

Lt Redman



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND

WASHINGTON, D.C. 20362

IN REPLY REFER TO
06H11/LDW
Ser 818
8020

30 SEP 1983

From: Commander, Naval Sea Systems Command
To: Commanding General, Marine Corps Base
Camp Lejeune, North Carolina 28542

Subj: Approval of Ammunition/Explosives Disposal Areas

Ref: (a) MCB Camp Lejeune 1tr EOD/HBR/ves 8027 of 24 Aug 1983
(b) MCB Camp Lejeune 1tr EOD/HBR/ves 8027 of 5 July 1983
(c) NAVSEA OP-5 Volume 1 (Fourth Revision)

1. The additional data, forwarded by reference (a) in support of the request of reference (b) for approval of the ammunition/explosives disposal areas, has been reviewed. Based on this review, the ammunition/explosives disposal areas marked within the G-10 and K-2 impact areas listed in enclosures (2) and (3) of reference (a) are approved as a Class A and a Class B detonation site respectively. In this regard, it is recommended that the detonation sites be identified differently than the entire impact areas, such as G-10A and K-2A.

Copy to:
CMC (Code LMW-50)

M. Van Slyke

M. R. VAN SLYKE
By direction



UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

EOD/HER/ves
8027
24 August 198

From: Commanding General
To: Commander, Naval Sea Systems Command, (Code: SEA-06H11),
Department of the Navy, Washington, D.C. 20362

Subj: Approval of Ammunition/Explosives Disposal Areas; request for

Ref: (a) NAVSEASYSKOM ltr 06H11/LDW over 8020, Ser 545, dtd
27Jul83
(b) NAVSEA OP-5 Volume 1 (Fourth Revision)

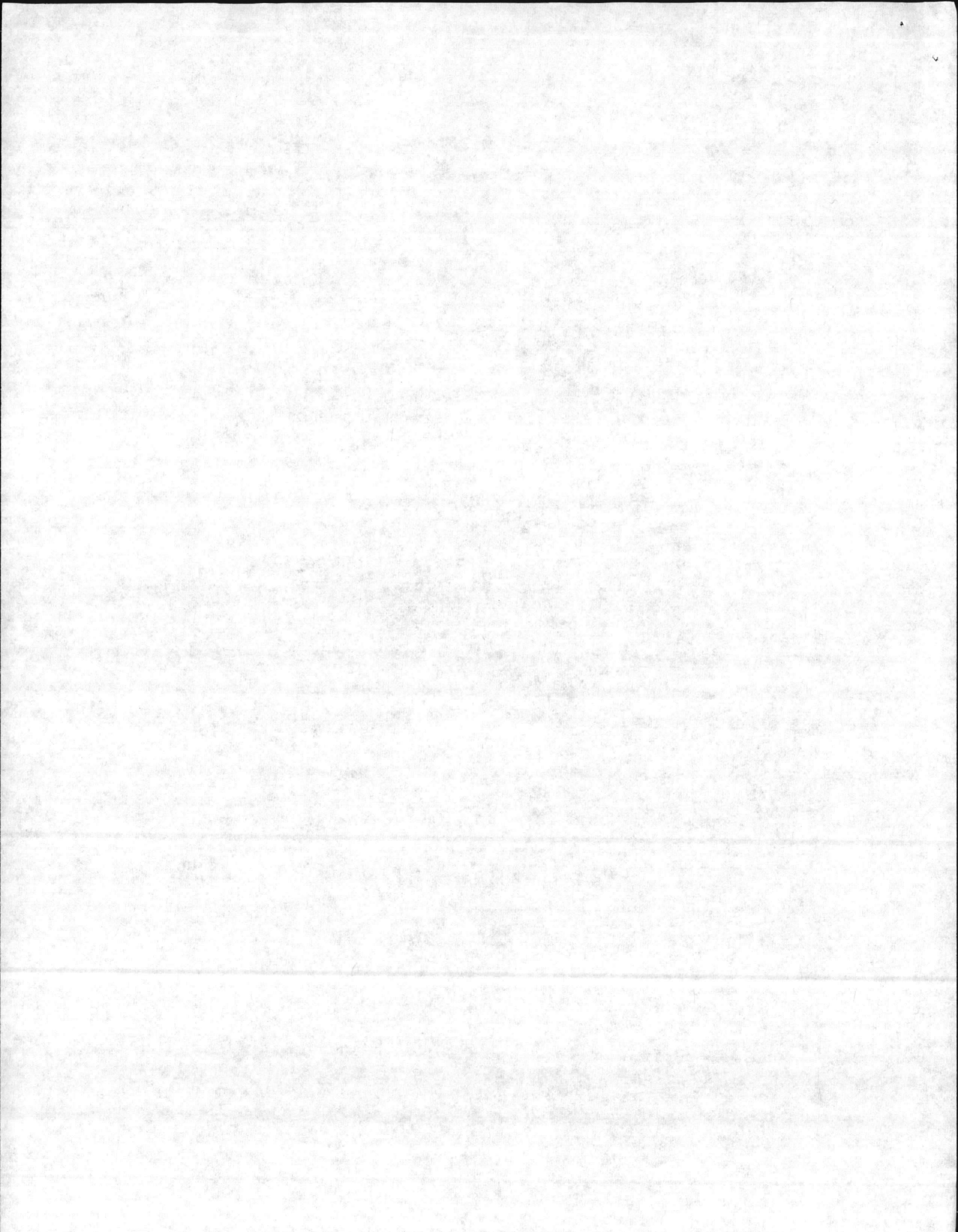
Encl: (1) EOD SOP and Safety Regulations for Disposal, Training,
and Range Clearance Operations.
(2) Extract, Camp Lejeune Special Map (1:50,000) showing
requested Ammunition/Explosives Disposal Site, G-10
(3) Extract, Camp Lejeune Special Map (1:50,000) showing
requested Ammunition/Explosives Disposal Site, K-2
(4) Quantity Distance Table for requested Ammunition/
Explosives Disposal Sites G-10 and K-2

1. Reference (a) renewed the approval of the Ammunition/Explosives Disposal Areas K-326 and G-4A and requested more information for the approval of additional ammunition/explosive disposal areas.

2. Due to the intensive amount of training conducted at Camp Lejeune involving the use of live fire ranges, a substantial amount of Grade III ammunition/explosives are generated and must be disposed of on a routine basis. Disposal of Grade III ammunition/explosives is conducted by Explosive Ordnance Disposal Personnel in accordance with reference (b) and applicable EOD publications following the Standard Operating Procedures in enclosure (1). Quantities of Grade III ammunition/explosives to be disposed of will not exceed 500-lbs. explosive weight per detonation.

3. Because of the scheduling of various live fire ranges and the varying amounts of Grade III ammunition/explosives to be disposed of; it is necessary to have several different ammunition/explosives disposal areas approved. It is requested that the area marked within the G-10 and K-2 impact area listed in enclosures (2) and (3) be authorized for the disposal, by open pit burning and detonation, of unserviceable/Grade III ammunition and explosives.

4. Enclosure (4) is a Quantity/Distance Table for the requested ammunition/explosives disposal areas within the G-10 and K-2 impact area that exceeds the requirements listed in Table 11-2 of reference (b).



EOD/HBR/ves
8027

5. For further information, point of contact at this command
is 1stLT H. B. REDMOND, JR, Autovon: 484-0118/0382.

K. W. ZITZ
By direction

Copy to:
CMC (Code; LMW-50)

EXPLOSIVE ORDNANCE DISPOSAL TEAM

ER/hbr
3025
6 July 1983

EXPLOSIVE ORDNANCE DISPOSAL TEAM 8127

From: Explosive Ordnance Disposal Officer
To: Explosive Ordnance Disposal Team

Subject: Standing Operating Procedures and Safety Regulations for Disposal, Training, and Range Clearance Operations.

Ref: (a) OP-5 Vol-1
(b) BC P11102.1
(c) EOD Publications

Encl: (1) Specific Instructions for Range Utilization

1. Purpose. To promulgate procedures, guidelines and responsibilities for EOD personnel aboard Camp Lejeune, in the conduct of disposal, training, and range clearance operations.

2. General. All general safety precautions for handling, transporting and disposing of explosive ordnance are contained in references (a) thru (c) and this memorandum. Specific safety precautions for disposal, training, and range clearance operations are contained in the enclosed instructions.

3. Operations. Due to the wide variety of ordnance, differences in terrain and weather conditions, and the unpredictable conditions in which ordnance is found, one specific set of procedures cannot be established. The following general procedures are to be adhered to whenever possible:

a. Planning.

1) Each individual operation should be planned completely. All personnel should be briefed as to what is expected of them, to include the types of ordnance to be found, the condition in which the ordnance may be in, a review of safety precautions, evacuation/medical assistance procedures, communication procedures, and specific hazards particular to the planned operation (i.e. snakes, logs, animals, etc...).

2) Especially hazardous operations (i.e. sanitation of range, etc.) will be planned in detail, with the plan of operation drawn up in writing.

b. Personnel.

1) The senior EOD officer or EOD technician is responsible for the entire operation.

ENCLOSURE (1)

- 2) Only qualified EOD personnel will be employed in the render safe of fired ordnance unless otherwise approved by the EOD officer or NCOIC.
- 3) A minimum of two (2) qualified personnel will be present during all disposal, training, and clearance operations unless otherwise approved by the EOD officer or NCOIC.
- 4) The number of support personnel (radioman, drivers, corpsman, etc...) will be kept to a minimum.
- 5) All personnel involved will be accounted for and their locations known at all times.

c. Natural Conditions.

- 1) All range clearance/disposal operations will cease in the event of an electrical storm.
- 2) Range clearance/disposal operations will be conducted only during daylight hours except for emergencies.
- 3) As authorized by reference (b) the maximum explosive weight per shot on Camp Lejeune is determined by the "Blast Focus Prediction Method" which may be requested on a daily basis, from Range Control. The recommended amount will not be exceeded unless authorized by proper authority.

d. Communication. In accordance with reference (b) two-way communications by radio will be established and maintained with Range Control while ranges are being used for clearance, training, or disposal operations. Should positive communications be lost with Range Control, operations will cease until communication is re-established. Range Control will be notified of any communication breakdowns. An immediate ceasefire until Range Control is notified will take place at 30 minute intervals.

Call's no. _____
 Freq: _____
 Phone: _____

Emergency Evacuation. All personnel with emergency evacuation vehicle (EOD vehicle) shall be present during all operations. All necessary medical equipment will be present during all operations. In the event of an accident on any range, all operations will cease. If emergency evacuation is required, the following information must be provided:

- 1) Location: Range Number and Grid Square.
- 2) Type of Accident: Explosive, Fire, etc...

- 3) Number of Casualties:
- 4) Condition of Survivors:
- 5) Type of Assistance Required:
- 6) Marking of LZ for Helo: Smoke, Air Panels, etc...

Once the injured are cared for and evacuation completed, the accident scene will not be tampered with until a thorough investigation is completed.

H. B. Redmond Jr.
H. B. REDMOND JR.
1STLT USMC

Copy to:
2d FSSG, Ammunition Company, BOD Platoon
MAG-29, BOD Team

ENCLOSURE (1)

SPECIFIC INSTRUCTIONS FOR RANGE UTILIZATION.

1. All explosive operations will be conducted in accordance with NAVSEA OP-5 Vol 1 and current applicable ECD directives.
2. The following will be accomplished during the conduct of range clearance, disposal, and training operations:
 - a. Positive communication will be established with Range Control.
 - b. A red flag will be flown at the entrance to the range utilized if applicable. If K-326 is being utilized, a second flag will be flown on the river bank.
 - c. Close the gate to the range access road if applicable.
 - d. Request clearance from Range Control prior to commencement of clearance, training, or disposal operations.
 - e. Before the priming of demolitions request permission to go hot from Range Control.
 - f. Check for low flying aircraft, and river boats if on a range that borders on a waterway prior to commencing of detonations.
 - g. Sound a thirty second warning with siren before detonation.
 - h. Notify Range Control when detonations have ceased, and again when EOD personnel secure from the range.

ENCLOSURE (1)

(4)

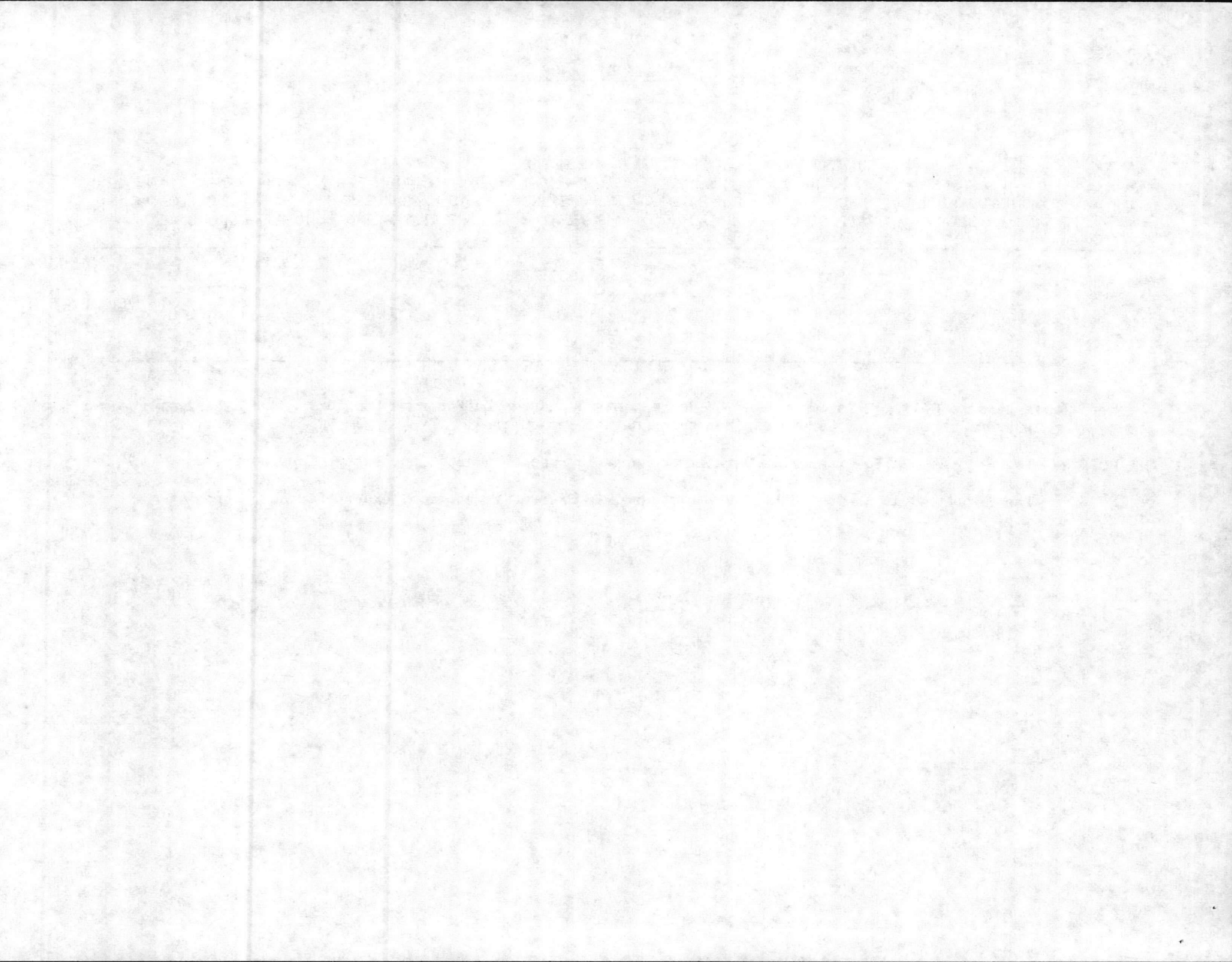
QUANTITY DISTANCE TABLE

SITE	CLASS OF DETONATION SITE	QUANTITY (IN POUNDS) OF EXPLOSIVE	DISTANCE TO (IN FEET) NEAREST INHABITED BUILDING	PERIMETER (IN FEET) OF CLEARED AREA	DISTANCE (IN FEET) TO NONSHELTERED RETREAT AREA	DISTANCE (IN FEET) TO EXPLOSIVE HOLDING AREA
G-10	A	500	5500	1000	6000	7000
K-2	B	500	7500	500	5000	10000

NOTE 1: Access to G-10/K-2 is controlled by Range Control and the buffer zone boundaries are clearly marked to prevent unauthorized personnel from entering the impact area.

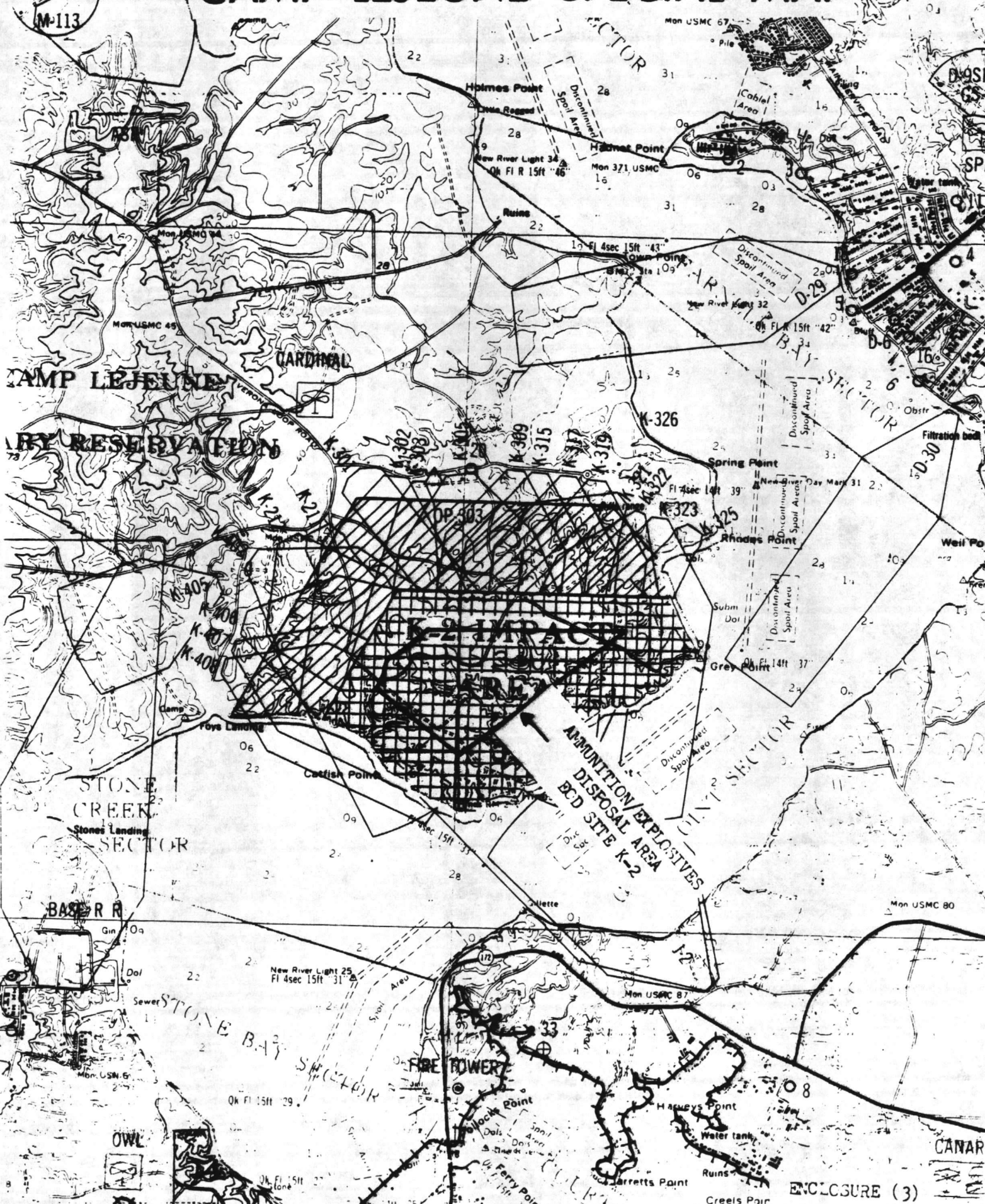
NOTE 2: The requested area within the G-10 impact area is free of vegetation, except for short grass.

NOTE 3: The requested area within the K-2 impact area is free of vegetation, except for short grass.



CAMP LEJEUNE SPECIAL MAP

H-122
M-115
M-113



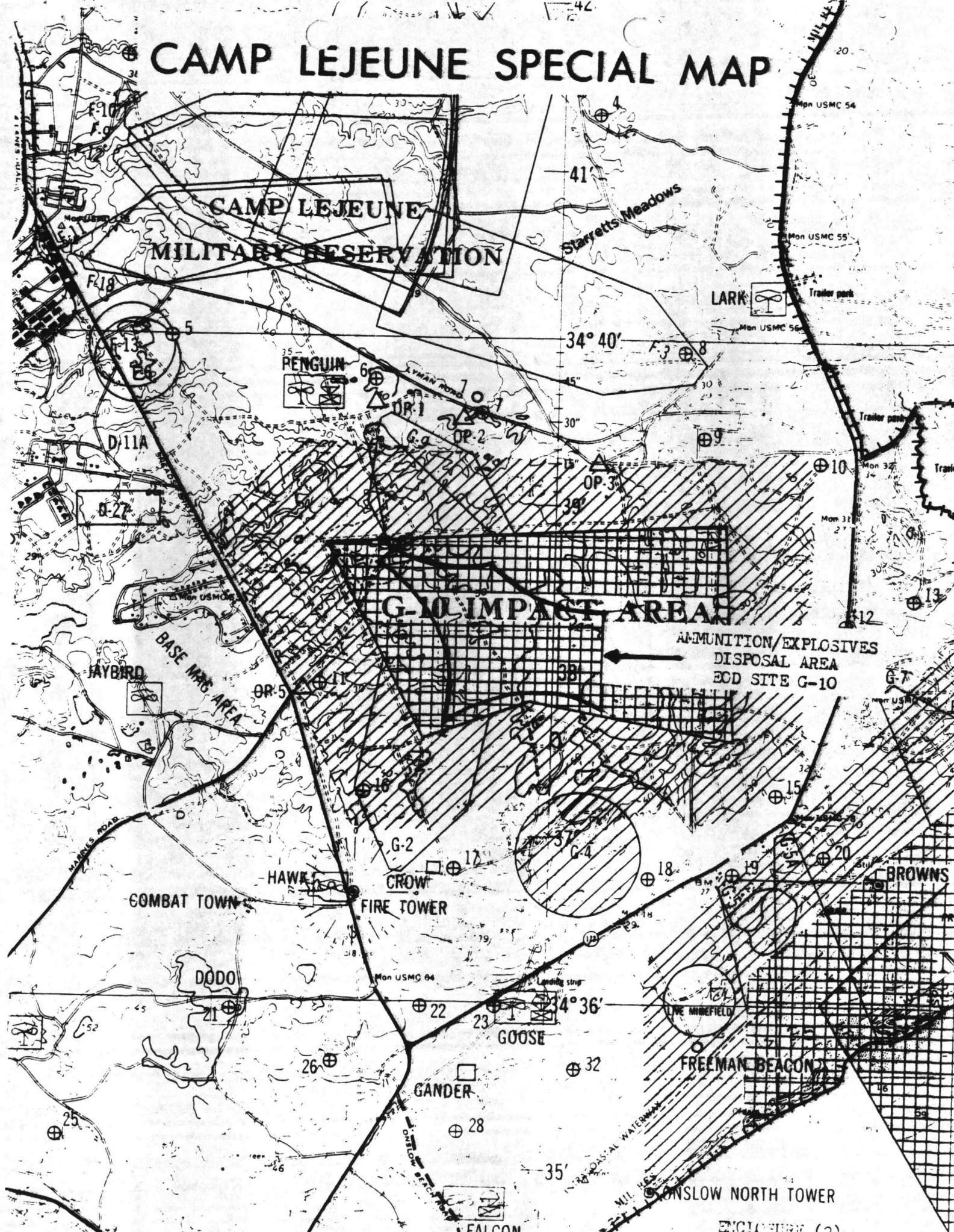
ENCLOSURE (3)

CAMP LEJEUNE SPECIAL MAP

CAMP LEJEUNE
MILITARY RESERVATION

G-10 IMPACT AREA

AMMUNITION/EXPLOSIVES
DISPOSAL AREA
EOD SITE G-10



FALCON

ENCLOSURE (2)

ROUTINE

R 151705Z JAN 88

FM CG FMFLANT

TO CG SECOND FSSG

R 050130Z JAN 88

FM CMC WASHINGTON DC//LFL//

- TO CG MCCDC QUANTICO VA
- CG FMFPAC
- CGFIRST MARDIV
- CG MCLB ALBANY GA
- CG MCRDAC WASHINGTON DC
- CGSECOND MARDIV
- CG MCAGCC TWENTYNINE PALMS CA
- CGTHIRDMAW
- COMCABEAST CHERRY PT NC
- CG MCAS EL TORO CA
- CGFIRSTMAW
- CG MCLB BARSTOW CA
- MCAS BEAUFORT SC
- MCAS KANEQHE BAY HI
- MCAS TUSTIN CA

- CG MCB QUANTICO VA
- CG FMFLANT
- CG MCRD WRR SAN DIEGO CA
- CGTHIRDMARDIV
- CG MCB CAMP LEJEUNE NC
- CG FOURTH MARDIV
- CG MCRD ERR PARRIS ISLAND SC
- CG MCAS CHERRY PT NC
- CG FOURTH MAW
- CG SECOND MA
- CG MCB CAMP PENDLETON CA
- COMCABWEST EL TORO CA
- MCAS CAMP PENDLETON CA
- MCAS NEW RIVER NC
- MCAS YUMA AZ

76
G-4
Good w/ MCB and
find out exactly what
can & can't be burned
& when, Admin
& Barstow
units

INFO NAVORDSTA INDIAN HEAD MD

BT
UNCLAS //NO6280//

SUBJ: NEW FEDERAL REGULATIONS APPLICABLE TO OPEN BURNING/OPEN
DETONATION OF WASTE EXPLOSIVES

A. 52 FEDERAL REGISTER 46946, 10 DEC 1987

1. THE REFERENCE CONTAINS THE FINAL RULE ADOPTING NEW POLLUTION
CONTROL REGULATIONS COVERING SEVERAL CATEGORIES OF HAZARDOUS WASTE
(HW), INCLUDING WASTE EXPLOSIVES. THESE REGULATIONS ARE EFFECTIVE
11 JAN 1988 AND REQUIRE ADDRESSEES TO CLOSELY SCRUTINIZE THEIR
HANDLING, TREATMENT, AND DISPOSAL OF WASTE EXPLOSIVES. FAILURE TO

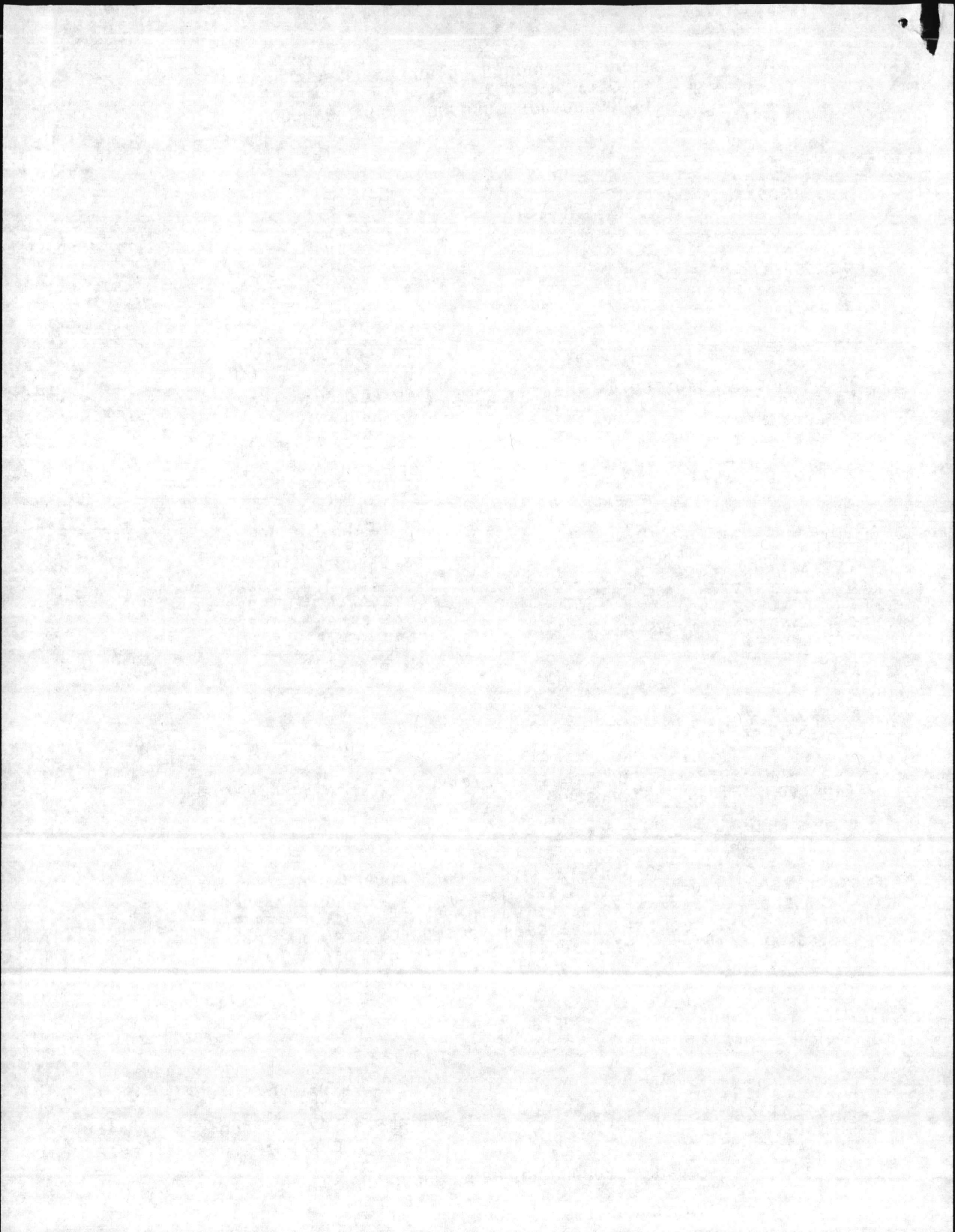
FTG4(3)...ACT FOR CG SECOND FSSG(6)
FFCG(1). FMED(2)

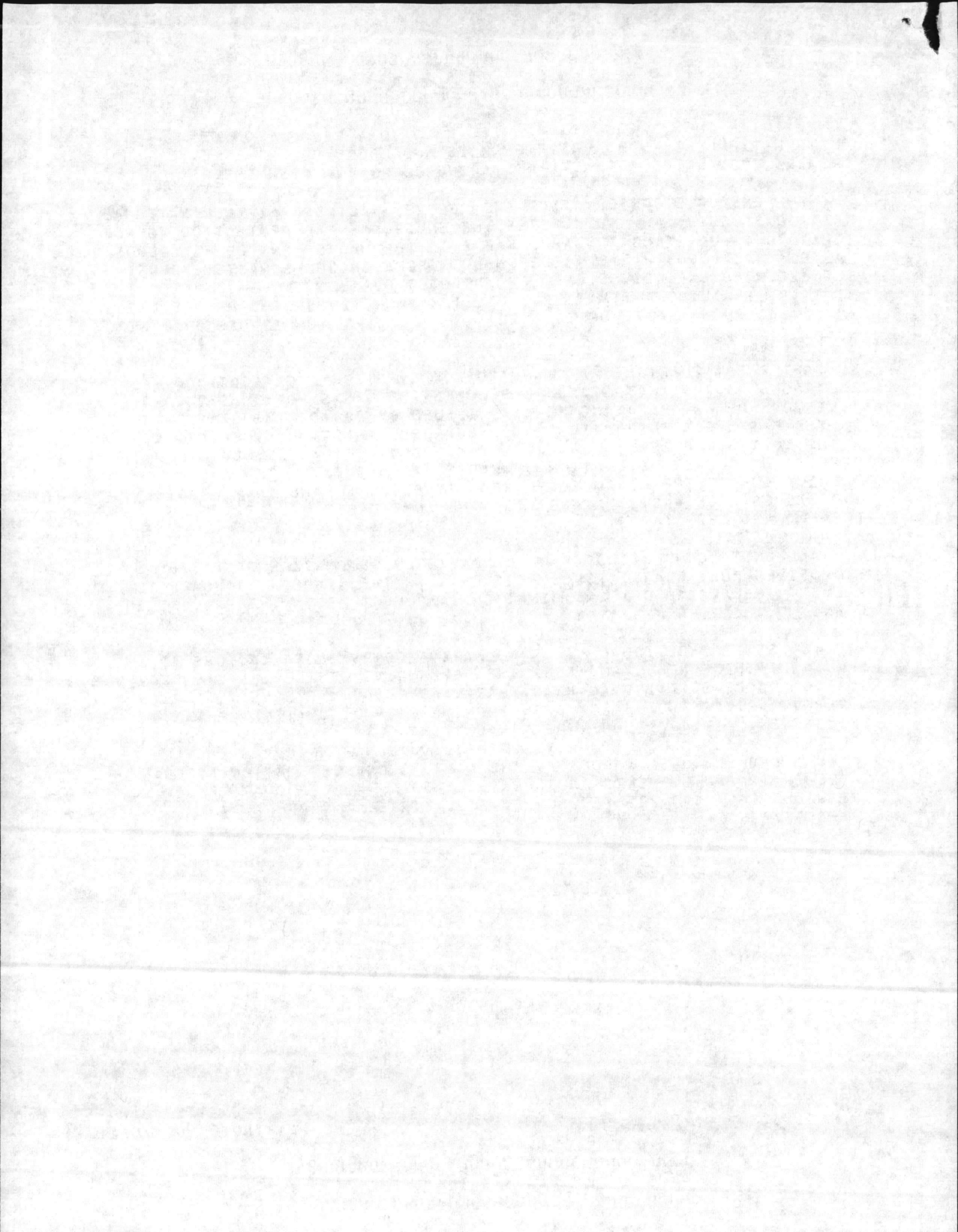
06280/ 1/0181

RTD:000-000/COPIES:0006

652612/1377/015
CSN:RFSS0303

1 OF 2 M1 0305 015/18:07Z 050130Z JAN 88
CMC WASHINGTON DC//LFL//





File P.1
y



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

FACSIMILE TRANSMISSION COVER SHEET

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 4 DATE 1/26/88

TO:
AGENCY 8th Eng Supt Bn
NAME Capt Taylor
CODE EOD
TELEPHONE NUMBER 751 5419

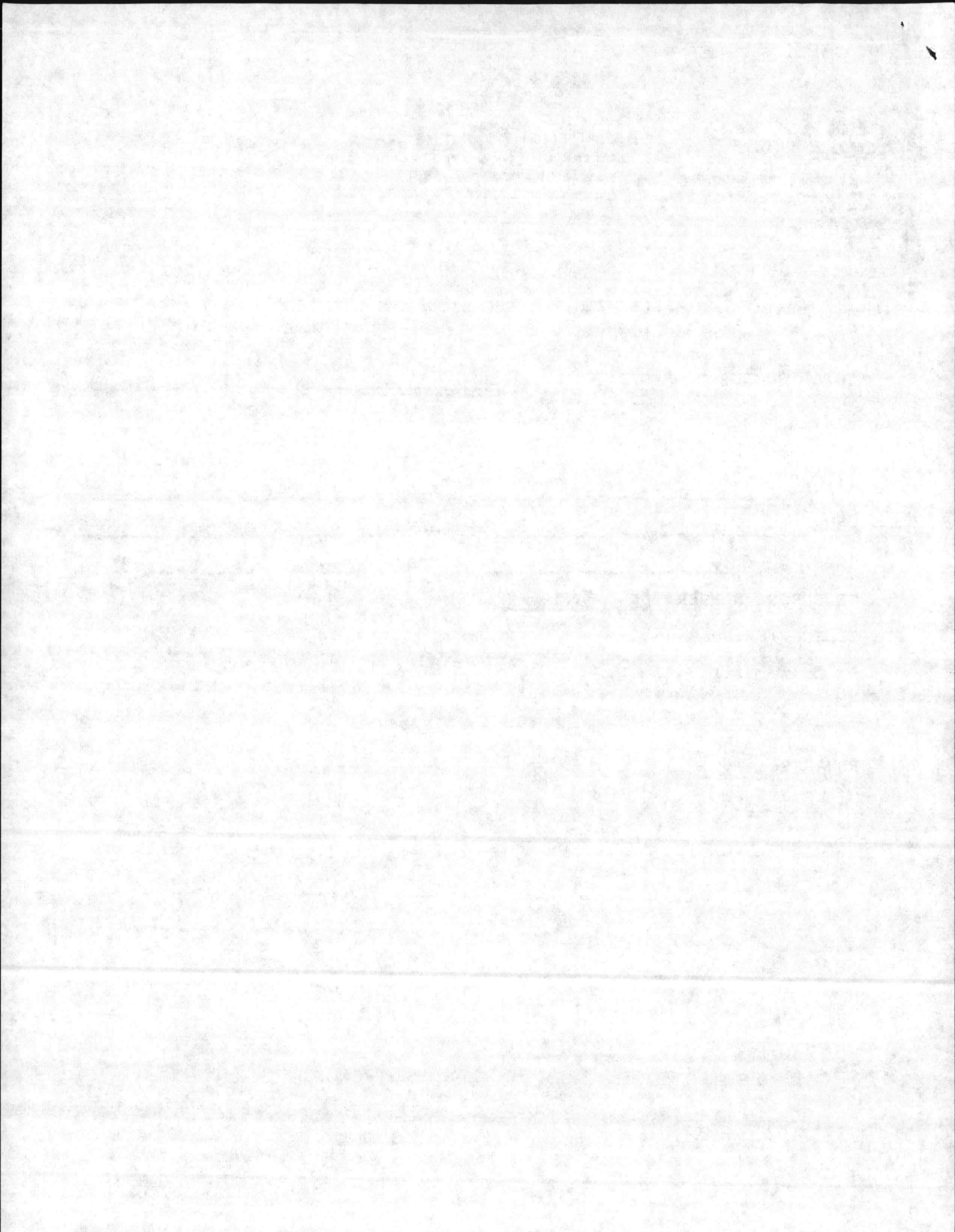
FROM:
AGENCY HQMC
NAME CAPT KIEREPA
CODE LPP-4

TELECOPIER NUMBER
Commercial (919) 451-5691
AUTOVON

REMARKS:

Cecil:
See 15 JAN 88 MEMO. Begin with that advice.
The permit writers guide should be in the hands of the base environmental coordinator

John



15 Jan 1988

Paul _____
Col Gross _____

During the last three days I have had several discussions with Capt Kiozopka, IPP-4, concerning the new OB/OD issue. We have talked to the Navy experts at Indian Head, Md., Mr. Shaefer's Office (Mike Webb), and the Army Environmental Office (Col Strada/Nancy Pomerlau). We all are concerned that the EPA is sending mixed signals about the implementation of Subpart X. The Army is going to force the issue by requesting an interpretation of the EPA regulations.

In the mean time our advise to the FIELD EOD OFFICERS and Natural Resource Managers is

1. Get together, along with a rep from the CVA office, and discuss your installation's present operating procedure.
2. Obtain a copy of the Army Permit Writers Guide (approved by the Navy) and begin drafting a permit application to be submitted to the EPA Regional Office or state agency, as appropriate.
3. Contact the EPA Region and/or state to obtain local guidance concerning the satisfaction of local requirements.
4. Decide at each installation a way to continue essential military operations without violating the new regulation: consider diverting some ordnance to legitimate training activities; identify that ordnance which must be disposed of under the emergency provisions of hazardous waste treatment; or obtain the approval of the state/Regional EPA to continue present operations in a reasonably safe manner until the permit application has

BEFORE SUBMITTING the permit writers guides through the East and West Coast Regional Review Boards. We will also continue to work with Army/Navy experts to ensure consistency between our actions and other DoD responses. Recommend that this issue be discussed at the next meeting of the DoD Environmental Working Group which Paul Hubbell attends.

P. Arundel

JAN 26 '88 09:18

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

RECEIVED

DEC 04 1984

30 NOV 1984

AIR & HAZARDOUS
MATERIALS
OFFICE OF

SOLID WASTE AND EMERGENCY RESPONSE

*Copy to
John H. Skinner
John H. Skinner
John H. Skinner*

MEMORANDUM

SUBJECT: Classification of Small Arms Ammunition
With Respect to Reactivity

FROM: John H. Skinner, Director
Office of Solid Waste (WH-562)

TO: David Wagoner, Director
Air & Waste Management Division
Region VIII

Recently, a question arose as to the status under RCRA of off-specification small arms ammunition (ball or sporting ammunition of calibers up to and including 0.50) intended for disposal. The issue concerned whether such wastes are "reactive wastes" within the meaning of 40 CFR 261.23(a)(6) and, therefore, subject to RCRA hazardous waste requirements. Because the ammunition contains an ignition source that may be shock and heat sensitive and is designed to generate high pressure during use, it had been our opinion that it is probably "reactive." However, on the basis of information that was received from the Remington Arms Company and the Army, we now conclude that such materials are not "reactive" within the meaning of 40 CFR 261.23(a)(6).

Section 261.23 (a)(6) of Title 40 provides that a solid waste which is "capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement" is "reactive." As discussed in the May 19, 1980, preamble to 40 CFR 261.23, shock and thermal instability are important elements of this definition. While presently there is no Agency guidance regarding these criteria, the Remington Arms Company of Independence, Missouri, and the U.S. Army have provided information which addresses both of these factors.

Remington Arms Company submitted details on the effects of heat and impact to small arms ammunition. There was no explosion when a box of ammunition was set afire. Small arms, when subjected to the SAAMI (Sporting Arms and Ammunition Manufacturer's Institute) Impact Test, showed no evidence of mass propagation or explosion.

-2-

The Department of the Army has a rigorous safety and hazard testing program on all munition items. The tests, which include drop tests from 5, 7, and 40 feet to simulate handling errors and "heating under confinement," 160°F for 48 hours, also showed no evidence of detonation or explosion with respect to small arms ammunition. The tests were performed on both the individual munition and a package containing a prescribed number of items.

As noted above, we feel that results from these tests show that off-specification small caliber ammunition up to and including 0.50 is not "reactive" within the meaning of 40 CFR §261.23 (a)(6). We, therefore, believe that the disposal of such ammunition is not subject to Subtitle C hazardous waste requirements.

