. Natural Resources: Will there be a loss of forest land? NO Will public access for hunting, boating, fishing, etc., be restricted? YES Is there a change in land use from what is presently shown in Base Master Plan? NO Will removal of existing vegetation be required? YES Are there any known effects on any endangered species? Unknown Does the project involve the purchase or sale of any real estate? NO

f. Socio-Economic Considerations: Will the project cause an increase/decrease in on or off-base military population? NO Will there be any increased demand on a local or state government to provide services? NO Will there be any changes to traffic flow and patterns on or off-base? NO Will any noise, traffic, dust, etc., be generated which may affect off-base persons or property? NO Is there any known controversy associated with the type of project or action proposed? NO Are there any historical or archaeological sites affected by project/action? NO

NOTE 1. Answer either "yes", "no" or "unknown". Answers should be based on information available to the action sponsor at time of submission to the Base Environmental Impact Review Board. Do not delay the submission of this request awaiting additional information. Many environmental considerations need to be addressed in early planning stages. If additional information becomes available after submission, it should be forwarded to the EIRP.

6052
ENCLOSURE (1)



REQUEST FOR ENVIRONMENTAL IMPACT REVIEW

1. Action Sponsor: Commanding Officer, Marine Corps Service Support Schools.

2. Name, Address, Phone Number of Point of Contact:
Major J. A. Crookston, S-3, Marine Corps Service Support Schools
0755/0833/0911

3. Title and Brief Description of Proposed Action: Development of tactical helicopter landing zones in the Camp Lejeune, Montford Point area. Two tactical helicopter landing zones are needed in Training Area AC to support the field phase training of U.S. Navy Medical Department personnel assigned to Field Medical Service School. The intent is to create a realistic field setting for medical evacuation training of approximately 1400 students per year. The need is recurring: The first opportunity to use the landing zones would be 19 February 1985, when a field exercise involving 2nd FSSG (2nd Medical Battalion) and the Field Medical Service School will be conducted. No environmental protection measures are proposed at this time.

500x1000
①

300x300

6052



Add To 3689 Pitts Black

B009
620617
BMS1612

JOB ORDER (CONTROLLED MAINTENANCE)
MCBCL 11014/18 (REV. 12-80)

W.C.		Dist. Date-By	Job Order No.
Activity Accounting No. 67001		F/SFC M1	AMS-23-6052-23x XT
Appropriation 1751186		Subhead 2720	Facility No. G-17 MONTFORD POINT
Allotment/Project		CAC 7430	Approval Document AC/S Fac. Proj. No.
WGC 05	Type Of Work M1	Requester B009	Reg. No. MC555 242 1500/38 203 DTD 1/28/85
		Sketch/Plan Attached <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Special Instr.

For Further Information Contact:
 MAJ CROOKSTON PH# 0911/0755 CAPT PRESTON PH# 0833
 General Job Description

Expedite per Facilities

*DEVELOPMENT OF HELICOPTER LANDING ZONES FOR THE
MONTFORD POINT GRID LOCATION*

*7785 4583
7889 4533. & 7896 4528*

Note: Notify operations of significant changes.

AC/S Fac. Projects:
 The Authorized Funded Cost of _____ Will Not Be Exceeded Without Prior Approval Of AC/S Fac.

