

## FILE FOLDER

### DESCRIPTION ON TAB:

COORDINATION with

Training & Training activities

FY-83+84 1

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**Outside/inside of actual folder did contain hand written information**

**\*Scanned as next image**

PROJECTS

1. FY-84 REFORESTATION
2. EXPANSION OF TLZ CONDOR
3. L-5 RANGE: 50 CAL
4. HA, HC & HD TACTICAL DRIVING RANGE
5. MISC. MATERIAL
6. ENV. ENH. REVIEW BOARD

7530  
00 990  
EA 8884

TAB PLACEMENT HERE

DESCRIPTION:

Reforestation

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T-11010

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

NREAD/KCH/sm  
11010  
29 SEP 1983

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

Subj: Reforestation planting; plans for

Ref: (a) AC/S FAC memo FAC/MGL/hf 11015 of 22 Sep 1983

Encl: (1) Base Training map showing Compartment locations  
(2) Compartment maps showing planting locations

1. The subject planting plans for FY-84 are submitted for review and comment as per the reference. Enclosure (1) shows Compartment locations. Individual planting sites with acreages are shown on Enclosure (2).

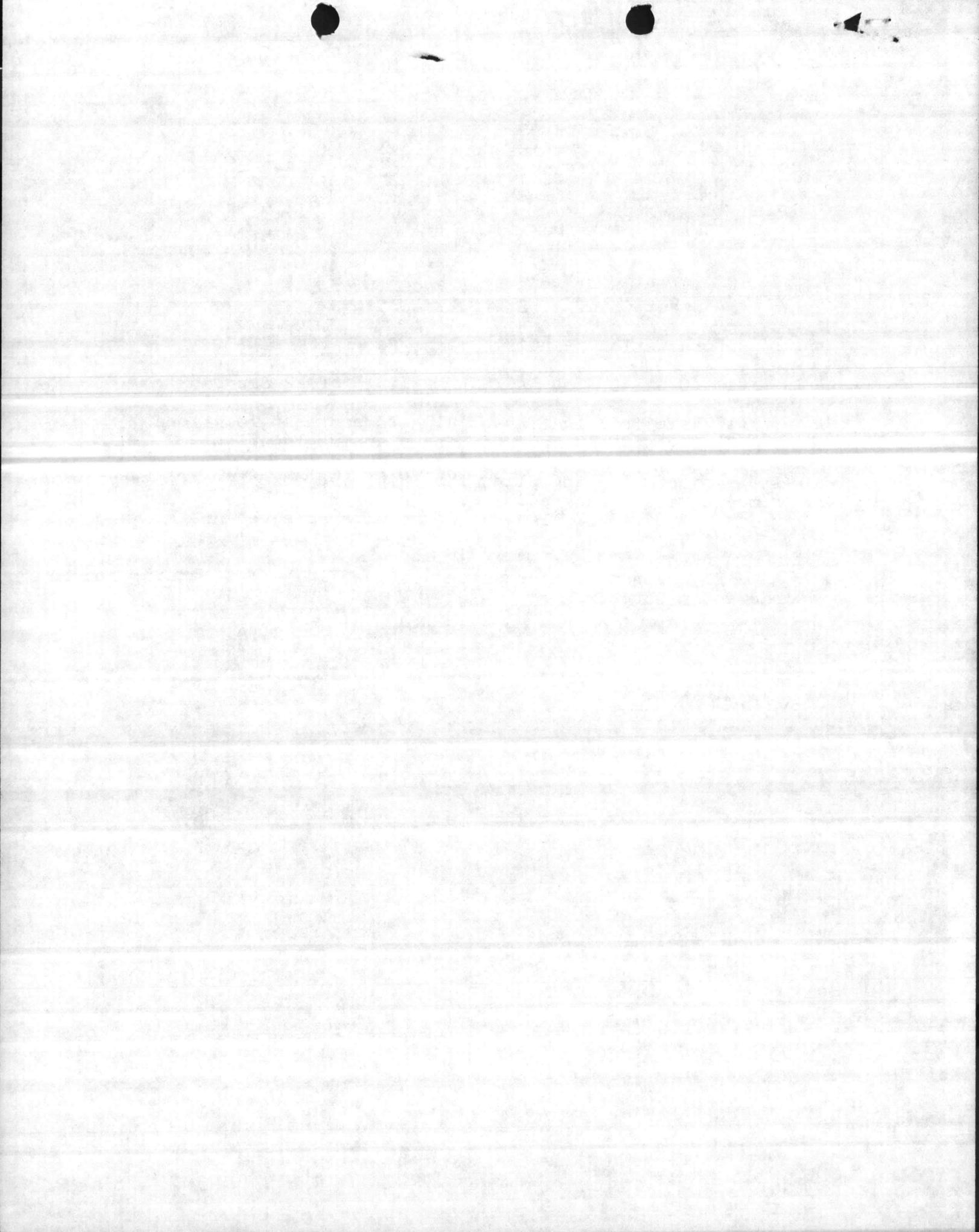
2. An early response is requested as seedlings for planting should be ordered in October.