We appreciate your cooperation. If you have any questions regarding the matter, please call David Friedman or Florence Richardson at FTS 382-4770.

cc: Air & Waste Management Divisions Directors,
Regions I-VI and VIII-X

OFFICE OF THE STAFF JUDGE ADVOCATE
Marine Corps Base
Camp Lejeune, North Carolina 28541-5000

4570
SJA41

FOR OFFICIAL USE ONLY

OCT 1987

From: Staff Judge Advocate, Marine Corps Base, Camp Lejeune
To: Explosive Ordnance Disposal Officer, Marine Corps Base,
Camp Lejeune

Subj: EPA REGULATIONS REGARDING EOD OPERATIONS

Ref: (a) Your ltr 4570 EOD of 10Sep87
(b) SJA memo 5090 SJA43 of 8Jul87
(c) 40 C.F.R. 270 Subpart P
(d) MCO P11000.8B, Real Property Facilities Manual,
Volume V
(e) New Hanover County request for EOD support of 1 June
1987 w/applicable permits
(f) SJA memo 5800 SJA41 of 21Sep87

Encl: (1) U.S. Army Environmental Hygiene Agency "RCRA Part B
Permit Writers' Guidance Manual for DOD Open
Burning/Open Detonation (OP/OD) Units" of 29 May 1987

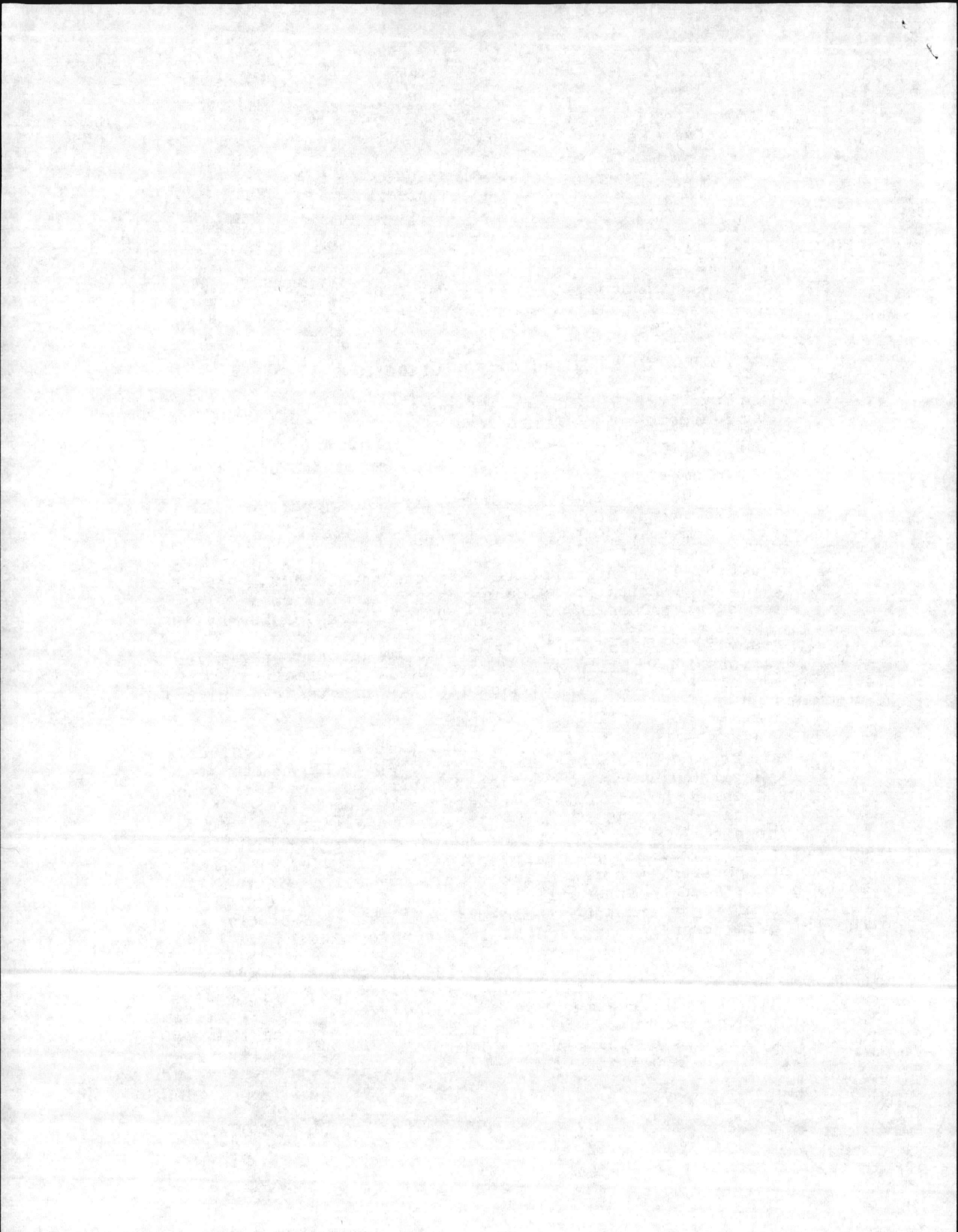
1. In response to your request for interim guidance regarding
EOD operations in compliance with EPA and North Carolina
environmental regulations, reference (a), I provide the following
comments:

a. In reference (b), I stated that Camp Lejeune received an
unfounded discrepancy on the 30 March - 1 April EPA/North
Carolina Hazardous Waste Inspection because I had been informed
that munitions greater than .50 caliber were not being
burned/detonated by EOD. I have since learned that open
burning/open detonation (OP/OD) of munitions greater than .50
caliber is a common and necessary practice. In view of that
fact, and upon review of existing regulations, I am of the
opinion that Camp Lejeune will be required to obtain a RCRA
permit if military ordnance items are demilitarized by OP/OD.
The following regulations support this opinion:

(1) Reference (c), 40 C.F.R. 265.370 through 382
(Subpart P) are the EPA regulations which govern interim status
facilities' thermal treatment of hazardous waste. The EPA treats
munitions which are intended to be disposed and greater than .50
caliber in size as a "reactive" hazardous waste (see reference
(b)). 40 C.F.R. 370 states that subpart P applies to owners and

FOR OFFICIAL USE ONLY





of facilities which thermally treat hazardous waste in devices and incinerators. In the executive summary to enclosure "RCRA Part B Writers' Guidance Manual for DOD Open Burning/Open Detonation Units", it is stated that 40 C.F.R. 265 Subpart F regulates existing OP/OD units as hazardous waste thermal treatment units. This is the same position taken by North Carolina officials during the conference held on 4 September 1987.

(2) The Real Property Facilities Manual, reference (d) states in paragraph 4502.2a that "wastes are not burned in open fires (except in limited situations such as the burning of munitions, as determined by health and safety considerations, and with the approval of appropriate State agency and EPA regional office...)" (Emphasis added.) State officials represented in the conference that a permit will be required for all OP/OD operations which are neither emergencies nor bona fide training missions. Without further written clarification on this topic from the State, it would be prudent to interpret the inspection discrepancy and the oral stance of the State to mean that future non-emergency OP/OD operations to demilitarize munitions greater than .50 caliber is a regulated activity for which a permit is required. Additionally, in terms of reference (d), it is certain that the State has not approved all the OP/OD operations conducted aboard the Base.

b. Permit Requirements for the Off-Base Disposal of Explosive Items Recovered by EOD Personnel. If the explosive item to be disposed off-base is a hazardous waste, a strict reading of the EPA regulations (40 C.F.R. Part 264 or 265) would require EOD to obtain an EPA number as an operator who disposes of hazardous waste. Inasmuch as Parts 264 and 265 (for interim status facilities) apply to owners of facilities which dispose of hazardous waste, it would appear more practical for EOD to require as a necessary condition for providing support that the requestors obtain emergency permits. Illustrative is the permit obtained by New Hanover County from the N.C. Department of Human Resources when they requested our assistance in disposing of 100 pounds of ether in June, 1987. (See reference (e)). The emergency permit provisions found at 40 C.F.R. 270.61 (N.C. Regulations, 10 NCAC 10 F .0034(f)2) allow for oral or written temporary permits for hazardous waste disposal when there is an imminent and substantial endangerment to human health or the environment. I do not recommend that you seek permits from the EPA or the State for off-base disposal activities, but require that the requestors obtain all necessary permits before disposing of hazardous waste.

c. Permit Requirements for the Transport of Explosive Items Off-Base. If the particular explosive item to be disposed is a hazardous waste, 40 C.F.R. 263.11 requires a transporter of that waste to have an EPA identification number if the hazardous waste is to be transported off the generation site or off the site where the hazardous waste is to be disposed. I again recommend that you insist that the requestor obtain all necessary permits

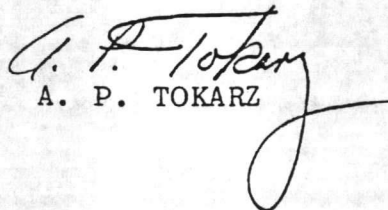
As a condition precedent to any such assistance, to include an emergency permit for the transportation of hazardous waste should transportation be required. Because of the stringent accountability provisions contained in 40 CFR 263.20, and EOD's lack of familiarity with the manifest system applicable to transporters of hazardous waste, I recommend that EOD not transport hazardous waste unless exigent circumstances absolutely require you to do so.

d. Periodic clearing of high explosive impact areas by countercharging the explosive items with C-4. A strict reading of 40 CFR 264 and 265 requires operators of open detonation units to obtain a permit for such treatment. In the discussion with the State officials on 4 September 1987, this particular activity was discussed. The State distinguished this particular operation from the wholesale disposal of off-specification or obsolescent munitions. The State likened the former activity to a legitimate training function which they felt would not require a permit and the latter as disposal requiring a permit. I recommend the following action, previously recommended in my memorandum to the Assistant Chief of Staff, Facilities, reference (f):

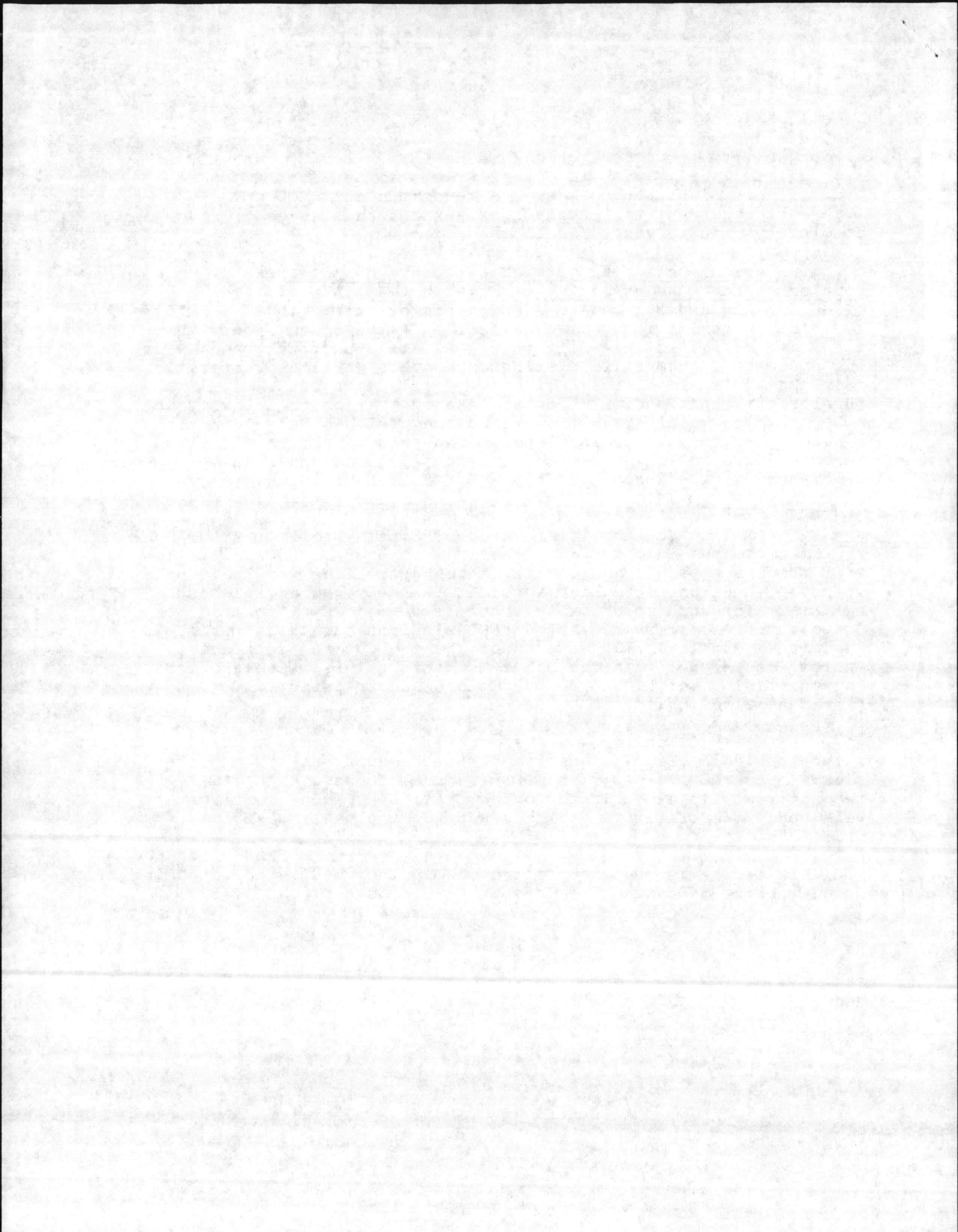
(1) That the Assistant Chief of Staff, Facilities, urge the State to put into writing exactly what on-Base EOD activities will require a permit and exactly which activities are legitimate training functions for which a permit is not required. To ask the State for such information, it will be necessary to inform State authorities of the various EOD missions and tasks performed on Camp Lejeune. It may be prudent for the Command to request another conference with the State to discuss this issue and for an Assistant Chief of Staff, Operations and Training, representative to attend.

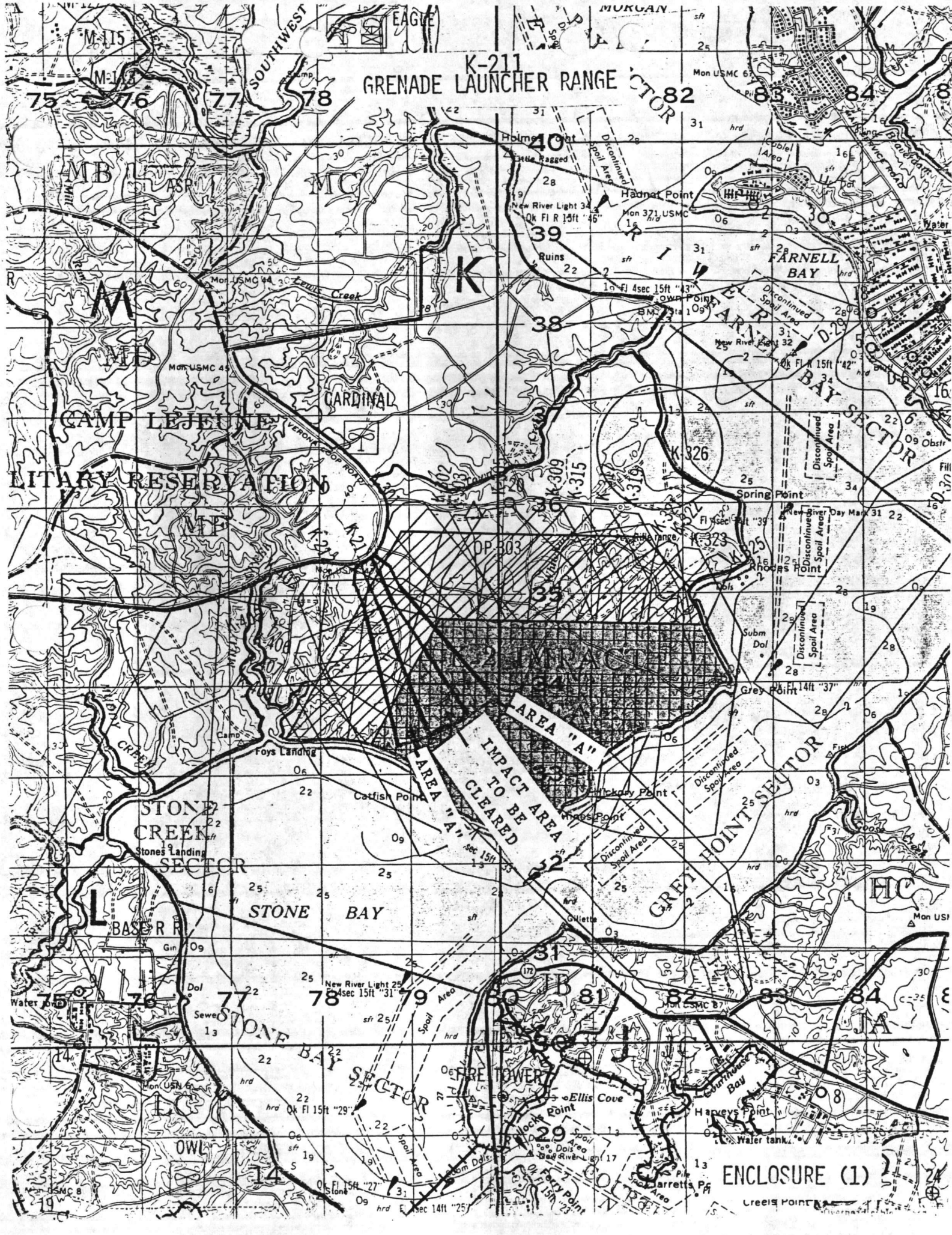
(2) Additionally, in the interim, I recommend that all future periodic clearing operations be scheduled on a training schedule as MOS training for EOD personnel to ensure that a record exists to demonstrate to the State that such clearings were bona fide training exercises and not wholesale disposal practices.

2. This Office is prepared to provide further assistance on this issue. Point of Contact is Captain C. E. Dougherty (5177/5675).


A. P. TOKARZ

Copy to:
AC/S, Trng/Ops
AC/S, Fac.



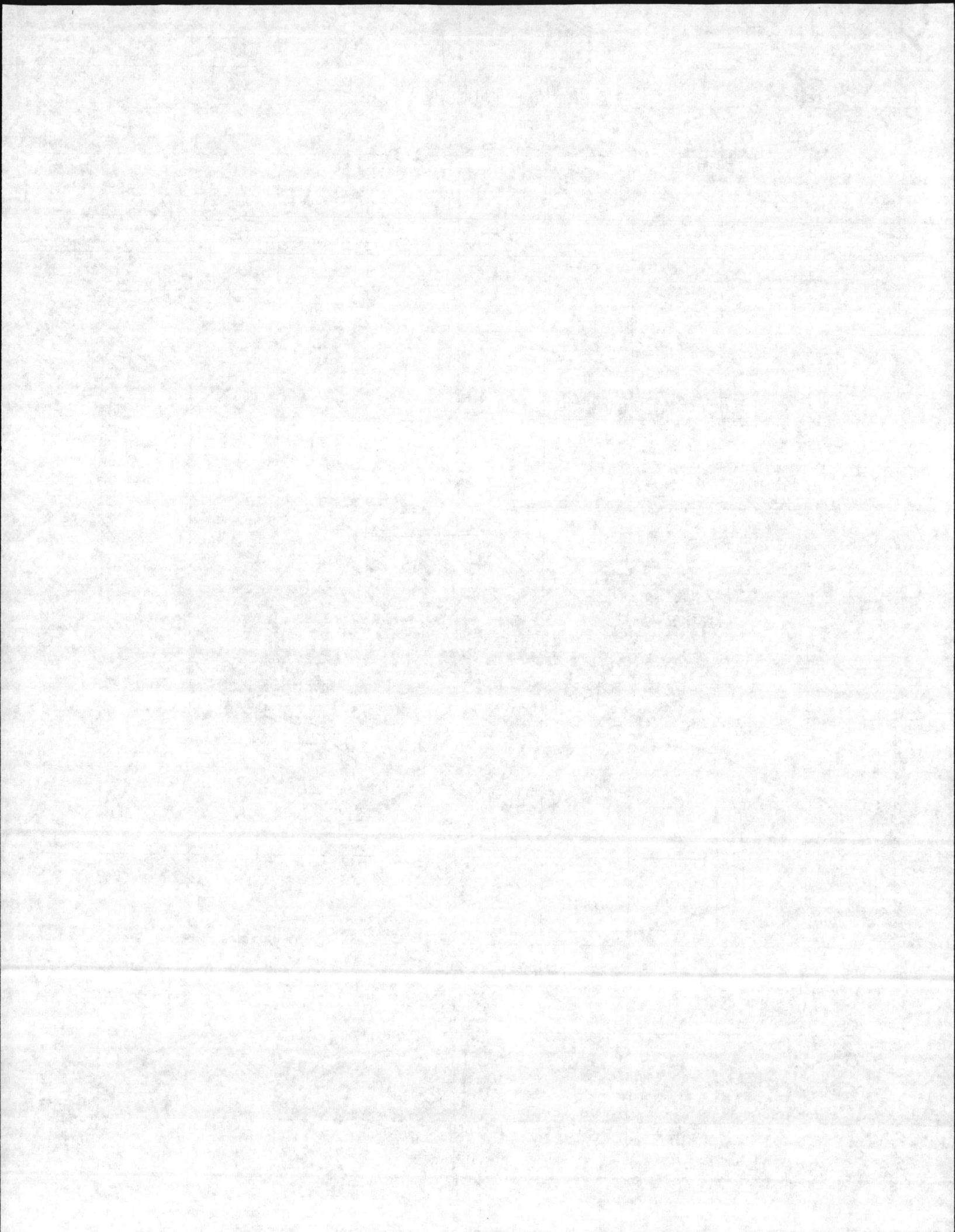


GRENAD LAUNCHER RANGE SECTOR

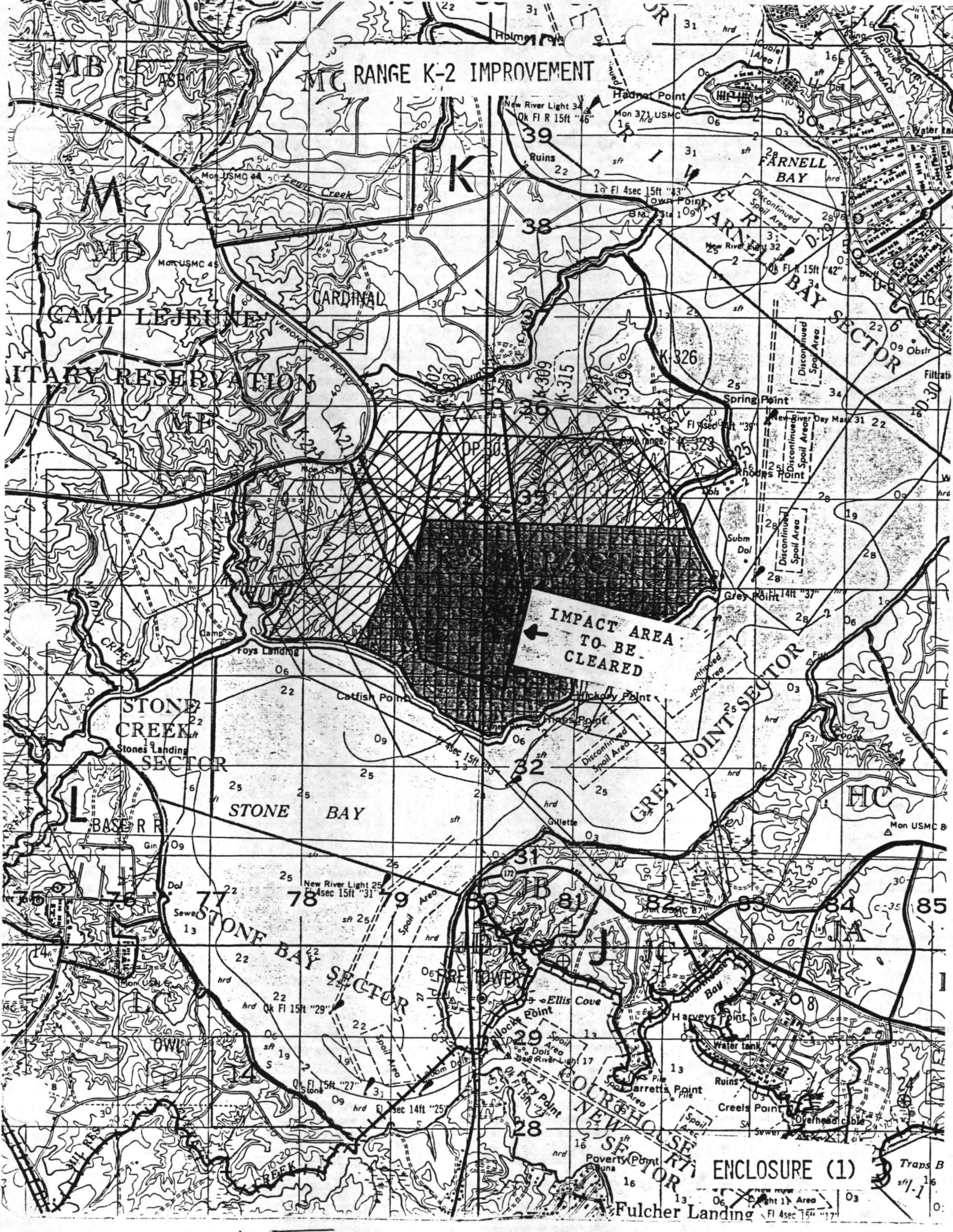
AREA "A"
IMPACT AREA
TO BE CLEARED

ENCLOSURE (1)

CREEK POINT



MC RANGE K-2 IMPROVEMENT

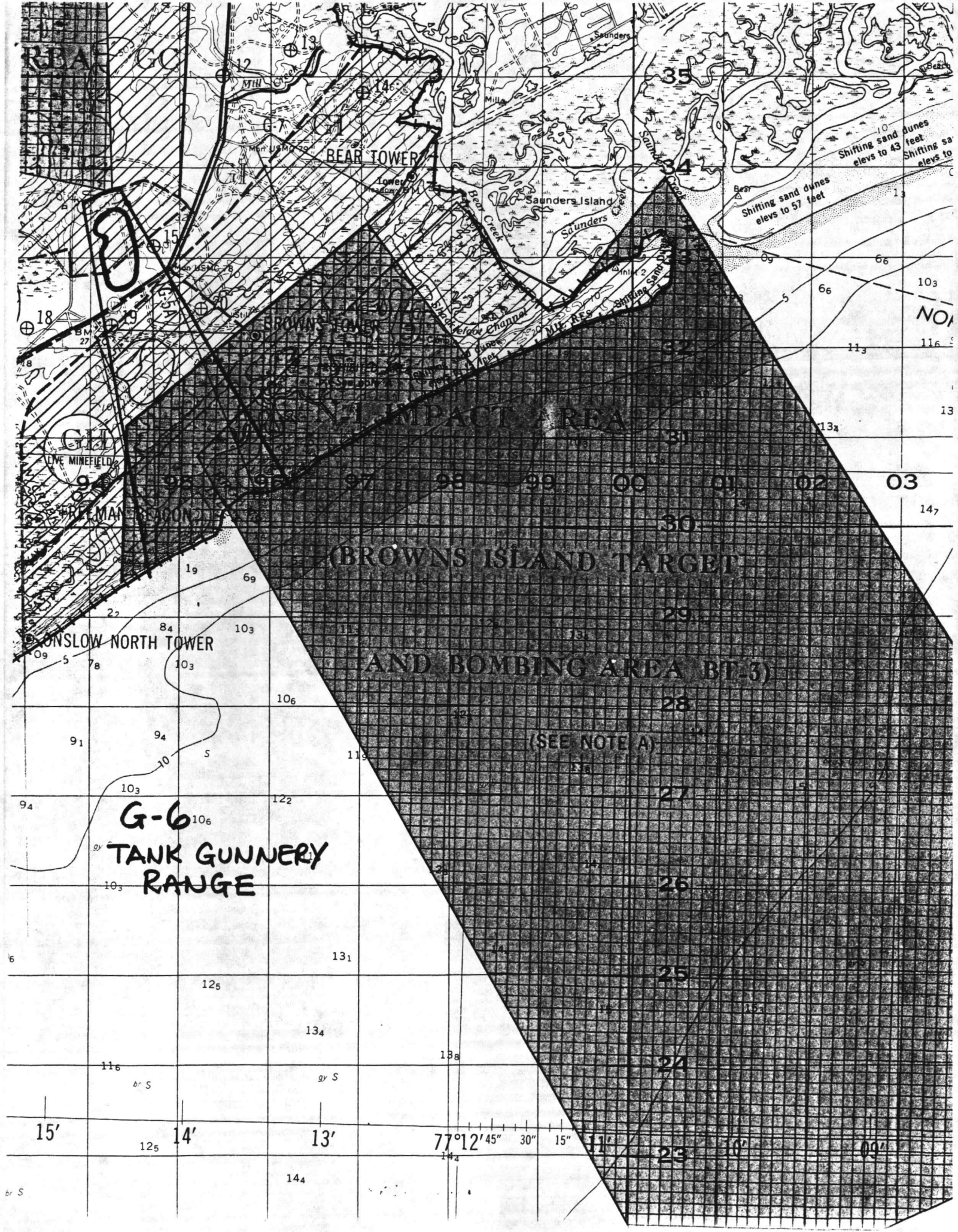


IMPACT AREA
TO BE
CLEARED

ENCLOSURE (1)

Fulcher Landing

Traps B
sfi-1



BEAR TOWER

IMPACT AREA
(BROWNS ISLAND TARGET

AND BOMBING AREA BT-3)

(SEE NOTE A)

G-6
TANK GUNNERY
RANGE

15' 14' 13' 77°12'45" 30" 15" 11' 23' 09'

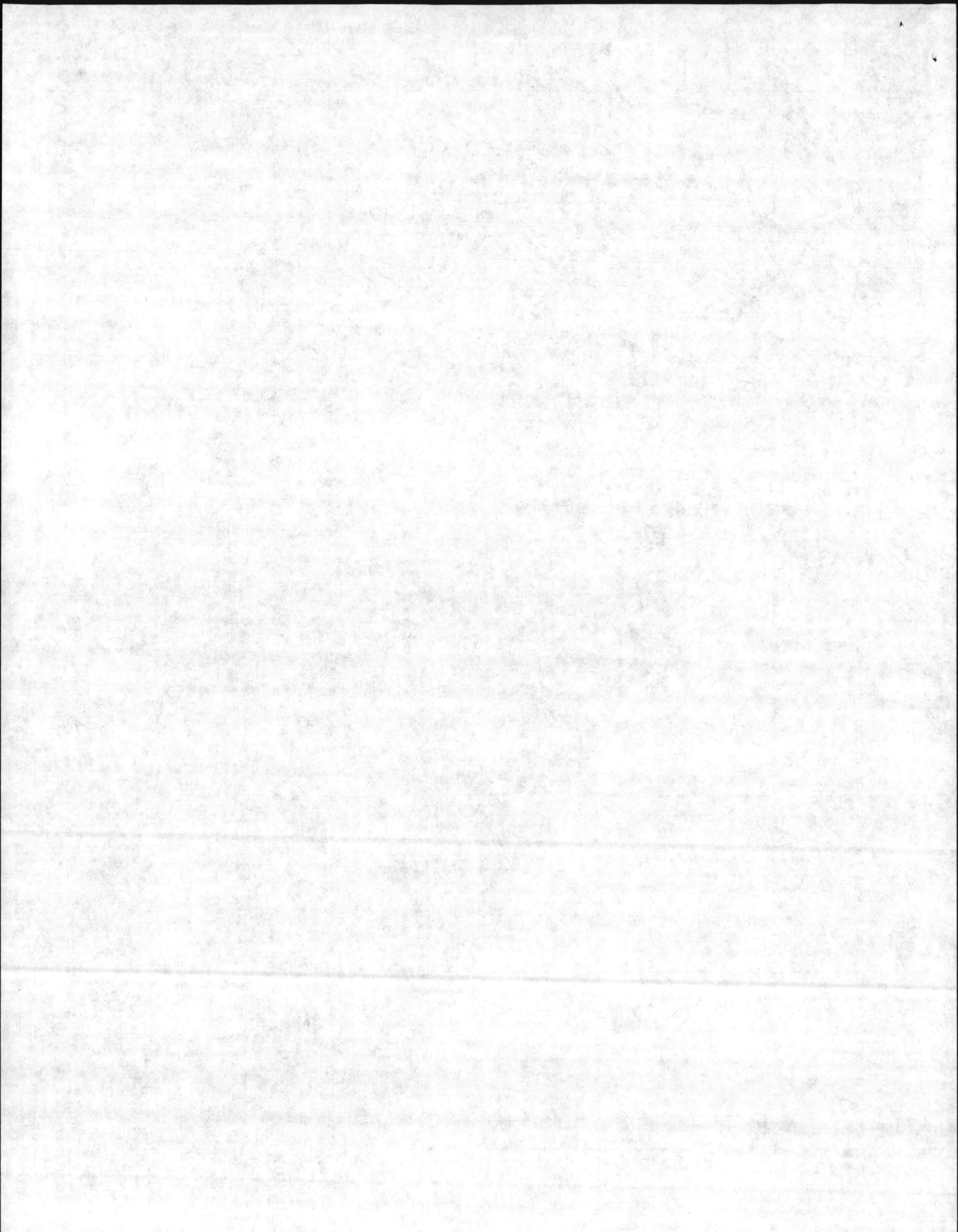
Shifting sand dunes
elevs to 43 feet

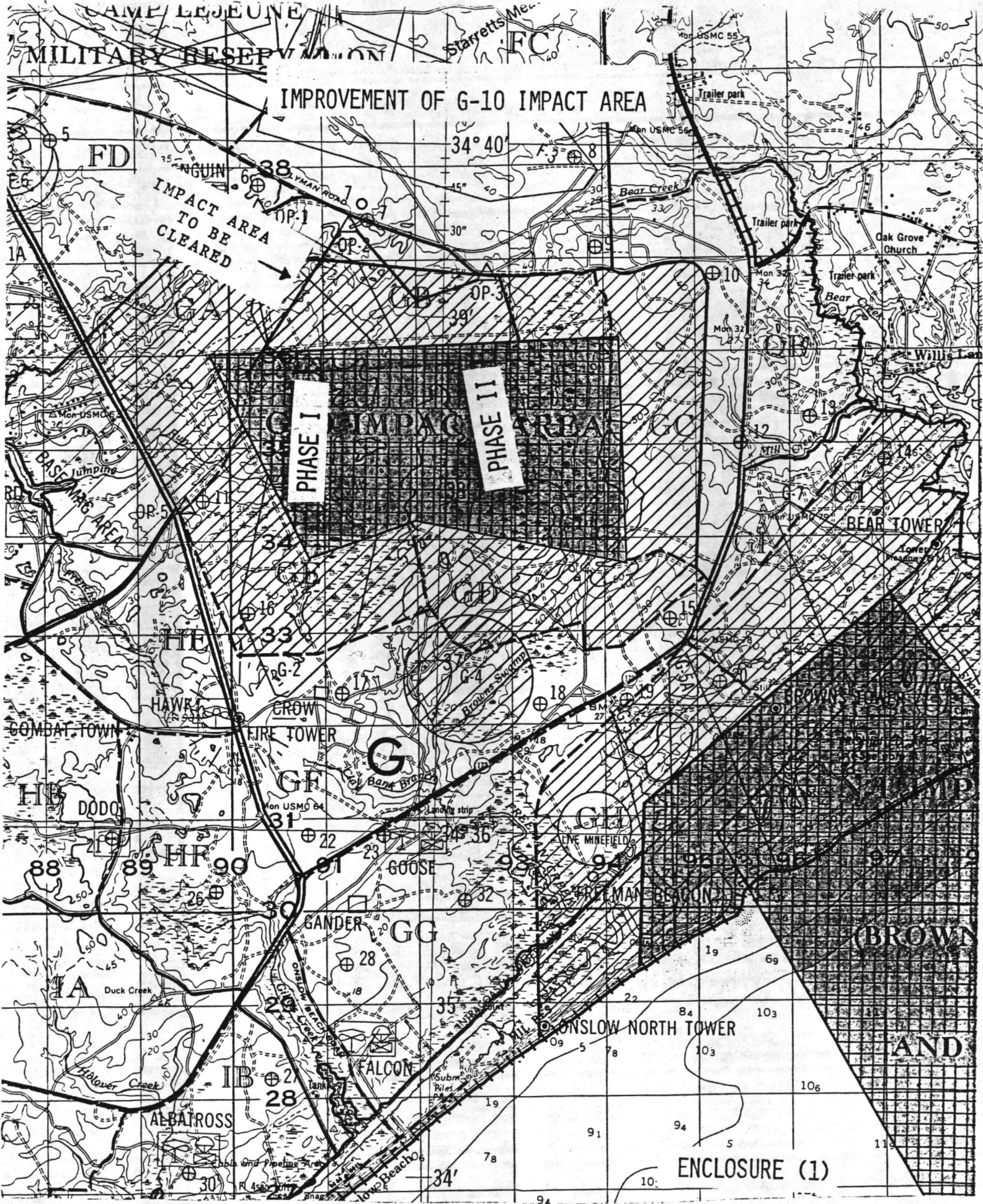
Shifting sand dunes
elevs to 57 feet

NO

147

br S





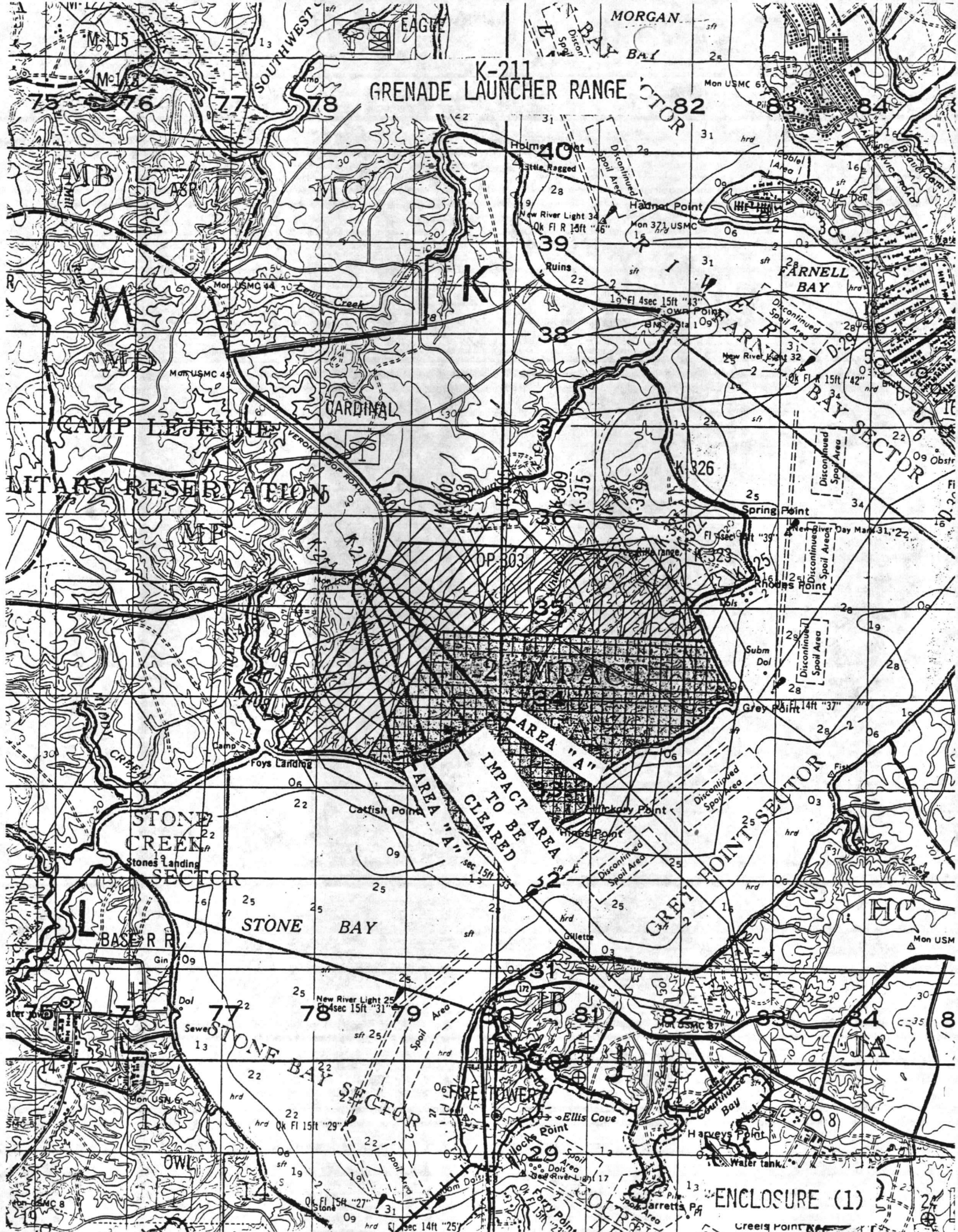
IMPROVEMENT OF G-10 IMPACT AREA

IMPACT AREA TO BE CLEARED

PHASE I

PHASE II

ENCLOSURE (1)