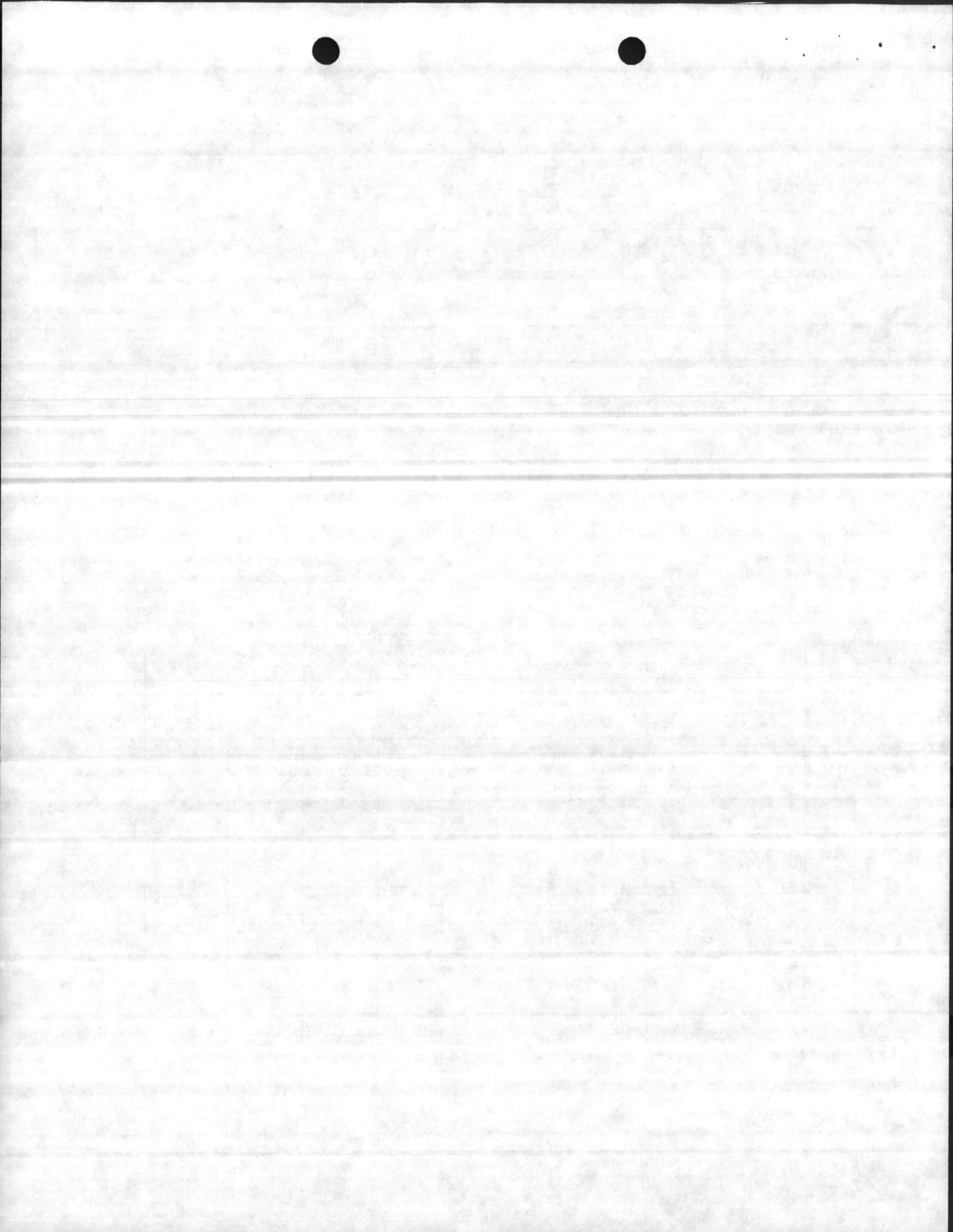
Starting Date: _____ Complete By: _____ Completed Date: _____

Breakdown of Work			Summary of Estimates					
Phase No.	Work Center	Description	Est. Hrs.	Work Center	Labor Hours	Labor Cost	Mat. Cost	Total Est. Cost
1	72	CLEAR TREES AND UNDER-GROWTH IN SITE 7889 4533	70	72 ^E	70	1168	/	1168
		AND LEVEL UP GROUND. RE-MOVE ALL STUMPS & BACKFILL		71 ^E	66	835	934	1769
		SH# 2 & 3		72	EQUIP	CHG	360	360
				73	VEN	CHG	168	168
2	71	BUSHHOE SITE 7785 4583 AND PART OF 7896 4528.	66					
		CHIP BUSH, HAIR MATERIALS, SPREAD, SEED, LIME & FERT. OVER BARE AREA WITH WHEAT STRAW. SH# 4-6						

For Continuation See Sheets Thru

Prepared By: Tuman Reviewed By: _____

Authorized By (Signature): F. E. Cove Date: 7-29-85



MAINTENANCE COST ESTIMATE WORKSHEET
 MCBCL 11011 (REV. 1-81)