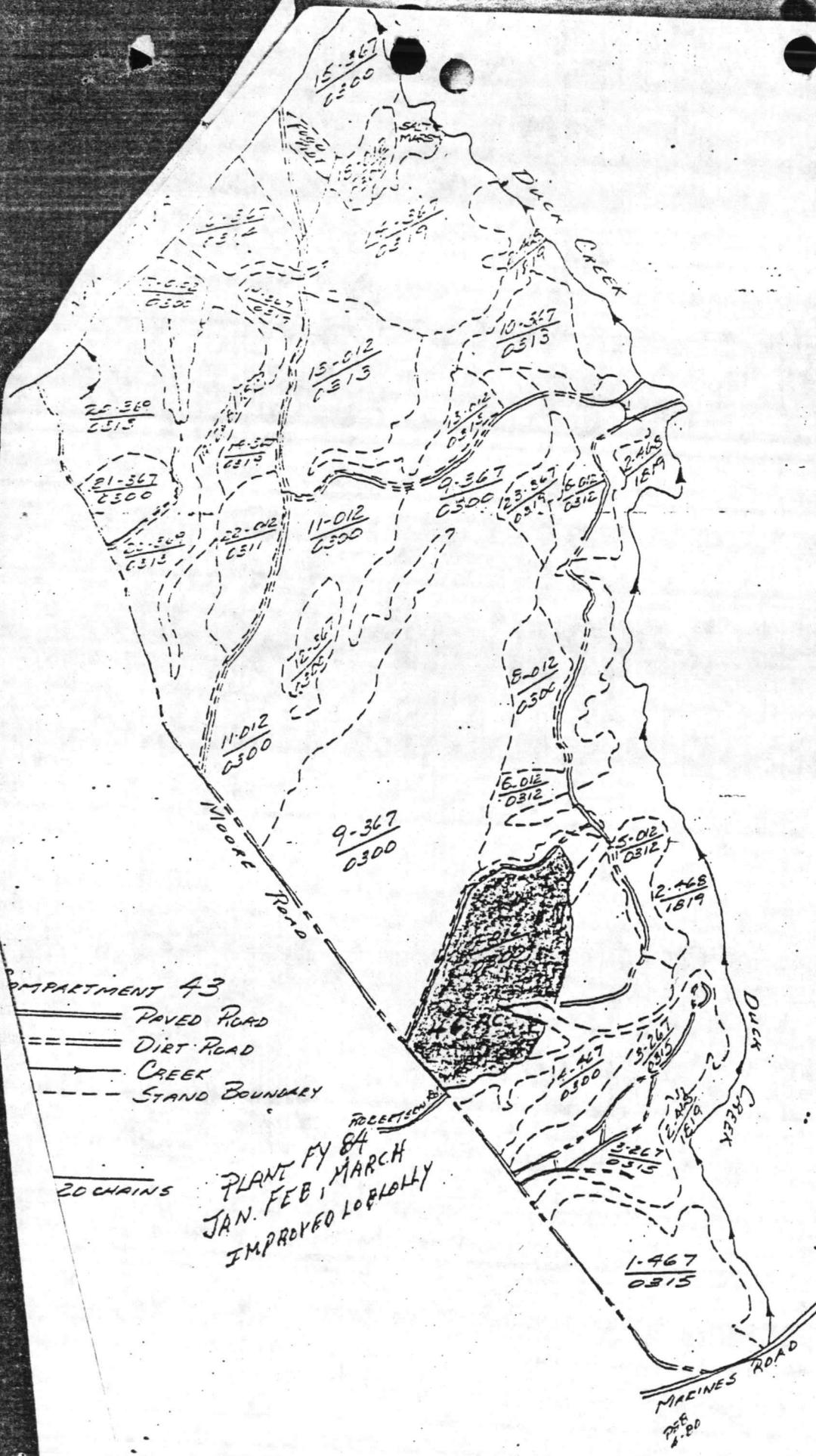
M. G. LILLEY

Copy to: (w/o encl)  
CS

Compartment	Area	Planting
101	1.5	10
102	1.5	10
103	1.5	10
104	1.5	10
105	1.5	10
106	1.5	10
107	1.5	10
108	1.5	10
109	1.5	10
110	1.5	10
111	1.5	10
112	1.5	10
113	1.5	10
114	1.5	10
115	1.5	10
116	1.5	10
117	1.5	10
118	1.5	10
119	1.5	10
120	1.5	10
121	1.5	10
122	1.5	10
123	1.5	10
124	1.5	10
125	1.5	10
126	1.5	10
127	1.5	10
128	1.5	10
129	1.5	10
130	1.5	10
131	1.5	10
132	1.5	10
133	1.5	10
134	1.5	10
135	1.5	10
136	1.5	10
137	1.5	10
138	1.5	10
139	1.5	10
140	1.5	10
141	1.5	10
142	1.5	10
143	1.5	10
144	1.5	10
145	1.5	10
146	1.5	10
147	1.5	10
148	1.5	10
149	1.5	10
150	1.5	10
151	1.5	10
152	1.5	10
153	1.5	10
154	1.5	10
155	1.5	10
156	1.5	10
157	1.5	10
158	1.5	10
159	1.5	10
160	1.5	10
161	1.5	10
162	1.5	10
163	1.5	10
164	1.5	10
165	1.5	10
166	1.5	10
167	1.5	10
168	1.5	10
169	1.5	10
170	1.5	10
171	1.5	10
172	1.5	10
173	1.5	10
174	1.5	10
175	1.5	10
176	1.5	10
177	1.5	10
178	1.5	10
179	1.5	10
180	1.5	10
181	1.5	10
182	1.5	10
183	1.5	10
184	1.5	10
185	1.5	10
186	1.5	10
187	1.5	10
188	1.5	10
189	1.5	10
190	1.5	10
191	1.5	10
192	1.5	10
193	1.5	10
194	1.5	10
195	1.5	10
196	1.5	10
197	1.5	10
198	1.5	10
199	1.5	10
200	1.5	10