K-211
GRENAD LAUNCHER RANGE

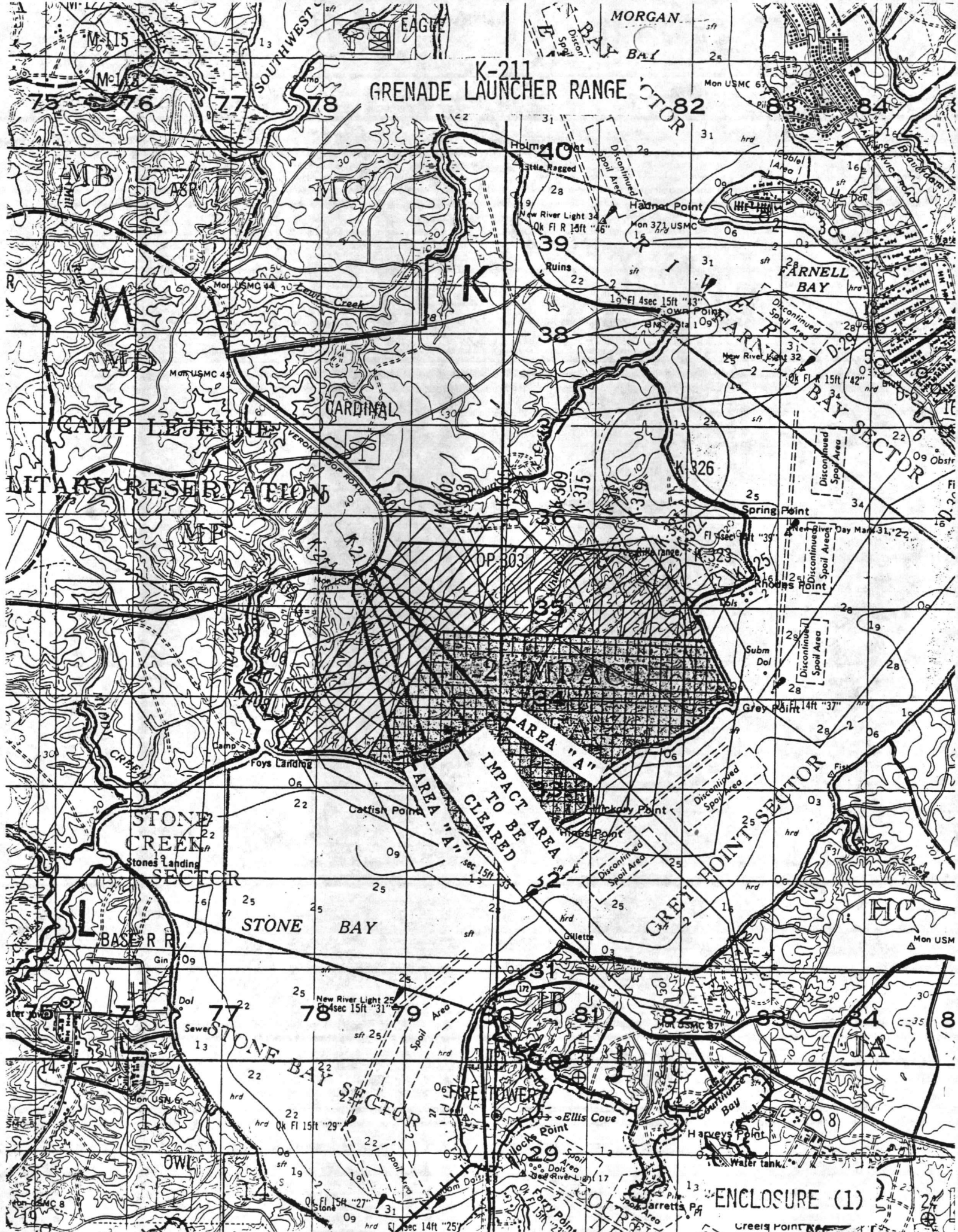
CAMP LEJEUNE
MILITARY RESERVATION

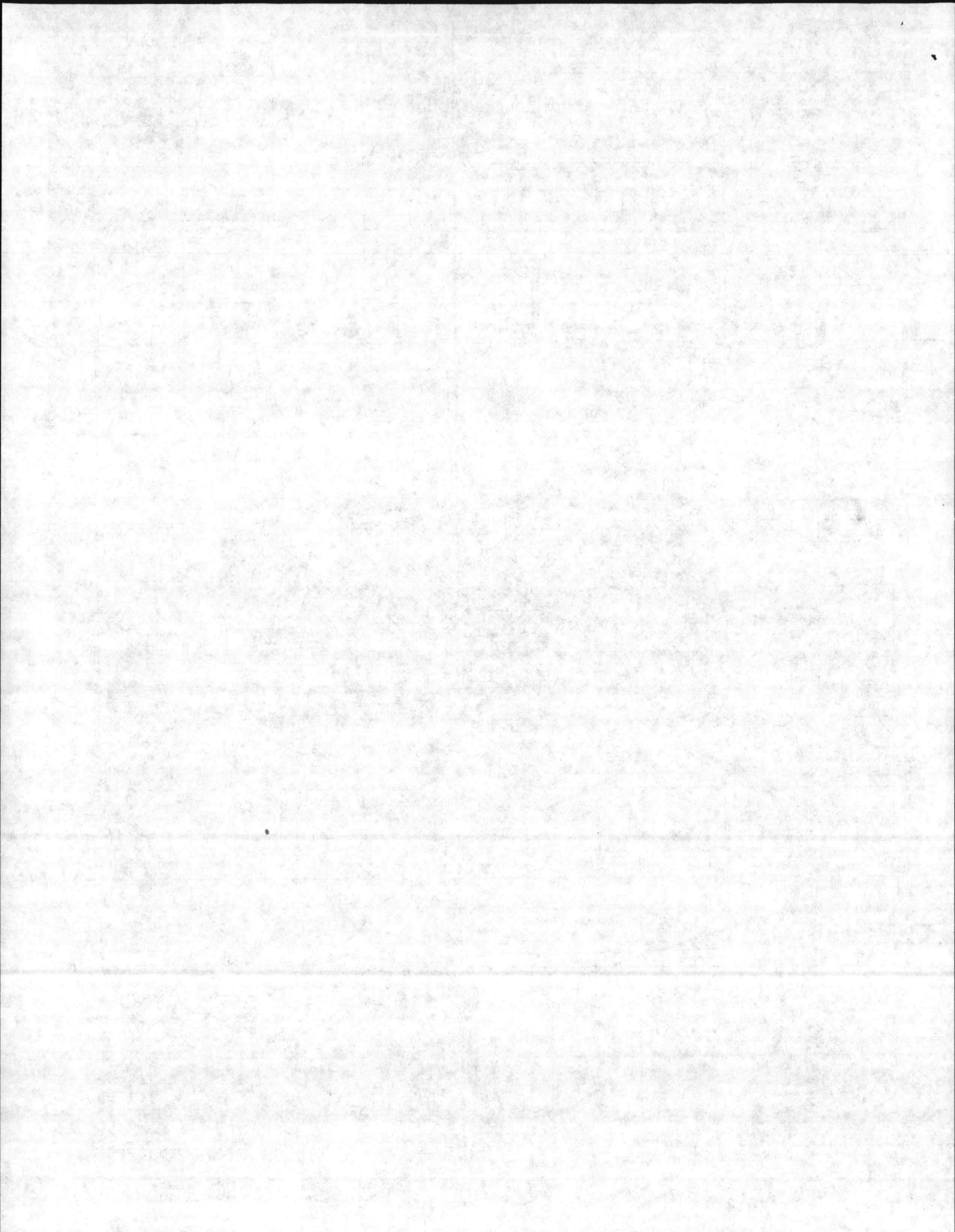
AREA "A"
IMPACT AREA
TO BE CLEARED

STONE CREEK
SECTOR

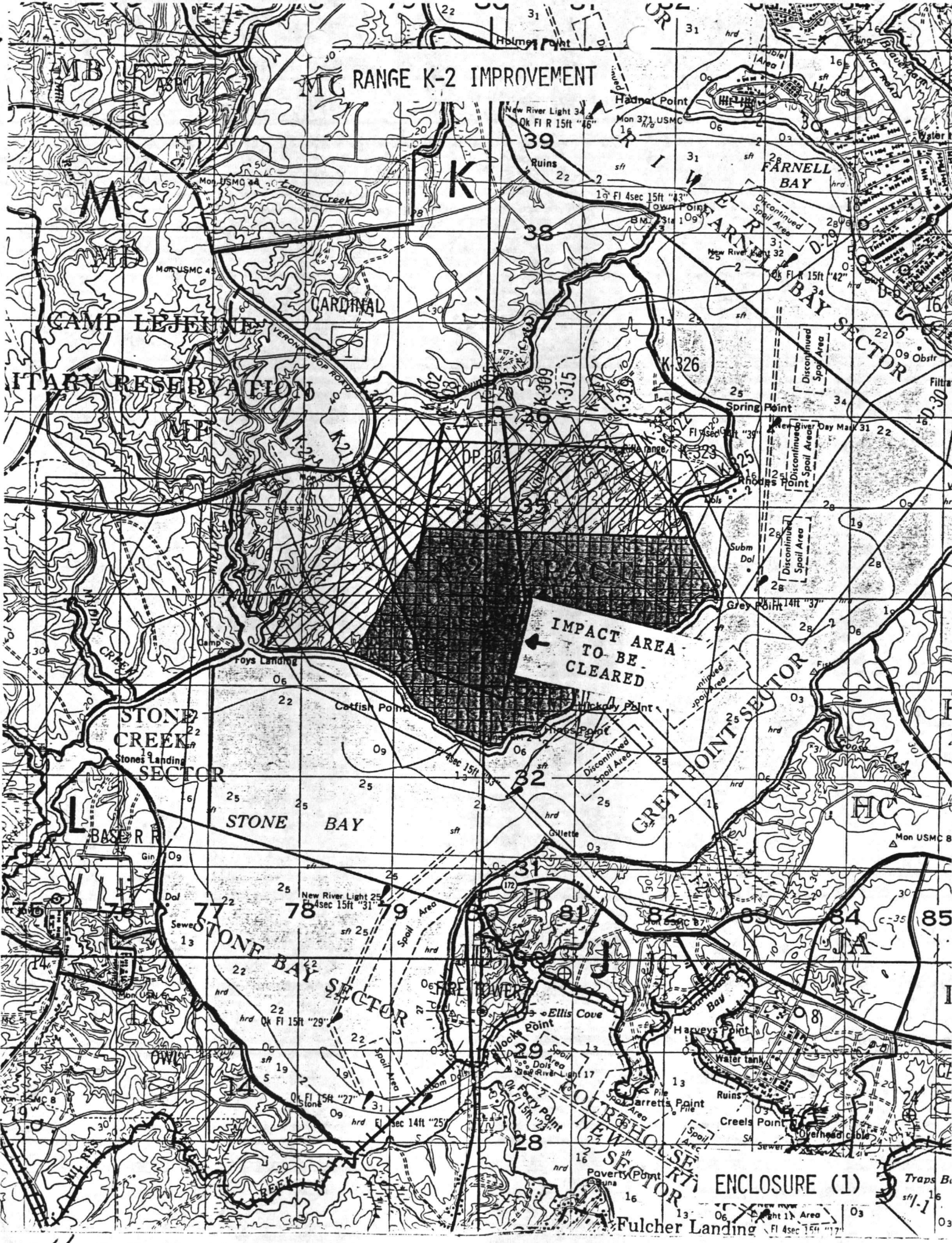
GREY POINT SECTOR

ENCLOSURE (1)



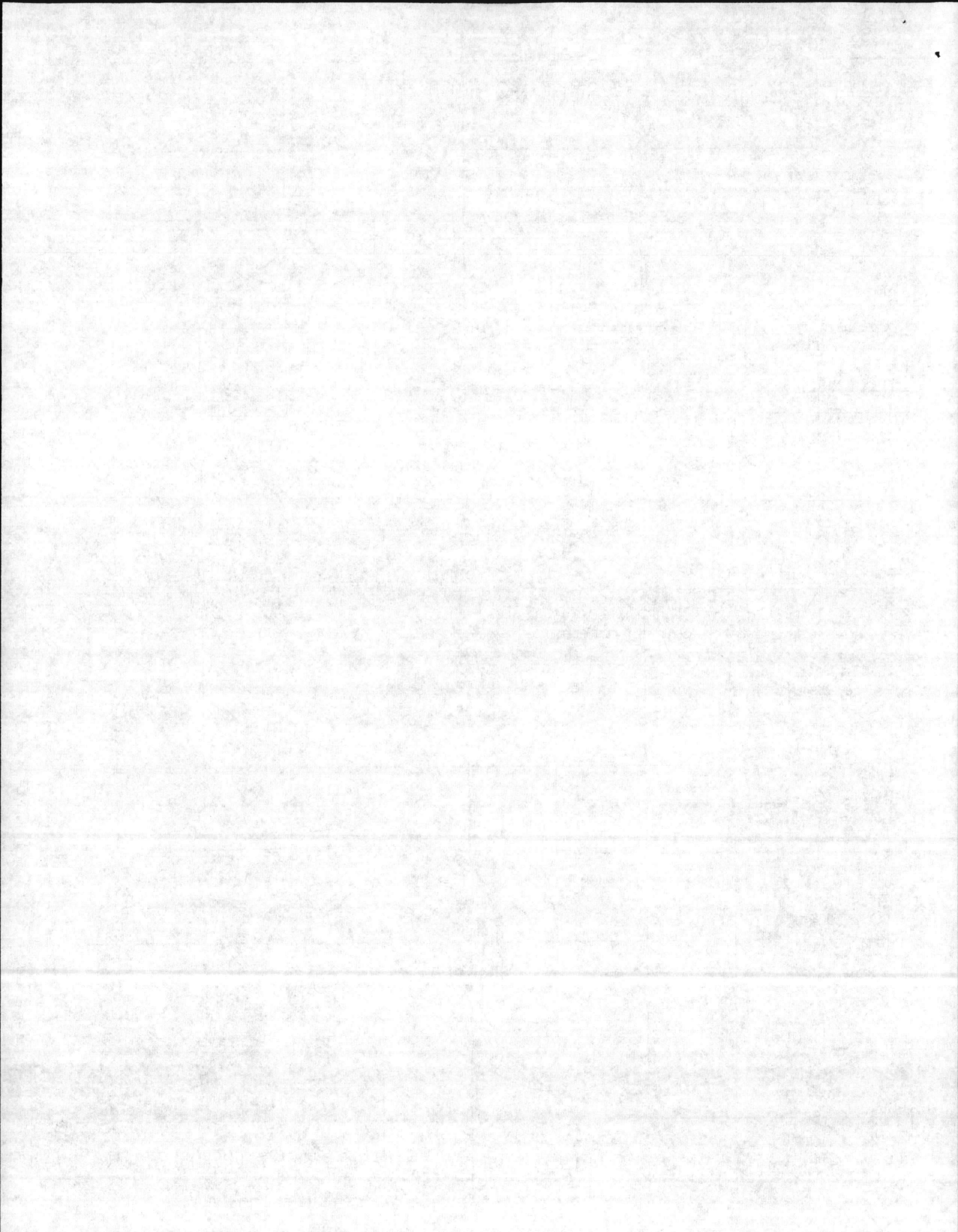


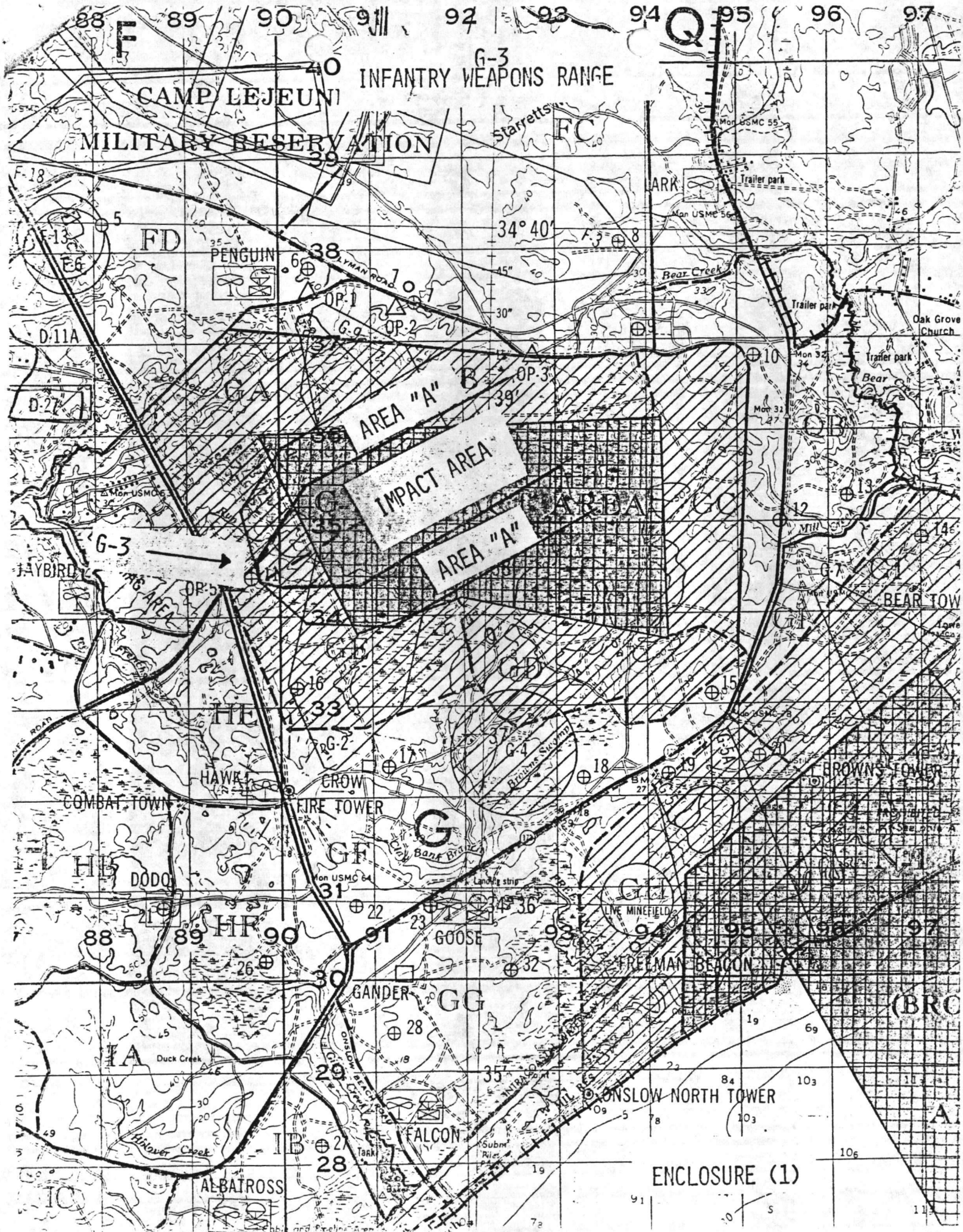
RANGE K-2 IMPROVEMENT



IMPACT AREA TO BE CLEARED

ENCLOSURE (1)



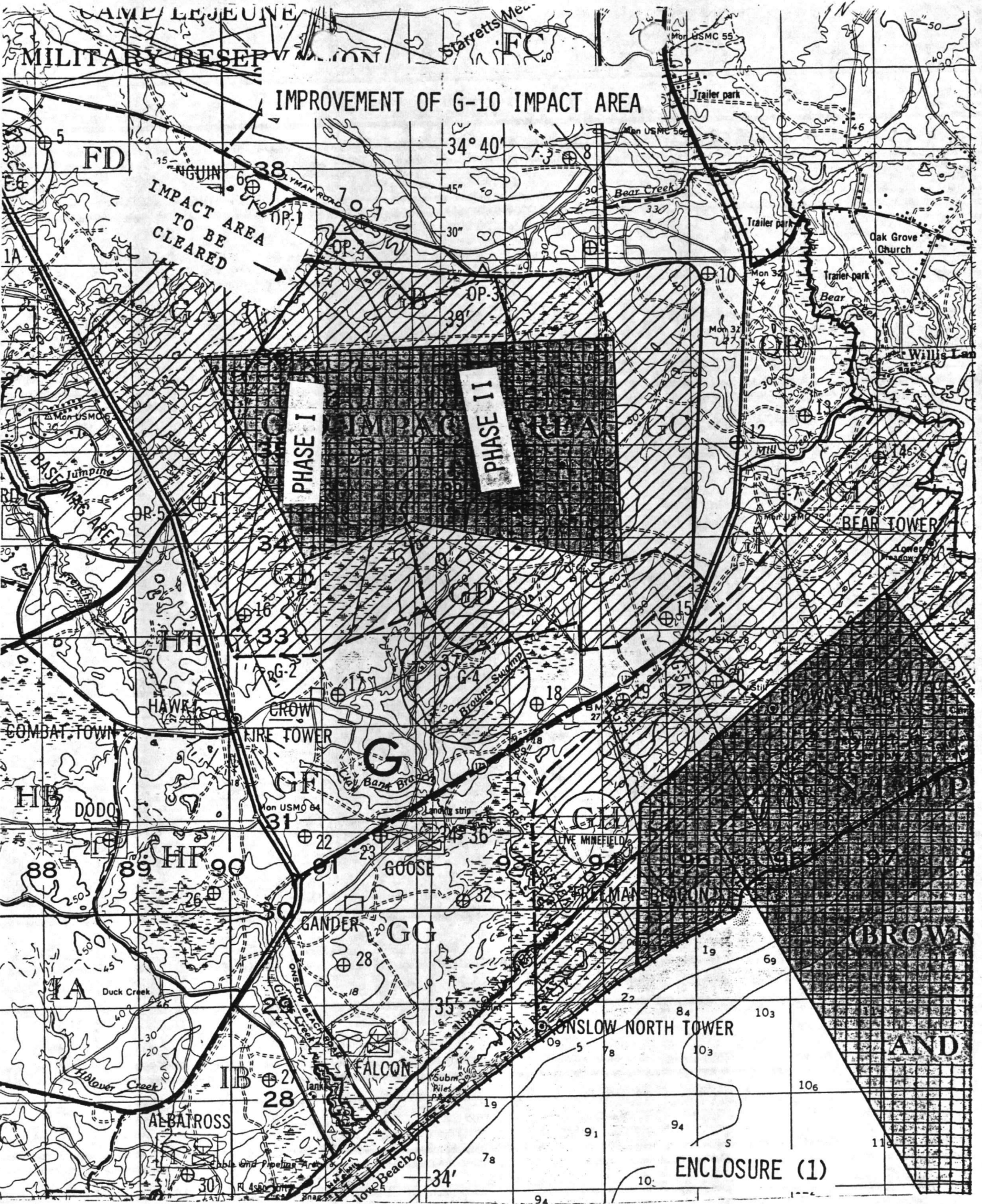


ENCLOSURE (1)

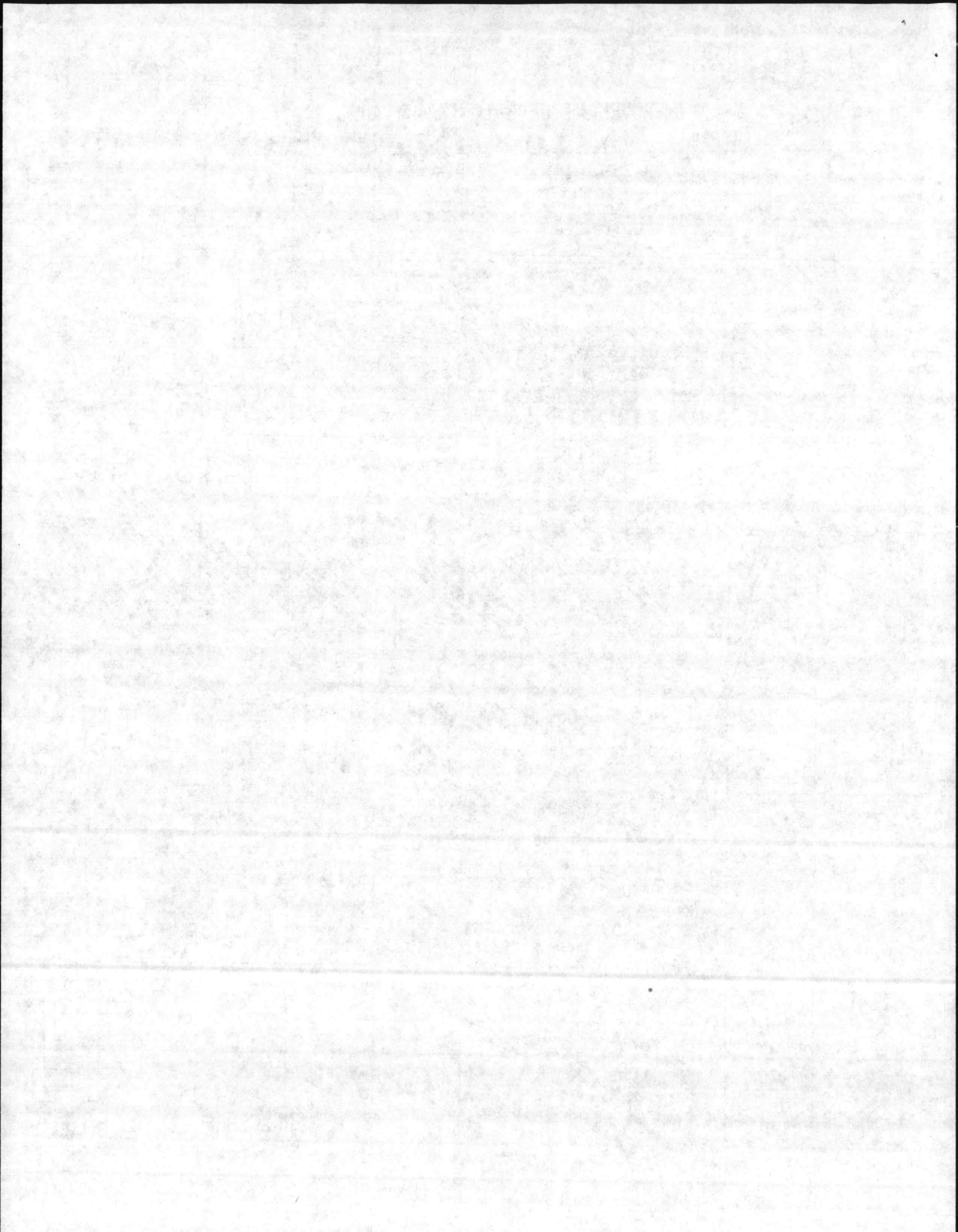
CAMP LEJEUNE
MILITARY RESERVE

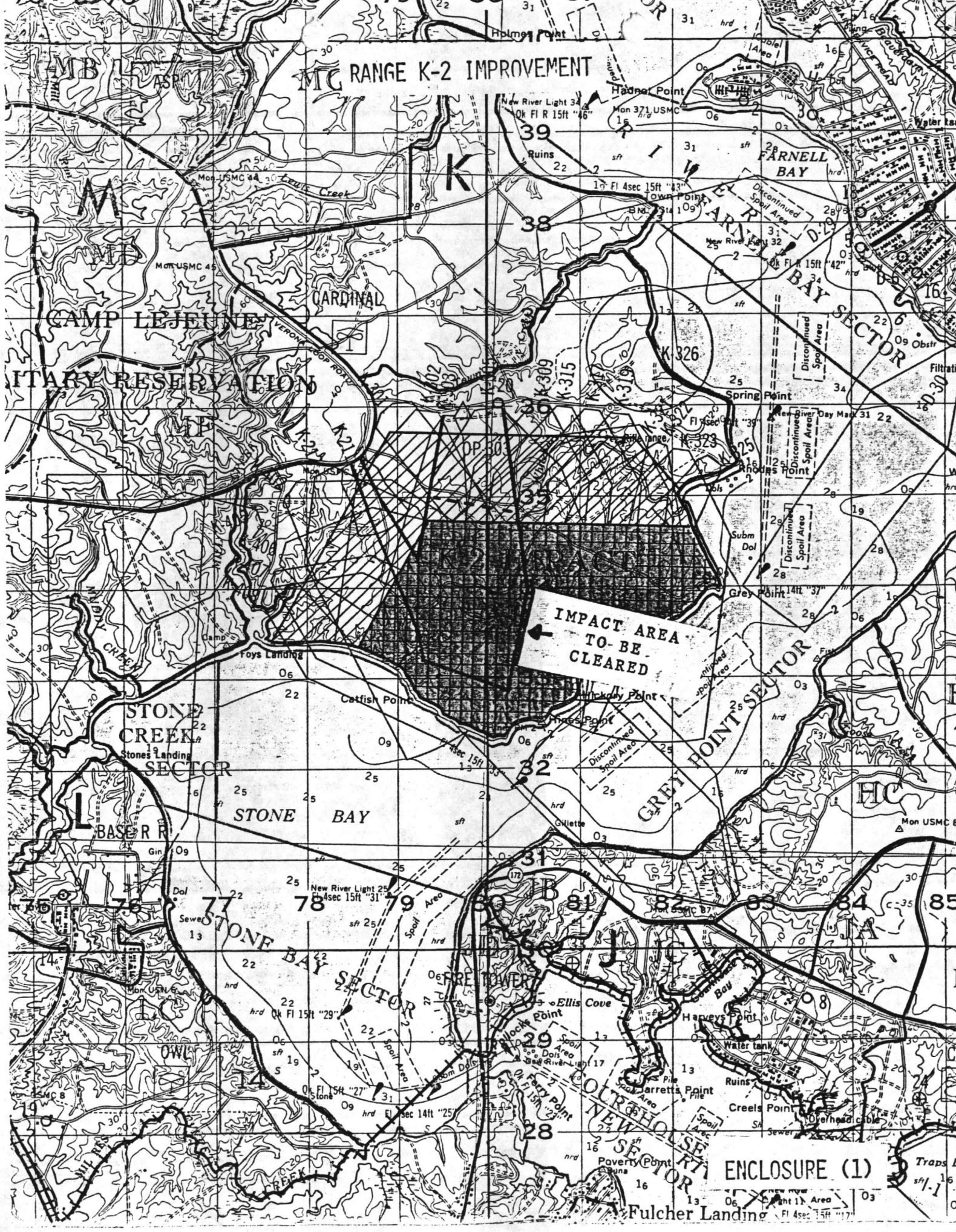
Starretts Me...

IMPROVEMENT OF G-10 IMPACT AREA



ENCLOSURE (1)





MC RANGE K-2 IMPROVEMENT

IMPACT AREA TO BE CLEARED

ENCLOSURE (1)



UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

EOD MAR H
IN REPLY REFER TO
11102
TRNG/OPS
1 NOV 1984

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commanding General, 2d Marine Division, FMFLant, Camp
Lejeune, North Carolina 28542

Subj: EXPANSION OF G-10 IMPACT AREA AND RELOCATION OF ENGINEER
DEMOLITION RANGE G-4

Ref: (a) CO, 10th Mar ltr 51/WAH/dmo over 5100 dtd 5 Apr 84
(b) TRADOC Safety Inspection Report dtd 10 Jan 84
(c) AC/S, FAC Staff Study of G-10 Expansion dtd 11 Jul 84

Encl: (1) Map Showing Proposed G-10 Enlargement

1. Reference (a) requested that the G-10 Impact Area be enlarged citing safety and increasing the target area for artillery as rationale. As noted in reference (b), the majority of current gun positions fire into the short axis of the G-10 impact area, a potentially hazardous situation. By enlarging G-10 as shown in the enclosure, the likelihood of overshooting will be significantly reduced and training enhanced.

2. Reference (c) also recommended that the expansion of G-10 be accomplished in the interest of safety and for the enhancement of artillery training. Although this study went on to suggest possible relocation sites for G-4 and G-4A, user input was not formally requested. In view of this, the critical importance of effective land utilization, and the heavy use of this demolition range and training area, additional comments are requested concerning the expansion of G-10 and the relocation of G-4/G-4A and the associated training facilities.

3. If the need to expand the G-10 impact area is reconfirmed, your recommendations with respect to the G-4/G-4A complex are desired:


a. Proposed relocation sites, prioritized with supporting rationale.

b. Recommended timing of the relocation of G-4/G-4A and closure of G-10 to accomplish the necessary clearing, marking, and target placement.

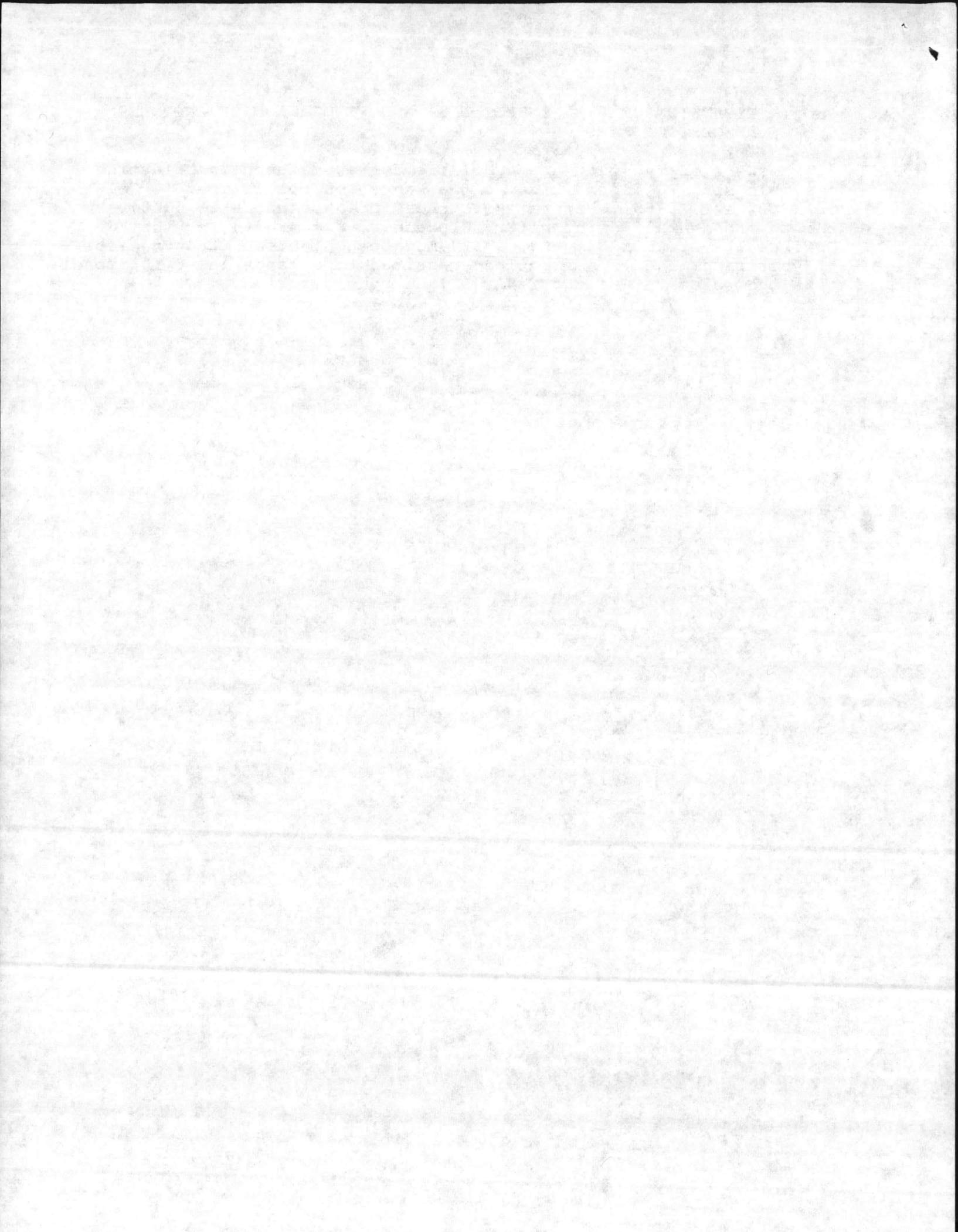
c. An estimate of the assistance/resources required from this command to facilitate relocation of G-4/G-4A.

Subj: EXPANSION OF G-10 IMPACT AREA AND RELOCATION OF ENGINEER
DEMOLITION RANGE G-4

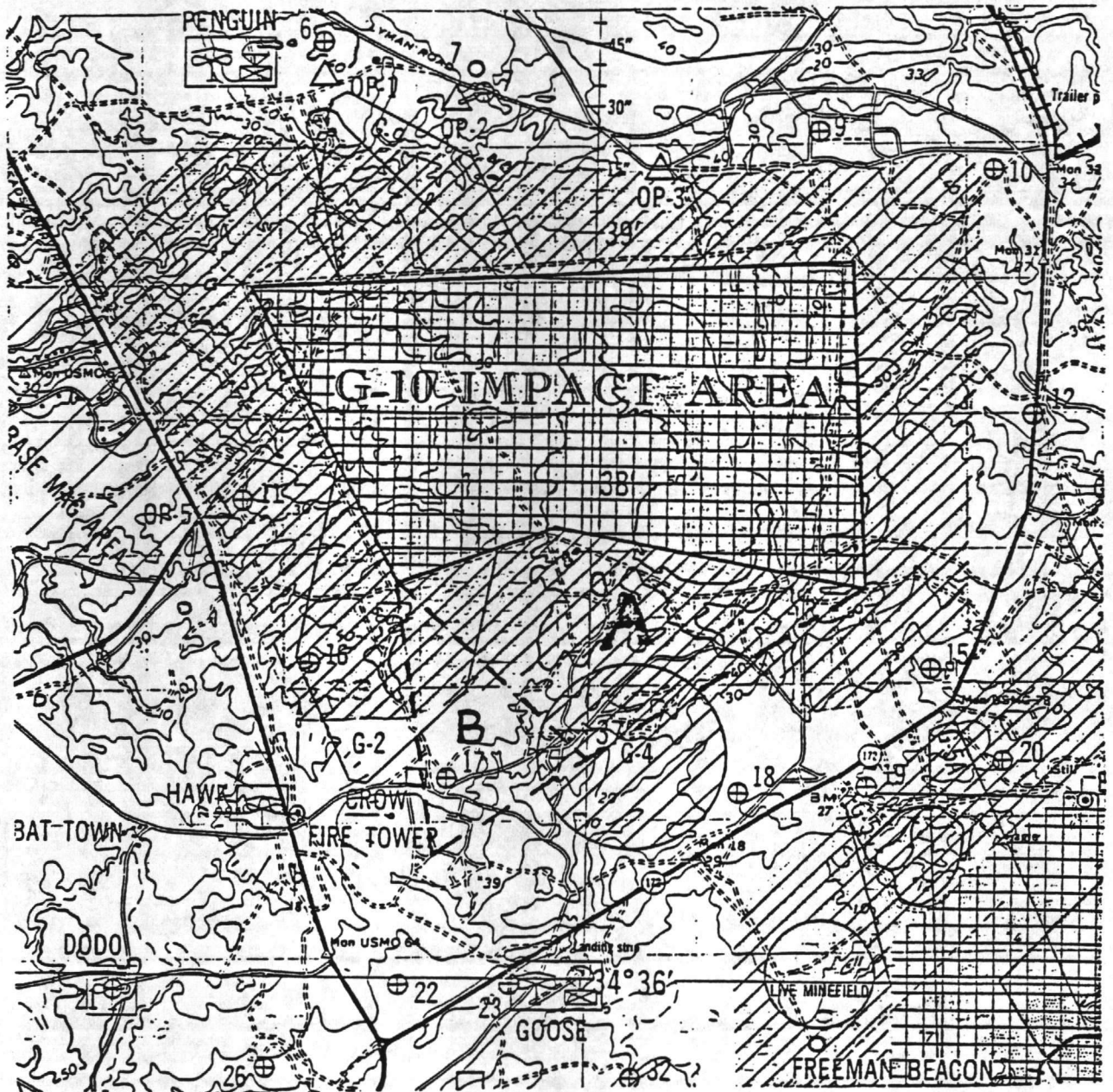
4. Members of my staff are available for assistance in selecting possible sites. In addition to the Range Control Officer (LtCol CIZERLE, ext. 3065), Natural Resources (Mr. Wooten, ext. 5003), the Environmental Engineer (Mr. Alexander, ext. 3034), or the EOD Officer (1stLt REDMOND, ext. 0558) may be contacted. Upon receipt of your recommendations, actions required to enlarge the G-10 impact area and relocate G-4 and G-4A will be considered.


R. L. FORMANEK
Chief of Staff

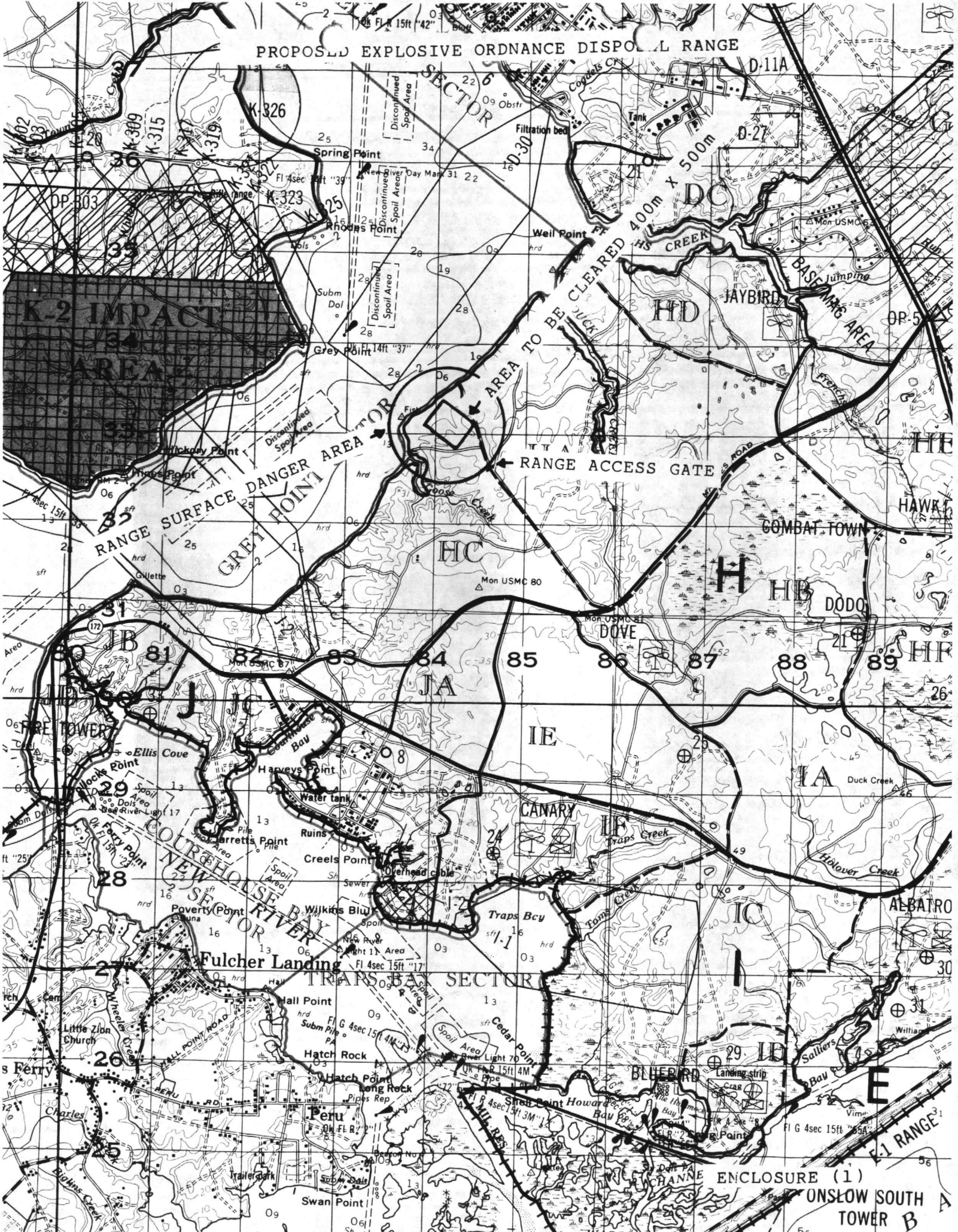
Copy to:
CG, 2dFSSG



The dashed lines indicate the additional areas desired to be included in the G-10 Impact Area. Both areas A and B are preferred; however, the minimum acceptable expansion would be area A alone.



PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



RANGE SURFACE DANGER AREA
GREY POINT AREA

SECTOR

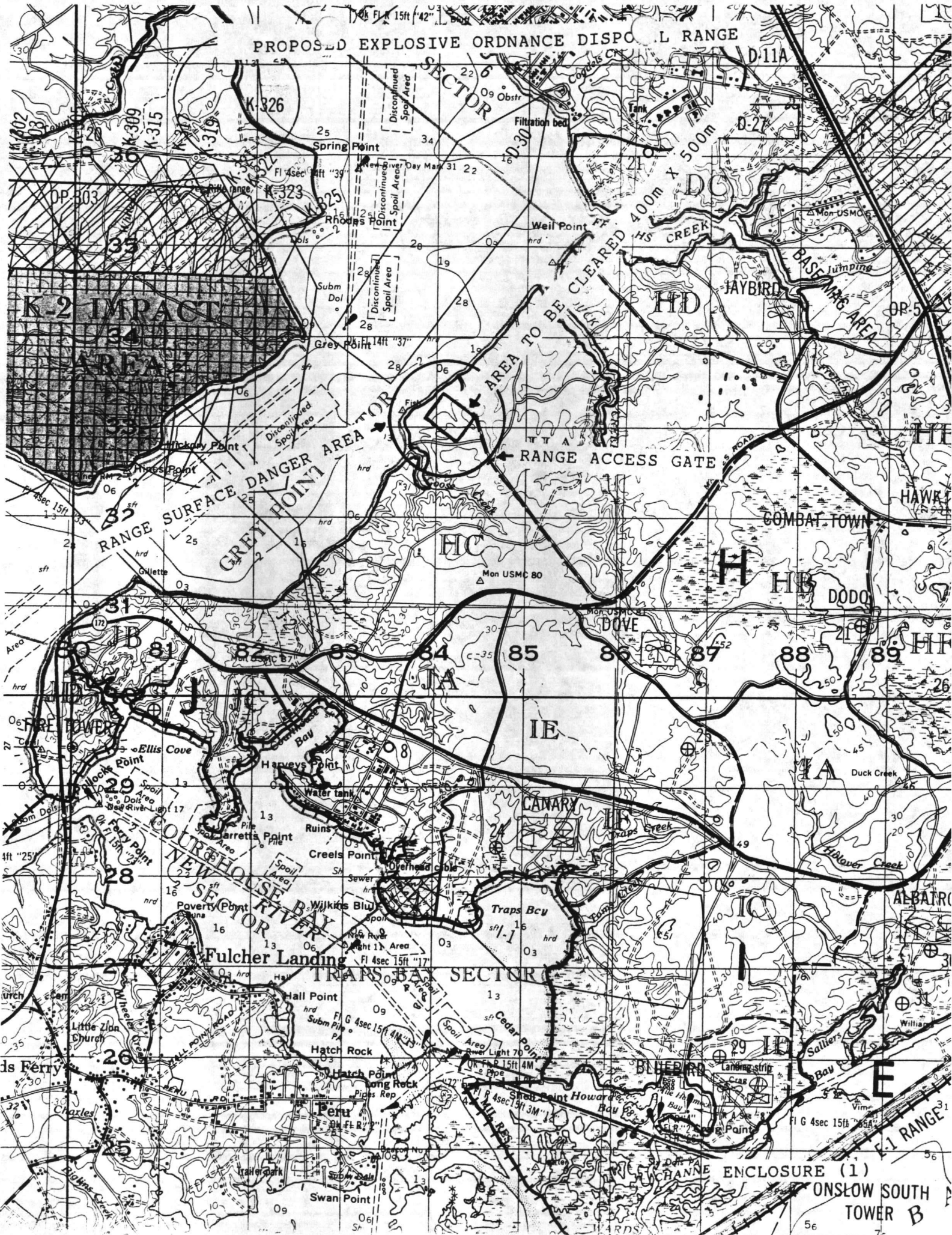
AREA TO BE CLEARED 400m X 500m
RANGE ACCESS GATE

COURT HOUSE BAY
NEW HOUSE RIVER

SECTOR

ENCLOSURE (1)
ON SLOW SOUTH A
TOWER B

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



K-2 IMPACT AREA

RANGE SURFACE DANGER AREA TOR
GREY POINT DANGER AREA TOR

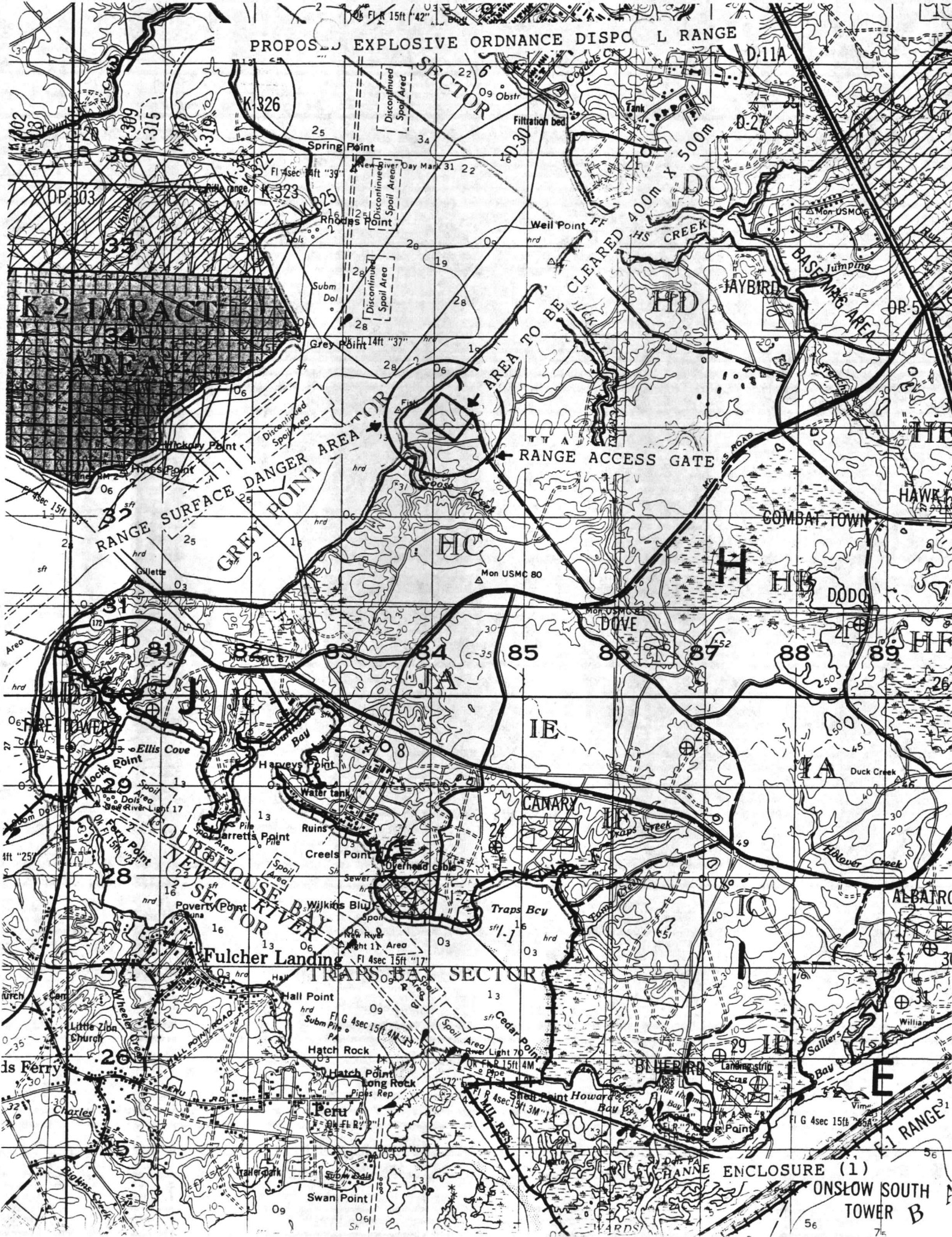
AREA TO BE CLEARED 400m x 500m

COURT HOUSE BAY SECTOR

TRAPS BAY SECTOR

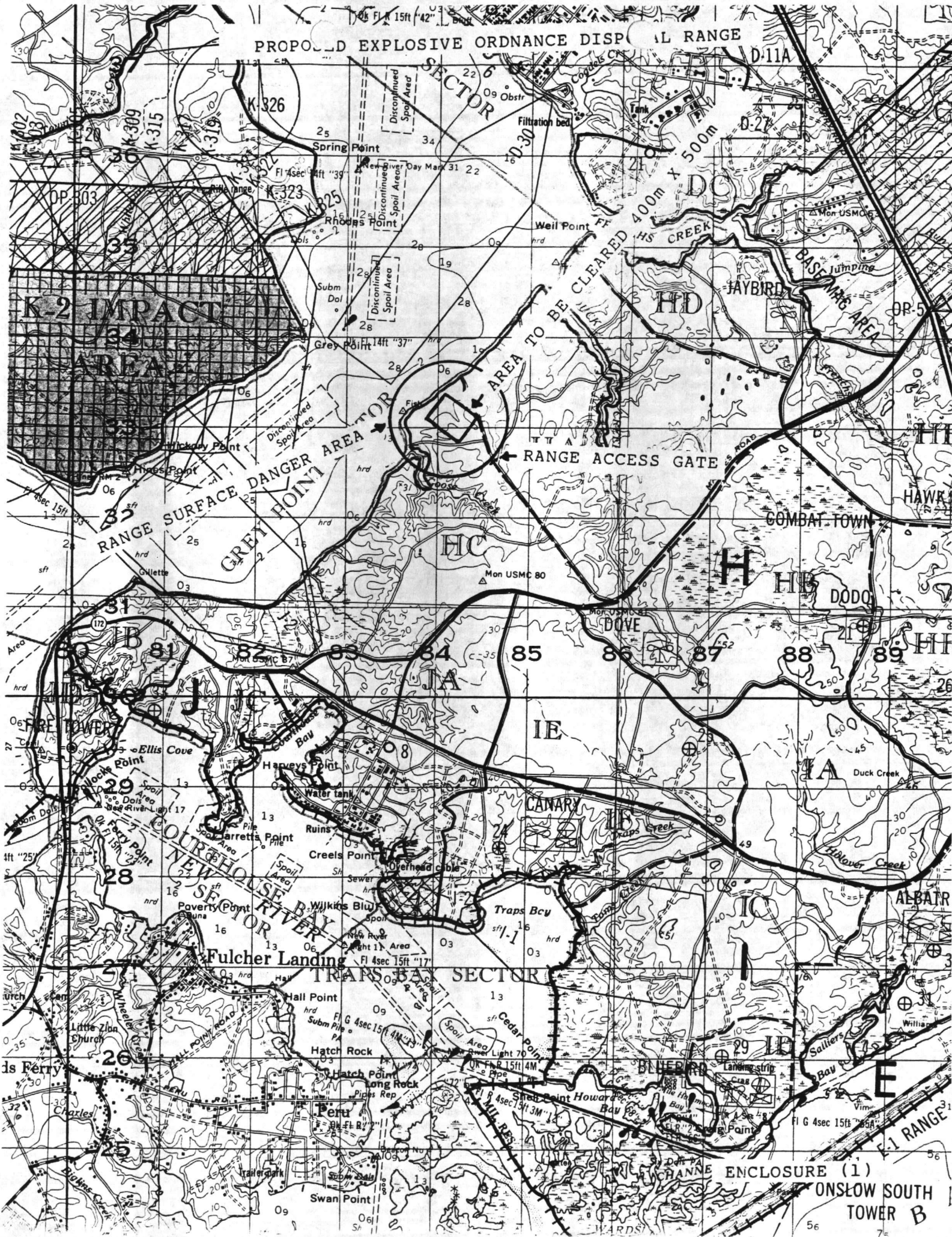
ENCLASURE (1)
ONSLow SOUTH
TOWER B

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



ENCLOSURE (1)
ONSLOW SOUTH
TOWER B

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



K-2 IMPACT AREA

GREEN POINT AREA

COURTNEY BAY

TRANS BAY

**ENCLOSURE (1)
ON SLOW SOUTH
TOWER B**

AREA TO BE CLEARED 400m x 500m

RANGE ACCESS GATE

RANGE SURFACE DANGER AREA

FIRE TOWER

NEW HOUSE

Fulcher Landing

CANARY

BLINDERS

Little Zion Church

Swan Point

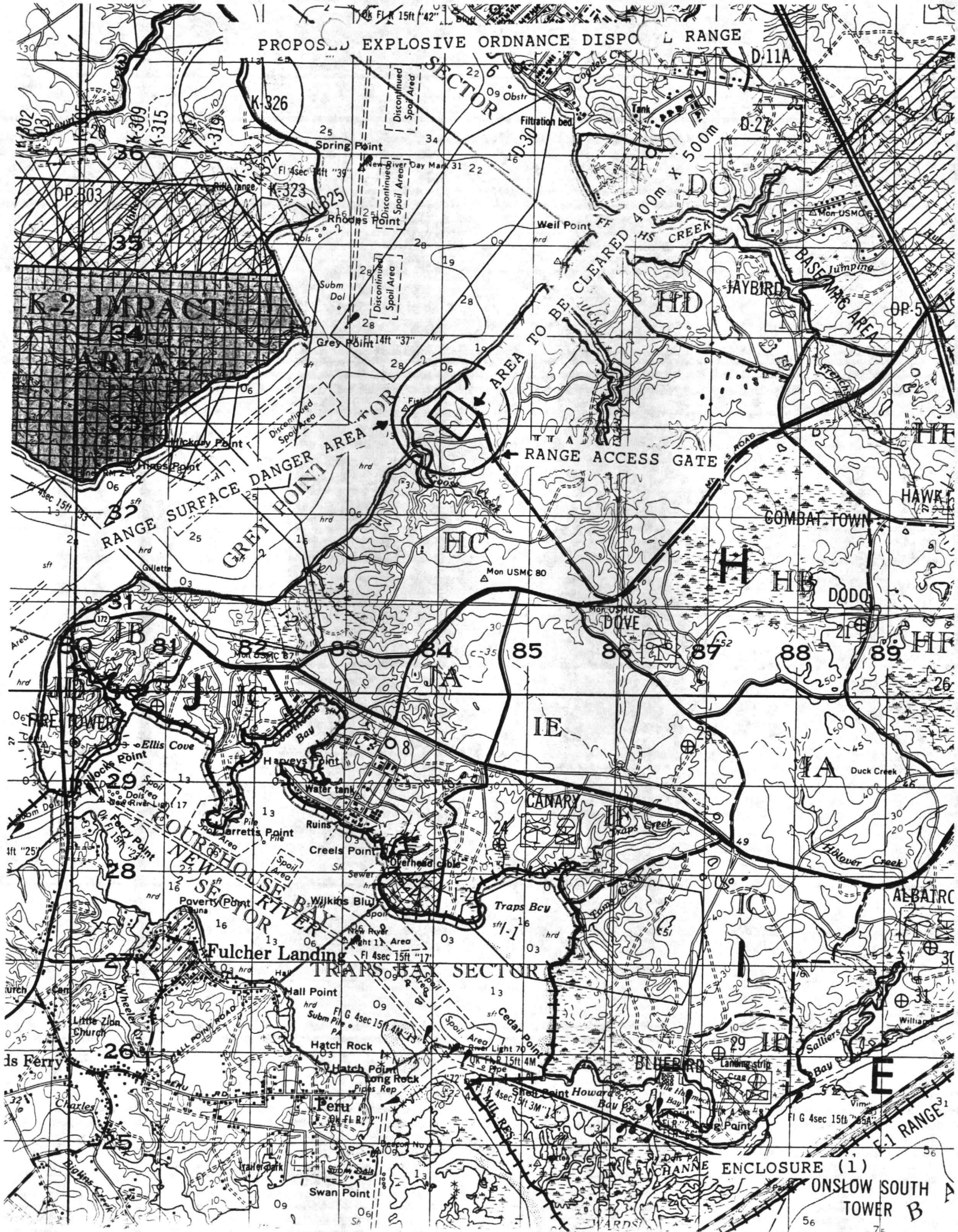
Peru

Sheep Point Howard

Salliers Bay

**ENCLOSURE (1)
ON SLOW SOUTH
TOWER B**

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



K-2 IMPACT AREA

GREY POINT DANGER AREA

AREA TO BE CLEARED 400m x 500m

RANGE ACCESS GATE

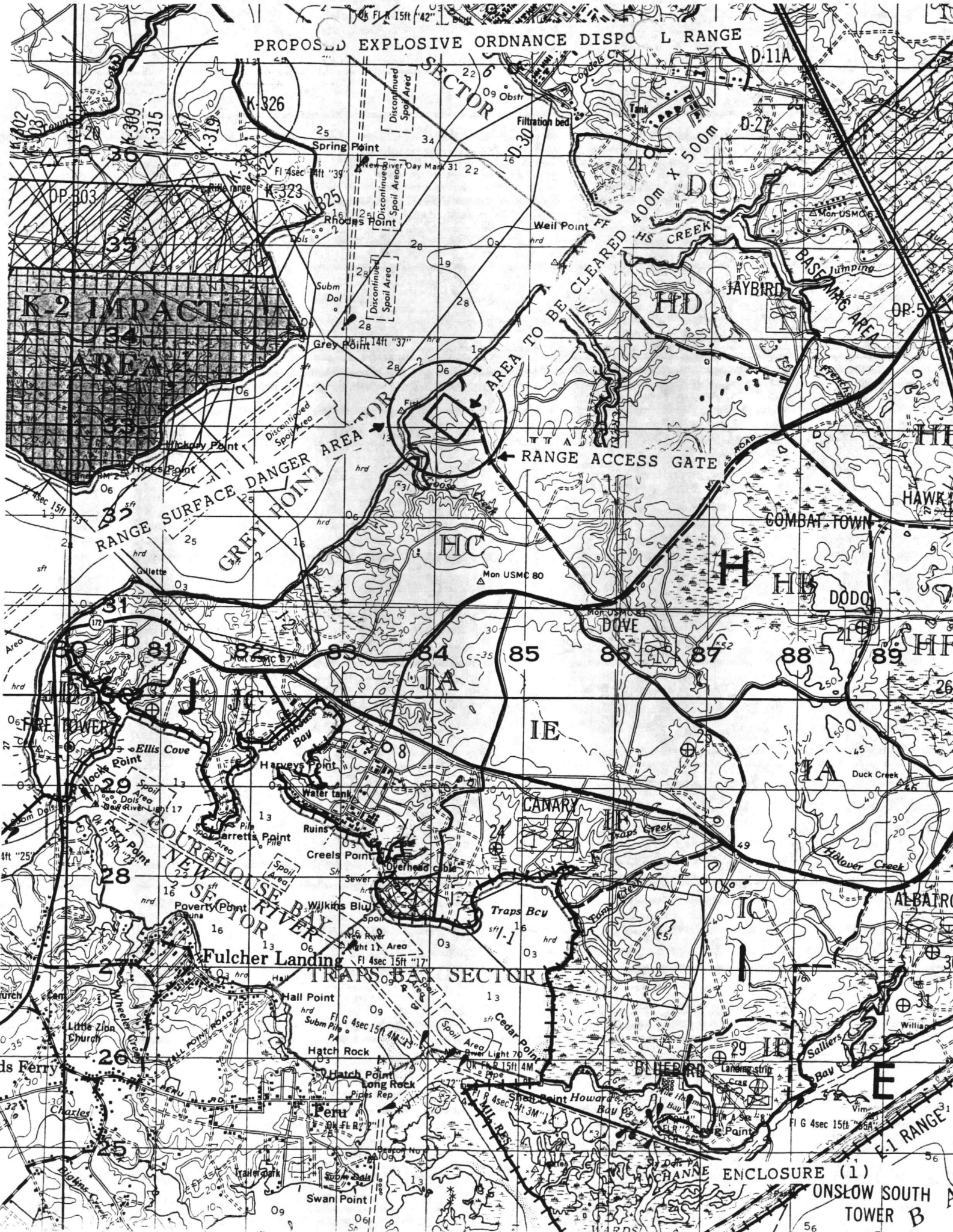
NEW HOUSE BAY SECTOR

TRAPS BAY SECTOR

ENCLOSURE (1)

ONSLOW SOUTH TOWER B

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



RANGE SURFACE DANGER AREA
GREY POINT AREA

AREA TO BE CLEARED 400m x 500m
RANGE ACCESS GATE

COURTNEY RIVER SECTOR
NEW HOUSE BAY SECTOR

TRAPS BAY SECTOR

ENCLOSURE (1)

ONSLOW SOUTH TOWER B

K-2 IMPACT AREA

FIRE TOWER

Little Zion Church

Peru

CANARY

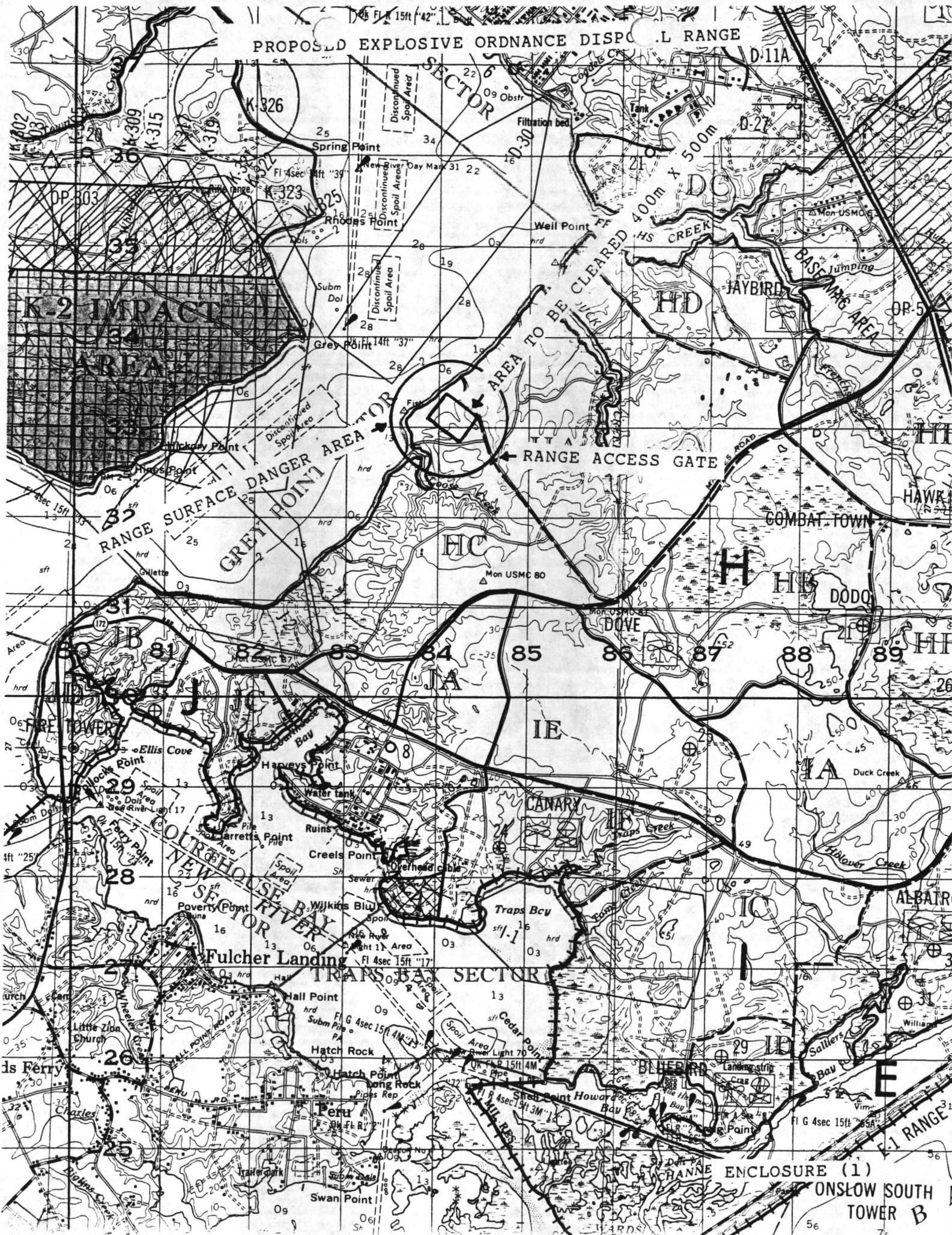
BLUESHIRT

SALLIERS BAY

ENCLOSURE (1)

ONSLOW SOUTH TOWER B

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



ENCLOSURE (1)
ONSLOW SOUTH
TOWER B

PROPOSED EXPLOSIVE ORDNANCE DISPOSAL RANGE



ENCLOSURE (1)
ONSLOW SOUTH
TOWER B



UNITED STATES MARINE CORPS

Range Control
Marine Corps Base
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:

8027
RCTL
18 Jul 84

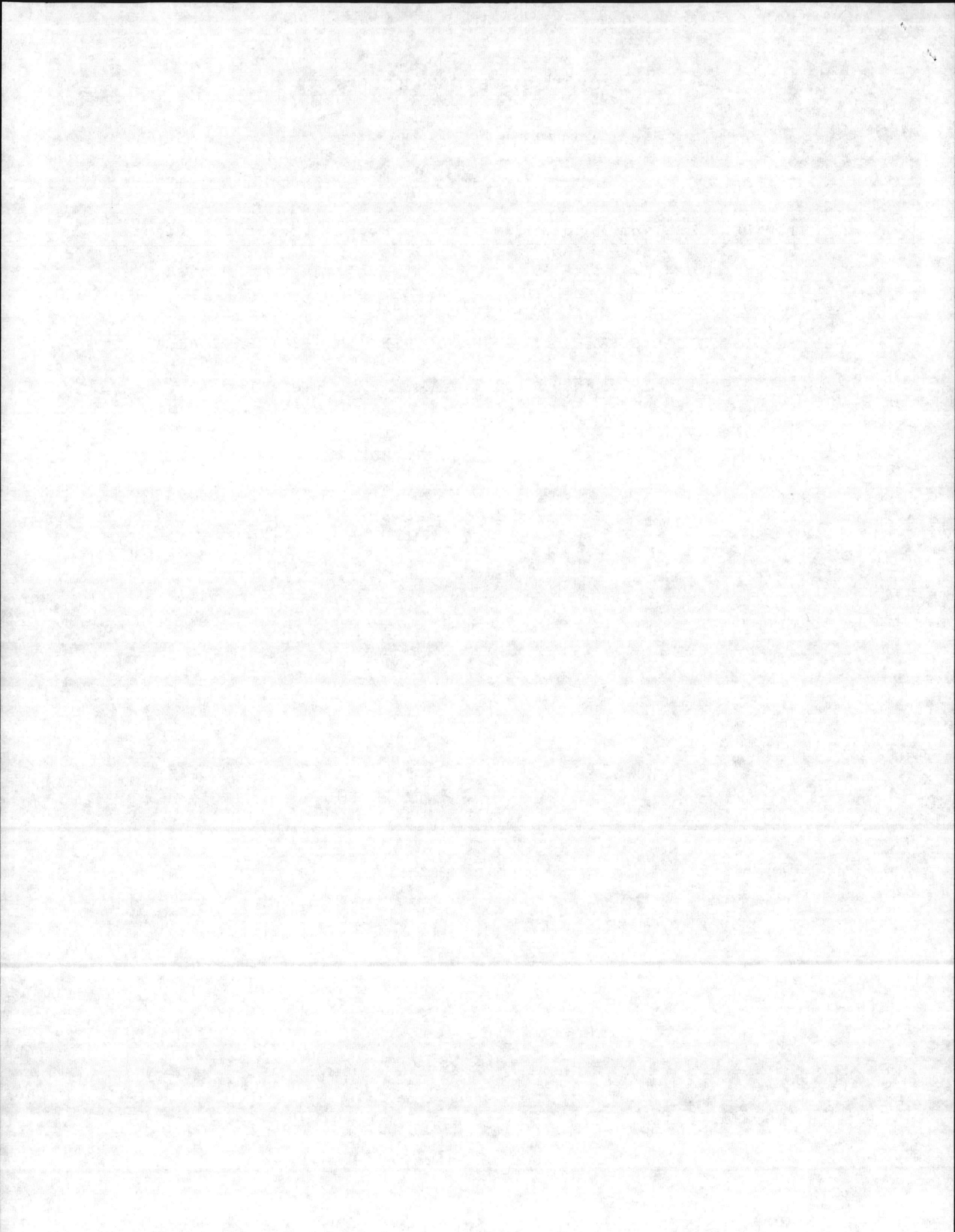
FIRST ENDORSEMENT on Memorandum for the Record from EOD Officer,
EOD over 8027 dtd 18 Jul 84

From: Range Control Officer
To: Assistant Chief of Staff, Training

Subj: HISTORICAL SUMMARY OF ORDNANCE USED IN K-2 IMPACT AREA

1. Forwarded as requested.

T. B. HOWARD





UNITED STATES MARINE CORPS

Range Control

Marine Corps Base

Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:

EOD

8027

18 July 1984

MEMORANDUM FOR THE RECORD

From: Explosive Ordnance Disposal Officer
To: Assistant Chief of Staff, Training
Via: Range Control Officer

Subj: Historical Summary of Ordnance Used in K-2 Impact Area

1. A review of all available historical data, both written and in corporate memory, on dud producing ordnance used in the K-2 Impact Area and associated ranges has been conducted. The results are as follows:

a. K-2. No known written records are available. EOD surveys have found evidence of:

1) 100 lb. to 500 lb. old style general purpose high explosive bombs dating from the 1950s.

2) 2.75" rockets.

3) 20mm HEI.

4) 250 lb. water-sand filled practice bombs.

5) 3.5" rockets.

6) 60mm mortars.

7) 81mm mortars.

8) 4.2" mortars.

9) 57mm HE.

10) 75mm HE.

11) 105mm projectiles.

12) 155mm projectiles.

13) 8" projectiles.

14) Dragon missile.

b. K-211.

1) 40mm HE

2) 40mm practice.

3) 40mm illumination.

4) 40mm CS.

c. K-301.

1) 66mm LAAW.

2) 66mm flame.

3) 3.5" HEAT.

4) 3.5" practice.

5) 3.5" WP.

6) 40mm HE.

7) 40mm practice.

8) 40mm illumination.

9) 81mm illumination.

10) 35mm Sub-Cal LAAW.

- d. K-303.
- 1) 60mm mortars.
 - 2) 81mm montars.
 - 3) 3.5" HEAT.
 - 4) 3.5" WP.
 - 5) 3.5" practice.
 - 6) 40mm HE.
 - 7) 40mm practice.
 - 8) 40mm illumination.
 - 9) 40mm CS.
 - 10) Dragon missile.
- e. K-305.
- 1) 60mm mortars.
 - 2) 81mm mortars.
 - 3) 3.5" HEAT.
 - 4) 3.5" practice.
 - 5) 3.5" WP.
 - 6) 40mm HE.
 - 7) 40mm practice.
 - 8) 40mm illumination.
 - 9) 40mm CS.
 - 10) 66mm LAAW.
 - 11) 66mm flame.
 - 12) 35mm Sub-Cal LAAW.
 - 13) 57mm projectiles.
 - 14) 75mm projectiles.
 - 15) Dragon missiles.
 - 16) 4.2" mortars.
- f. K-323.
- 1) 40mm HE.
 - 2) 40mm practice.
 - 3) 40mm illumination.
 - 4) 40mm CS.
 - 5) 3.5" HEAT.
 - 6) 3.5" practice.
 - 7) 3.5" WP.
 - 8) 40mm smoke.
- g. K-325.
- 1) 40mm HE.
 - 2) 40mm practice.
 - 3) 40mm illumination.
 - 4) 40mm CS.
 - 5) 40mm smoke.
 - 6) 3.5" HEAT.
 - 7) 3.5" practice.
 - 8) 3.5" WP.
 - 9) 35mm Sub-Cal LAAW.
 - 10) 83mm SMAW.
 - 11) 83mm SMAW practice.
 - 12) 66mm LAAW.
 - 13) 66mm flame.
 - 14) 81mm mortars.
 - 15) 2.75" practice rockets.

2. EOD sweeps have not been conducted in the K-2 Impact Area since the early 1960's because there has not been a requirement to maintain the impact area or replace targets. The K-2 Impact Area was used for aerial bombardment and indirect artillery firing in the 1950's. No known records exist indicating the type of ordnance used during the 1950's in the K-2 Impact Area. Regular EOD sweeps are conducted of the K-200, 300 and 400 series ranges and records have been maintained since 1975.

H. B. Redmond Jr
H. B. REDMOND JR.



UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO
TRNG/MPS/eks
8000
8 Aug 1983

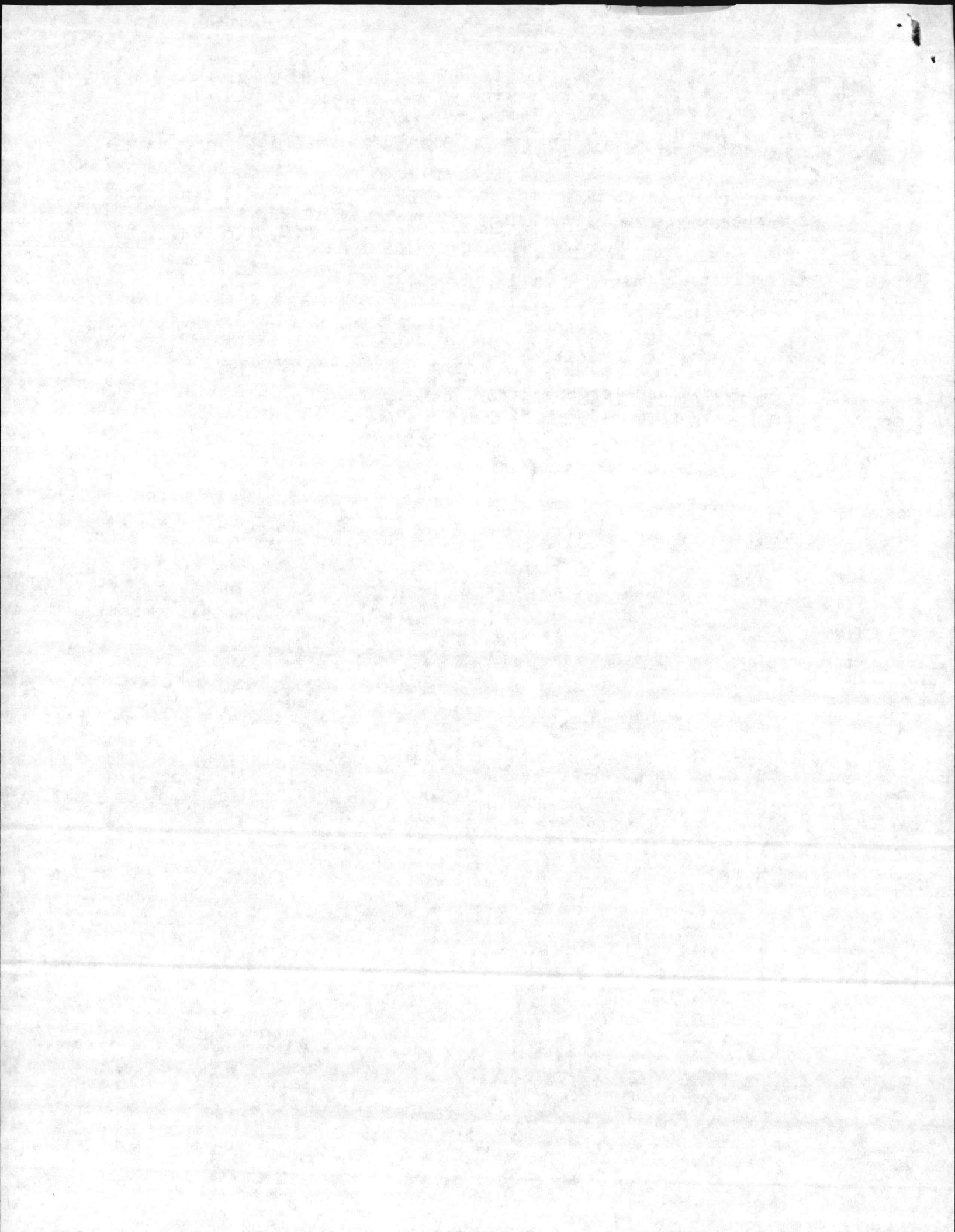
FIRST ENDORSEMENT on Cmdr, NavSeaSysCmd, Wash, D.C. ltr 06H11/LDW
8020 Ser 545 dtd 27 Jul 1983

From: Assistant Chief of Staff, Training
To: Explosive Ordnance Officer
Via: Training Facilities Officer

Subj: Approval of Ammunition/Explosive Disposal Areas

1. Readdressed and forwarded for action.

M. P. SAMS
By direction



06H11/LDW
8020
Ser 545

27 JUL 1983

From: Commander, Naval Sea Systems Command
To: Commanding General, Marine Corps Base, Camp Le Jeune, NC,
28546

Subj: Approval of Ammunition/Explosives Disposal Areas

Ref: (a) MCB Camp Le Jeune ltr EOD/HBR/ves 8027 of 5 July 1983
(b) NAVSEA OP-5 Volume 1 (Fourth Revision)

1. The proposed demolition sites, forwarded by reference (a), have been reviewed with respect to the safety criteria of reference (b). As a result of this review, the use of the following areas as demolition sites is authorized:

- a. Range K-326 as a Class C Detonation Site
- b. Range G-4A as a Class B Detonation Site

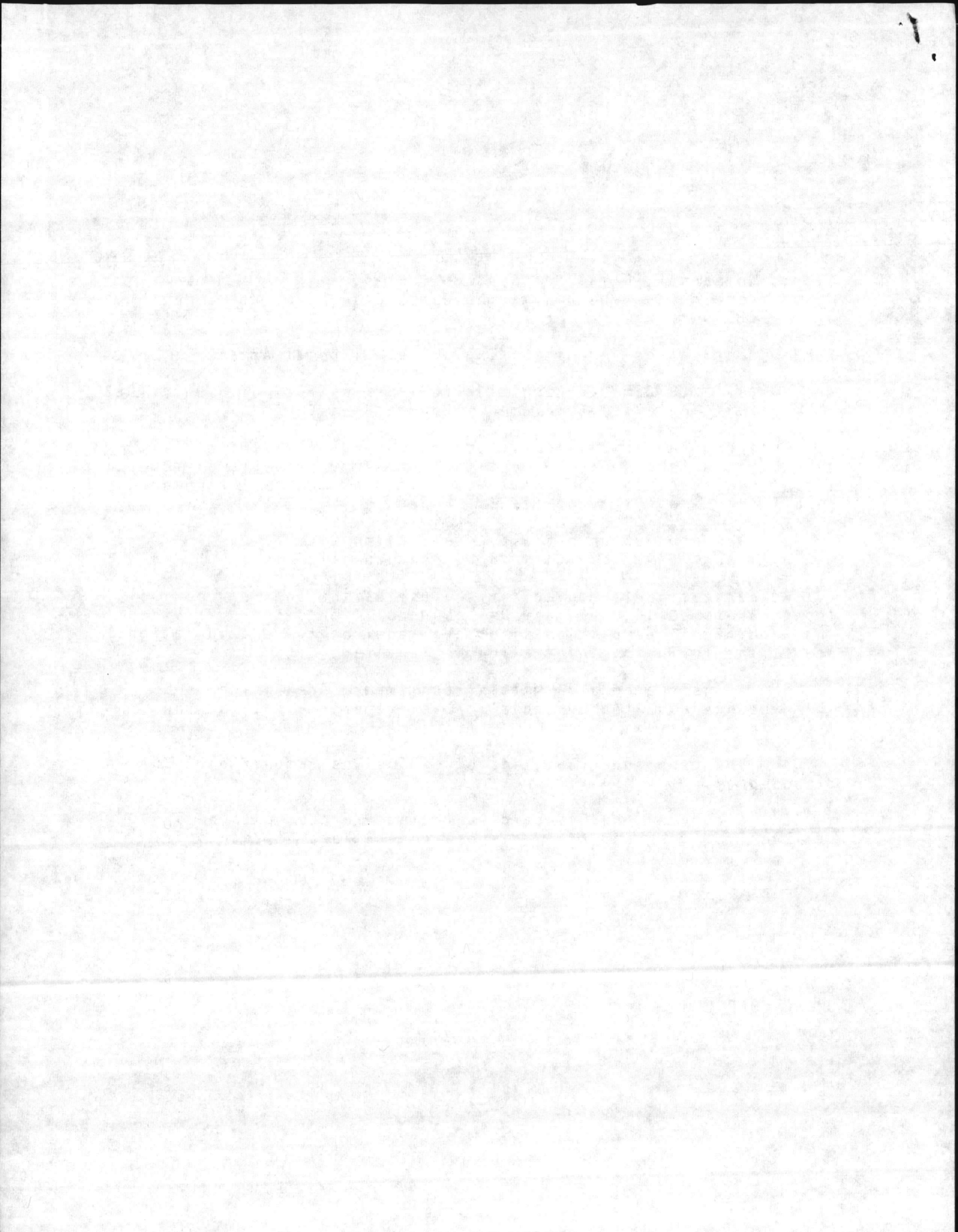
2. Authorization is denied for the use of the entire areas of Impact Areas, G-10, K-2, and N-1 as demolition sites. Provided that additional demolition sites are required to meet operational needs, the following information is required:

a. A designated area within each Impact Area which meets the distance required by Table 11-2 of reference (b) for the type range desired.

b. The type and quantities of explosives/ammunition to be disposed of.

c. A copy of the Standard Operating Procedures to be utilized for the conduct of disposal operations at each site.

Copy to:
CMC (CODE LMW-50)





DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND

WASHINGTON D.C. 20362

IN REPLY REFER TO

06H11/LDW
8020
Ser 545

27 JUL 1983

From: Commander, Naval Sea Systems Command
To: Commanding General, Marine Corps Base, Camp Le Jeune, NC,
28546

Subj: Approval of Ammunition/Explosives Disposal Areas

Ref: (a) MCB Camp Le Jeune ltr EOD/HBR/ves 8027 of 5 July 1983
(b) NAVSEA OP-5 Volume 1 (Fourth Revision)

1. The proposed demolition sites, forwarded by reference (a), have been reviewed with respect to the safety criteria of reference (b). As a result of this review, the use of the following areas as demolition sites is authorized:

- a. Range K-326 as a Class C Detonation Site
- b. Range G-4A as a Class B Detonation Site

2. Authorization is denied for the use of the entire areas of Impact Areas, G-10, K-2, and N-1 as demolition sites. Provided that additional demolition sites are required to meet operational needs, the following information is required:

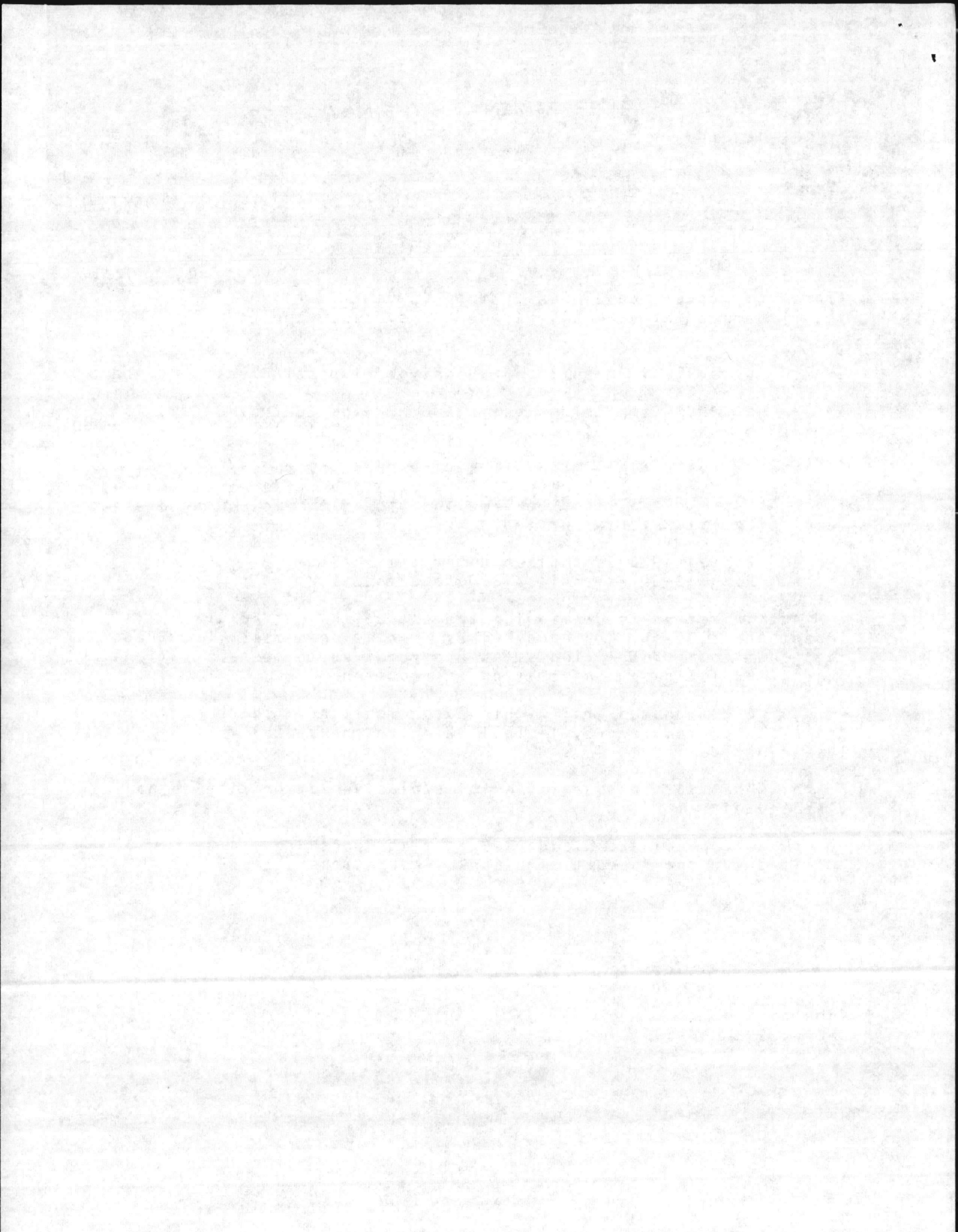
a. A designated area within each Impact Area which meets the distance required by Table 11-2 of reference (b) for the type range desired.

b. The type and quantities of explosives/ammunition to be disposed of.

c. A copy of the Standard Operating Procedures to be utilized for the conduct of disposal operations at each site.