DATE 7/16/85 REQ. NO. LTC UNIT B009 BLDG. NO. M.P. NATURE OF WORK CLEAR HELICOPTER LANDING ZONES WORK CENTER 72

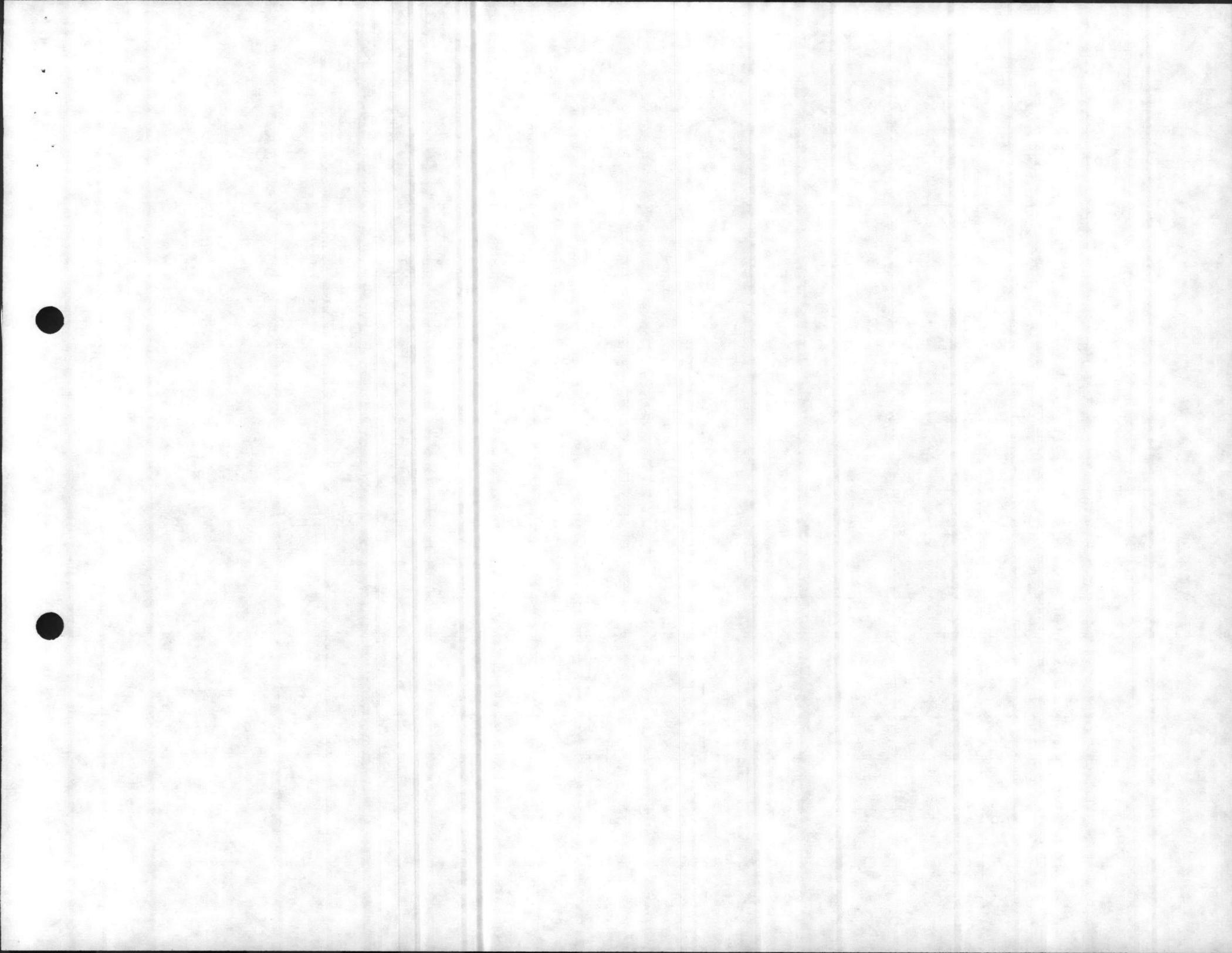
AMOUNT	MATERIEL REQUIRED	SIZE	UNIT	UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
27	DOZER @ 10.60	EQUIP	CHG	286.20		
4	FRONT LOADER @ 6.43	EQUIP	CHG	25.72		
				311.92		
8	LOW BED @ 9.33	VEN	CHG	74.64		

16	MAN HOURS @ WG-8 PER HOUR	15.36	TOTAL MAN DAYS	TOTAL MATERIEL	/	J.O. SERIAL NO.	
54	MAN HOURS @ WG10 PER HOUR	17.08		TOTAL LABOR			1168.08
70	TOTAL MAN HOURS	8.75		TOTAL LABOR AND MATERIEL			1168.08

AM15-23-6052-2372T

REMARKS:

OTHER WORK CENTERS INVOLVED 71 SIGNATURE OF P & E [Signature] DATE 7/25/85





JACKSONVILLE

CAMP LEJEUNE

CARDINAL

FIRE TOWER

AA

AK

EAGLE

CASONS

B

15A

CA

OIA

LANES DUAL

TRAIL

TRAIL

Wilson Mission

Jack Point

CURTIS ROADS

Mon USMC

Station

Yanks

Regged Point

BB

MA

M-1

M-1

IND

M-1

M-1

38 49

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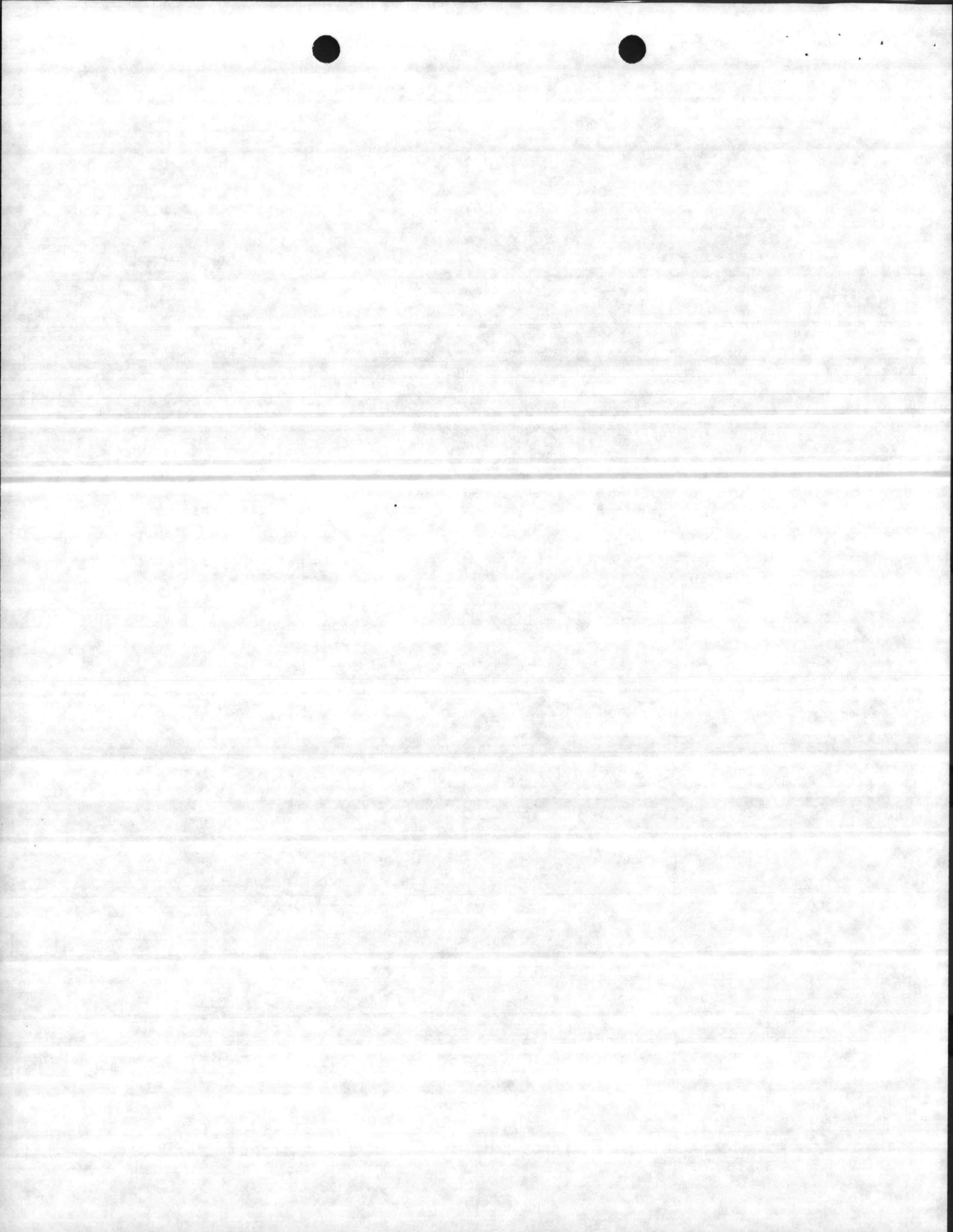
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U052
Sh 3



MAINTENANCE COST ESTIMATE WORKSHEET
 MCBCL 11011 (REV. 1-81)