FY-84  
PLANTING



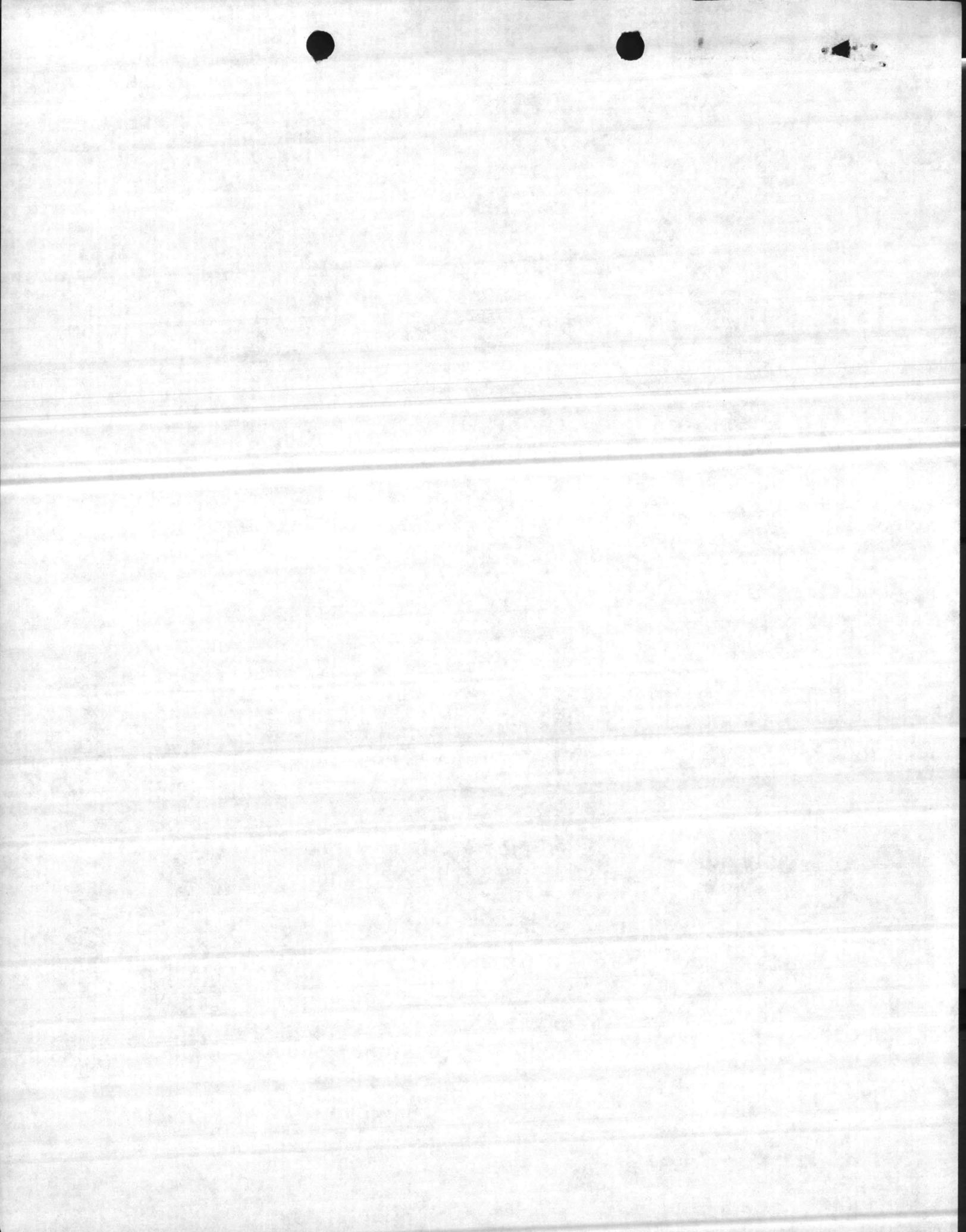


COMPARTMENT 43  
 PAVED ROAD  
 DIRT ROAD  
 CREEK  
 STAND BOUNDARY

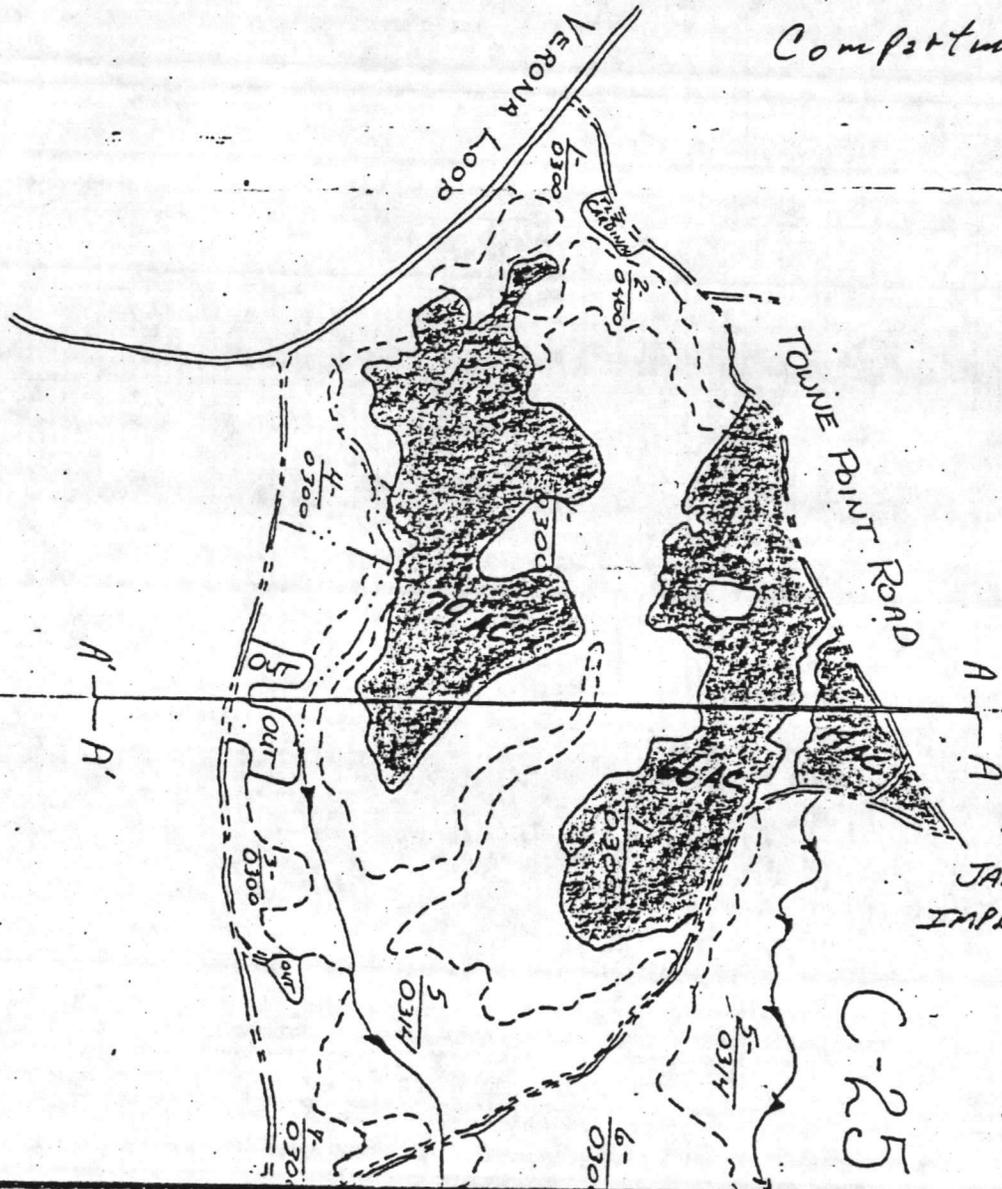
ROBERTSON  
 PLANT FY 84  
 JAN. FEB, MARCH  
 IMPROVED LOBLOLLY

STAND #	GRASS	NET
1	37	37
2	107	107
3	35	35
4	10	10
5	9	9
6	50	50
7	78	78
8	14	14
9	148	148
10	15	15
11	64	64
12	8	8
13	42	42
14	60	60
15	27	27
16	14	14
17	13	13
18	6	6
19	17	17
20	76	76
21	10	10
22	16	16
23	0	0
FOODPLOT SALT MARSH		0
	873	873
	677	677

DEF 8.20



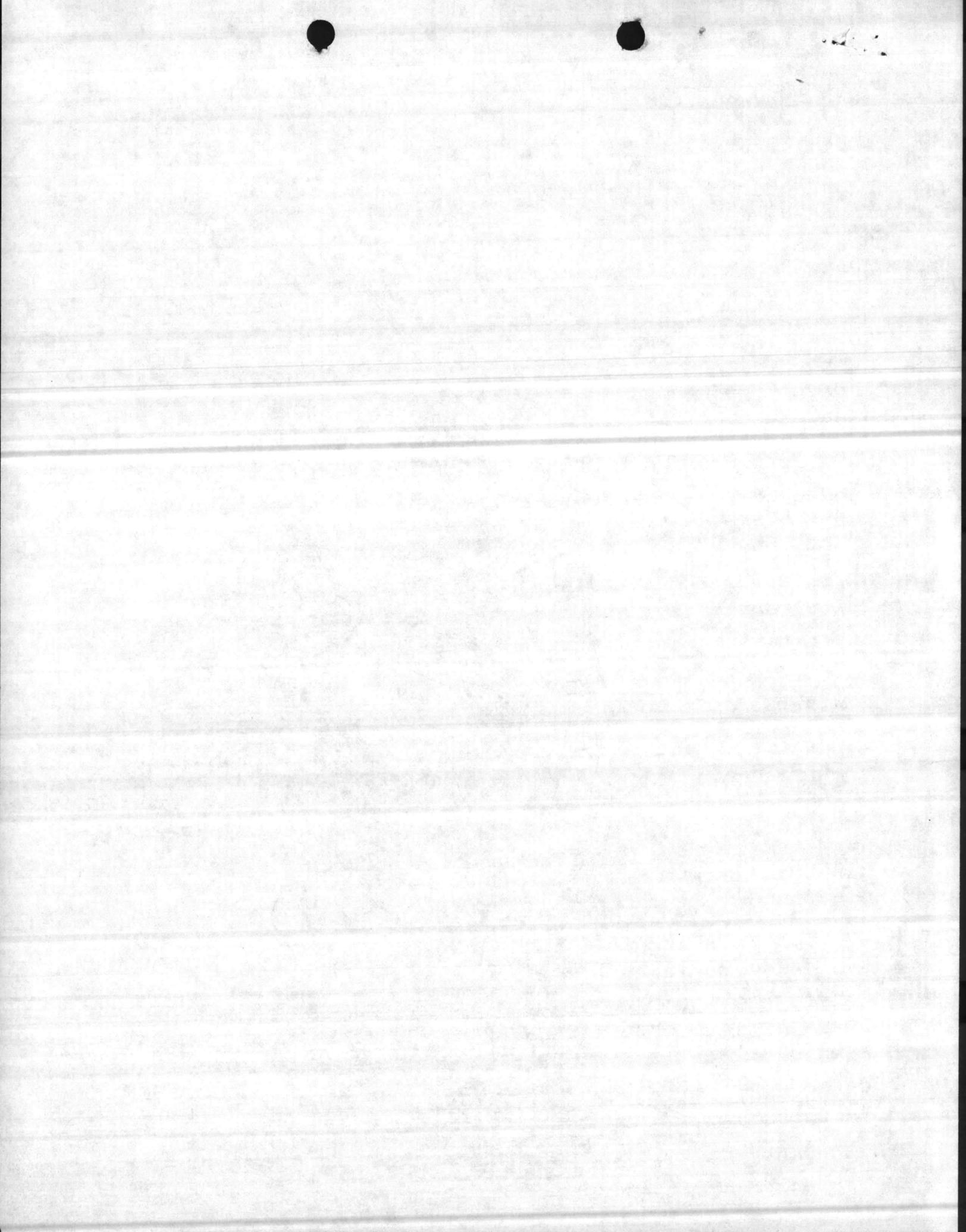
Compartment 30



PLANT FY-84  
JAN., FEB., MARCH  
IMPROVED LOBBLY

C-25

MAP 9  
ENCLOSURE



*File Forestry*

ASSISTANT CHIEF OF STAFF, FACILITIES  
HEADQUARTERS, MARINE CORPS BASE

DATE 10/7/83

TO:

BASE MAINT O                      DIR, FAMILY HOUSING  
PUBLIC WORKS O                  DIR, UNACCOMPANIED PERS HSG  
COMM-ELECT O                    BASE FIRE CHIEF  
DIR., NAT. RESOURCES & ENV. AFFAIRS