Copy to:
CMC (CODE LMW-50)

*ANC
signed this*



EOD/HBR/ves
8027
5 July 1983

From: Commanding General
To: Commander, Naval Sea Systems Command, (Code: SEA-04H11),
Department of the Navy, Washington, D.C. 20362

Subj: Approval of Ammunition/Explosives Disposal Areas; request for

Ref: (a) NAVORDSYSCOM ltr ORD-048E2/469:ANC over 8020 dtd 7Jun74
(b) OP-5 Vol-1

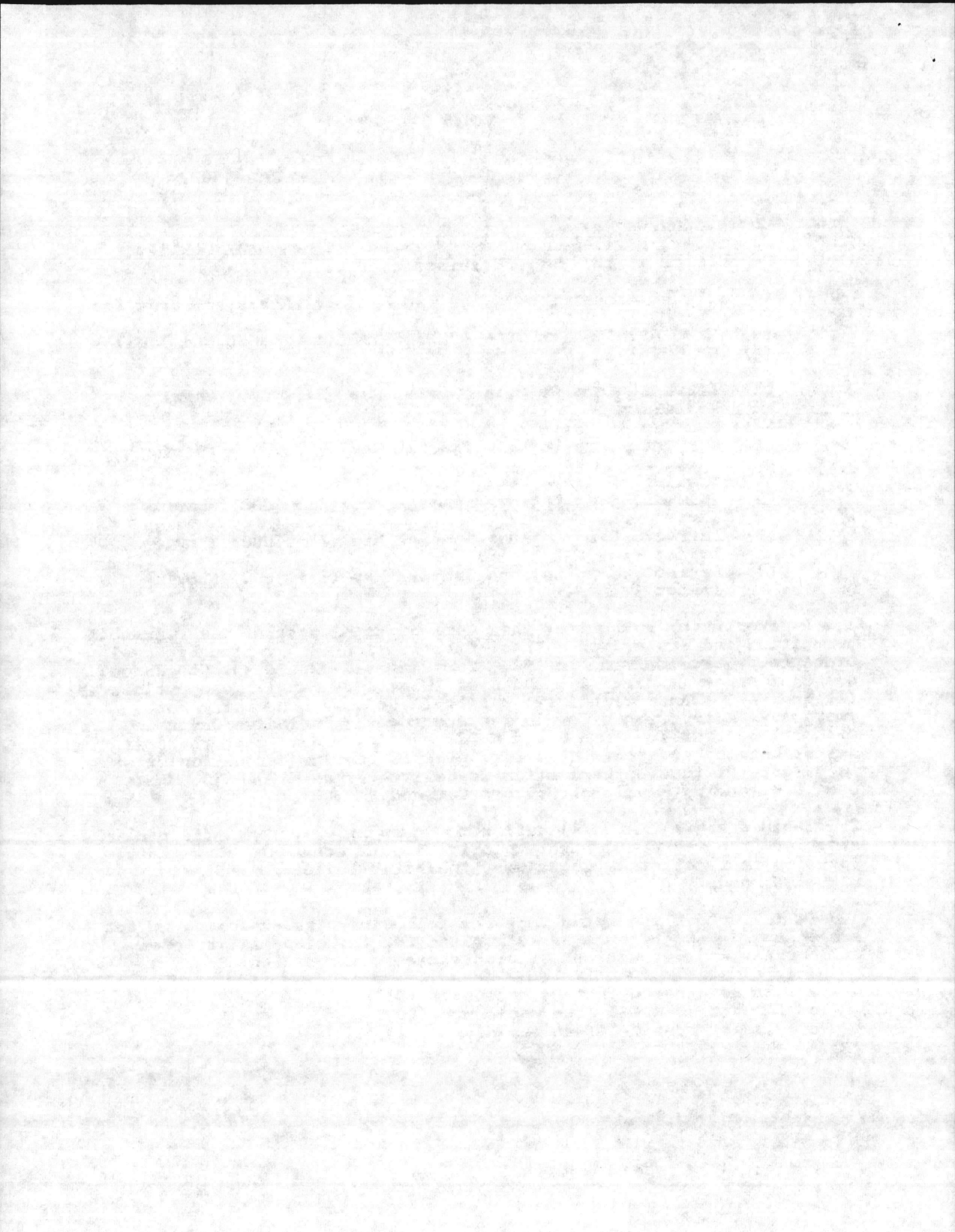
Encl: (1) Extract, Camp Lejeune Special Map (1:50,000) Showing
K-326 Range
(2) Drawing of Range K-326
(3) Extract, Camp Lejeune Special Map (1:50,000) Showing
G-4A Range
(4) Drawing of Range G-4A
(5) Extract, Camp Lejeune Special Map (1:50,000) Showing
Impact Area G-10
(6) Extract, Camp Lejeune Special Map (1:50,000) Showing
Impact Area K-2
(7) Extract, Camp Lejeune Special Map (1:50,000) Showing
Impact Area N-1

1. Reference (a) authorizes this Command to dispose of unserviceable ammunition and explosives. This authorization was granted by Naval Ordnance Systems Command in 1974, for Ranges K-326 (Class "C" Range), see enclosures (1) and (2), and G-4A (Class "B" Range), see enclosures (3) and (4). These ranges are available on a 24 hour basis for emergency destruction of explosive ordnance by Explosive Ordnance Disposal personnel. Both Range K-326 and Range G-4A meet the criteria established by reference (b), for open pit burning/detonation sites. An up-date of this authorization is desired since NAVORDSYSCOM has been replaced by Naval Sea Systems Command.

2. Enclosures (1) thru (4) define the currently approved disposal areas and the requested high explosive impact areas and show their location in relation to magazines, inhabited buildings and main traveled roads.

3. It is further requested that the following high explosive impact areas aboard Camp Lejeune be authorized for the disposal, by open pit burning and detonation, of unserviceable ammunition:

- a. Impact Area G-10 (see enclosure (5))
- b. Impact Area K-2 (see enclosure (6))
- c. Impact Area N-1 (see enclosure (7))



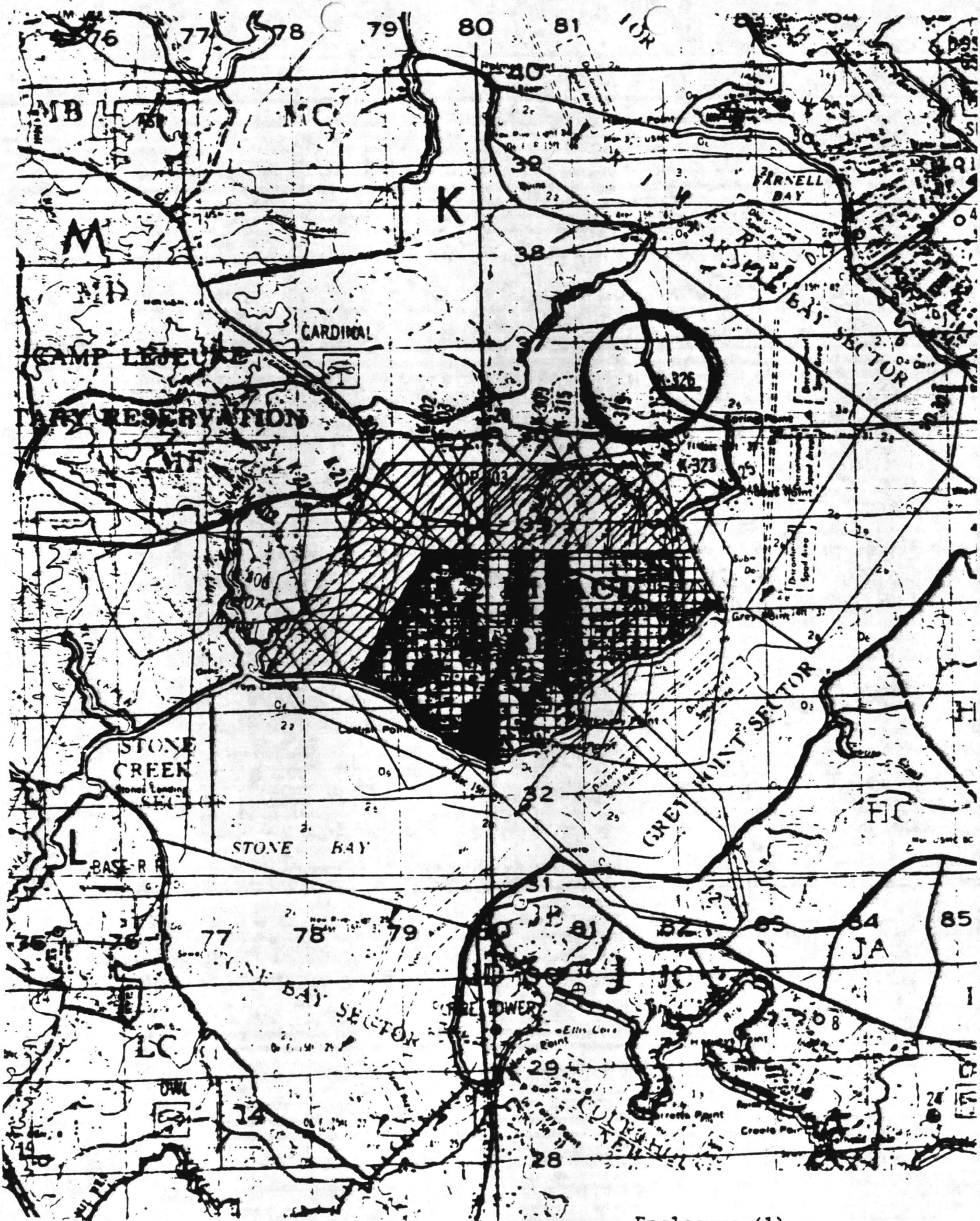
EOD/HBR/vss
5 July 1983

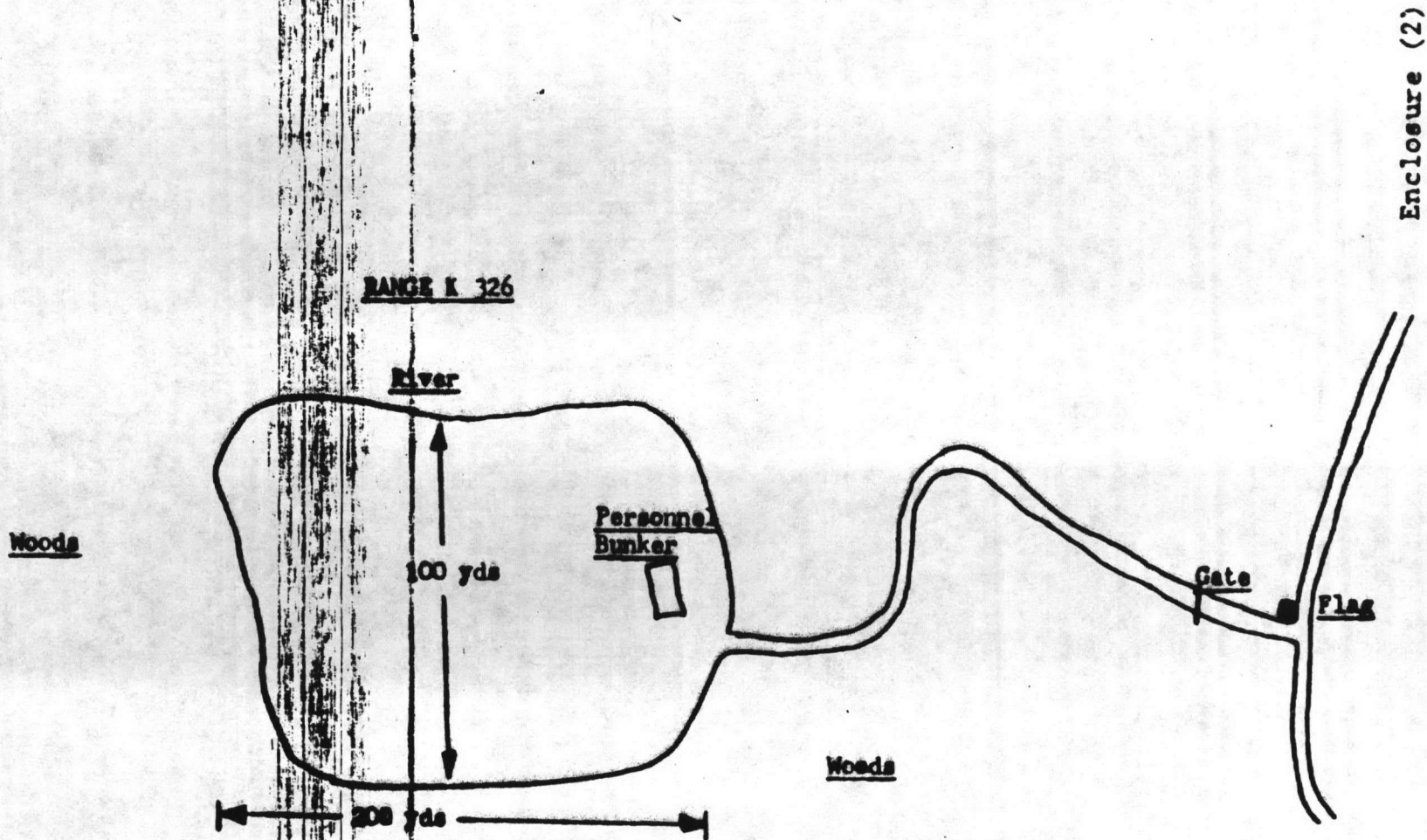
4. All disposal operations will be conducted in accordance with reference (b), and a standing operating procedure for the disposal area will be published by separate correspondence.

5. Point of contact for this section is 1stLt H.B. REDMOND JR., EOD Officer, autovon 484-0118.

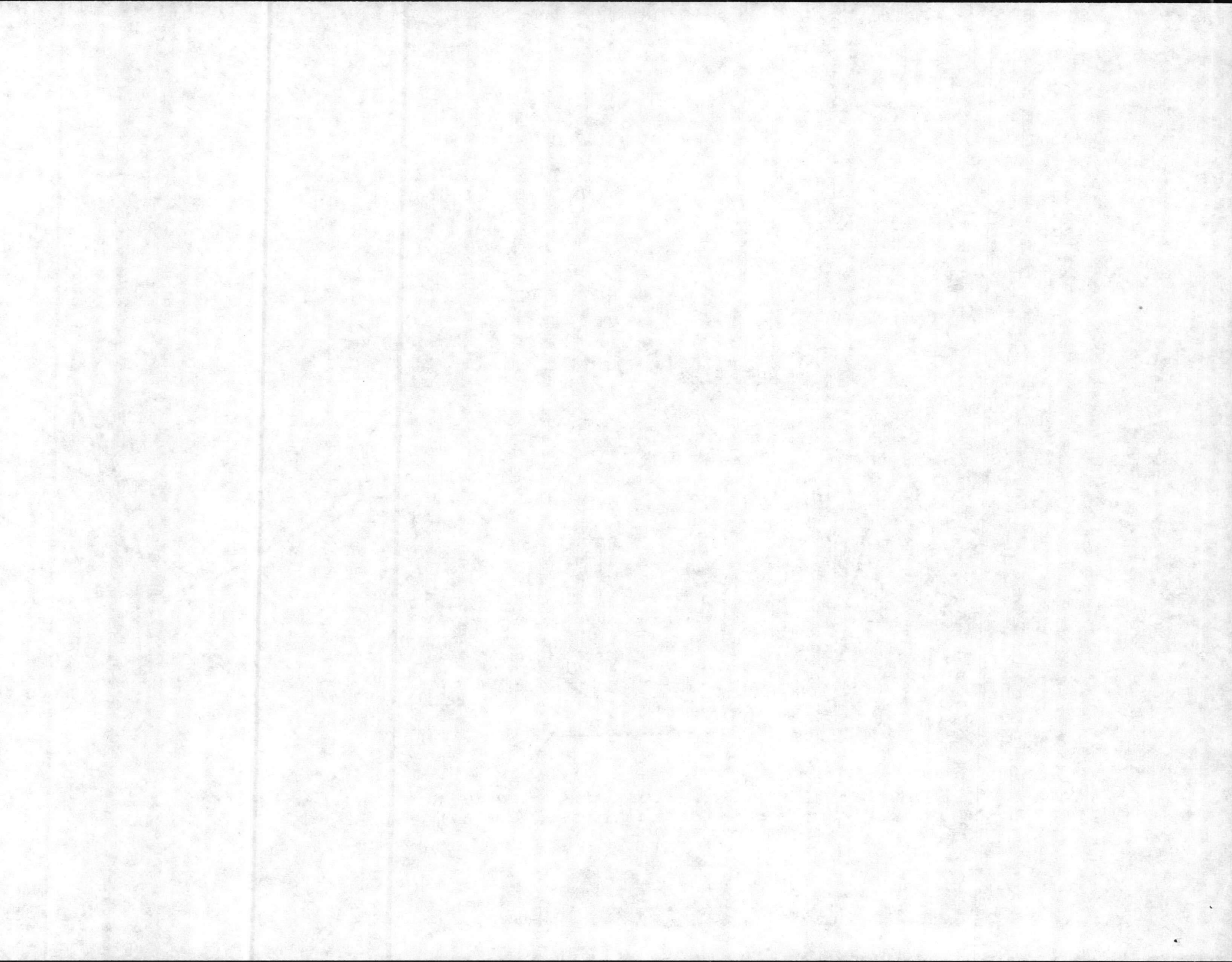
A. R. BRUNELLI JR.
By Direction

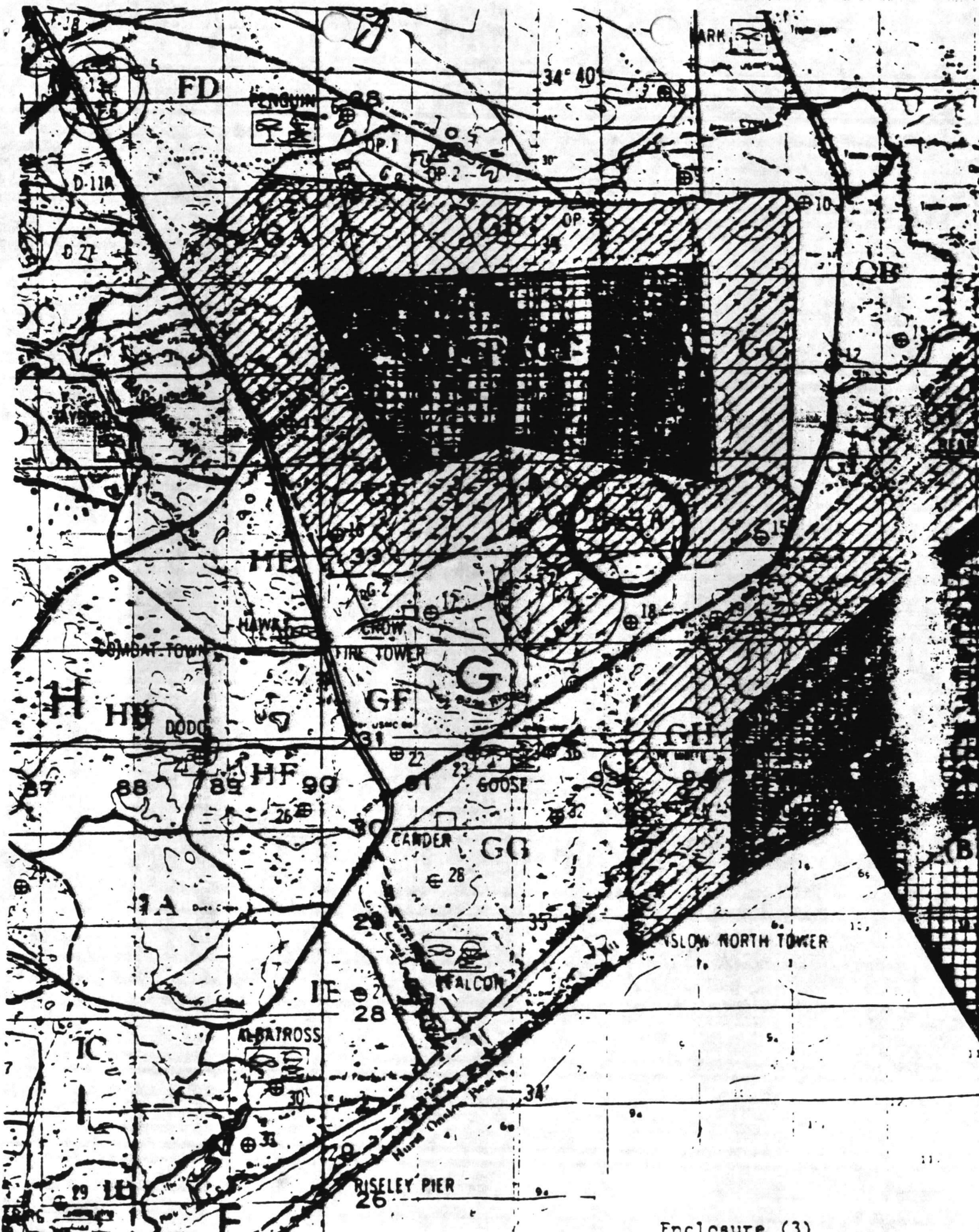
Copy to:
CIC (Code: DMI-50)



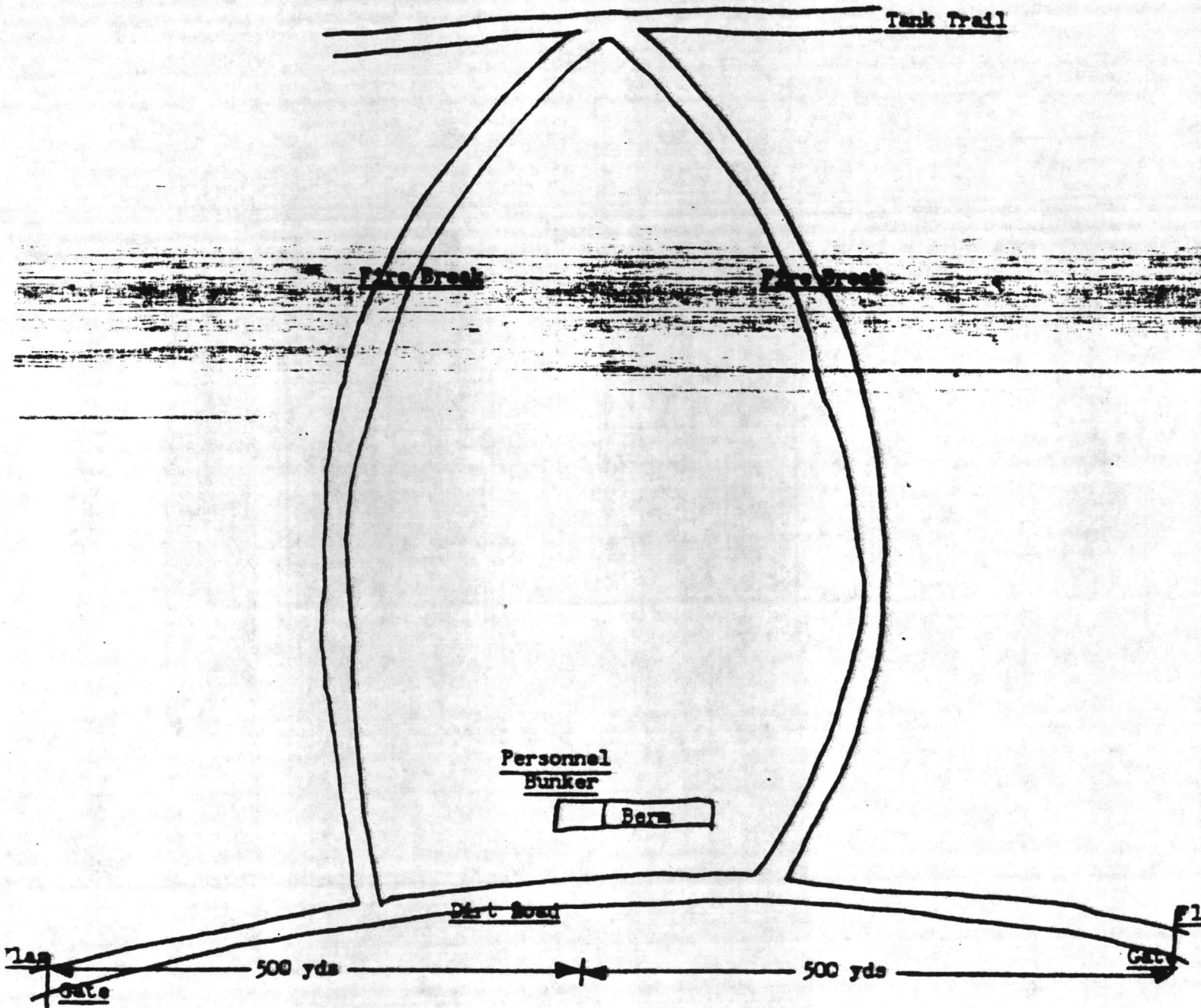


- NOTE:
1. The entire disposal area is free of vegetation, except for short grass.
 2. The personnel bunker is protected by a dirt berm, 10 ft high by 12 ft thick.

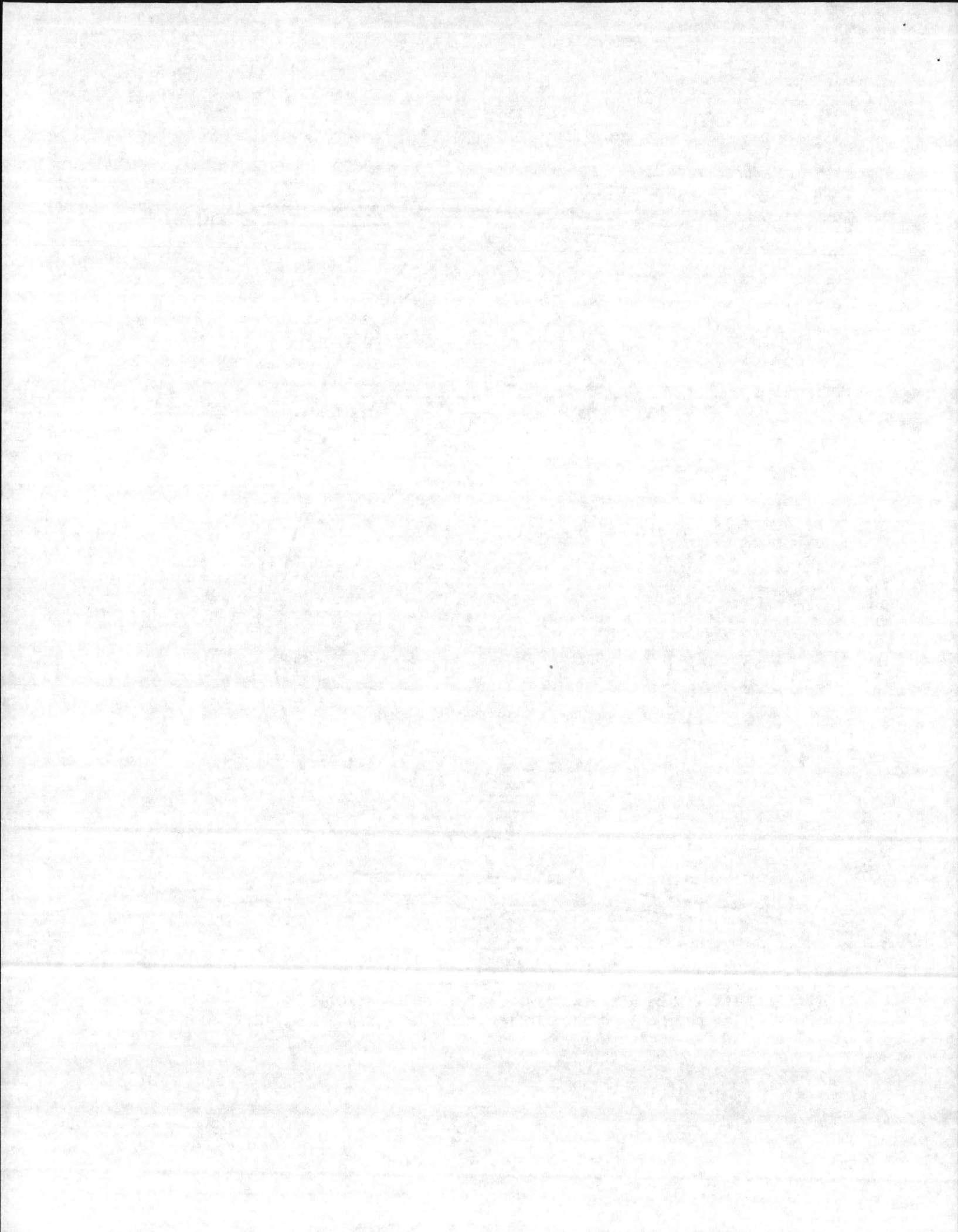


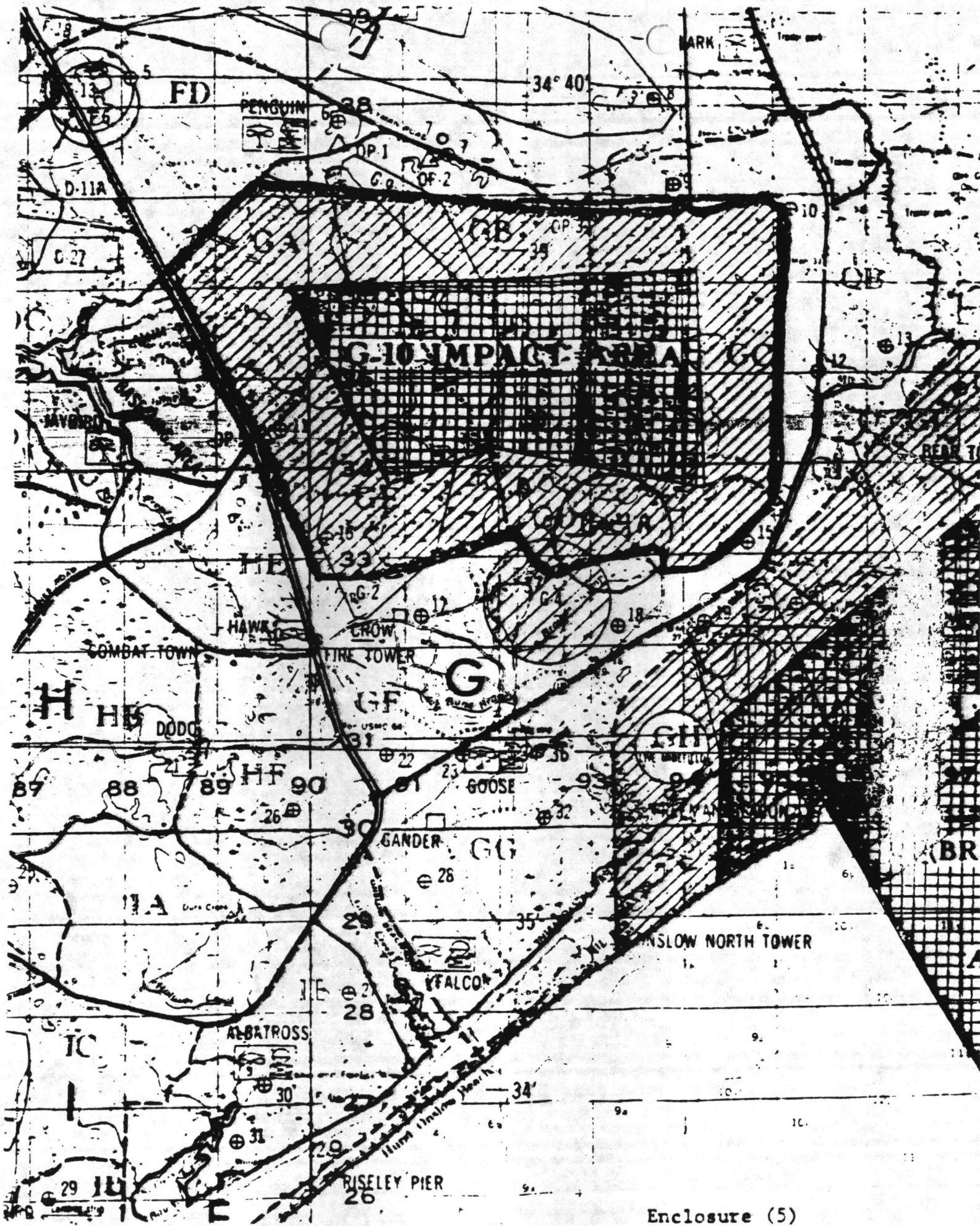


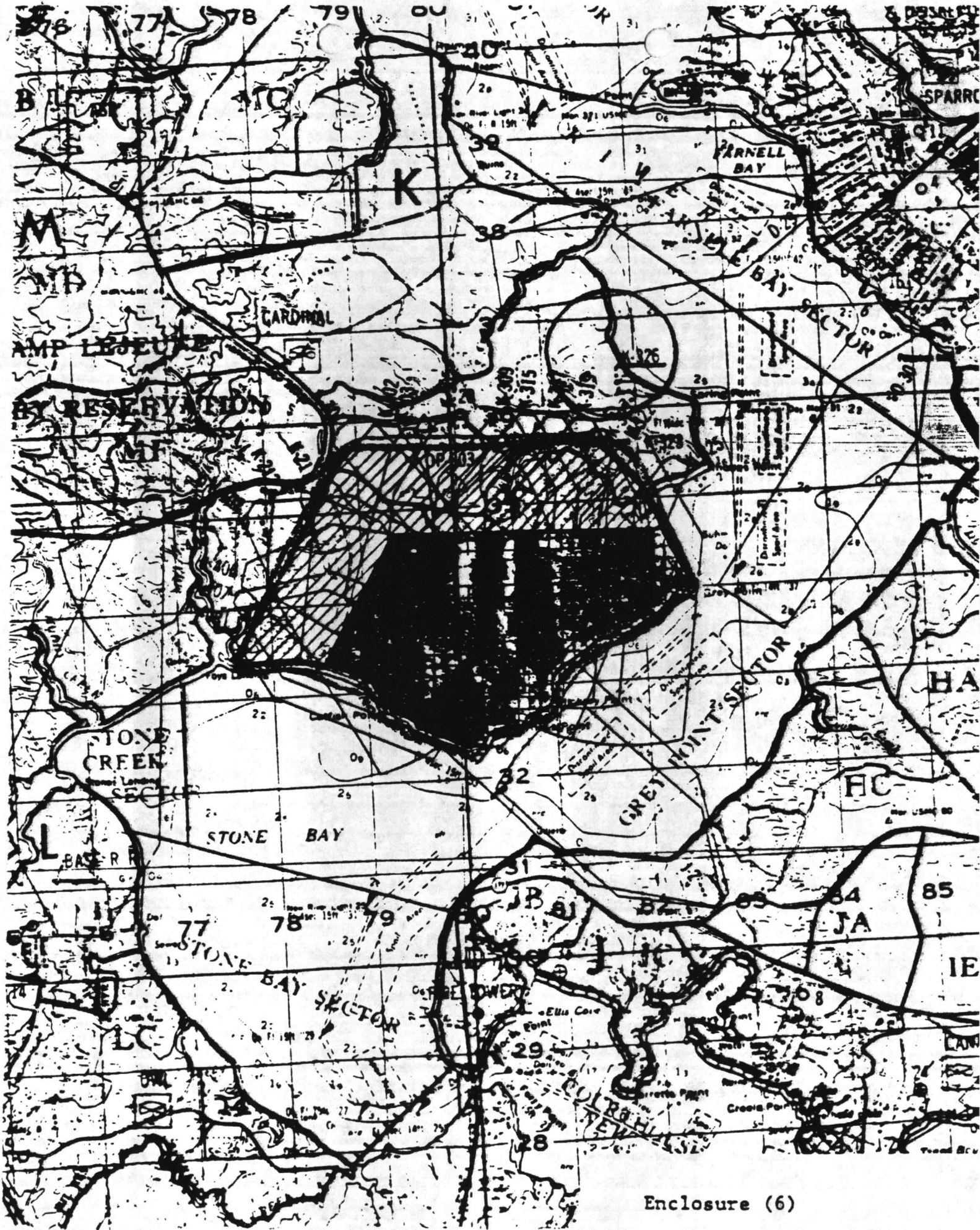
RANGE G4A



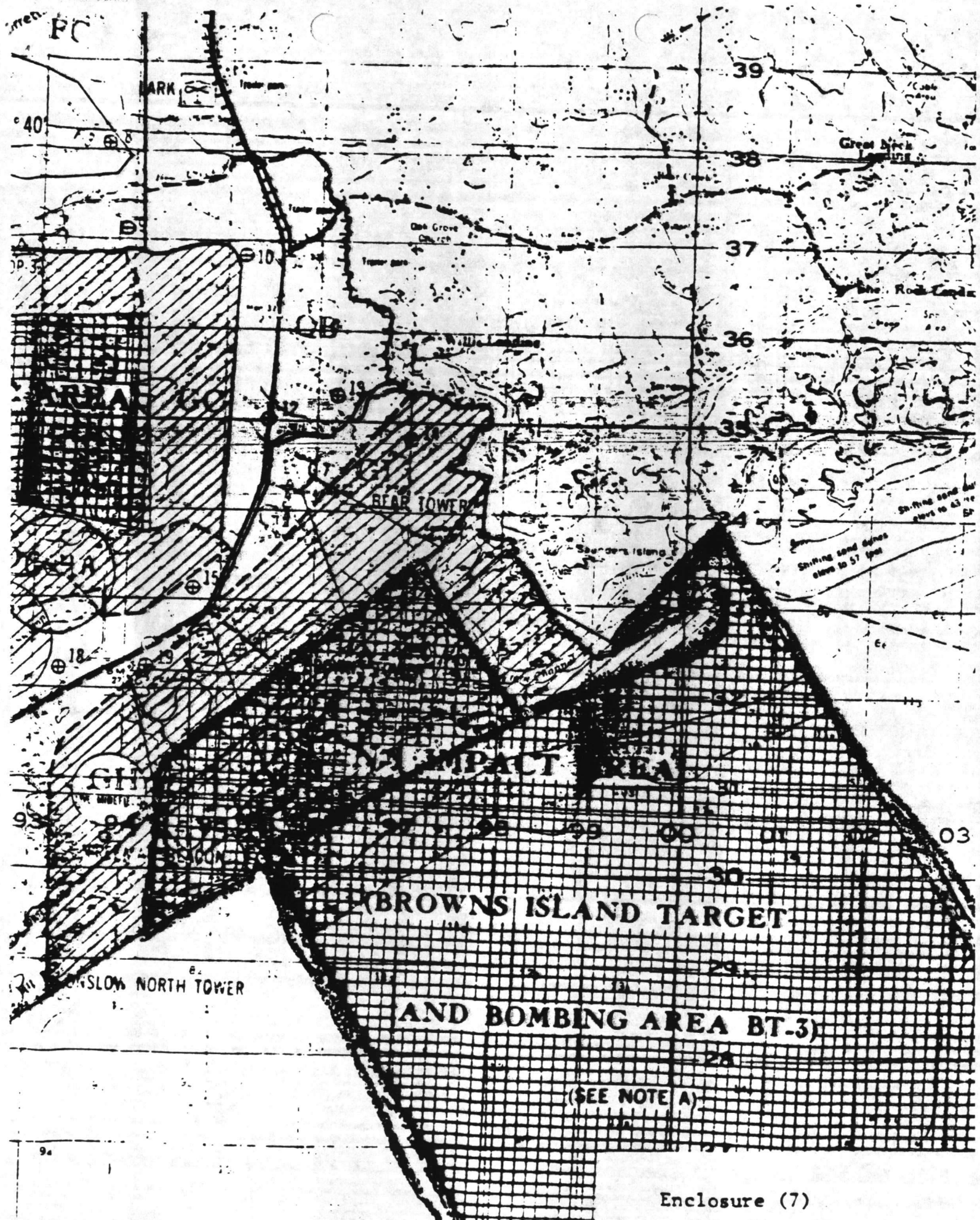
- NOTE: 1. The entire disposal area is free of vegetation.
2. The personnel bunker is protected by a dirt berm, 12 ft high by 10 ft thick.