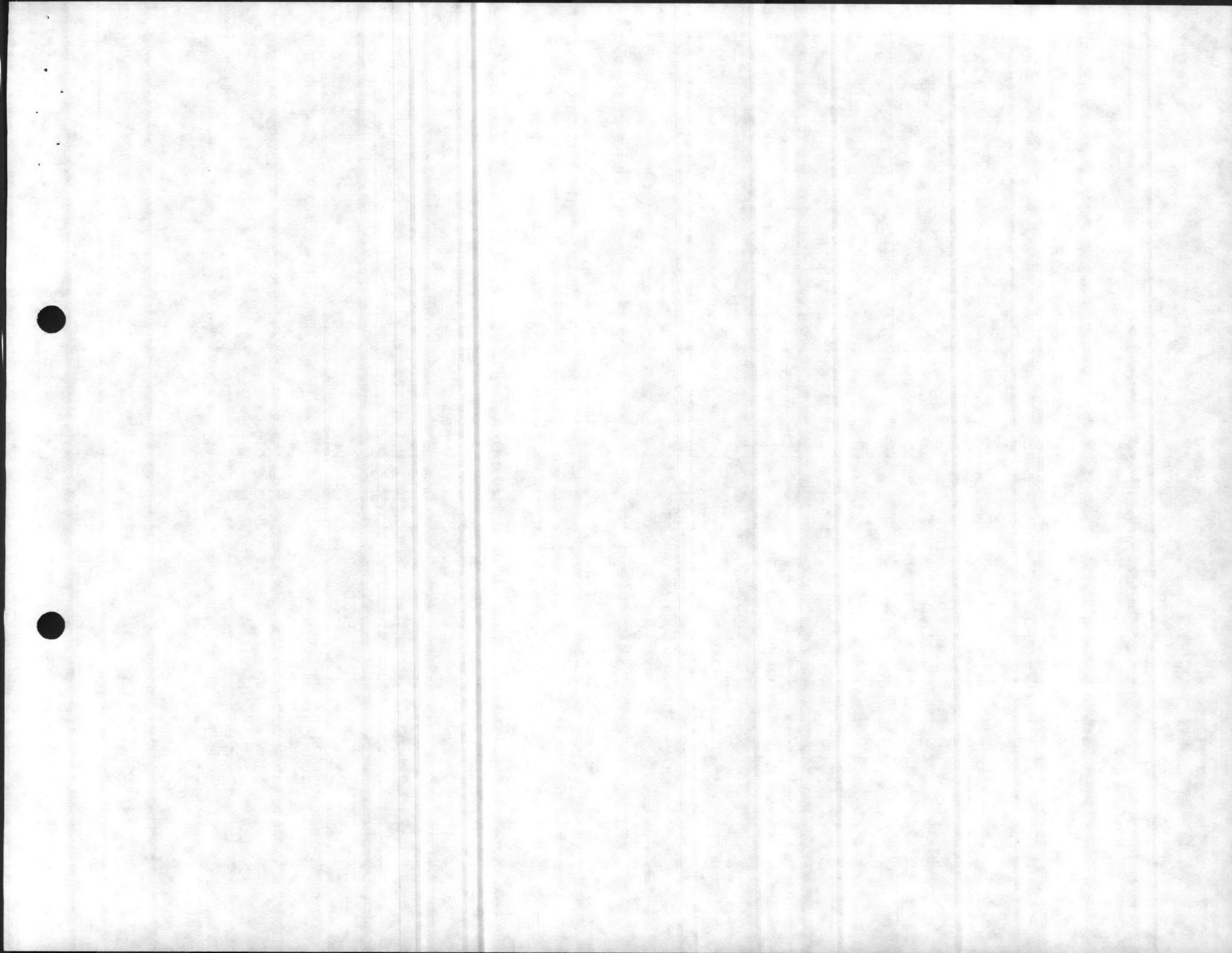
DATE 7/25/85 REQ. NO. LTR UNIT 5009 BLDG. NO. M.P. NATURE OF WORK Clear Helicopter Landing Zone WORK CENTER 71

AMOUNT	MATERIEL REQUIRED	SIZE	UNIT	UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
28	FERTILIZER 8-8-8	8720-00-C90-0001	50 #	bg	3.04	85.12
3	BERMUDA GRASS SEED		50 #	bg	117.50	352.50
125	LIME (AGRICULTURE)		50 #	bg	2.25	281.25
100	WHEAT STRAW		40 #	bale	1.75	175.00
5%	Richland Milling Co					
	Richland, N.C.					

26	MAN HOURS @	WG-2	PER HOUR	10.02	TOTAL MATERIEL	934.37	J.O. SERIAL NO. 6052
8		WG-6	PER HOUR	13.63			
32	MAN HOURS @	WG-7	PER HOUR	14.53	TOTAL LABOR	834.52	
66	TOTAL MAN HOURS			8.25	TOTAL LABOR AND MATERIEL	1768.89	

REMARKS:

OTHER WORK CENTERS INVOLVED 72 SIGNATURE OF P & E [Signature] DATE 7/25/85

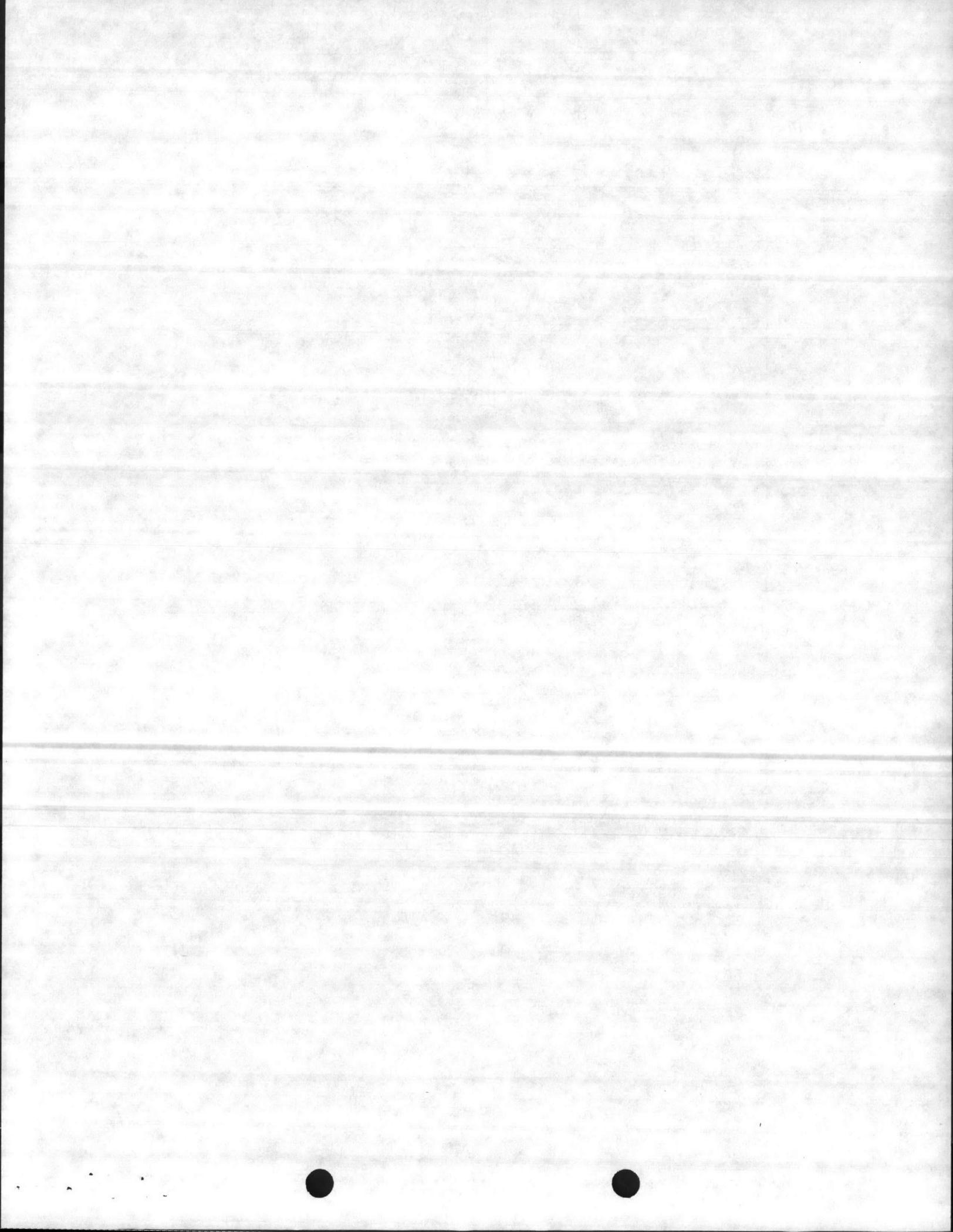


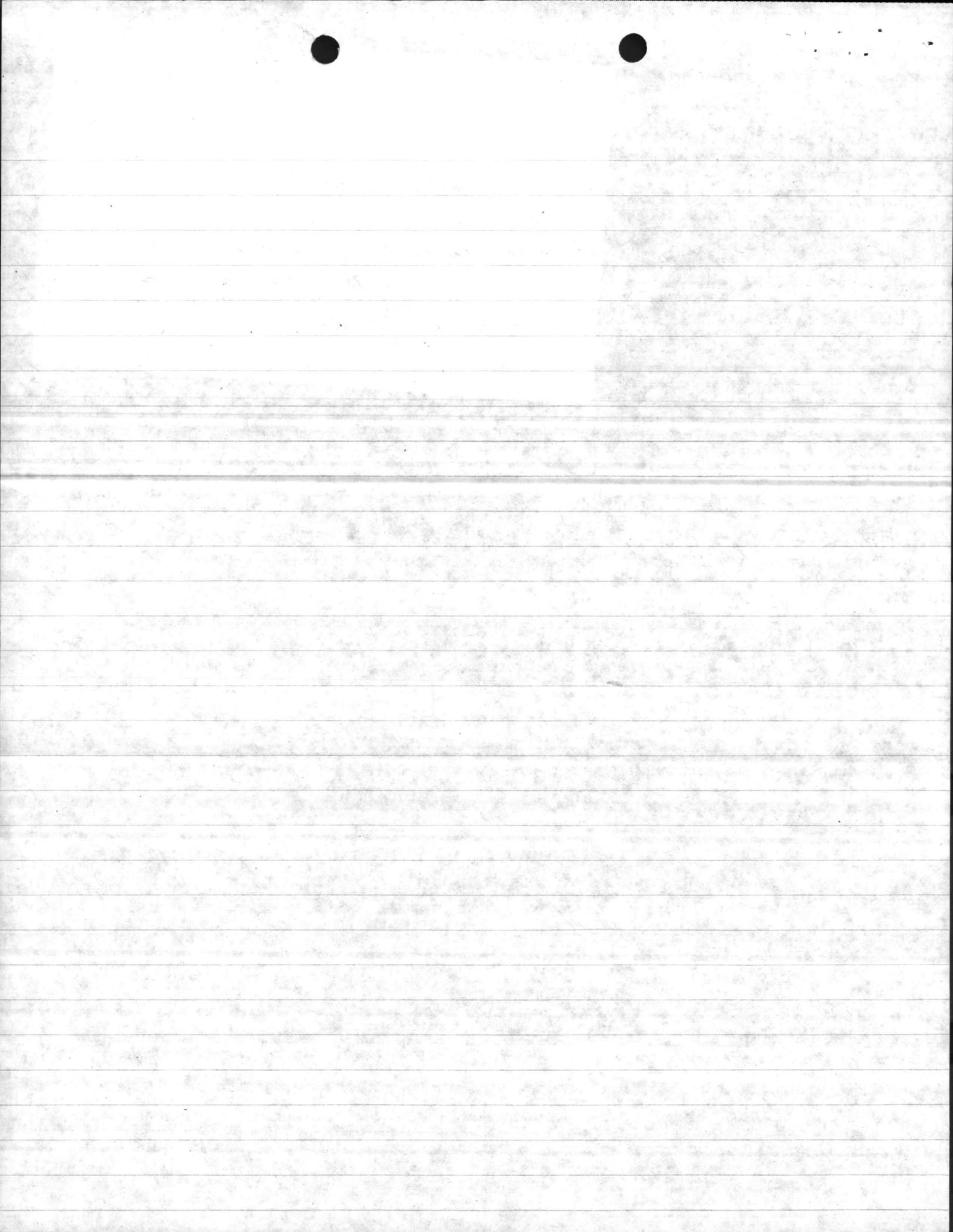
MAINTENANCE COST ESTIMATE WORKSHEET (Cont'd)
 MCBCL 11011/1 (REV. 1-81)

DATE	REQ. NO.	UNIT	BLDG. NO.	NATURE OF WORK	WORK CENTER			
7/16/85	LTR	8009	M.P.	CLEAR HELICOPTER LANDING ZONE	71			
AMOUNT	MATERIEL REQUIRED			SIZE	UNIT	UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
3	Rye GRASS SEED			50#	bg	13.50	40.50	
SSs	RICHMOND MILLING CO.							
	RICHMOND, N.C.							
4	TRACTOR, WHEEL Bush hog @ 3.26			Equip	chg	13.04		
4	TRACTOR, SPREADER (Lime & Fert) @ 3.26			Equip	chg	13.04		
10	CHIPPER (SHREDDER) @ 2.23			Equip	chg	22.30		
						48.38		
16	Dump truck @ 3.24			VEN	chg	51.84		
16	Cargo truck @ 2.57			VEN	chg	41.12		
						92.96		

J.O. SERIAL NO.
 6052







Disposal with Col Turbout 29 Aug 85

FROM: DIRECTOR, NATURAL RESOURCES ENVIRONMENTAL AFFAIRS DIVISION

TO: ASSISTANT CHIEF OF STAFF, FACILITIES

SUBJ: DEVELOPMENT OF HELICOPTER LANDING ZONES FOR THE
MONTFORD POINT

AND LT. ROBERTSON, FIELD MEDICAL TRAINING SCHOOL
REF (a) MEETING BTW. P. BLACK, BASE FORESTER, AND G. TURNER, P&E BASE MAINT., ON 22 AUG 1985.
REF (b) CO, MC555 MEMO 1500138 203 DTD 28 JAN 1985