ATTN: *Johan*

1. Attached is forwarded for info/action.

*Please discuss the impact this will have*

2. Please initial, or comment, and return all papers to this office.

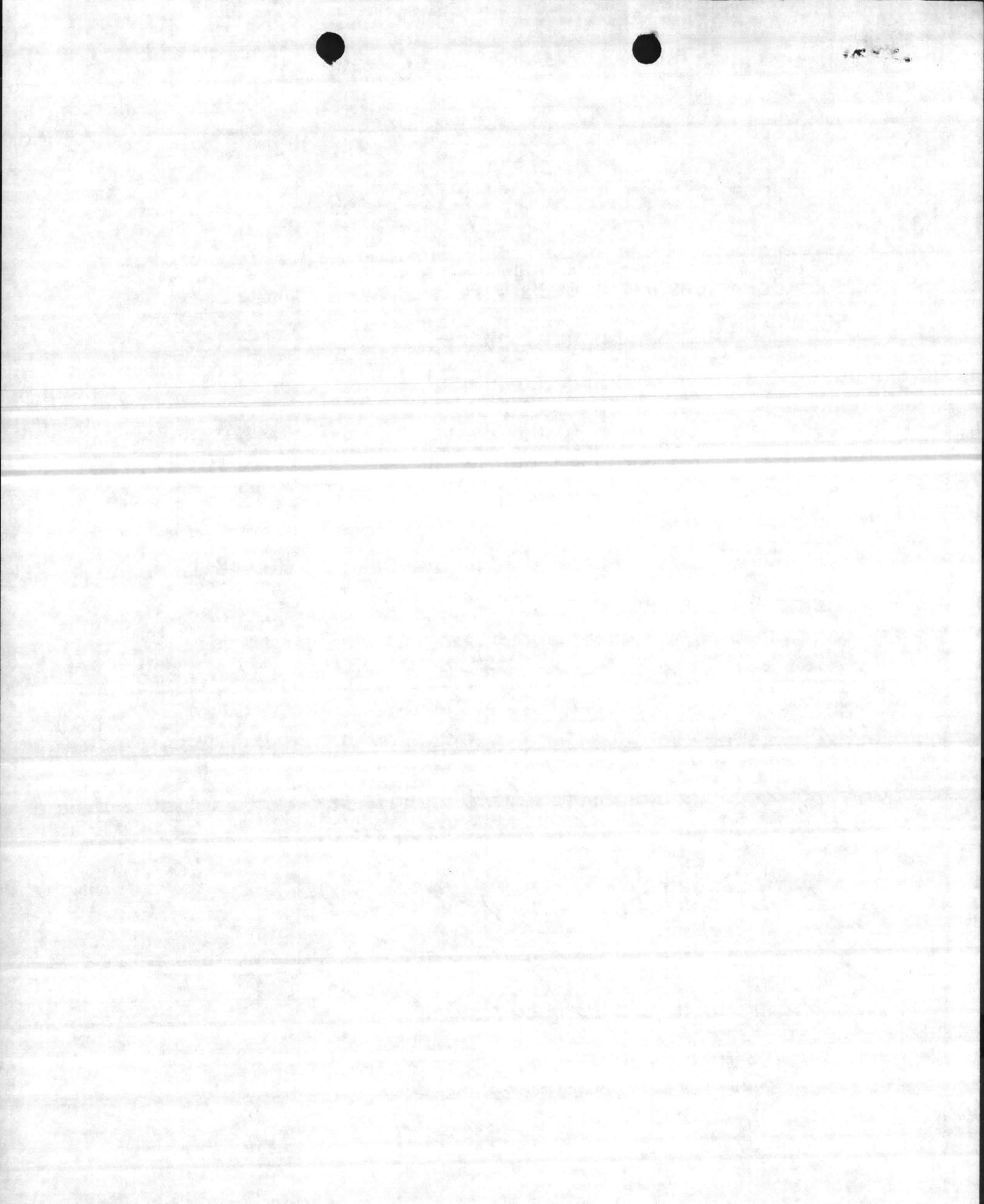
*on our reforestation plans  
I'll be on leave 12-14*

3. Your file copy.

*Act. If this is not urgent  
can we go over this  
after my leave.*

"LET'S THINK OF A FEW REASONS  
WHY IT CAN BE DONE"

*MR  
Cal J*





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

IN REPLY REFER TO  
W TRNG/RJW/ekd  
11010  
4 Oct 1983

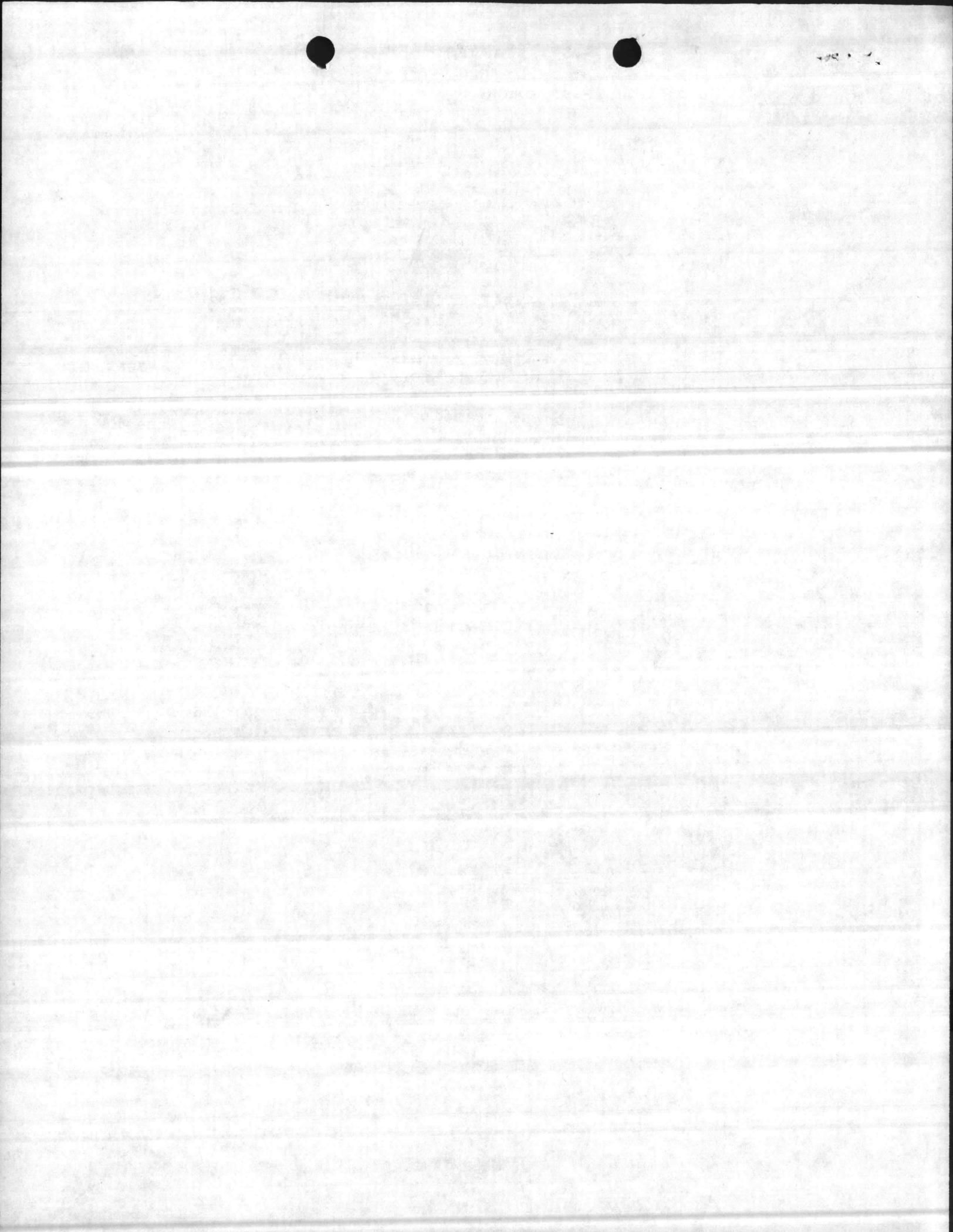
From: Assistant Chief of Staff, Training  
To: Assistant Chief of Staff, Facilities

Subj: Reforestation Planting; plans for

Ref: (a) AC/S, Fac ltr NREAD/KCH/sm over 11010 dtd 29 Sep 1983  
(b) CG, 2d MarDiv ltr 5214 dtd 7 Jun 1982

1. In accordance with reference (a), subject planting plans for FY-84 have been reviewed and the following comments are provided:
2. By reference (b) the Commanding General, 2d Marine Division requested that a Tactical Driving Range be developed in the HA and HC training areas. If this request is to be acted upon, it would not seem logical to plant seedlings in the HA or HC areas at this time.
3. Tentative plans are also being made to enlarge the K-2 impact area and buffer zone in K area. This may have an effect in the planting of seedlings in the K area.
4. For further information and coordination, our point of contact is Lieutenant Colonel K. ZITZ, Range Control Officer, extension 5803/3065.