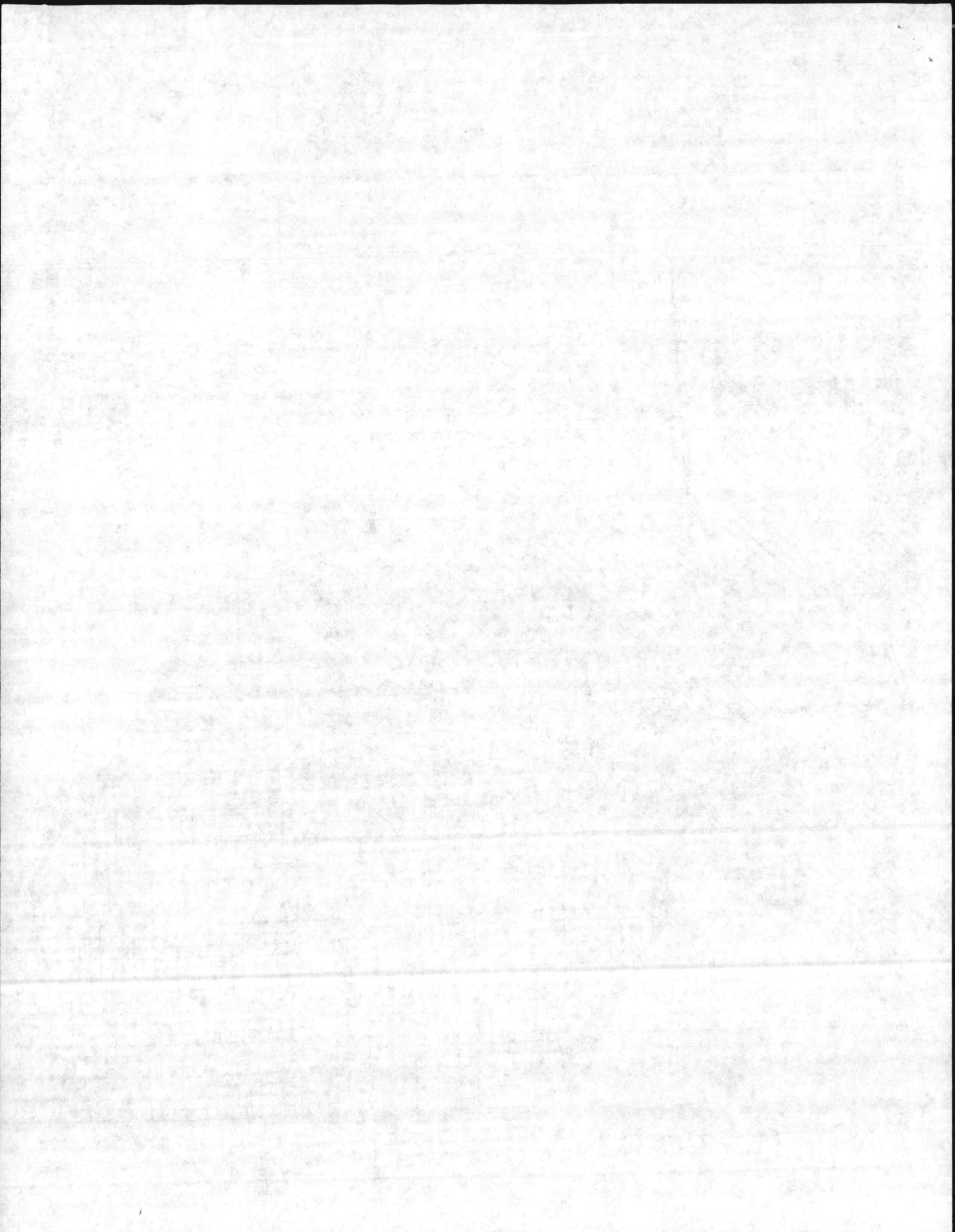


Enclosure (6)



**BROWNS ISLAND TARGET
AND BOMBING AREA BT-3**

(SEE NOTE A)





UNITED STATES MARINE CORPS
2D FORCE SERVICE SUPPORT GROUP (REIN)
FLEET MARINE FORCE, ATLANTIC
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO
3B:TLC:slr
8000
18 Apr 1983

THIRD ENDORSEMENT on OIC, EOD ltr RW/gla over 8027/1 dtd 8Apr83

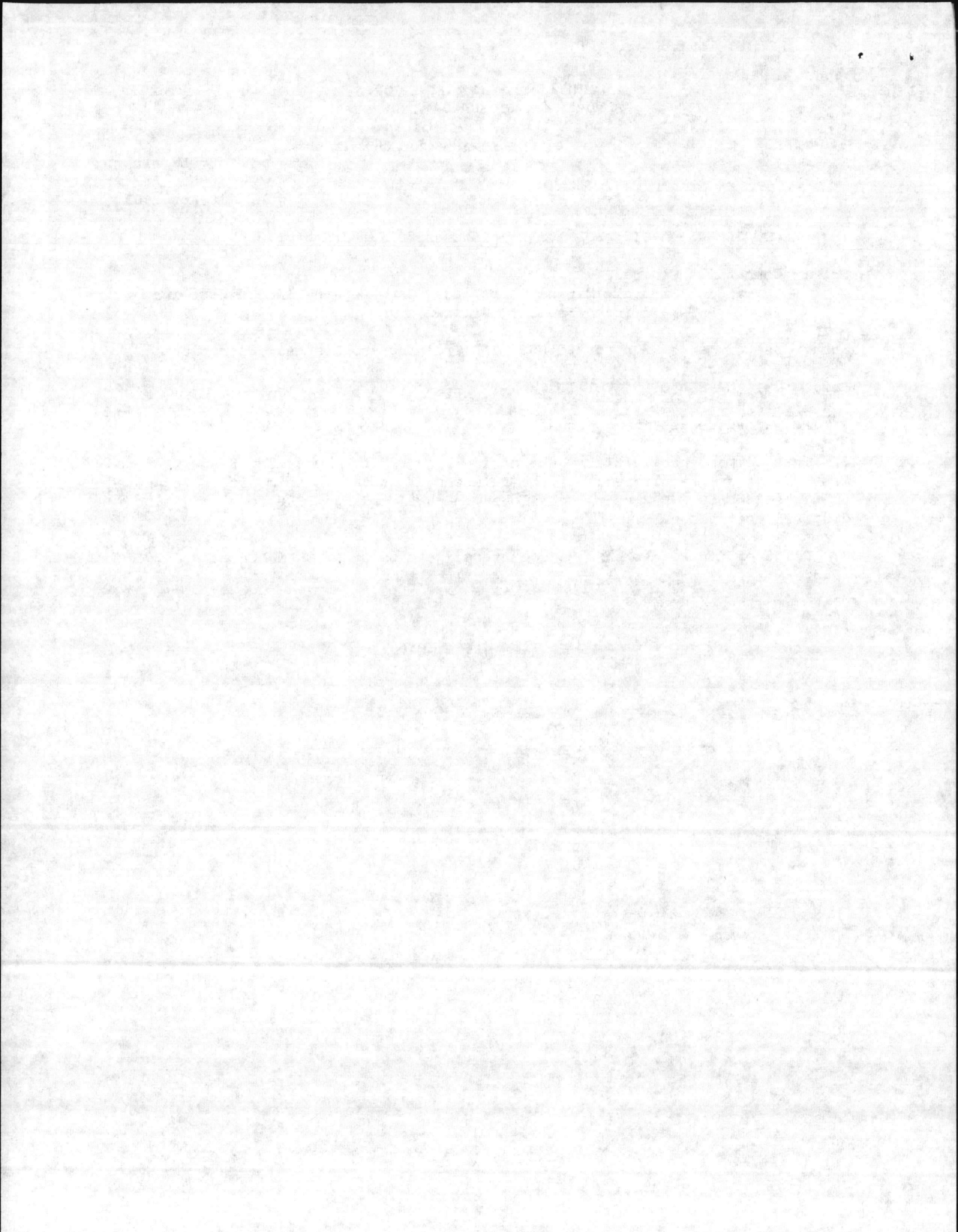
From: Commanding General
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina
28542 (ATTN: Training Facility Officer)

Subj: Use of Range K326 for 2d FSSG EOD Training and Disposal Operations

Ref: (a) NAVSEA OP 5, Vol 1

1. Forwarded requesting approval.
2. This command has initiated the action required for upgrading Range G-4A to meet the safety requirements of the reference. In the interim, it is requested that the 2d FSSG EOD Platoon be allowed the use of Range K326 for ammunition disposal operations.
3. Point of contact at this Headquarters is 1stLt T. L. CHANDLER at 451-2031/2033.

R. W. KALM Jr.
By direction





UNITED STATES MARINE CORPS
2d SUPPLY BATTALION
2d FORCE SERVICE SUPPORT GROUP (REIN)
FLEET MARINE FORCE, ATLANTIC
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

3/RJM/skm
8000
13 Apr 1983

SECOND ENDORSEMENT on OIC, EOD ltr RW/gla over 8027/1 dtd 8 Apr 1983

From: Commanding Officer
To: Commanding General, Marine Corps Base (Attn: Trng Fac Off)
Via: (1) Commanding General, 2d Force Service Support Group
(REIN) (Attn: AC/S Plans and Deployment Control, 1STLT
CHANDLER)
(2) Commanding General, 2d Force Service Support Group
(REIN) (Attn: AC/S Operations Engineer Support Officer)

Subj: Range K326 for 2d FSSG EOD Training and Disposal Operations

Ref: (a) MCO 3571.2E

1. Forwarded.

J. P. Kusior
J. P. KUSIOR
By direction

Copy to: CO, Ammo Co

UNITED STATES MARINE CORPS
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

WJH/syt
8000
11 Apr 1983

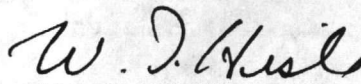
FIRST ENDORSEMENT on OIC EOD Ltr RW/gla 8027/1 dtd 8 Apr 1983

From: Commanding Officer
To: Commanding General, Marine Corps Base (ATTN: Trng FAC Off)
Via: (1) Commanding Officer, 2d Supply Battalion (Attn; S-3)
(2) Commanding General, 2d Force Service Support Group
(ATTN: AC/S Plns DepCont, 1st Lt CHANDLER)
(3) Commanding General, 2d Force Service Support Group
(ATTN: AC/S OPS EngSupOff)

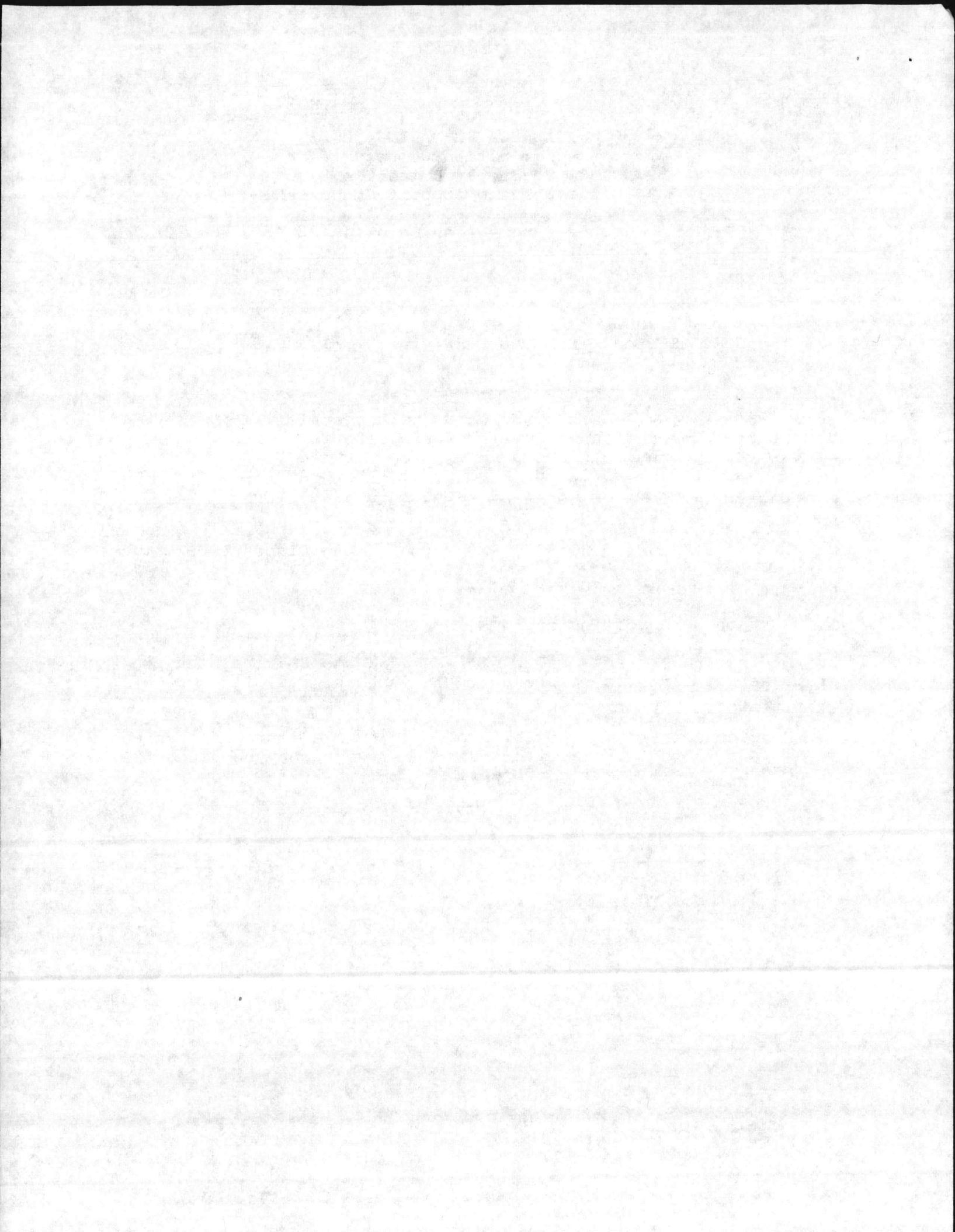
Subj: Range K326 for 2d FSSG EOD Training and Disposal Operations

Ref: (c) MCO 3571.2E

1. Forwarded requesting approval.
2. Dedication of range K 326 will enhance the EOD training program, as set forth in reference (c). Further, the site can be used for routine and emergency operations.
3. Considerable effort has been placed towards improving range G-4A. A personnel protective shelter and emergency barricade(s) is needed to complete the project.


W. J. HISLE

Copy to: OIC EOD Plt

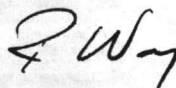


UNITED STATES MARINE CORPS
Explosive Ordnance Disposal Platoon
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

RW/gla
8027/1
8 Apr 1983

From: Platoon Leader
To: Commanding General, Marine Corps Base (Attn: Trng Fac Off)
Via: (1) Commanding Officer, Ammunition Company
(2) Commanding Officer, 2d Supply Battalion
(3) Commanding General, 2d Force Service Support Group
Subj: Range K326 for 2d FSSG EOD Training and Disposal Operations; use of
Ref: (a) BO P11102.1J
(b) NAVSEA OP5 Vol. 1

1. Range G-4A is assigned by reference (a) to the 2d FSSG EOD Plt for the disposal of Dud/unserviceable ammunition. After an inspection by a NAVSEACENLANT Det Safety Inspector, in May of 1979, Range G-4A was found not to meet minimum safety requirements, as set forth in reference (b).
2. Reference (a) also provides Range K326 for Disposal and Training operations for the MCB and MAG 29 EOD Teams. This range has been certified by NAVSEASYSKOM, to meet those requirements prescribed by reference (b).
3. It is requested that the 2d FSSG EOD Plt be allowed to use K326 for disposal and training operations, until Range G-4A can be brought up to meet requirements set forth in reference (b).
4. Prior to any operations close liaison between range control, MCB and MAG 29 EOD teams will be established.


R. WAY

Copy to: OIC MCB EOD

**THE FOLLOWING
DOCUMENT IMAGE(S)
WERE POOR QUALITY IN THE
ORIGINAL PAPER FORMAT**

**Confidential Records Management, Inc.
New Bern, NC
1-888-622-4425
9/08**

100-151
 18 APR 1983
 8 APR 83

THREATN: Training Facility Officer
 Use of range K326 for 2d FSSG
 (a) NAVSEA OP 5, Vol 1
 Training and Disposal Operations

1. Forwarded requesting approval.
2. This command has initiated the action required for upgrading Range G-4A to meet the safety regulations of the reference. In the interim, it is requested that the safety regulations be allowed the use of Range K326 for ammunition disposal operations.
3. Point of contact at this Headquarters is 1stLt T. L. CHANDLER at 451-2031/2033.

R. W. KALM Jr.
 By direction

3B:TLC:slr
8000
18 Apr 1983

THIRD ENDORSEMENT ON OIC, EOD ltr RW/gla over 8027/1 dtd 8Apr83

From: Commanding General
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina
28542 (ATTN: Training Facility Officer)

Subj: Use of Range K326 for 2d FSSG EOD Training and Disposal Operations

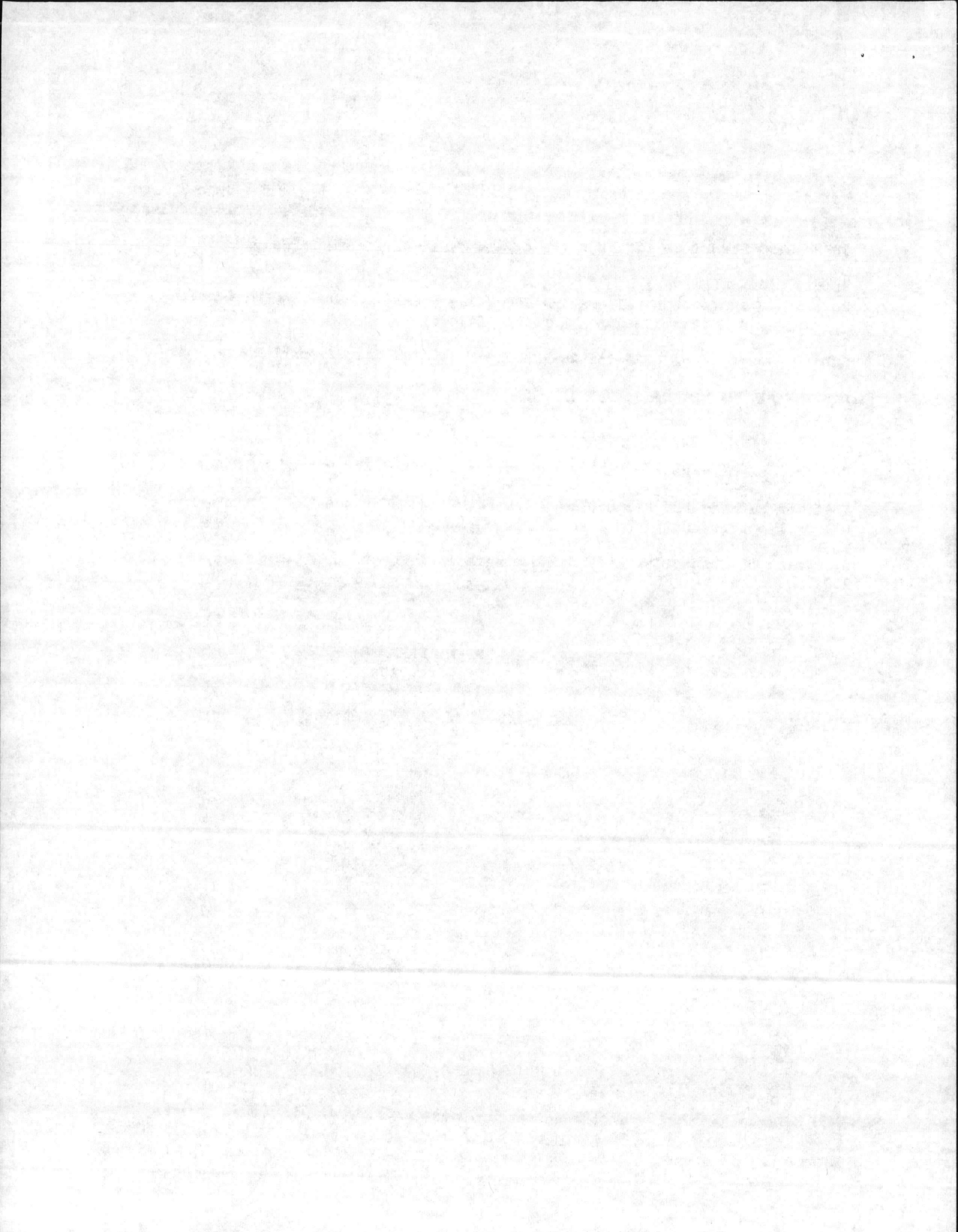
Ref: (a) NAVSEA OP 5, Vol 1

1. Forwarded requesting approval.

2. This command has initiated the action required for upgrading Range G-4A to meet the safety requirements of the reference. In the interim, it is requested that the 2d FSSG EOD Platoon be allowed the use of Range K326 for ammunition disposal operations.

3. Point of contact at this Headquarters is 1stLt T. L. CHANDLER at 451-2031/2033.

R. W. KALM Jr.
By direction



UNITED STATES MARINE CORPS
Explosive Ordnance Disposal Platoon
Ammunition Company
2d Supply Battalion
2d Force Service Support Group(REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

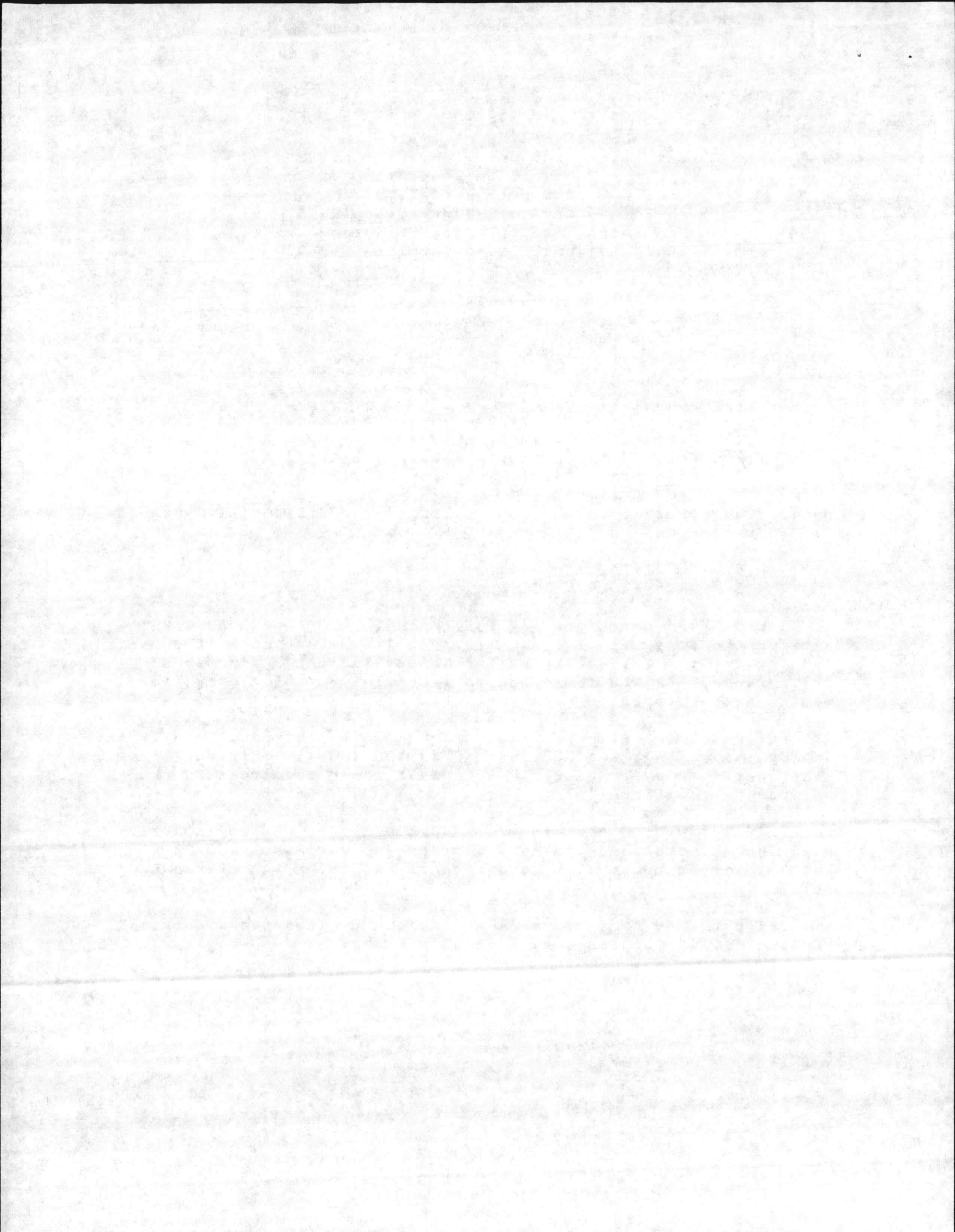
RW/gla
8027/1
8 Apr 1983

From: Platoon Leader
To: Commanding General, Marine Corps Base (Attn: Trng Fac Off)
Via: (1) Commanding Officer, Ammunition Company
(2) Commanding Officer, 2d Supply Battalion
(3) Commanding General, 2d Force Service Support Group
Subj: Range K326 for 2d FSSG EOD Training and Disposal Operations; use of
Ref: (a) BO P11102.1J
(b) NAVSEA OP5 Vol. 1

1. Range G-4A is assigned by reference (a) to the 2d FSSG EOD Plt for the disposal of Dud/unserviceable ammunition. After an inspection by a NAVSEACENLANT Det Safety Inspector, in May of 1979, Range G-4A was found not to meet minimum safety requirements, as set forth in reference (b).
2. Reference (a) also provides Range K326 for Disposal and Training operations for the MCB and MAG 29 EOD Teams. This range has been certified by NAVSEASYSOM, to meet those requirements prescribed by reference (b).
3. It is requested that the 2d FSSG EOD Plt be allowed to use K326 for disposal and training operations, until Range G-4A can be brought up to meet requirements set forth in reference (b).
4. Prior to any operations close liaison between range control, MCB and MAG 29 EOD teams will be established.

R. WAY

Copy to: OIC MCB EOD



UNITED STATES MARINE CORPS
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

WJH/syt
8000
11 Apr 1983

FIRST ENDORSEMENT on OIC EOD Ltr RW/gla 8027/1 dtd 8 Apr 1983

From: Commanding Officer
To: Commanding General, Marine Corps Base (ATTN: Trng FAC Off)
Via: (1) Commanding Officer, 2d Supply Battalion (Attn: S
(2) Commanding General, 2d Force Service Support Group
(ATTN: AC/S Plns DepCont, 1st Lt CHANDLER)
(3) Commanding General, 2d Force Service Support Group
(ATTN: AC/S OPS EngSupOff)

Subj: Range K326 for 2d FSSG EOD Training and Disposal Operati

Ref: (c) MCO 3571.2E

1. Forwarded requesting approval.

2. Dedication of range K 326 will enhance the EOD training pro-
gram, as set forth in reference (c). Further, the site can be
used for routine and emergency operations.

3. Considerable effort has been placed towards improving range
G-4A. A personnel protective shelter and emergency barricade(s)
is needed to complete the project.

W. J. HISLE

Copy to: OIC EOD Plt

3/RJM/skm
8000
13 Apr 1983

SECOND ENDORSEMENT on OIC, EOD ltr RW/gla over 8027/1 dtd 8 Apr 1983

From: Commanding Officer
To: Commanding General, Marine Corps Base (Attn: Trng Fac Off)
Via: (1) Commanding General, 2d Force Service Support Group
(REIN) (Attn: AC/S Plans and Deployment Control, 1STLT
CHANDLER)
(2) Commanding General, 2d Force Service Support Group
(REIN) (Attn: AC/S Operations Engineer Support Officer)

Subj: Range K326 for 2d FSSG EOD Training and Disposal Operat

Ref: (a) MCO 3571.2E

1. Forwarded.

J. P. KUSIOR
By direction

Copy to: CO, Ammo Co

4/LS/rth
2000
9 June 1982

SECOND ENDORSEMENT on OIC, EOD ltm RW/dja over 2000 dtd 7 June 1982

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune,
North Carolina {Attn: CEO}
Via: Commanding General, 2d Force Service Support Group
{REIN} {Attn: CEO}

Subj: Installation of Telephone Line at 6-4A; request for

1. Forwarded recommendina approval.

G. N. STRICKLAND
By direction

UNITED STATES MARINE CORPS
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

WJH/syt
2000
8 June 82

FIRST ENDORSEMENT on OIC EOD Ltr RW/dja over 2000 dtd 7 June 1982

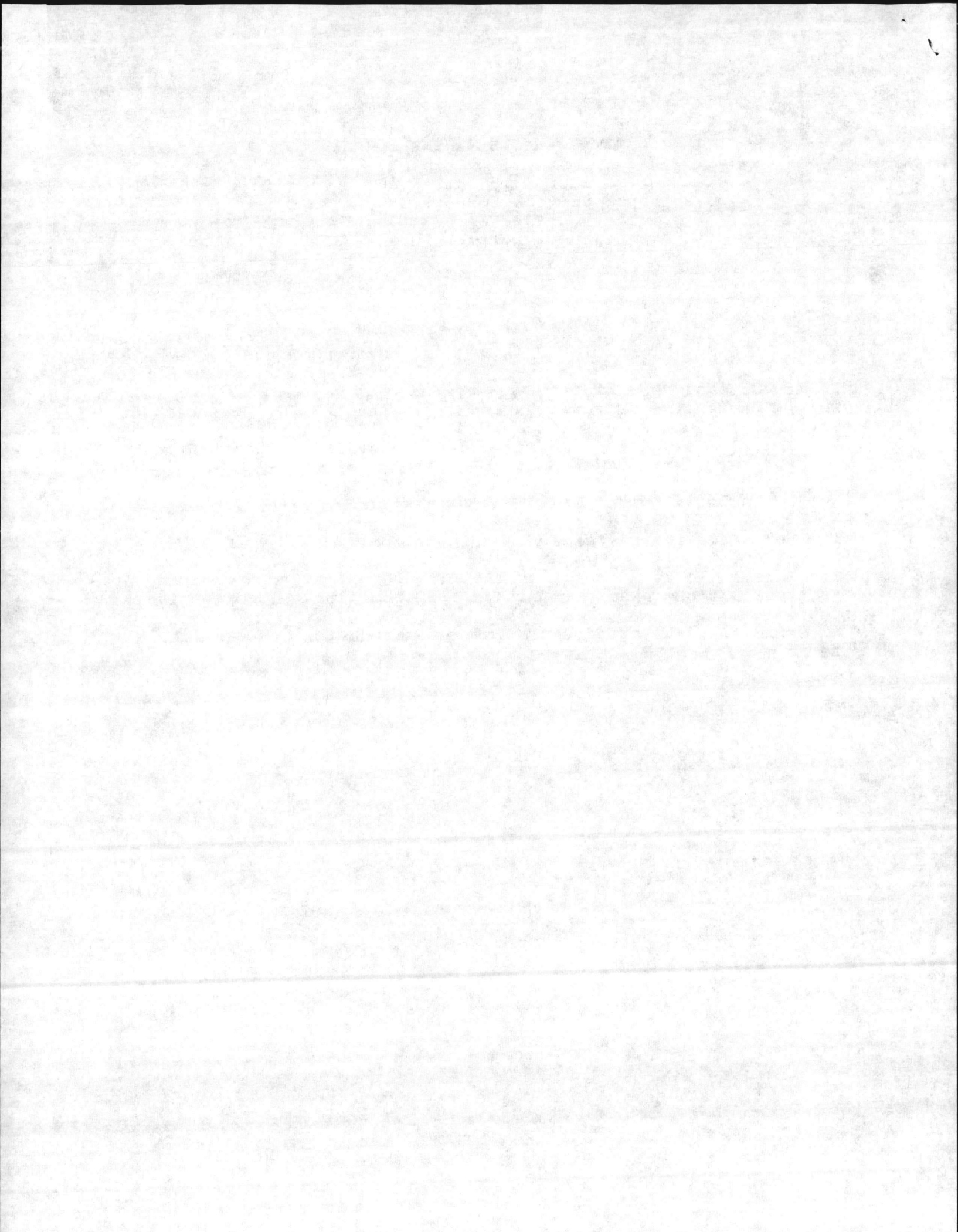
From: Commanding Officer
To: Commanding General, Marine Corps Base (ATTN: ~~Eng Sup Off~~ ^{CEO})
Via: (1) Commanding Officer, 2d Supply Battalion
(2) Commanding General, 2d Force Service Support Group
(ATTN: ~~Eng Support~~ ^{CEO})

Subj: Installation of Telephone Line at Range G-4A; request for

1. Forwarded for review and consideration.
2. This would be a costly endeavor; however, a troop training project using those assets within 2d FSSG could make it effective.
3. From a safety standpoint this recommendation has considerable merit.

W. J. HISLE

Copy to: OIC EOD Plt



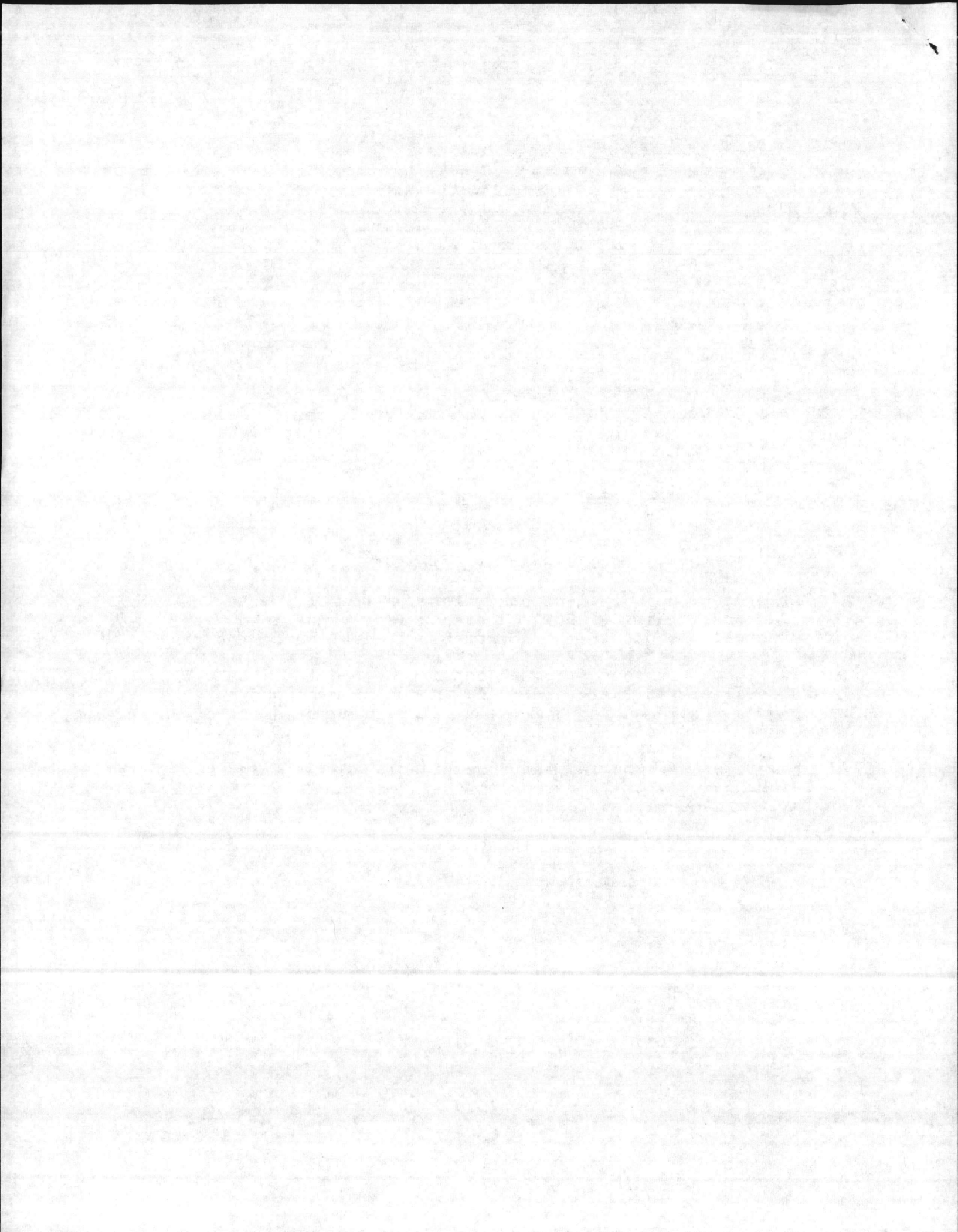
UNITED STATES MARINE CORPS
Explosive Ordnance Disposal Platoon
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

RW/dja
2000
7 June 1982

From: Officer in Charge
To: Commanding General, Marine Corps Base, Training Facilities
Officer
Via: (1) Commanding Officer, Ammunition Company
(2) Commanding Officer, 2d Supply Battalion
(3) Commanding General, 2d Force Service Support Group (REIN)
Subj: Installation of Telephone Line at Range G-4A; request for
Ref: (a) OP 5 Vol 1, Sect 4-6.4.3
(b) T/O 60A 1-1-12
(c) BO P11102.1J, Sect IV, Para 416

1. At present no permanent communication facility exist on Range G-4A. Tactical radios (PRC 77's) are currently used; however, they are often unreliable due to the geographical location of the range.
2. In light of unique disposal conditions and the wide variety of ordnance destroyed there, frequency modulation communications are often undesirable and constitute a safety hazard as stated in references (a) and (b).
3. For these reasons and the communication requirement set forth in reference (c), it is requested that consideration be given to installing a permanent telephone line at Range G-4A.

R. WAY



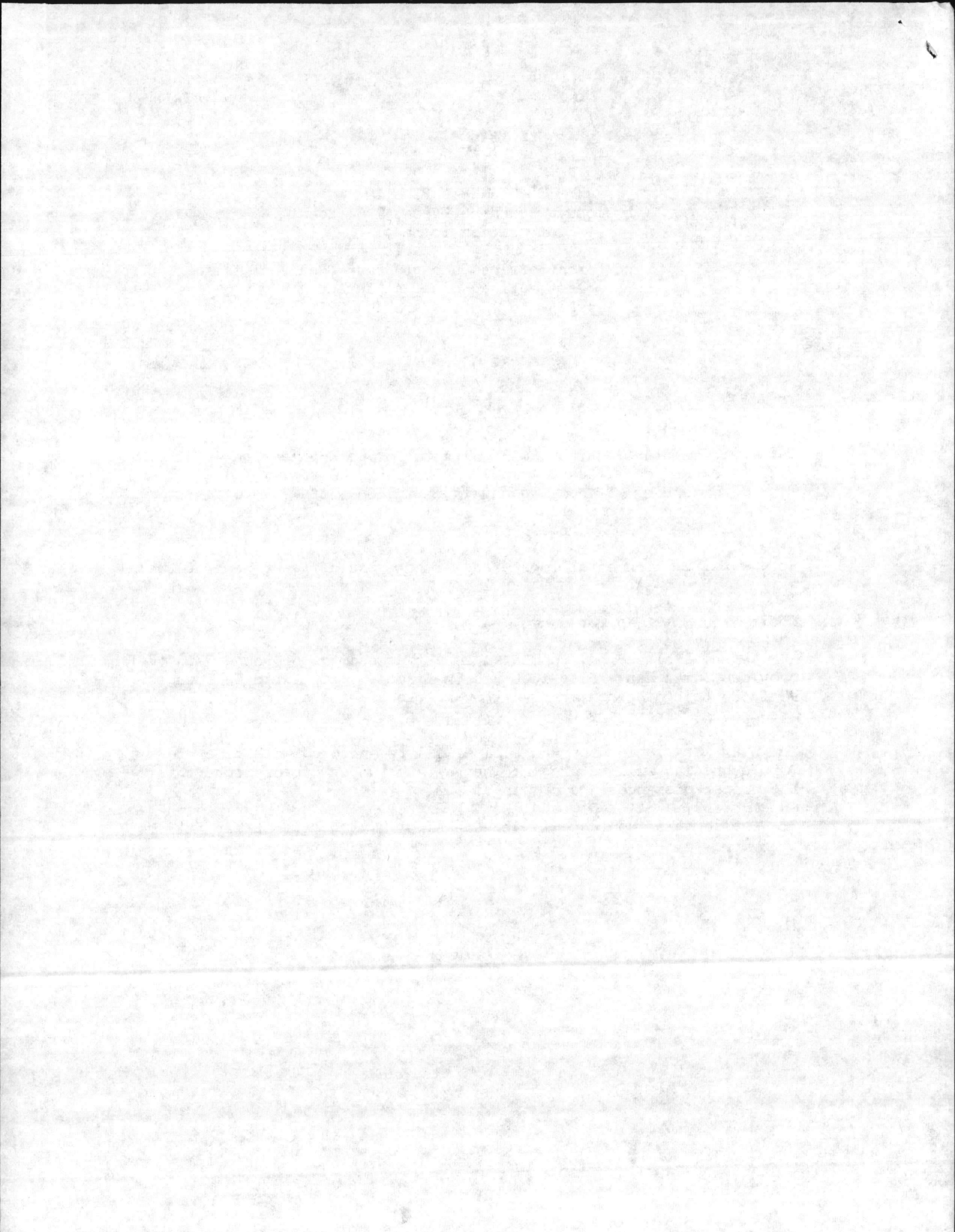
UNITED STATES MARINE CORPS
Explosive Ordnance Disposal Platoon
Ammunition Company
2nd Supply Battalion
2nd Force Service Support Group (Rein)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

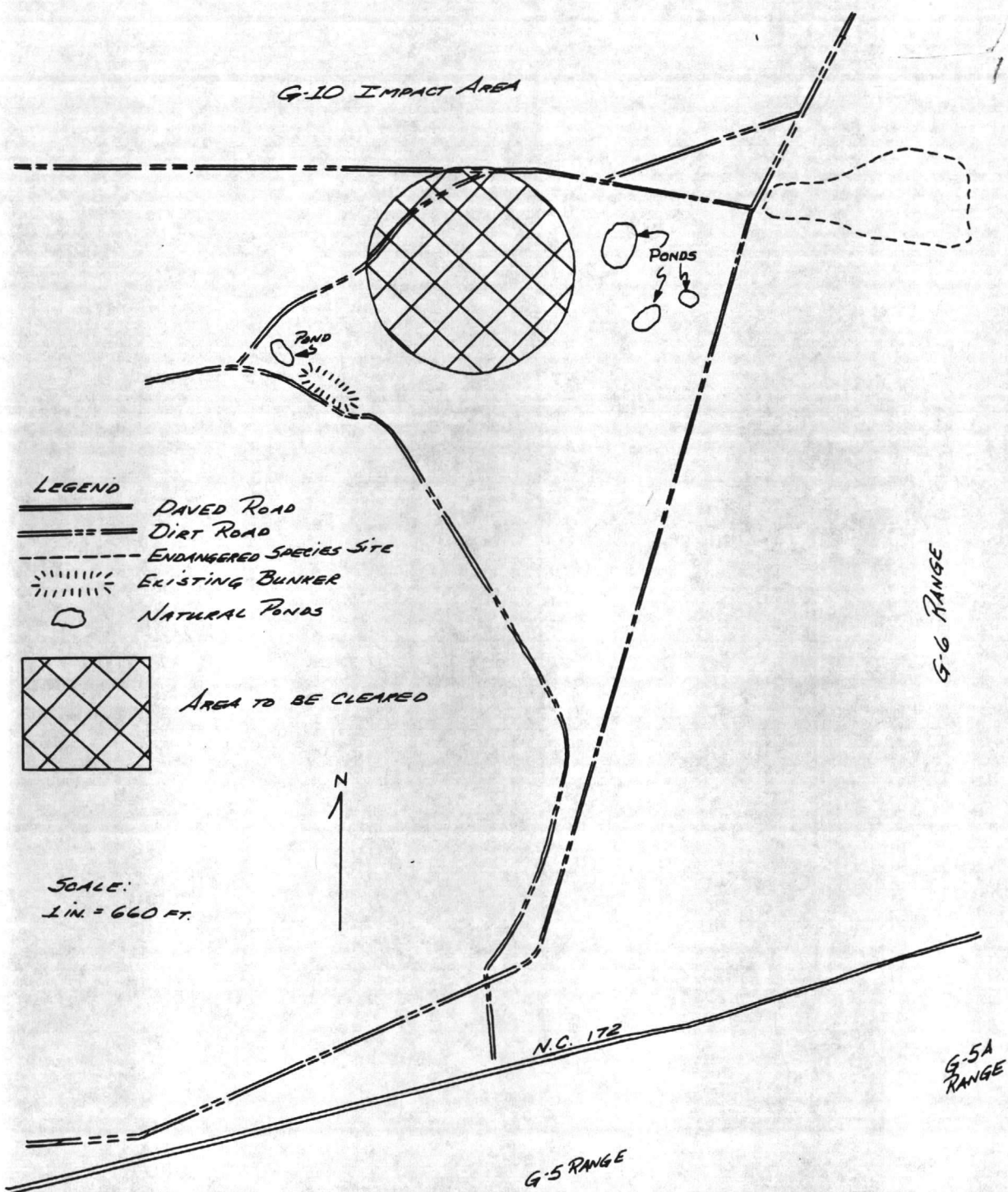
EOD/R1/adm
8020
29 Dec 1981

From: Officer-in-Charge
To: Commanding General, 2d FSSG (Attn: Group Engineering Officer)
Via: Commanding Officer, Ammunition Company
Commanding Officer, 2d Supply Battalion (Attn: S-4 Officer)
Subj: EOD Range G-4A; repair of
Ref: (a) Environmental Impact Assessment, Explosive Ordnance Disposal
Range G-4A
Encl: (1) Site Map for Range G-4A

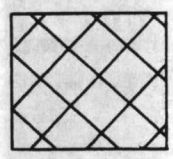
1. Approval of the Environmental Impact Assessment of Range G-4A (Ref a) provides for a Range Site 1000 Ft. in Diameter, with Grid Coordinate 93513373 being the center. All Endangered Species and Natural Ponds are shown in Enclosure (1).
2. When work begins the Range Site will be enclosed with tape and an EOD Technician will be present when work is underway to ensure that the proper distances are obtained.
3. The Point of Contact will be WO WAY or MGySgt WITT at Ext 5419/1444.