ENCLOSURE

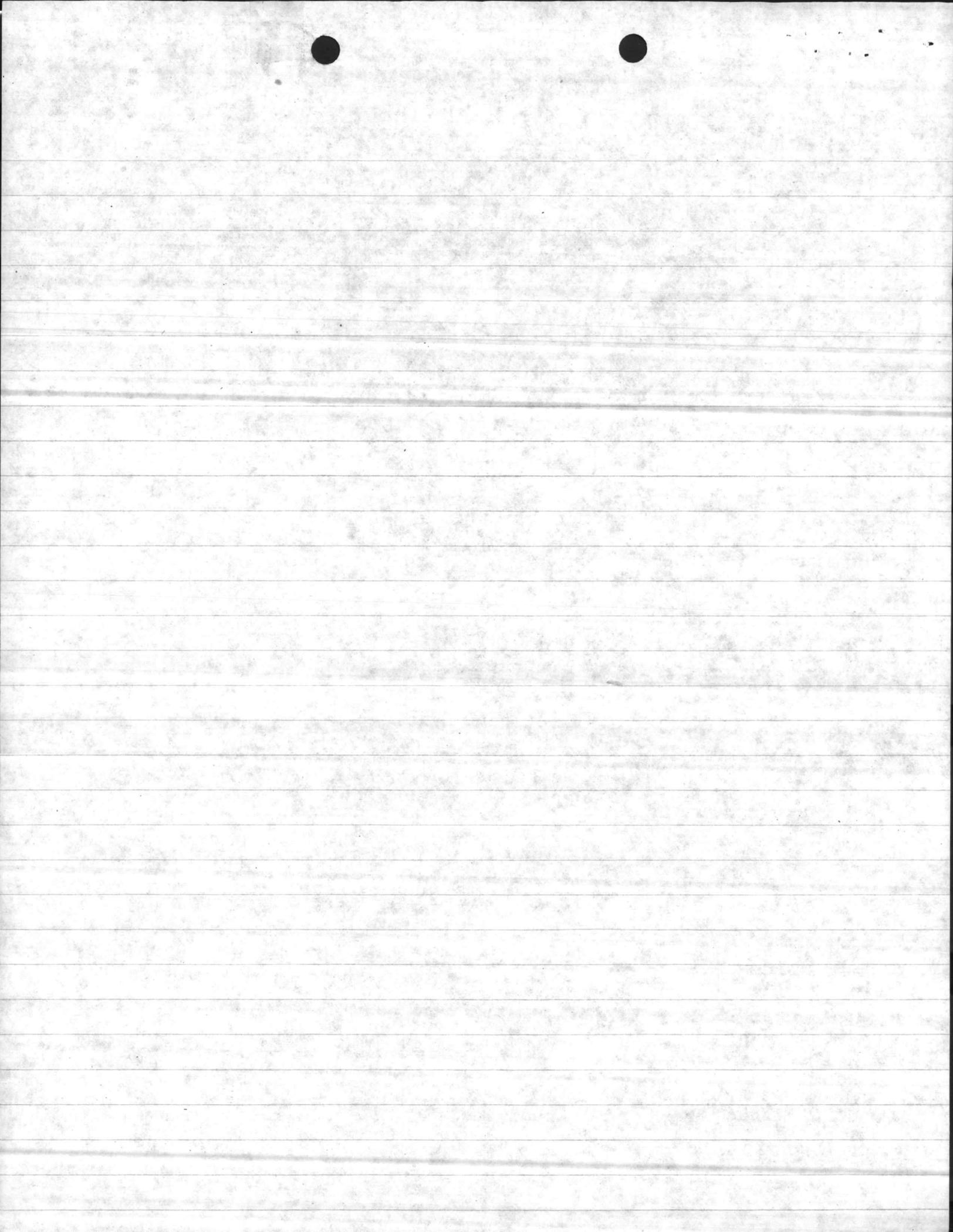
the timber being pushed to clear
1. Reference (a) was scheduled in order to determine if
the two TLZ's requested in reference (b) was merchantable.

During reference (a) Mr. Turner stated that the required
of the TLZ's
size were 500 ft. by 1000 ft., or slightly over, in each
direction.

Mr. Turner stated that this was the size required for safe
operation of the aircraft to be used in the training. The
size of the TLZ has been coordinated by the personnel at
the Field Medical Service School and the Air Station personnel.

2. At TLZ #1, geo 789453, clearing had begun but the timber
that had been pushed would probably not have been merchantable.
There was merchantable timber inside the boundary
of the TLZ and the clearing was halted ^{by Mr. Turner} to allow forestry
personnel an opportunity to harvest ^{merchantable} the timber.

3. TLZ #2, geo 798458, was sited in an area that would
not allow a 500 ft. by 1000 ft. area to be cleared. The
area was examined and it was determined that only
an area 600 ft. by 400 ft. would be possible ~~without~~
~~without~~ ~~without~~. Lt. Robertson said he would call the
Air Station to determine if this area would be satisfactory.



4. ON Friday, 23 Aug, Lt Robertson called me and stated that an area 300ft. by 300ft. would be large enough for the required training and that there would be no additional clearing required on TLZ #1 and only a slight enlargement of the cleared area already existing in TLZ #2.

5. No merchantable timber was lost during this operation but revenue could easily have been lost if Mr. Turner had not recognized the quality of the timber in portions of TLZ #1 and set up Reference (a). Reference (a) also resulted in the reduction in the required size of the TLZ's FROM 1000ft by 500ft to 300ft by 300ft, or a reduction from 11 acres per TLZ to slightly over 2 ac per TLZ.

6. Reference (b) and other Environmental Impact Reviews must be surveyed ^{more} carefully to prevent significant financial loss or environmental degradation.