*J. R. Mcelroy, Jr.*  
J. R. MCELROY, Jr.



TRAINING FACILITIES BRANCH  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

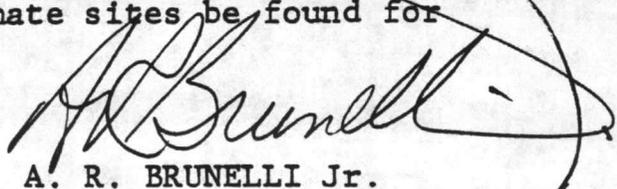
TFAC/ARB/ves  
3900  
28 January 1983

SECOND ENDORSEMENT on CG, 2d MarDiv ltr 3/HWL/gac 3900 dtd 18 Jan 83

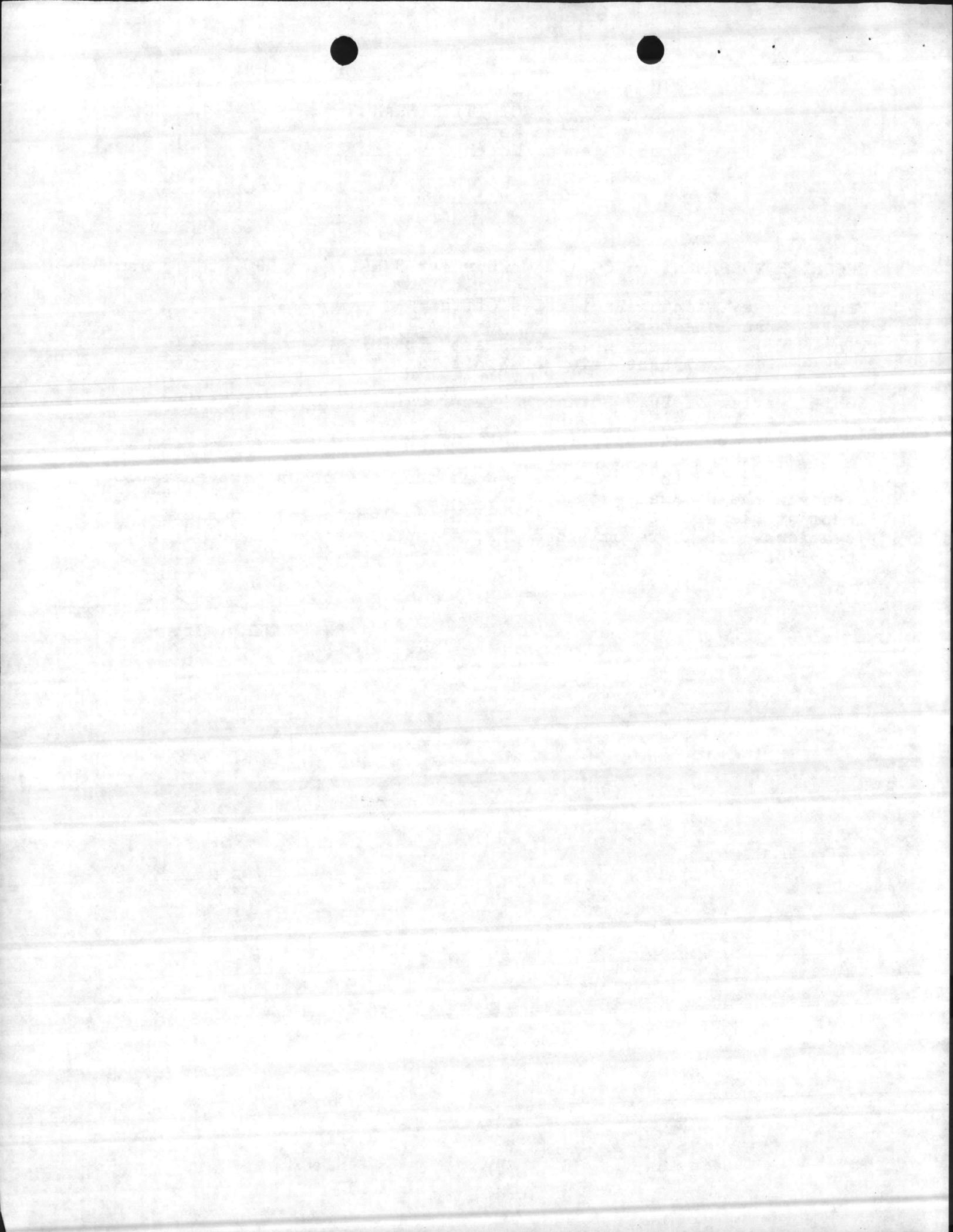
From: Base Training Facilities Officer  
To: Base Forester  
Via: (1) Assistant Chief of Staff, Training  
(2) Assistant Chief of Staff, Facilities

Subj: Review of Base Forestry Plan for Planting Regeneration Areas

1. Forwarded for appropriate action.
2. As noted in the basic correspondence, the planned regeneration areas in the HA Area and LZ CONDOR Area (Verona Loop) would appear incompatible with the tactical training planned for these two locations. It is recommended that alternate sites be found for the plantings.



A. R. BRUNELLI Jr.





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

IN REPLY REFER TO  
TRNG/MPS/kak  
3900  
28 Jan 1983

THIRD ENDORSEMENT on CG, 2d MarDiv ltr 3/HWL/gac over 3900 dtd 18 Jan 83

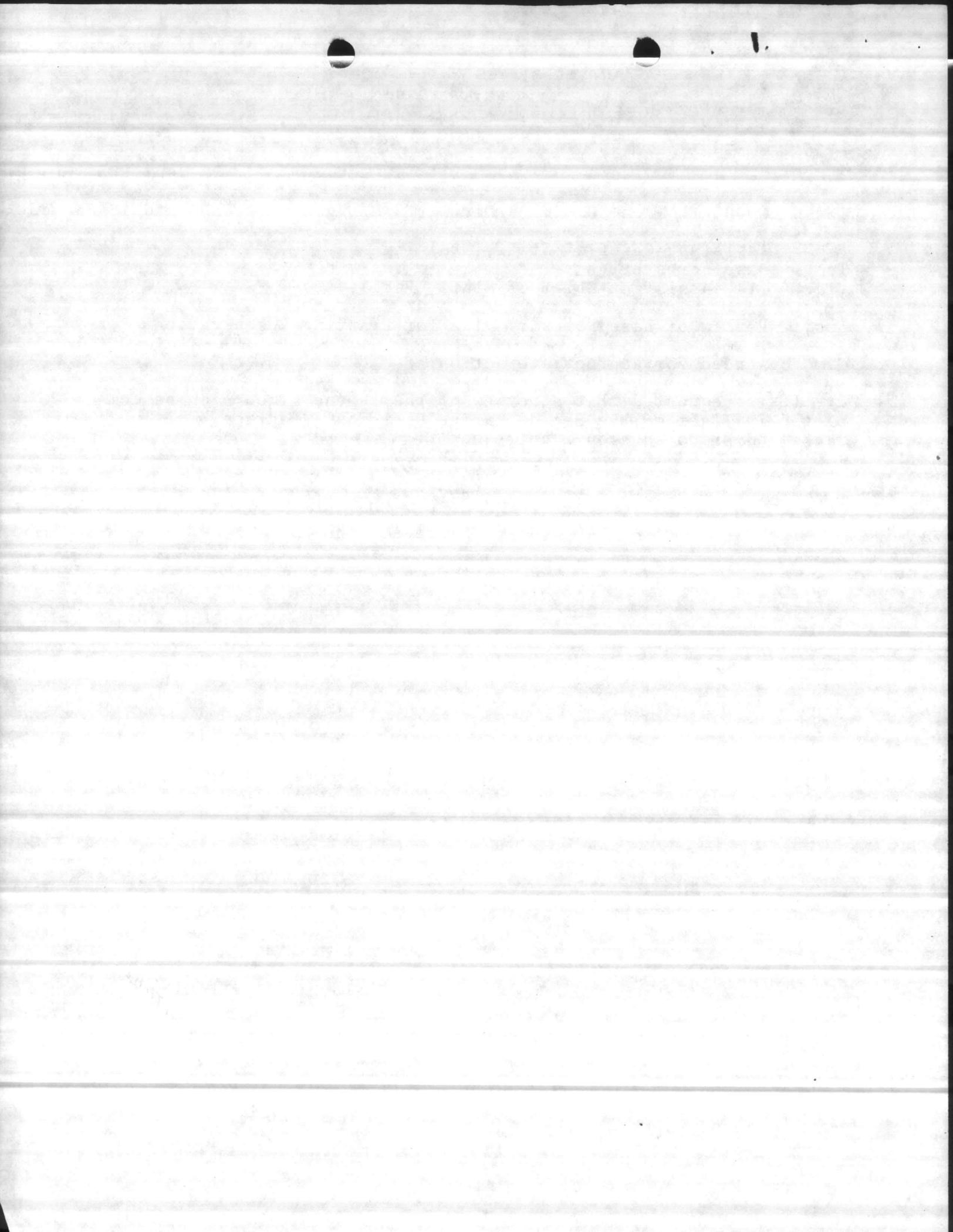
From: Assistant Chief of Staff, Training  
To: Base Forester  
Via: (1) Assistant Chief of Staff, Facilities