R. Way
R. WAY





- LEGEND**
- DAVED ROAD
 - DIRT ROAD
 - ENDANGERED SPECIES SITE
 - EXISTING BUNKER
 - NATURAL PONDS



AREA TO BE CLEARED

SCALE:
1 IN. = 660 FT.



SITE MAP FOR G-4A RANGE
MODIFICATION PROJECT
DRAWN BY: _____
DATE: _____

EOD

SKY
Ammo Co

4/JJR/rwc
4720
Feb ? 81

SECOND ENDORSEMENT on OIC, EOD ltr WJH:REW:rrb 1000 of 30 Jan 1981

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune (Attn: G-4)
Via: CCommanding General, 2d Force Service Support Group (Rein)(Attn: OPS-8)
Subj: Explosive Ordnance Disposal Range G-4A; clearance of

1. Forwarded.
2. The G-4A range is assigned to Explosive Ordnance Platoon by reference (a) of enclosure (1) of the basic letter. It is used for routine and emergency disposal of Class V(W)(A) material. At present, the condition of the range is unsatisfactory for this purpose, based on criteria contained in reference (b) of enclosure (1).
3. Presently, the only other location available for the purpose of explosive ordnance disposal is the K-326 area located at Verona Loop. Due to the distance of K-326 from the main magazine area and the explosives limit placed on its use, the non-availability of the G-4A range impedes the Explosive Ordnance Platoon in performing its mission of supporting units of the Tri-Command.
4. It is requested that the G-4A range be cleared in accordance with reference (b) of enclosure (1) in order to ensure its continued safe use.

J. K. PAYNE



UNITED STATES MARINE CORPS
 2D FORCE SERVICE SUPPORT GROUP (REIN)
 FLEET MARINE FORCE, ATLANTIC
 CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO
 42/RDB/ky
 4600
 9 February 1981

THIRD ENDORSEMENT on OIC, EOD ltr WJH:REW:rrb 1000 of 30 Jan 81

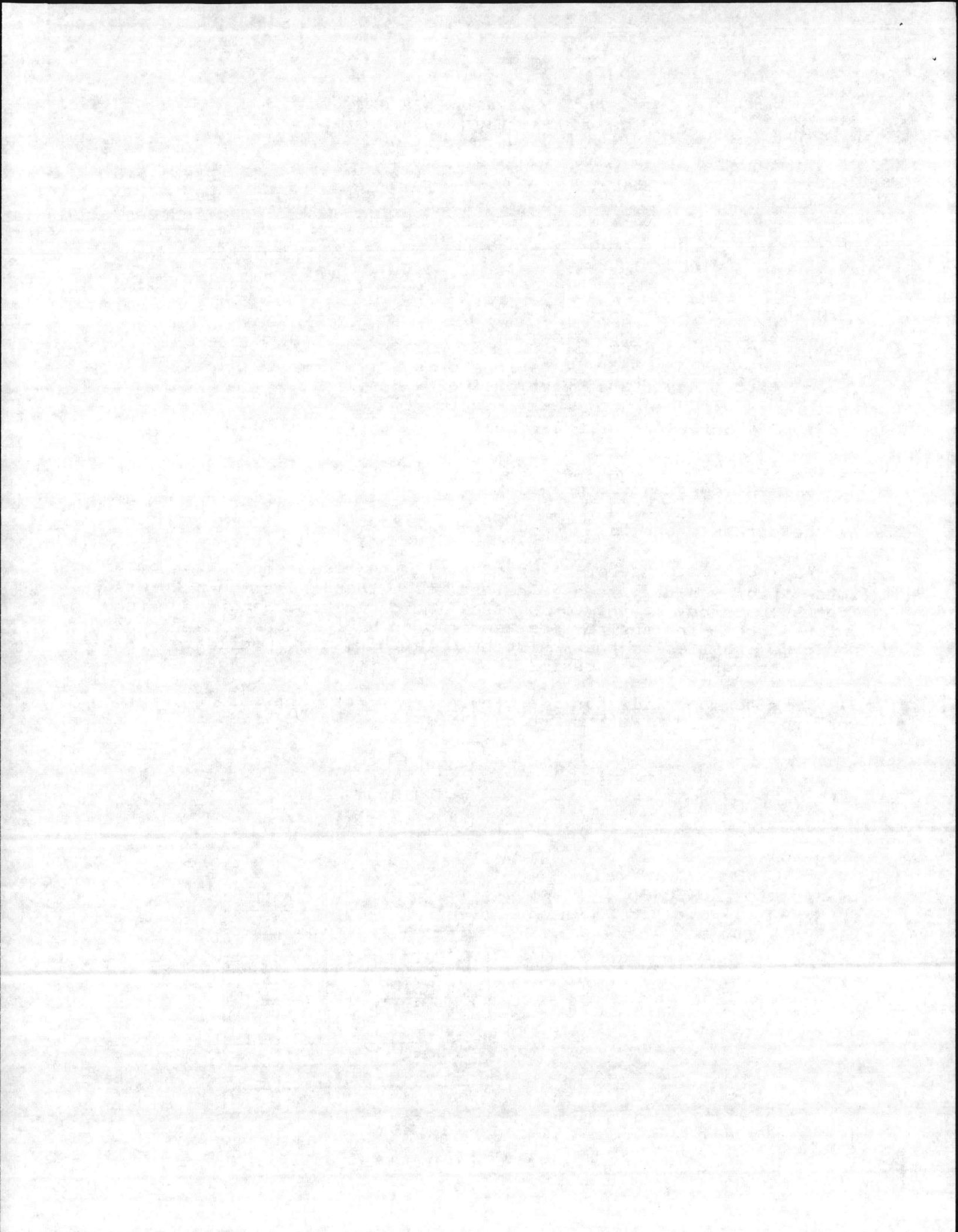
From: Commanding General
 To: Commanding General, Marine Corps Base, Camp Lejeune
 {Attn: Assistant Chief of Staff, Facilities}
 Subj: Explosive Ordnance Disposal Range G-4A; maintenance of
 Ref: {c} Telecon between A/C of S, Training, MCB and EngrSptO,
 2dFSSG of 6 Feb 1981

1. Readdressed and forwarded.
2. During the course of reference {c}, the requirements for detailed information was discussed. The Assistant to the Assistant Chief of Staff, Training, Marine Corps Base, indicated that detailed information, concerning the repairs required to upgrade the G-4A Range, would be provided to the Assistant Chief of Staff, Facilities, Marine Corps Base as soon as possible.
3. This command will consider any appropriate portions of the repair work for accomplishment by troop labor.

R. D. Bourque
 R. D. BOURQUE
 By direction

Copy to:
 CO, 2d SupBn
 CO, AmmoCo, 2d SupBn
 OIC, EOD, AmmoCo, 2d SupBn
 OIC, MCB, EOD

12 FEB 81	INFO	ACT	INT
CO			
XO			
1st Sgt			Bur
Admin			Ren
Ops			
Supply			
Co Gunny			
EOD			
NOP			



UNITED STATES MARINE CORPS
Explosive Ordnance Disposal Platoon
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

WJH:REW:rrb
1000
30 Jan 81

From: Officer in Charge
To: Commanding Officer, Ammunition Company

Subj: Explosive Ordnance Disposal Range G-4A

Ref: (a) NAUSEA OP 5 Volume 1
(b) OIC EOD Ltr WJH:REW:rrb over 1000 of 31 Dec 1980

Encl: (1) OIC EOD Ltr WJH:REW:rrb over 1000 of 31 Dec 1980

1. On 26 January, while effecting liaison with the OIC of the Main Magazines, I was introduced to a Mr. R.P. LANDRY, GS-13, NAVSEA System. Mr. LANDRY was conducting the annual Explosive Safety Survey for MCB Facilities/Ranges and expressed an interest in EOD's disposal range G-4A. After some discussion it was concluded that an inspection of G-4A would be in the Marine Corps best interest. On 28 January the range was inspected. It was determined that this site is completely unsatisfactory as a routine disposal area and in its present state meets very little of the criteria outlined in chapter 11 of reference (a). Mr. LANDRY has debriefed the Chief of Staff, MCB. I assume there will be severe restrictions placed upon the future use of this range, until the necessary corrections are made. In any case it is my intention to terminate routine disposal operations at G-4A. This will not only limit our operational and training mission but will have some impact upon MCB, EOD and the Tri-Command as well.

2. Reference (b) attached as enclosure (1) was forwarded via the chain on 31 Dec 1980. To date subsequent endorsements have not been received. Accordingly, and in light of the above, it is recommended that 2d Supply Battalion and 2d FSSG be apprised of our current situation.


W. J. HISLE

Copy to: MCB, EOD Officer

File
COPY!

UNITED STATES MARINE CORPS
Explosive Ordnance Disposal Platoon
Ammunition Company
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

WJH:REW:rem
1000
31 Dec 1980

From: Officer in Charge
To: Commanding Officer, 2d Supply Battalion
Via: Commanding Officer, Ammunition Company

Subj: Clearance of Explosive Ordnance Disposal, Demolition
Range, G-4A

Ref: (a) BO P11102.1J
(b) NAVSEA OP 5 Volume 1

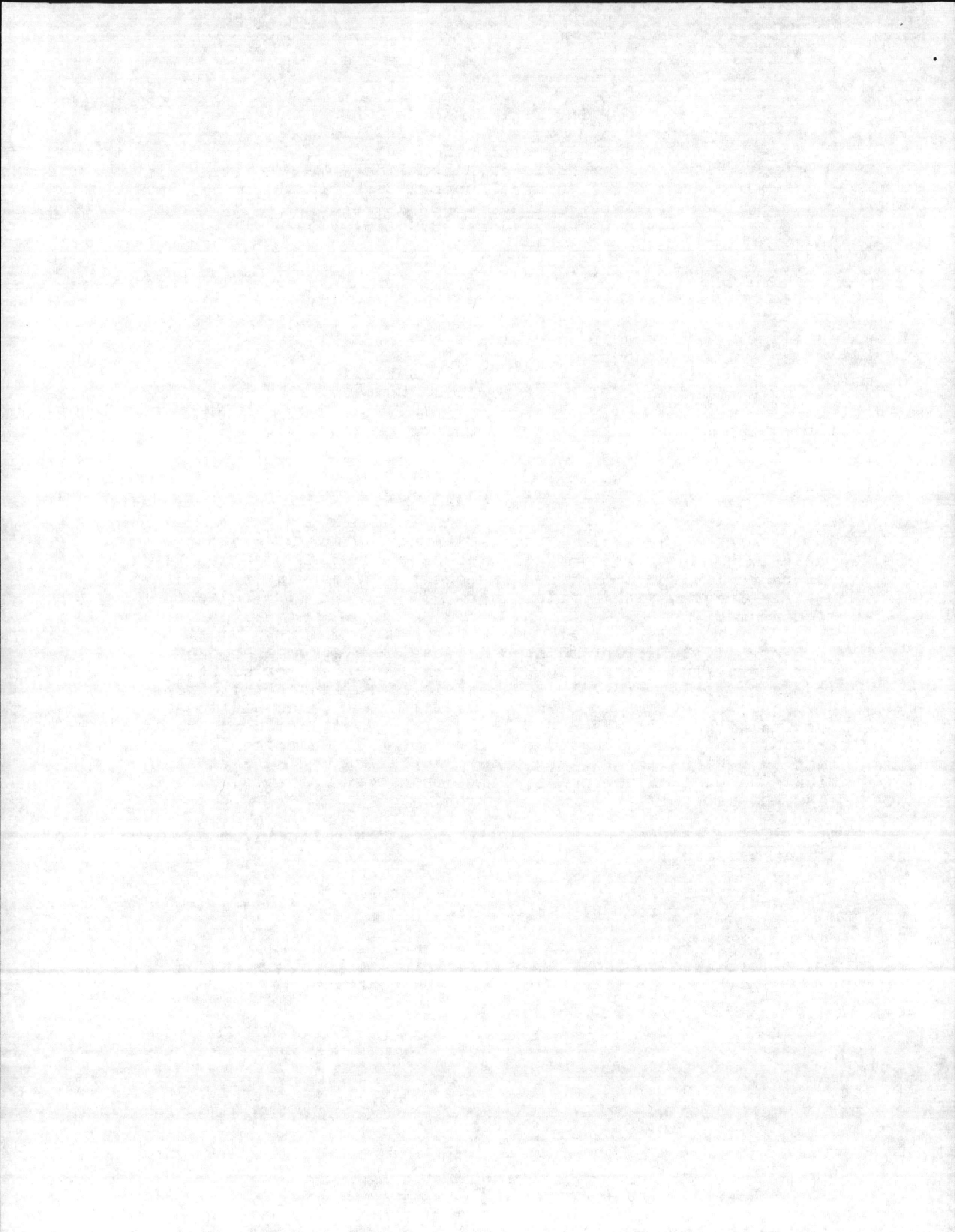
1. Reference (a) assigns range G-4A to the 2d EOD platoon. This range is used for routine and emergency disposal of Class V(W)(A) assets to include Improvised Explosive Devices (IED's). Range G-4A is located within grid square 9333 of the Camp Lejeune special map.

2. Very little if any maintenance has been accomplished on G-4A over the years. As a result the area is grown over with vegetation and combustible material. Chapter 11 of reference (b) discusses disposal operations and lists the criteria for detonation and burning sites. In essence G-4A in its present state is unsuitable as a disposal area. Moreover, the recent IG inspector listed this fact as a significant discrepancy, specifically the perimeter of cleared area from the point(s) of detonation must be 500 feet (1000ft diameter).

3. In view of paragraphs 1 and 2 above the following recommendations are made:

- a. That 2dFSSG (G-4) and Marine Corps Base (Training Facilities) be apprised of this situation.
- b. That in as much as earth moving/clearing equipment is organic to 2dFSSG, consideration be given towards a self-help project vice bid and contract.

W. J. RISLE



2nd PLT.

DEPARTMENT OF THE NAVY

UNITED STATES MARINE CORPS

ENVIRONMENTAL IMPACT ASSESSMENT

EXPLOSIVE ORDNANCE DISPOSAL RANGE G-4A
(Project Title)

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542
(Military Installation)

18 MARCH 1981
(Date)

Prepared by:

EOD OFFICER, MCB

(Title)

ENVIRONMENTAL IMPACT ASSESSMENT

Submitting DoD Component: Department of the Navy

Installation: Marine Corps Base, Camp Lejeune, N. C. 28542

Project Title: Explosive Ordnance Disposal Range G-4A

Date of Submission:

1. Introduction

a. Project Description

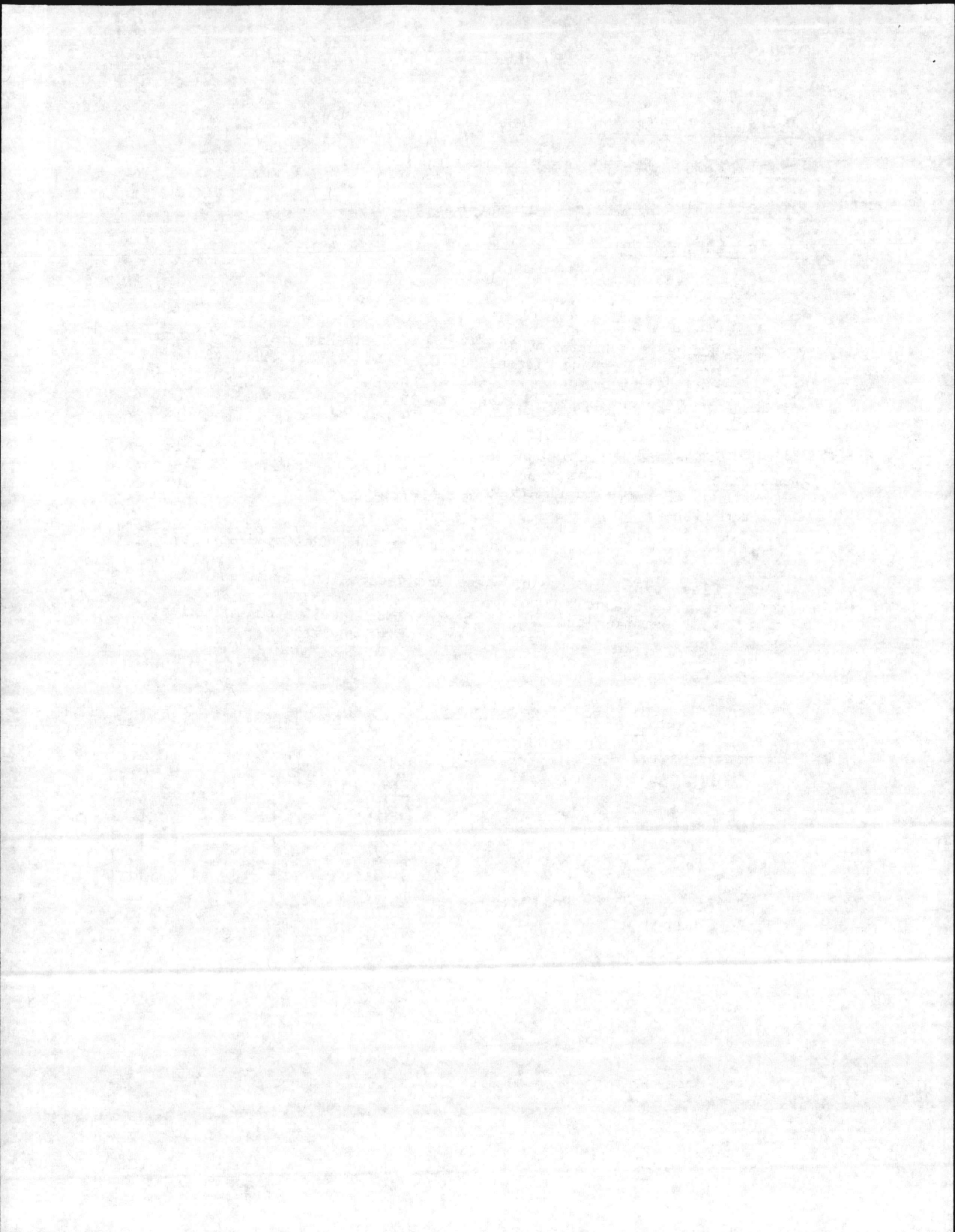
The G-4A Range is assigned to the Explosive Ordnance Disposal Platoon for routine and emergency disposal of Class V(W)(A) material and improvised explosive devices. Range G-4A is located within Grid Square 9333 of the Camp Lejeune Special Map and was approved and designated by NAVSEASYSKOM as a Class "B" Disposal Site in 1974.

b. A recent inspection by NAVSEASYSKOM revealed that it no longer met criteria established by current regulations for conduct of disposal operations. To meet requirements the following modifications must be accomplished:

1. Survey to determine range perimeter and quantity-distance Arc.
2. Clear disposal area of trees and vegetation for a radius of 500 ft. from detonation point.
3. Fill existing craters to obtain flat, level detonation site.
4. Fortify existing personnel protective shelter.

2. Relationship of Proposed Action to Land Use Plans, Policies and Controls for the Affected Area:

	Conforms With	No Plans For Area	Conflicts With
a. Land Use Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Clear Air Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Federal Water Pollution Control Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



3. The probable Impact of the Proposed Action on the Environment:

a. Assessment of the positive and negative effects of the proposed action as it affects both the national and/or the international environment. The potentially significant effect of this action is that it:

(1) ~~Will~~/will not cause emissions into the atmosphere of toxic or hazardous substances or significant amounts of other pollutants. It ~~will~~/will not significantly reduce the amount of pollution in the atmosphere?

(2) ~~Will~~/will not cause the creation of excessive noise, when considering the proximity and likely effects of the noise on humans or wildlife?

(3) ~~Will~~/will not introduce toxic or hazardous substances or significant amounts of chemicals, organic substances or solid wastes into bodies of water, on land or otherwise effect water or soil quality?

(4) ~~Will~~/will not significantly alter the rate of sediment deposit or temperature of a body of water?

(5) ~~Will~~/will not require the use of non-renewable energy sources, e.g., fossil fuels, etc., in apparently excessive or disproportionate amounts?

(6) ~~Will~~/will not result in a significant destruction of vegetation, wild or marine life?

(7) ~~Will~~/will not affect, beneficially or adversely, other forms of life or the ecosystems of which they are a part?

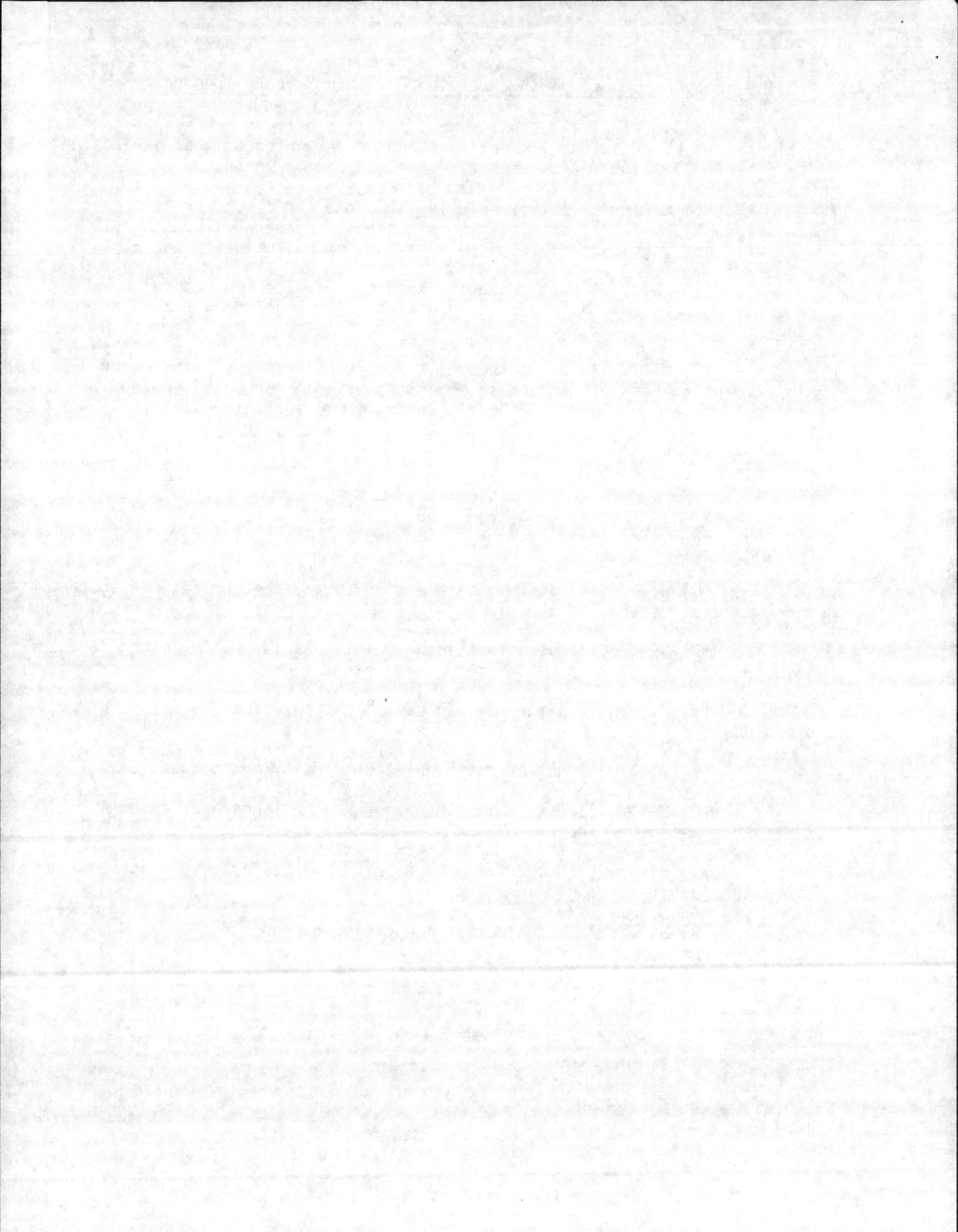
(8) ~~Will~~/will not result in contamination or deterioration of food or food sources?

(9) ~~Will~~/will not affect population density and congestion?

(10) ~~Will~~/will not cause a major change in landscape, extensive clearing, paving or excavation?

(11) ~~Will~~/will not affect, beneficially or adversely, neighborhood character (aesthetic qualities) and zoning?

(12) ~~Will~~/will not alter area hydrologic properties?



b. The proposed action will have a potentially significant effect on the following:

<u>ITEM</u>	<u>Favorable</u>	<u>Adverse</u>	<u>No Effect</u>
Traffic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Community Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Waste Treatment Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Land Management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Solid Waste Disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area Appearance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (See Attachment _____)			

4. Alternatives to the Proposed Action

- There is no feasible alternative.
- Only feasible alternative is to take no action. The effects of this alternative are discussed in Attachment _____.
- Various alternatives and their effects are discussed in Attachment _____.

5. Any Probable Adverse Environmental Effects Which Cannot Be Avoided Should The Proposal Be Implemented

- No adverse effects on the environment are anticipated.
- Probable adverse effects are discussed in Attachment _____.

6. Relationship Between Local Short-Term Uses of the Environment and the Maintenance and Enhancement of Long-term Productivity

No change in short-term use.

No change in the maintenance and/or enhancement of long-term productivity.

Adverse effects on the environment will occur only during the construction period and these will/will not create permanent or long-lasting adverse effects.

The proposed action will enhance the short-term use of resources by:

Abating existing or potential pollution.

Enhancing the area appearance.

Reducing utility requirements

Improvements in operational efficiency.

Improvements in habitability of existing facilities.

Other: _____

Long-term productivity will be enhanced by:

Abating existing or potential pollution. (Dust)

Reducing utility requirements.

Improvement in operational efficiency.

Other: _____

7. Irreversible and Irretrievable Commitments of Resources Which Would Be Involved in the Proposed Action Should It Be Implemented

No significant irreversible or irretrievable commitment of resources.

No destruction of identified archeological sites or sites having possible historic or architectural interests.

No effect on known endangered species of wildlife.

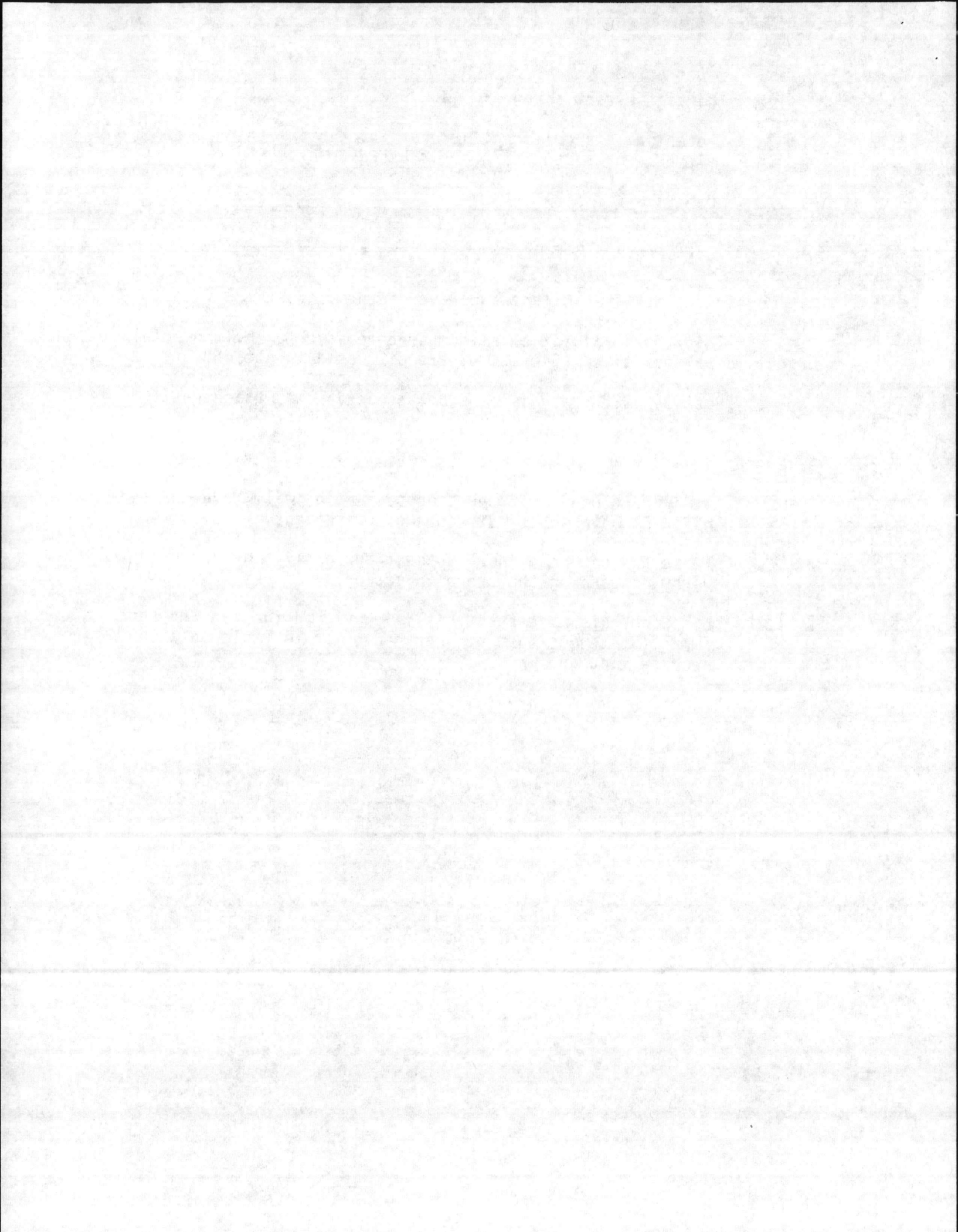
- No significant change in land use.
- Potentially significant irreversible or irretrievable commitments or resources are discussed in Attachment _____.
- Other: _____

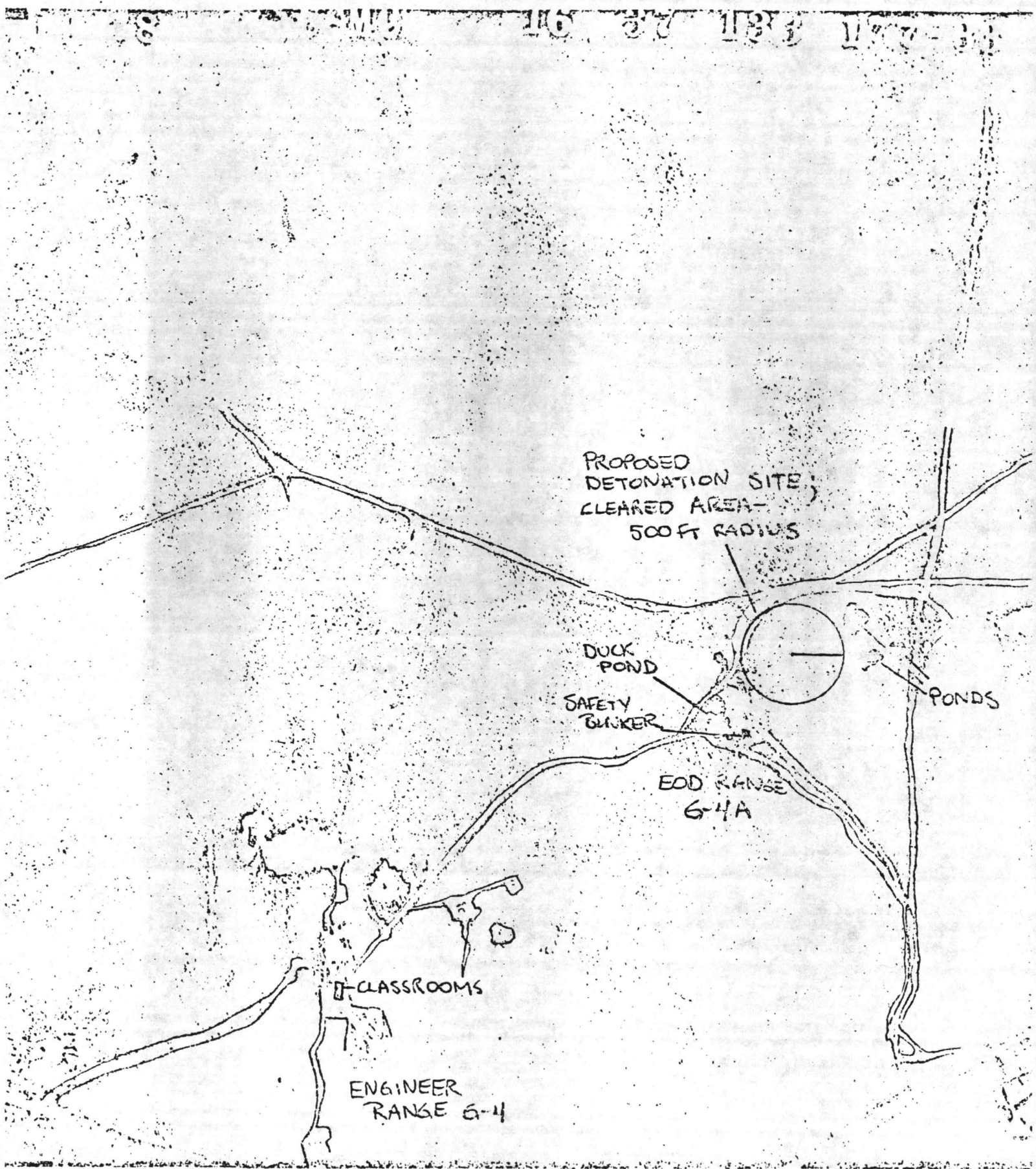
8. Considerations That Offset the Adverse Environmental Effects

- a. This course of action as compared to adverse environmental effects of alternatives (Section 4) are discussed in Attachment _____.
- b. Cost benefit analysis of proposed action is Attachment _____.

9. Summary

- It is concluded that the proposed action will have no significant adverse effects on the environment.
- There has not been, nor is there currently, any known controversy concerning the proposed action.
- Based on this assessment, it is concluded that an Environmental Impact Statement must be prepared prior to implementation of the proposed action.

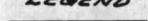


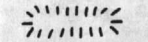



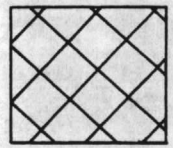


BO 11000.1A
06 MAY 1981

G-10 IMPACT AREA

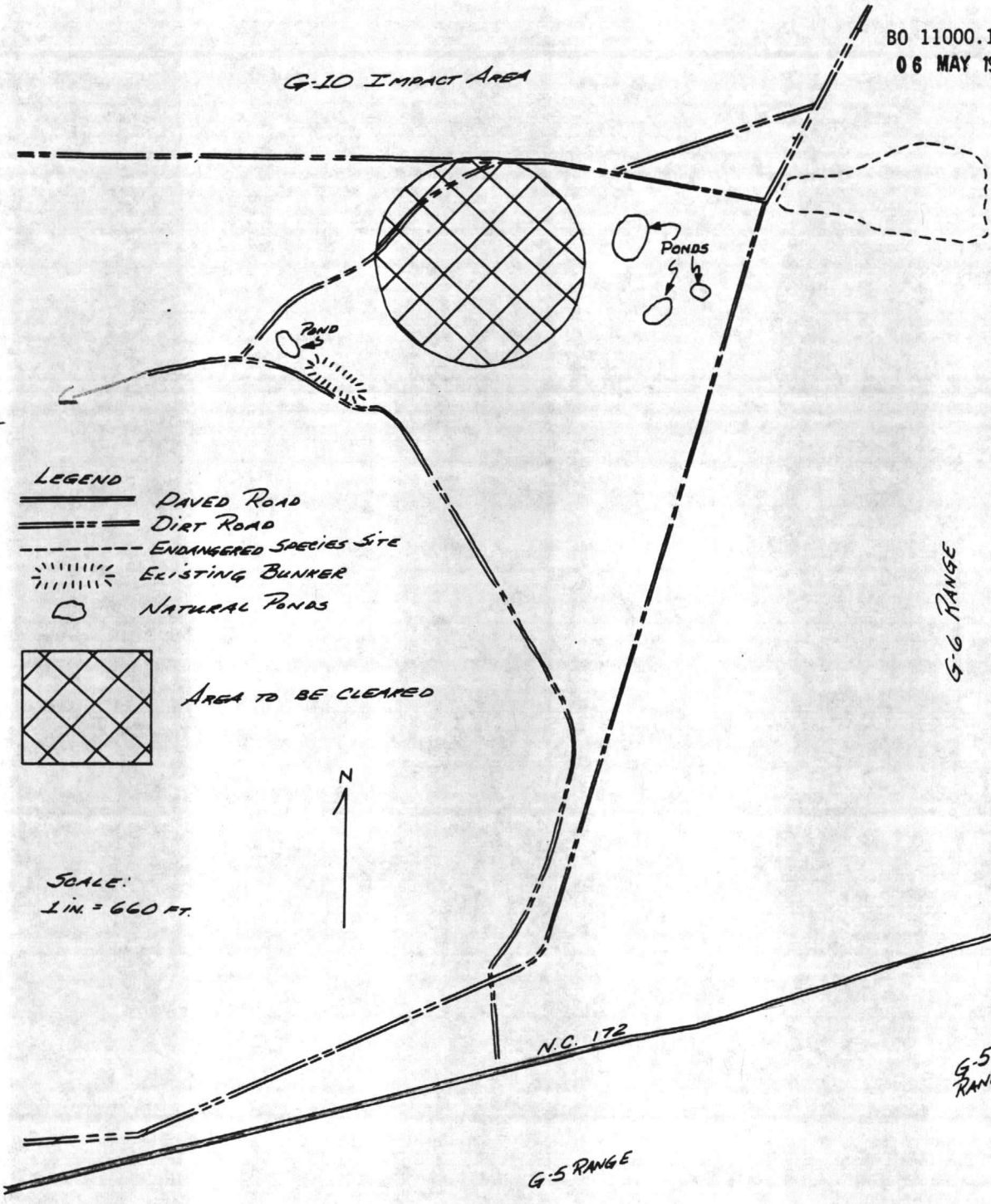
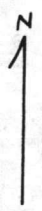
To
G-4

- LEGEND**
-  PAVED ROAD
 -  DIRT ROAD
 -  ENDANGERED SPECIES SITE
 -  EXISTING BUNKER
 -  NATURAL PONDS



AREA TO BE CLEARED

SCALE:
1 in. = 660 FT.



SITE MAP FOR G-4A RANGE
MODIFICATION PROJECT
DRAWN BY: _____
DATE: _____



DEPARTMENT OF THE NAVY

NAVAL SEA SUPPORT CENTER ATLANTIC DETACHMENT

ST JULIENS CREEK ANNEX

PORTSMOUTH VIRGINIA 23702

810:RPL:fk

8020

Ser

From: Officer in Charge, Naval Sea Support Center, Atlantic Detachment
To: Commandant of the Marine Corps, Navy Department, Washington, DC
20380 (Code LMG) (Code ASL)
Via: Commanding General, Marine Corps Base, Camp Lejeune, NC 28542
Subj: Explosives Safety Survey of Marine Corps Base, Camp Lejeune, NC; report of
Ref: (a) NAVSEACENLANT ltr 800:RPL:fk 8020 Ser 1920 of 13 Jun 79
(b) NAVSEA OP 5, Volume 1, Fourth Revision
(c) CNO ltr Ser 411F/721038 of 7 Aug 78
(d) CO Engineering School ltr CSR/bt 11000 of 30 Aug 78 (NOTAL)
(e) NAVORD-ORD048E2/469:ANC of 7 Jun 74 (NOTAL)
Encl: (1) Magazine Storage Assignments and Types of Ammunition Stored at
Marine Corps Base, Camp Lejeune, NC, as of 28 January 1981
(2) Status and Comment Concerning the Waiver in Effect at Marine Corps
Base, Camp Lejeune, NC, as of 28 January 1981

1. The subject survey was conducted 26 through 28 January 1981, by Mr. Richard P. Landry, NAVSEACENLANT DET Safety Specialist. During and at the conclusion of the survey, details of this report were discussed with the Base Ordnance Operations Officer, Captain L. O. Vanmeter, USMC; Executive Officer Engineering School, Lieutenant Colonel J. Butler, USMC; Engineering School (CEIC), Captain B. Murphy, USMC; Rifle Range Commanding Officer, Major M. B. Johnson, USMC; G4 Demolition Range Officer, Captain W. J. Hisle, USMC; Assistant Chief of Staff Logistics, Colonel R. T. Shigley, USMC; Supply Maintenance Manager, Mr. S. C. Parker, and Base Safety Director, Mr. R. J. Andrews.

2. The magazine assignments and types of ammunition currently stored at Marine Corps Base, Camp Lejeune, North Carolina are contained in enclosure (1).

3. Principal items of interest, comments, and recommendations were as follows:

a. Physical Security of Sensitive Ordnance

A comprehensive AA&E physical security survey was being conducted during time of this survey. Details of the security survey will be forwarded by separate correspondence.

b. Explosives Safety Survey

(1) Recommendations made by reference (a) and informal recommendations made during the last survey in May 1979 had been complied with, except for completion of the vehicle holding area at the main ammunition dump, and replacing the existing temporary school structures at the Engineering School in order to eliminate the violation of explosives quantity-distance arcs of reference (b). Waiver MCEC Camp Lejeune 1-78 authorizes the deviation from the requirements of reference (b).

(2) Two explosives laden vehicle holding areas had been established at the main ammunition dump. Due to the proximity of nearby magazines, distances required by Table 5-9 of reference (b), the net explosives weight (NEW) for each area is limited to 10,000 pounds. Work Request Number 70, issued 17 October 1980 by the ammunition branch, requested that primary lightning protection systems be installed at the two holding areas. These areas cannot be utilized until these systems are installed as required by paragraphs 4-9.1.3 of reference (b).

(3) Reference (c) requested action be initiated to eliminate the current waiver at the Engineers School classroom area. Reference (d) requested that a Military Construction Project be developed to replace the existing temporary structures with new academic facilities which would eliminate the current waiver. Authorization for preliminary design planning of MILCON P-779, Applied Instruction Building Improvements, for fiscal year 1983, was granted 14 November 1980. Authorized amount is \$1,050,000. Thirty-five per cent design to be completed by 1 April 1981, but not to exceed 1 January 1982, to assure that project is not deleted by Congress due to lack of design effort.