Subj: Review of Base Forestry Plan for Planting Regeneration Areas

1. Forwarded for appropriate action.
2. It is requested that a review of the regeneration plan be completed in light of the Second Marine Division's tactical driving range and proposed drop zone request.

  
M. P. SAMS  
By direction

*FY-83 PLANTING*





UNITED STATES MARINE CORPS  
2D MARINE DIVISION, FLEET MARINE FORCE  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO  
3/HWL/gac  
3900  
18 Jan 1983

From: Commanding General  
To: Commanding General, Marine Corps Base, Camp Lejeune,  
North Carolina 28542 {Attn: AC/S Training}  
Subj: Review of Base Forestry Plan for Planting Regeneration Areas  
Ref: {a} CG MCB CamLej ltr TFAC/ARB/ves over 1500 dtd 4 Jan 1983  
{b} CG 2d MarDiv ltr 3:JDE:js over 1500 dtd 5 Nov 1982

1. In response to reference {a} and after review of reference {b} it appears that the Base Forestry Plan is counter to the interests and desires of this command as regards our proposed Tactical Driving Range for mechanized units in the HA/HC/HD areas. Additionally if the tactical driving range is approved in this area the destruction of newly planted trees is inevitable.
2. The second proposal to reforest an area designated for a proposed drop zone is also counter to the effort and additionally could present a safety hazard for personnel and helicopters.
3. This command will continue to seek new, improved ranges and training areas and will assist within our capabilities to attain these goals. It is specifically requested that reforestation not occur in the three designated areas discussed in reference {a}.

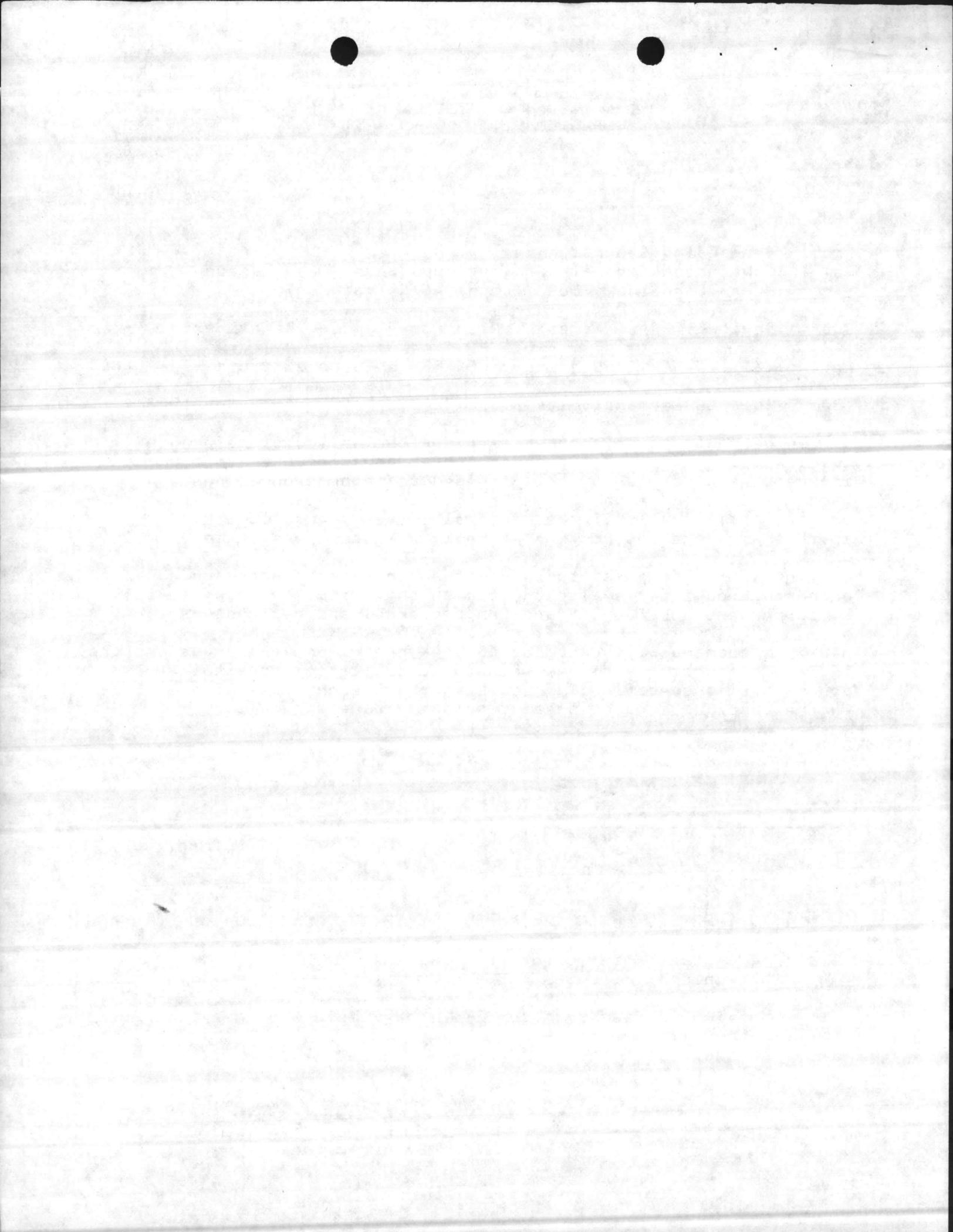
  
T. J. GERAGHTY  
By direction

-----  
TRNG/MPS/eks  
1500  
20 Jan 1983

FIRST ENDORSEMENT on CG, 2d MarDiv ltr 3/HWL/gac 3900 dtd 18 Jan 83

From: Assistant Chief of Staff, Training  
To: Training Facilities Officer  
Subj: Review of Base Forestry Plan for Planting Regeneration Areas  
1. Forwarded for action.

  
M. P. SAMS  
By direction





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

IN REPLY REFER TO  
TFAC/ARB/ves  
1500  
4 January 1983

From: Commanding General  
To: Commanding General, 2d Marine Division, Camp Lejeune, North Carolina 28542 (Attn: G-3 Trng)

Subj: Review of Base Forestry Plan for Planting Regeneration Areas

Ref: (a) CG 2d MarDiv ltr 3:JDE:js over 1500 of 5 Nov 82  
(b) Conference btw Mr. HARRISON (Base Forestry) and LtCol BRUNELLI (Base TFacO)

Encl: (1) Compartment 42 Map  
(2) Compartment 43 Map  
(3) Map showing proposed planting in area considered for HA/HC/HD Mech Driver Trng Range  
(4) Compartment 28 Map  
(5) Compartment 29 Map  
(6) Map showing impact of proposed planting on expansion of LZ CONDOR

1. Reference (a) forwarded a prioritized list of desired range improvements and training area projects to support your training.

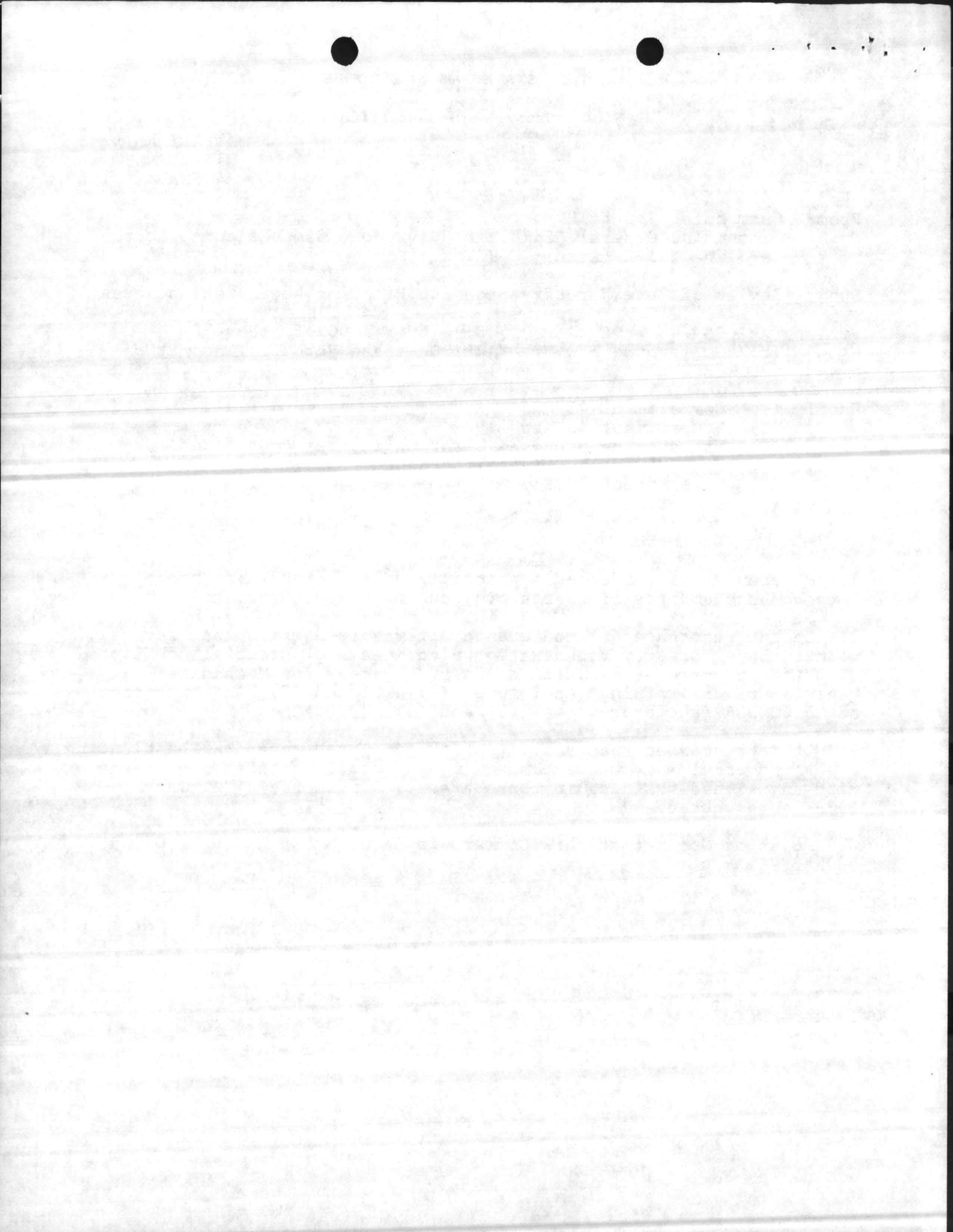
2. In the reference (b) conference, it was identified that several planned Base Forestry regeneration plantings had potential conflicts with the proposed utilization of HA/HC/HD areas for Mechanized Vehicle Driver Training (enclosures (1), (2) and (3), and expansion of LZ CONDOR (enclosures (4), (5) and (6)).

3. It is requested that you review the proposed regeneration planting areas and provide comments concerning any conflict these may create with envisioned training in these areas. A response by 21 January 1983 is requested.