(4) Reference (e) authorized utilization of the G-4 Explosives Ordnance Demolition Burn Range. A visual inspection of the range revealed the following discrepancies which will have to be corrected to comply with regulations of Chapter 11 of reference (b):

(a) A cleared area, 500 foot radius, was not provided for the demolition/burn site.

(b) A Comprehensive Standard Operating Procedure (SOP) covering the disposition of items to be disposed of was not available.

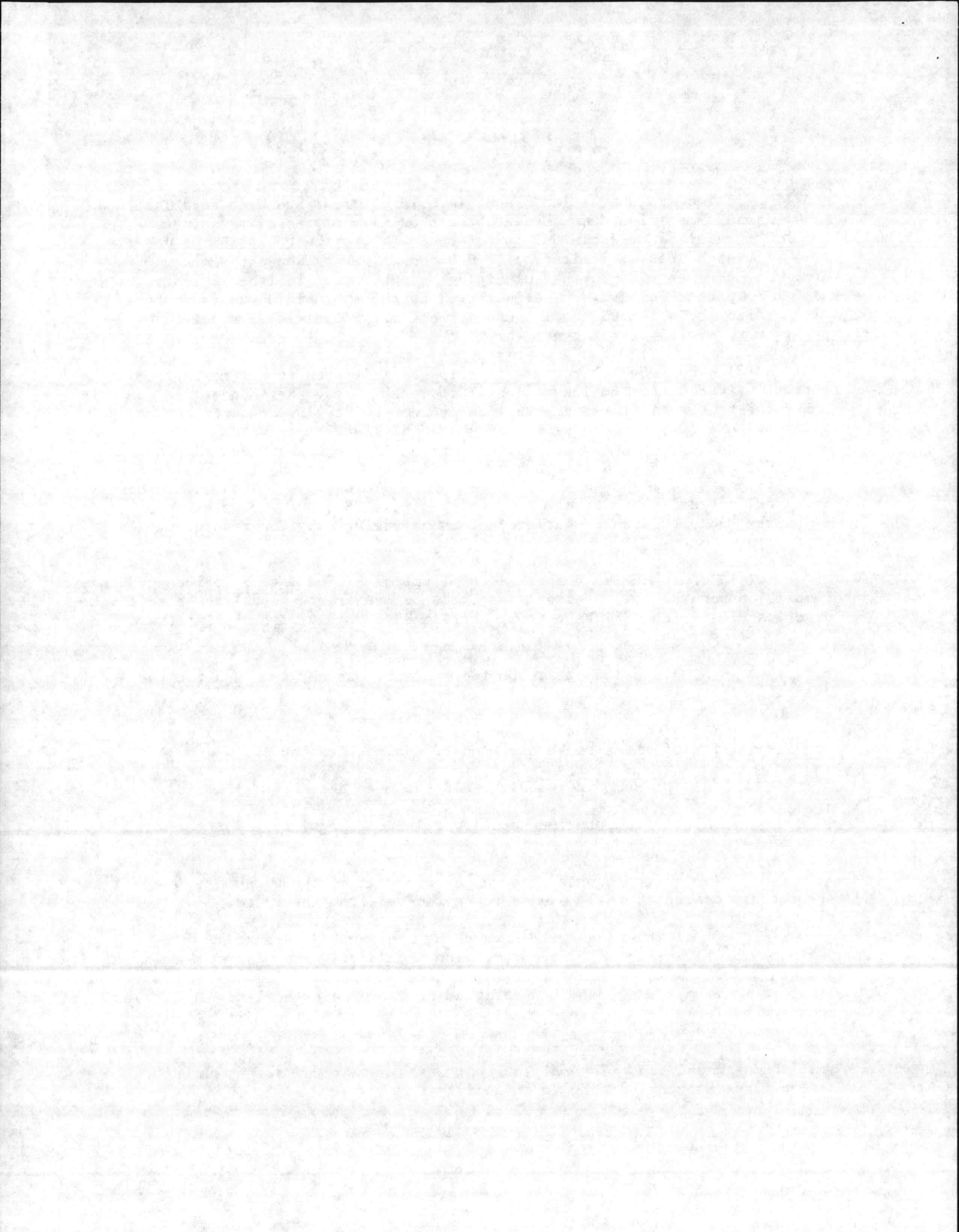
(c) The personnel shelter did not meet design requirements.

(d) Instrumentation capable of indicating wind velocity was not provided.

(e) Large amounts of scrap ordnance items (bomb casings, projectiles, pyrotechnic casings; etc.), needed to be removed from the range.

1 The range will have to be a class "B" detonating site, maximum explosives limits 500 pounds. The proximity of the nearest inhabited building (3000 feet) from the range will necessitate lowering the explosives limit to maximum 500 pounds, and designating the area as a Class "B" site as required by Table 11-2 of reference (b).

2 Facilities were not available to dispose of unserviceable small arms ammunition. The only current means authorized are by through a retort furnace or by burning in an incinerator.



(5) There were several trees which are of sufficient height to fall across the magazines located in the Rifle Range Detachment. Paragraph 6-4.1.2.b of reference (b) requires removal of these trees.

(6) Several required ordnance publications on hand at the Engineer School Range were not current. An example was NAVSEA OP 5, Volume 1, Fourth Revision which did not have Change 9 issued 15 June 1980. This was a substantial change and is required to enable personnel to comply with existing regulations. It was recommended that required current changes be issued without long delays.

(7) Vegetation control and safety conditions in the magazine areas were good.

(8) Status and comment concerning the explosives safety waiver in effect at Marine Corps Base, Camp Lejeune are included in enclosure (2).

4. The cooperation of all personnel contacted during the survey was noteworthy and appreciated. The efforts of the Base Safety Director in arranging the visit itinerary were greatly appreciated.

Copy to:
CHNAVMAT (MAT OOF)
COMNAVSEASYS COM (SEA-04H)
NAVSAFECEN
CNO (OP 41)

MAGAZINE STORAGE ASSIGNMENT AND
TYPES OF AMMUNITION STORED AT MARINE
CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
AS OF 28 JANUARY 1981

a. MAGAZINES

Six 24' x 48' aboveground; two 100' x 40' aboveground; forty-one 40' x 25' earth-covered, not barricaded; fourteen 10' x 14' earth-covered, barricaded; two 10' x 25' aboveground; two 10' x 20' aboveground; four 10' x 14' earth-covered, barricaded, and one 4' x 3' earth-covered, barricaded.

b. AMMUNITION TYPES

Class 1, Division 1, bombs, blasting caps, demolition items, detonators, projectiles, rockets/missiles

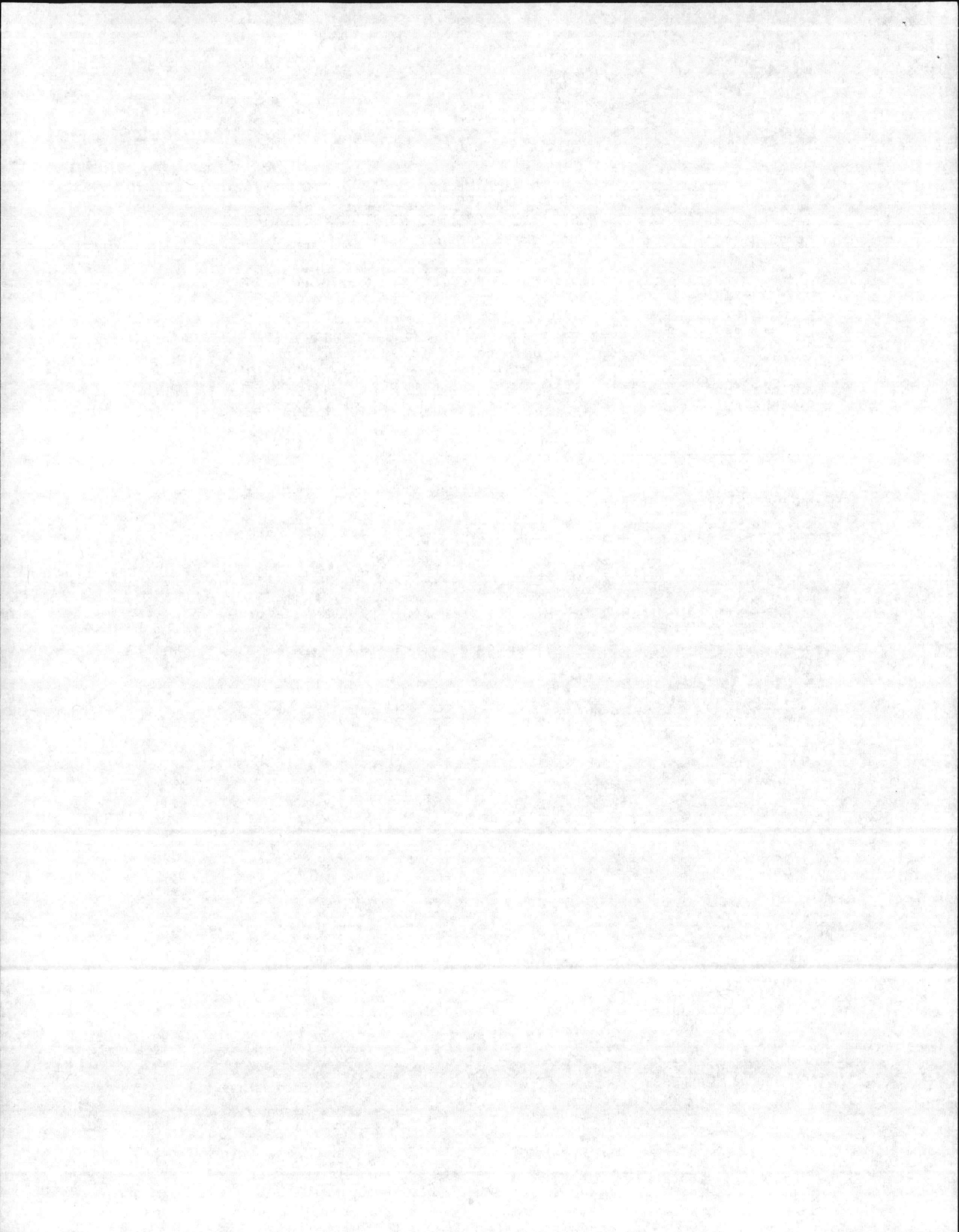
Class 1, Division 2 (12) projectiles WP

Class 1, Division 2 (04) grenades WP, fixed ammunition

Class 1, Division 3, pyrotechnics, rocket motors

Class 1, Division 4, small arms, chemicals

Enclosure (1)



STATUS AND COMMENT CONCERNING EXPLOSIVES
SAFETY WAIVER IN EFFECT AT MARINE CORPS
BASE, CAMP LEJEUNE, NC AS OF 28 JANUARY 1981

<u>WAIVER NO.</u>	<u>DESCRIPTION</u>	<u>AUTHORITY</u>
MCES Camp Lejeune 1-78	Authorized deviation from the requirements of NAVSEA OP 5, Volume 1, Fourth Revision to permit use of the Engineer classrooms simultaneously with operations in the magazine area. Waiver expires 30 November 1982	CNO ltr Ser 411F/ 734306 24 November 1980

Comment: Under existing conditions waiver is needed and considered valid.

File
Wills

FILE

3F/HAK/Jlh
8027
2 Apr 1974

From: Commanding General
To: Commander, Naval Ordnance Systems Command, (Code 048), Department of the Navy, Washington, D. C. 20360

Subj: Approval of Ammunition/Explosives Disposal Areas; request for

Ref: (a) BUWeps ltr F-12:HMR of 15 Sep 61
(b) BO P8023.3C
(c) BO P11102.1
(d) NavOrd OP 5, Vol I
(e) USAFETAC TN 71-3

Encl: (1) Camp Lejeune map
(2) Drawing of range K-326
(3) Drawing of range G-4A

1. This command has blanket authority, as established by reference (a), to dispose of unserviceable ammunition aboard Camp Lejeune, North Carolina. An up-date of this authorization is desired, since the BUWAVEPS Department has been replaced by Naval Ordnance Systems Command.

2. As authorized by references (b) and (c), two disposal areas have been established aboard Camp Lejeune, for routine and emergency destruction of ammunition/explosives by qualified personnel. The two disposal areas meet the criteria established by reference (d), for burning/detonation sites. Enclosures (1) thru (3) define the two disposal sites and show their locations in relation to magazines, inhabited buildings and main traveled roads. It is requested the two disposal areas be approved for burning/detonation sites.

3. During the past 15 months, this command has utilized the Blast Focusing Method for determining the net high explosive weight of mass detonations within the impact areas and disposal sites. The results of this method have proven to be more effective than a set explosive weight, as directed by reference (a), because the effects of the atmospheric conditions on the explosion are predicted prior to the detonation and the explosive weight of the prediction is not exceeded. Since February 1972, when the procedures were put in use, we have experienced a dramatic decrease in the number of complaints and/or damage claims, due to the reliability of blast focusing. The blast focusing predictions

w/o encl

3F/HAK/jlh
8027
2 Apr 1974

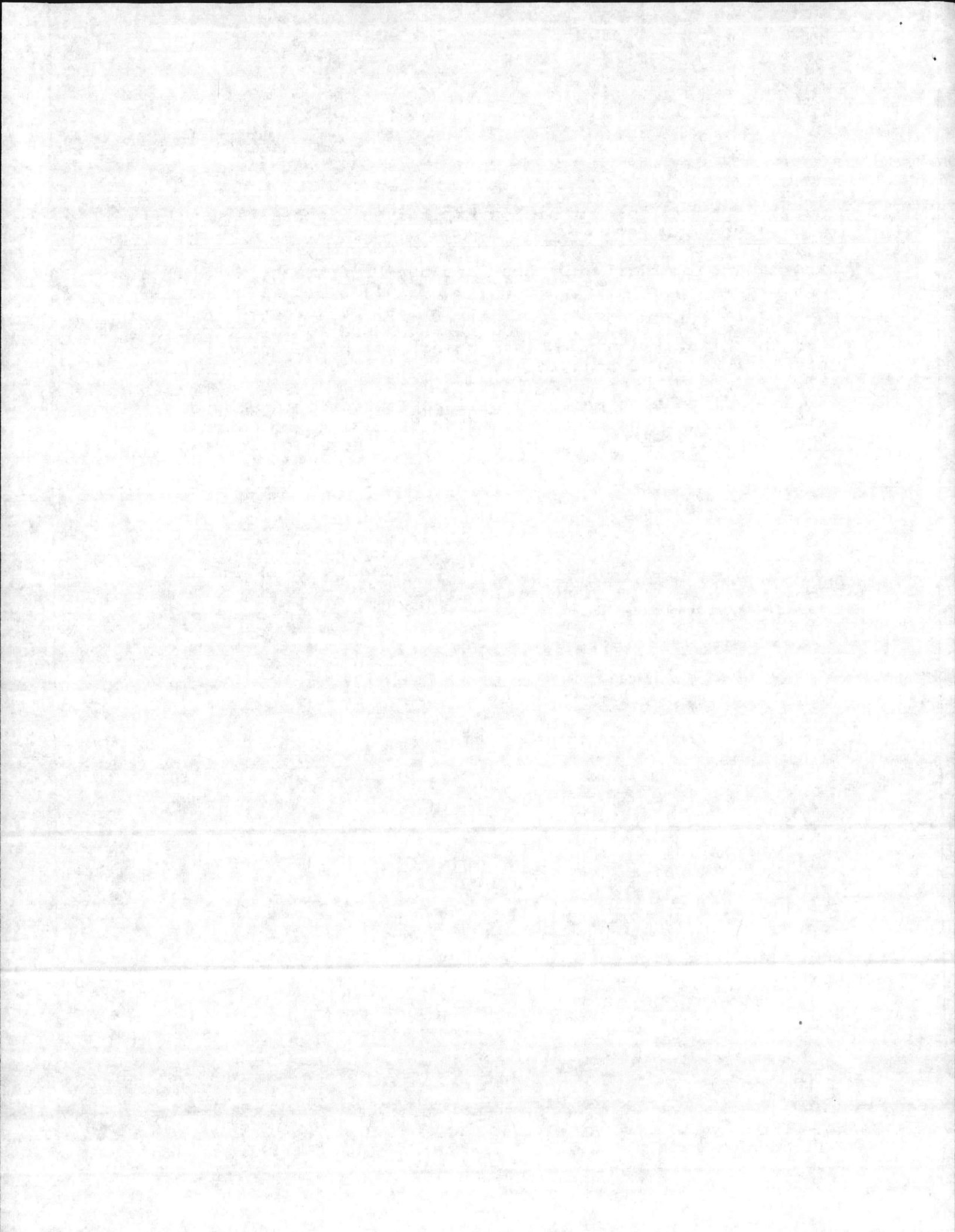
Subj: Approval of Ammunition/Explosives Disposal Areas;
request for

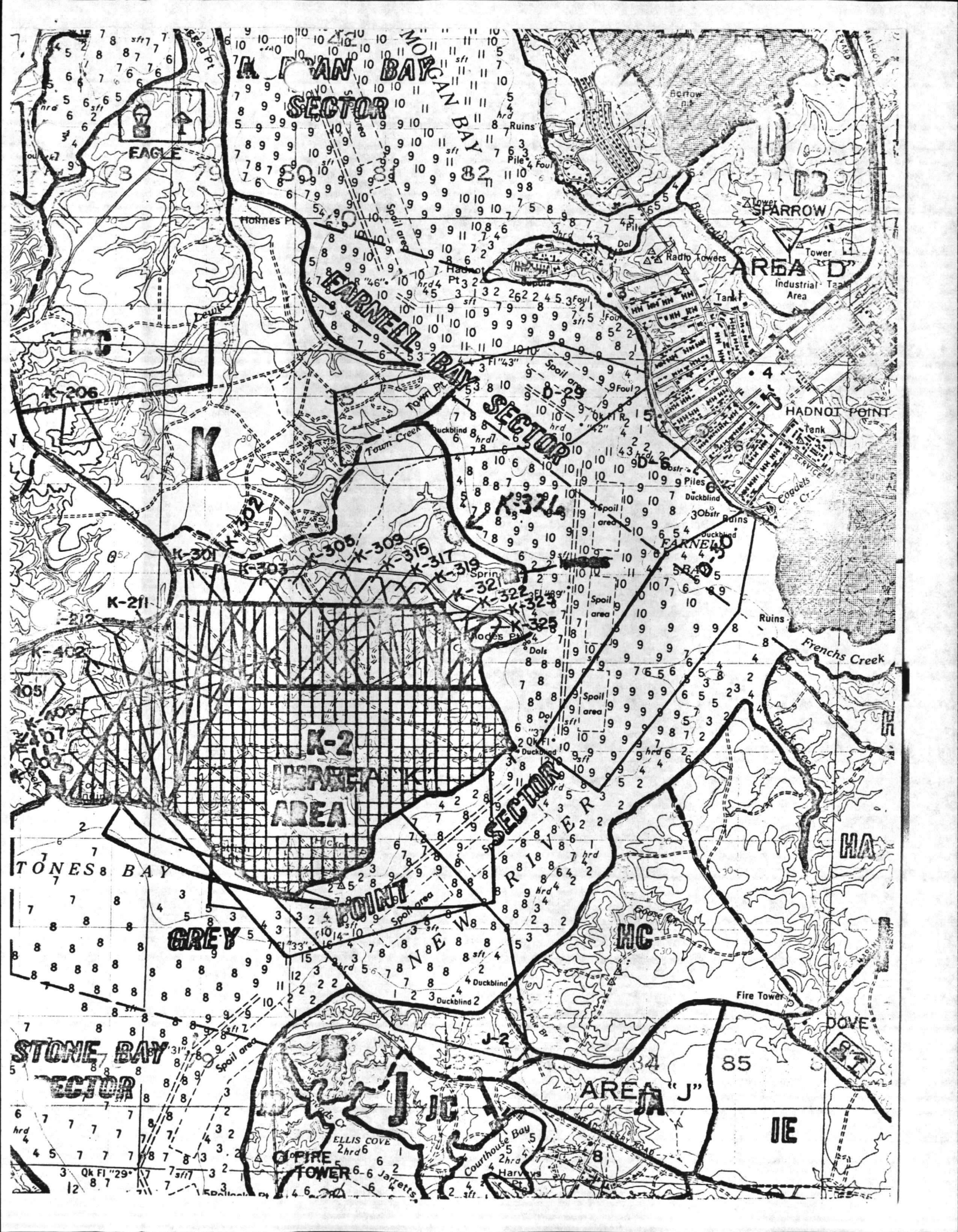
are made twice daily, by the Aerology Department, MCAS(H) New River, using reference (e) as a guide. It is requested the 40-pound high explosive limitation, as directed by reference (a), be deleted and this command be authorized to use the Blast Focusing Method to establish the net explosive weight for detonations.

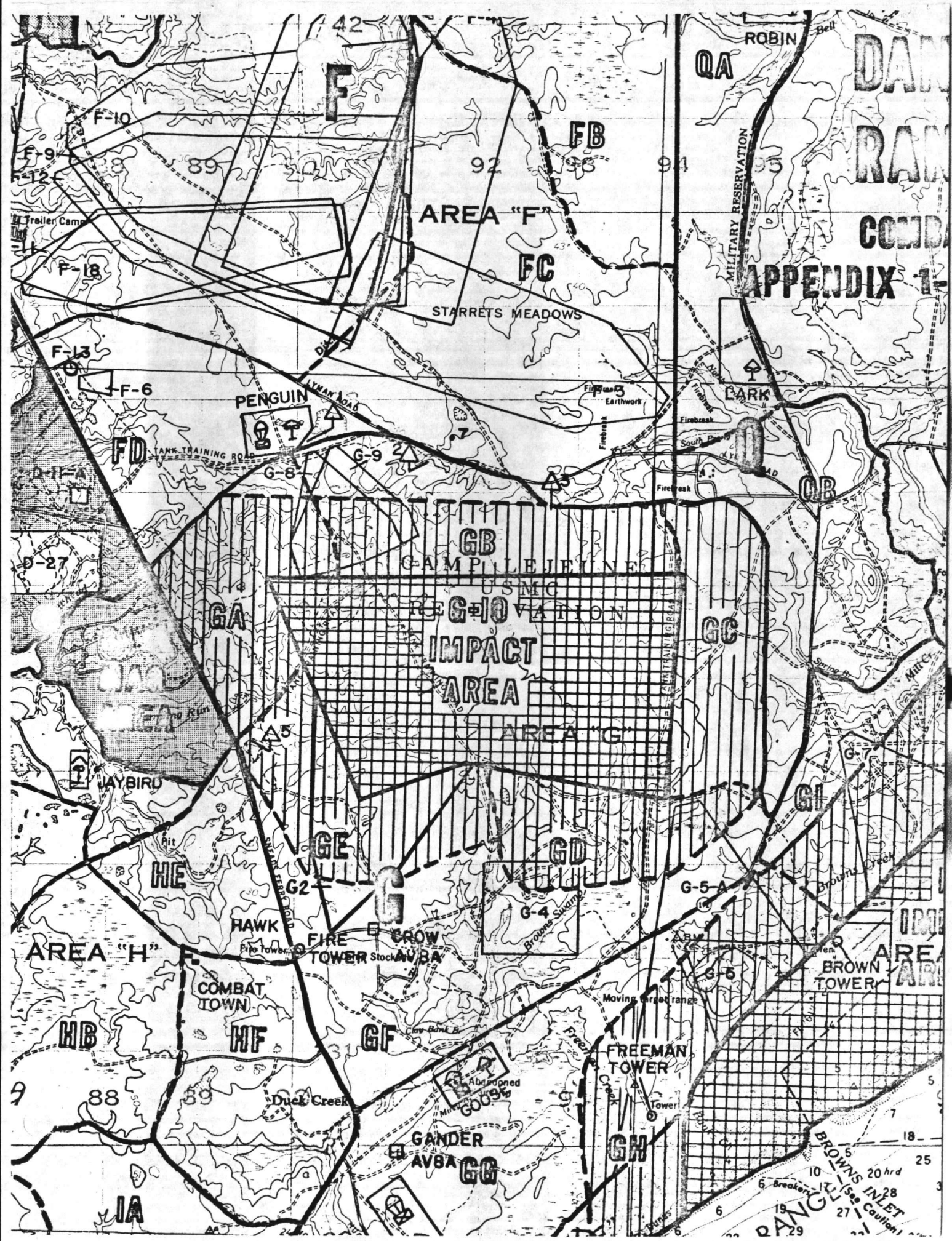
4. All disposal operations will be conducted in accordance with reference (d), and a standing operating procedure for the disposal areas will be published by separate correspondence.

W. PLASKETT, JR.
CHIEF OF STAFF

Copy to:
CMC (Code LMW)



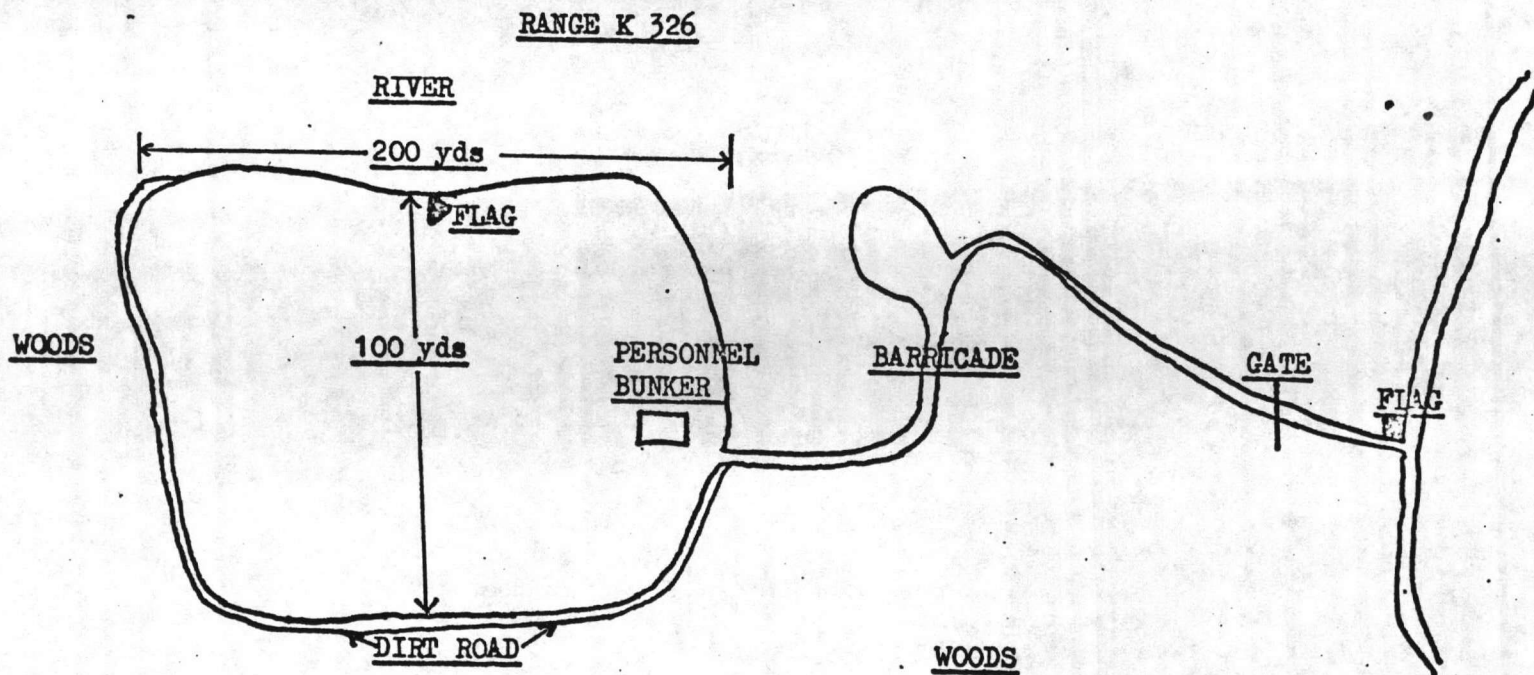




ROBIN
MILITARY RESERVATION
APPENDIX 1

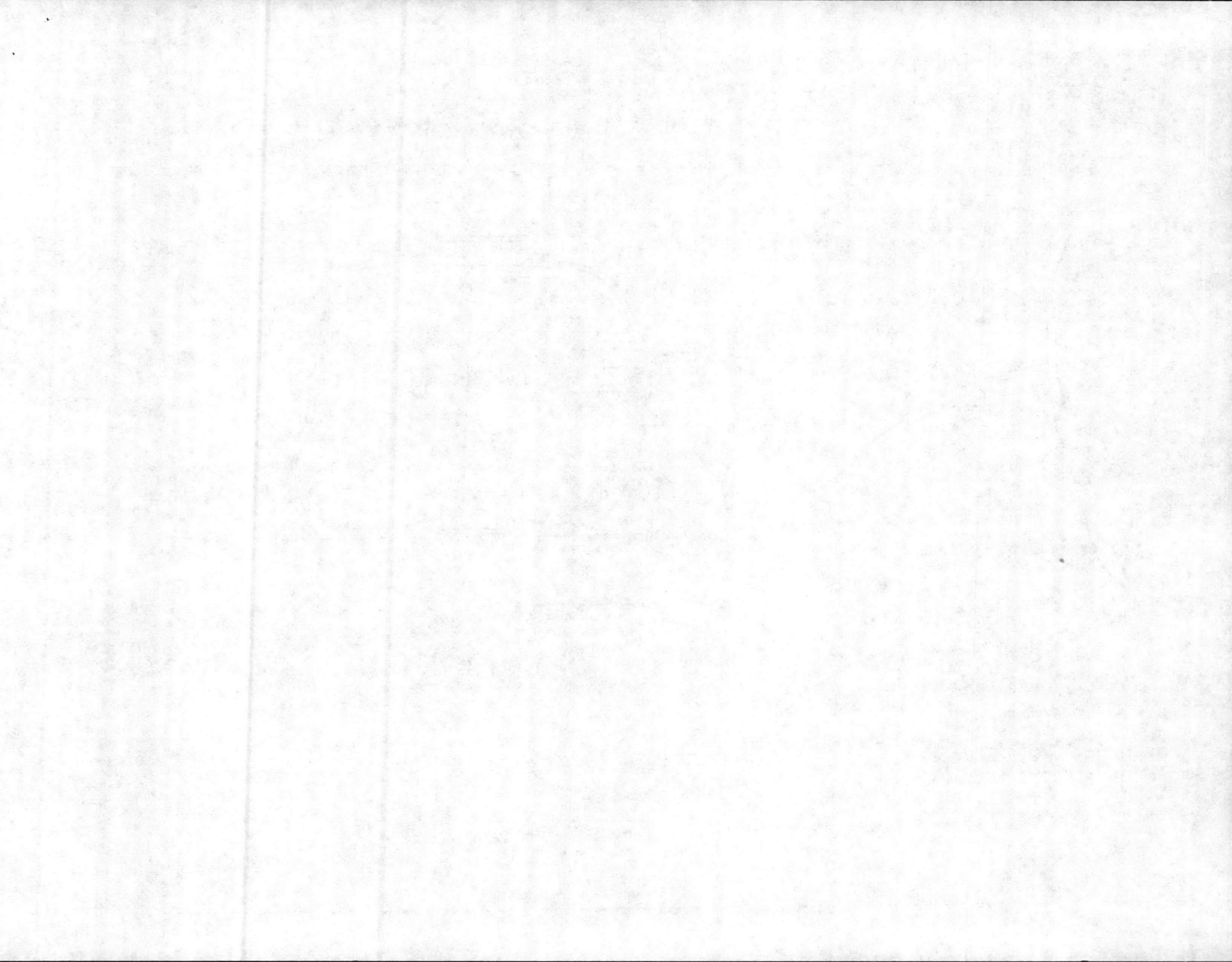
DANGER
CONSTRUCTION

BROWNS INLET
CAUTION

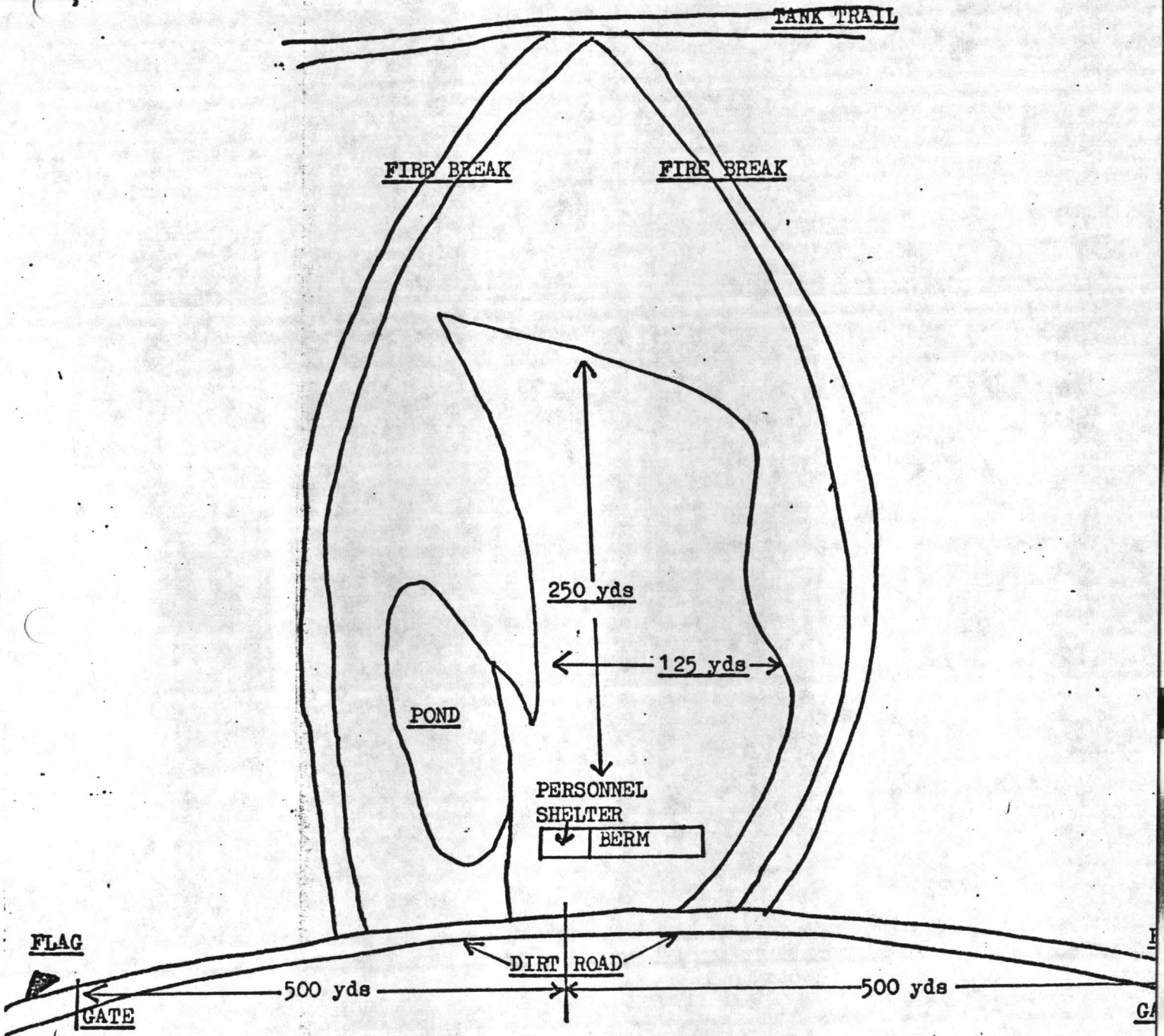


NOTE; 1. The entire disposal area is free of vegetation, except for short grass.

2. The personnel bunker is protected by a dirt berm, 10 ft high by 12 ft thick.



RANGE G4A



- NOTE: 1. The entire disposal area is free of vegetation.
2. The personnel bunker is protected by a dirt berm, 12 ft high by 10ft thick.

file
WAB

3F/HAK/jlh
8027
30 May 1974

From: Commanding General
To: Commander, Naval Ordnance Systems Command, (Code 48),
Department of the Navy, Washington, D. C. 20360

Subj: Approval of Ammunition/Explosives Disposal Areas;
request for

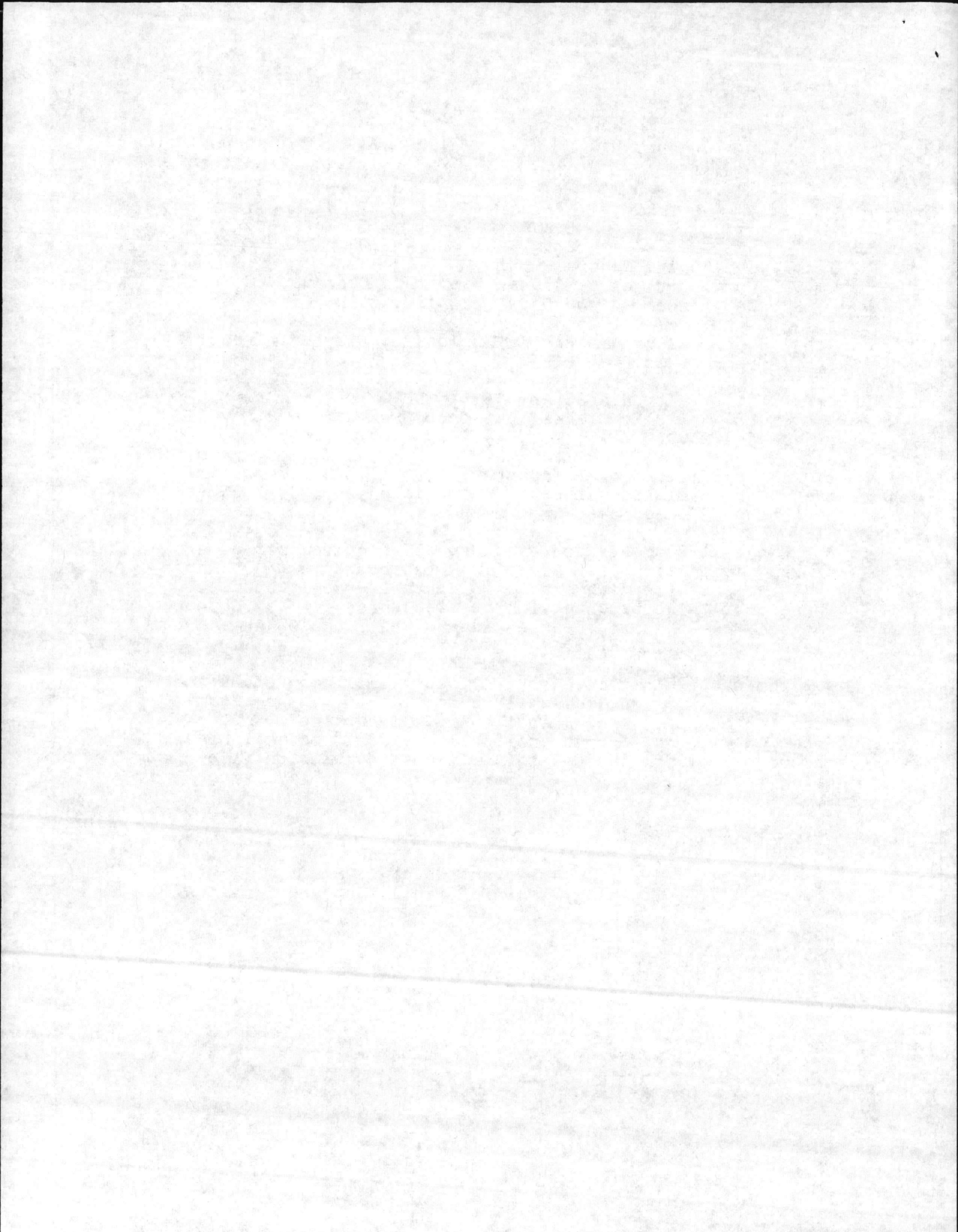
Ref: (a) Yr ltr dtd 26 Apr 74
(b) Table I, Classification of Demolition Sites
(c) NAVORD OP-5, Vol. 1, Third Rev.

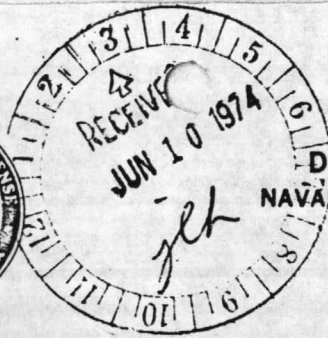
1. As recommended by reference (a), the up-dated requirements for detonation sites as established by reference (b) have been reviewed by this command.
2. Range K-326 meets, or exceeds, all requirements of a class C demolition site as defined by reference (b). Range G-4A meets the requirements of a class B demolition site. Therefore, in accordance with reference (c), it is requested range K-326 be approved as a class C and range G-4A as a class B demolition site.
3. The net explosive weight for each demolition operation at ranges K-326 and G-4A will be determined by the blast focusing method. The explosive limit determined by blast focusing will not exceed the explosive limit established by reference (b) for the specific class of demolition site being utilized.

J. J. SNYDER
Assistant Chief of Staff
Training, Training Facilities and Services

Copy to:
CMC (Code LMW)

RETURN TO TRNG FAGS, BLEC. 1484





DEPARTMENT OF THE NAVY
 NAVAL ORDNANCE SYSTEMS COMMAND
 WASHINGTON, D. C. 20360

IN REPLY REFER TO
 ORD-048E2/469:ANC
 8020

7 JUN 1974

From: Commander, Naval Ordnance Systems Command
 To: Commanding General, Marine Corps Base, Camp Lejeune, N.C.
 Subj: Approval for Ammunition/Explosives Disposal Areas; request for
 Ref: (a) MCB Camp Lejeune ltr 3F/HAK/jlh 8027 of 30 May 1974

1. As requested by reference (a), Marine Corps Base, Camp Lejeune demolition sites are certified as follows:

Range K-326	Class C
Range G-4A	Class B

2. The comment of paragraph 3. of reference (a) with respect to explosive limits will apply.

Copy to:
 CMC (Code IMW)

[Signature]
 G. P. JONES
 By direction

ACTION	INFO	
	<input checked="" type="checkbox"/>	TRNG FACS O
	<input type="checkbox"/>	ASST TRNG FACS O
	<input type="checkbox"/>	RANGE CONTROL
	<input type="checkbox"/>	OPNS CHIEF
	<input type="checkbox"/>	SCHED NCO
	<input type="checkbox"/>	SUPPLY
	<input type="checkbox"/>	RANGE MAINT
	<input checked="" type="checkbox"/>	EDD TEAM
	<input type="checkbox"/>	BOAT CREW
	<input type="checkbox"/>	SECRETARY

⊗ Officer in Charge, NAVSEA Support Center, Atlantic Detachment

810: RPL: EK 8020 Ser 1920 of 13 Jun 79

a. NAV ORD-ORDO 48E2/469: ANC of 7 Jun 74 (NOTAL

b. CHAPTER 11 of NAVSEA OP 5, Vol 1, 4th REV

1. Clear Area 500 ft radius DEMO/BURN SITE
 2. (SOP) FOR RANGE
 3. Personnel shelter
 4. Wind velocity instrument
 5. Scrap Ordnance - Clean up
-

A. CLASS "B" site as required by Table 11-2 of Ref (b)
3000 ft from nearest Building on G4 Range

B. SMALL ARMS - RETORT Furnace or burning in an incinerator