4. Point of Contact at this Command is LtCol BRUNELLI (BTFacO) ext. 5803/3920.

Copy to:  
AC/S Facilities





# COMPARTMENT 42

- ==== PAVED ROAD
- ===== DIET ROAD
- - - - - STAND BOUNDARY
- → → CREEK

1 in = 20 CHAINS

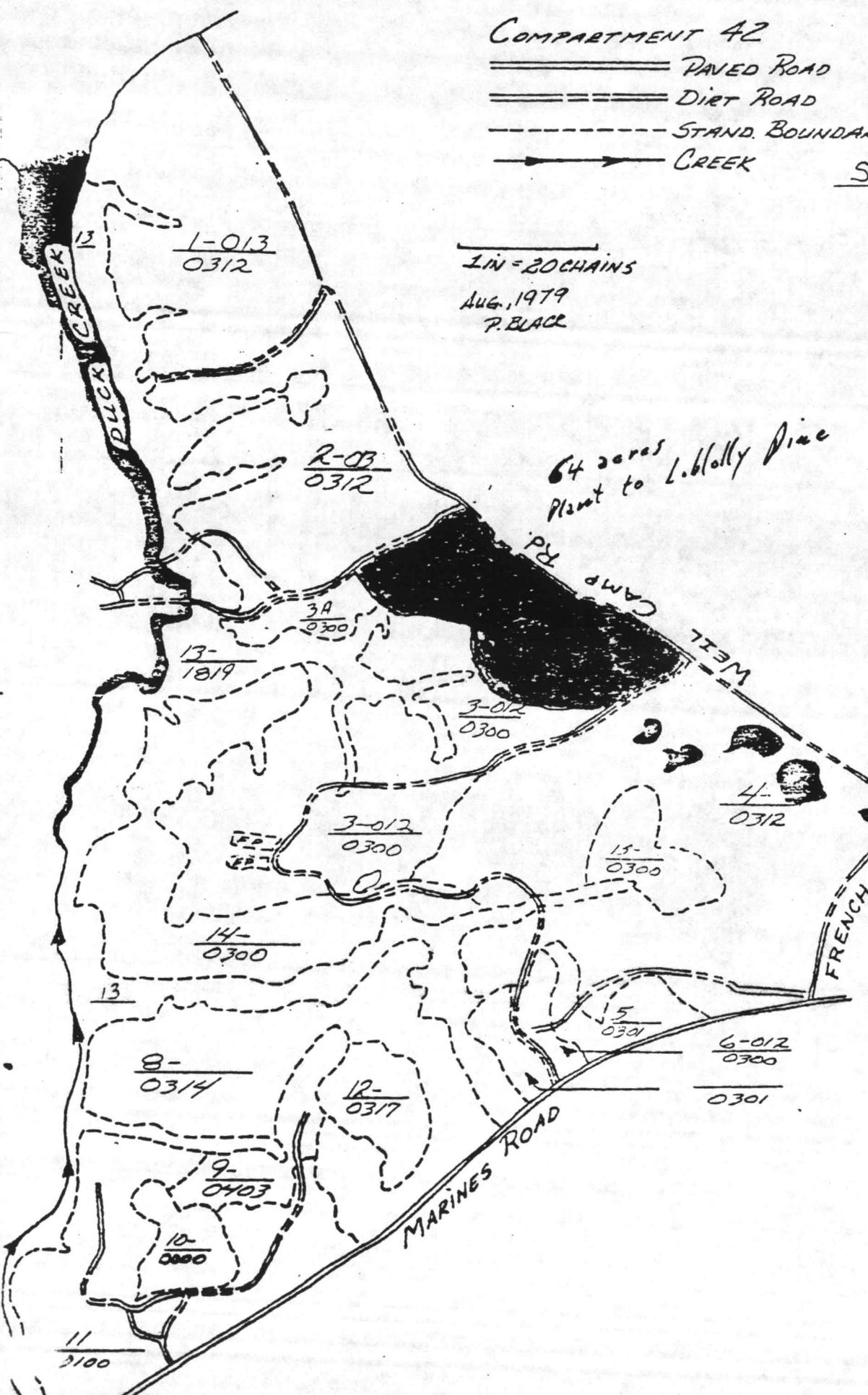
AUG. 1979

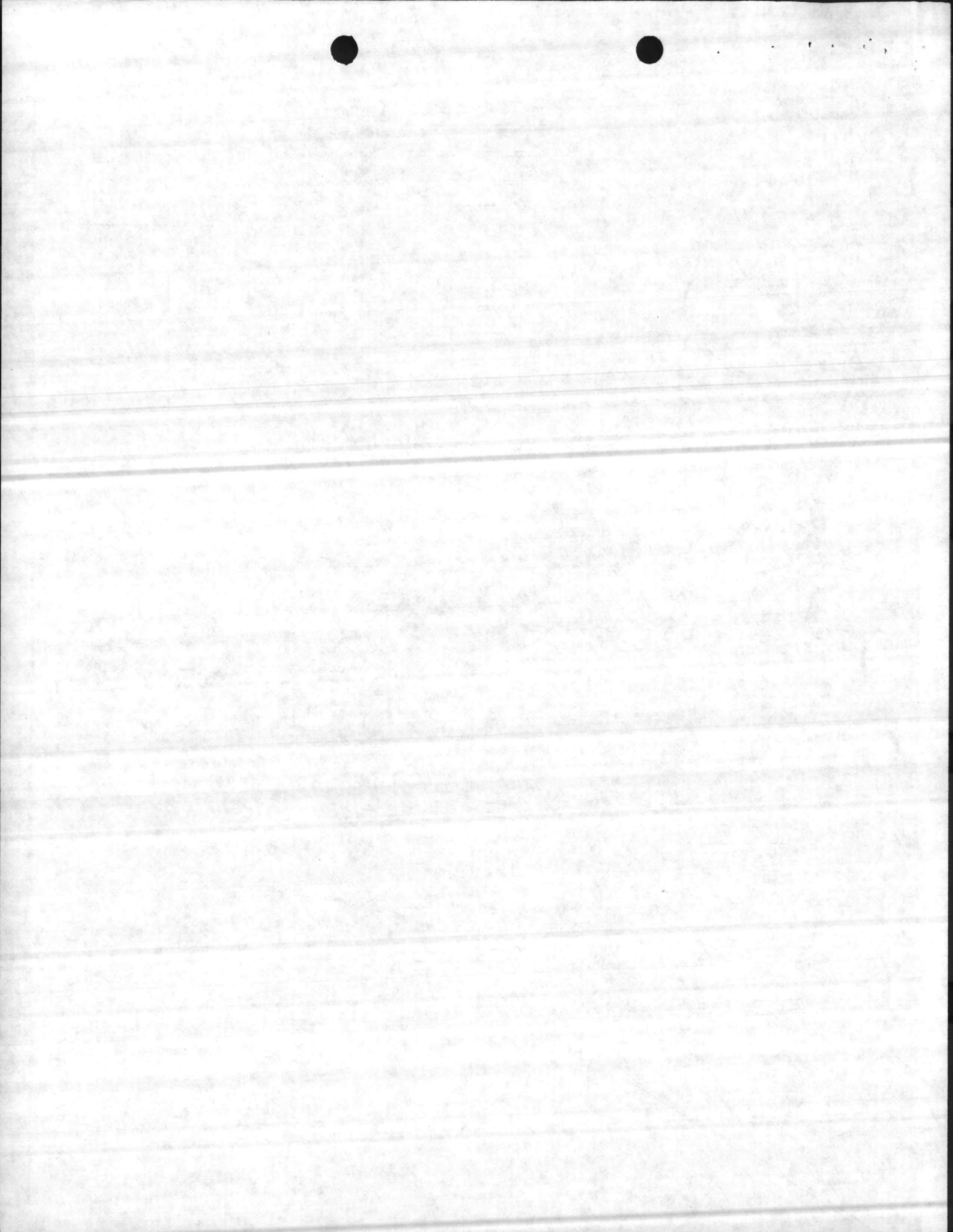
P. BLACK

64 acres  
Plant to L. blolly Pine

STAND	ACREAGE
1	95
2	94
3	117
3A	9
4	182
5	17
6	9
7	8
8	91
9	20
10	16
11	89
12	19
13	162
14	80
15	18
16	59
FPs	1
Ponds	3

total = 1089a.





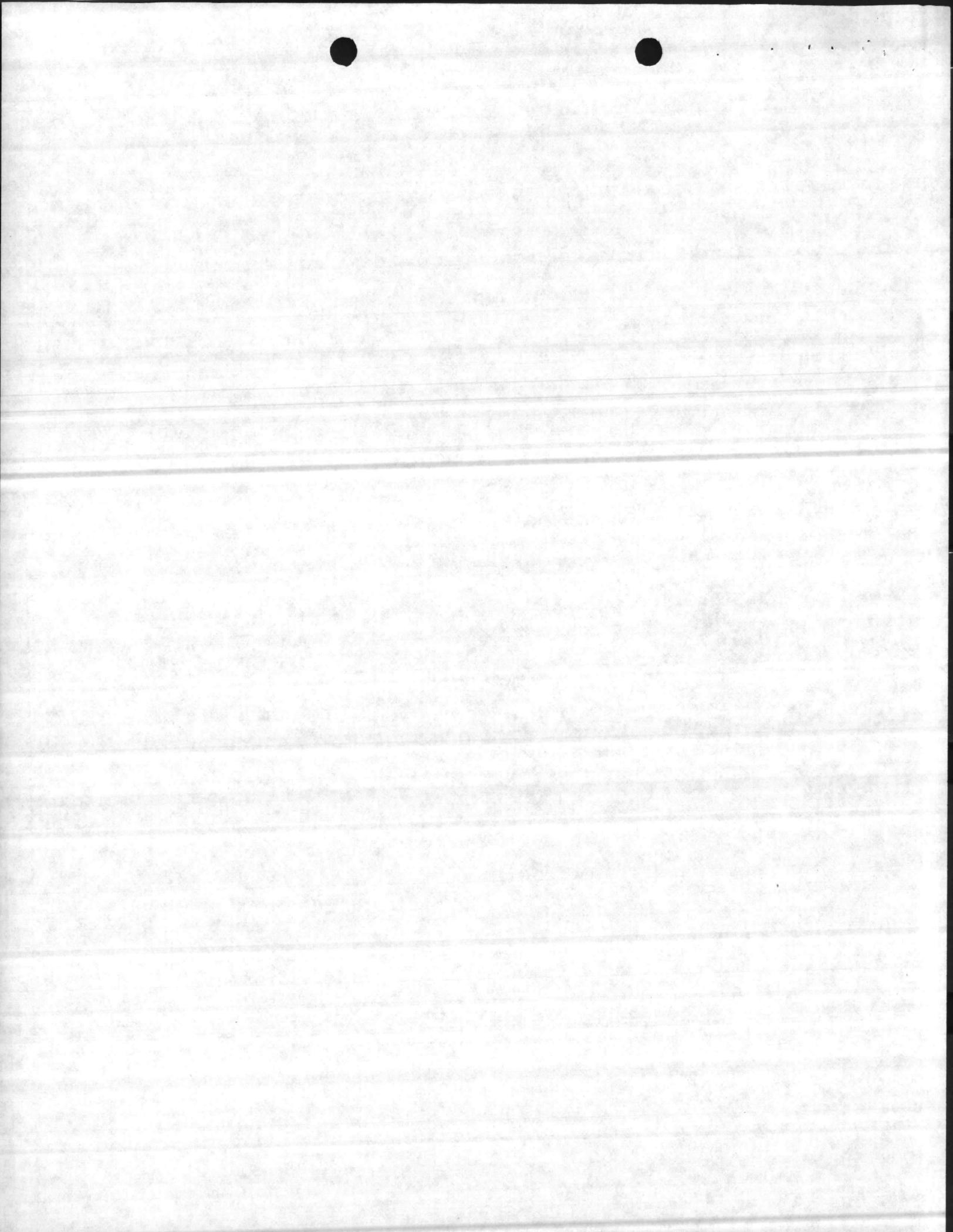
20 acres  
plant to pine

Contour - 43  
 --- Main Road  
 --- Dirt Road  
 --- Creek  
 --- Spring Boundary

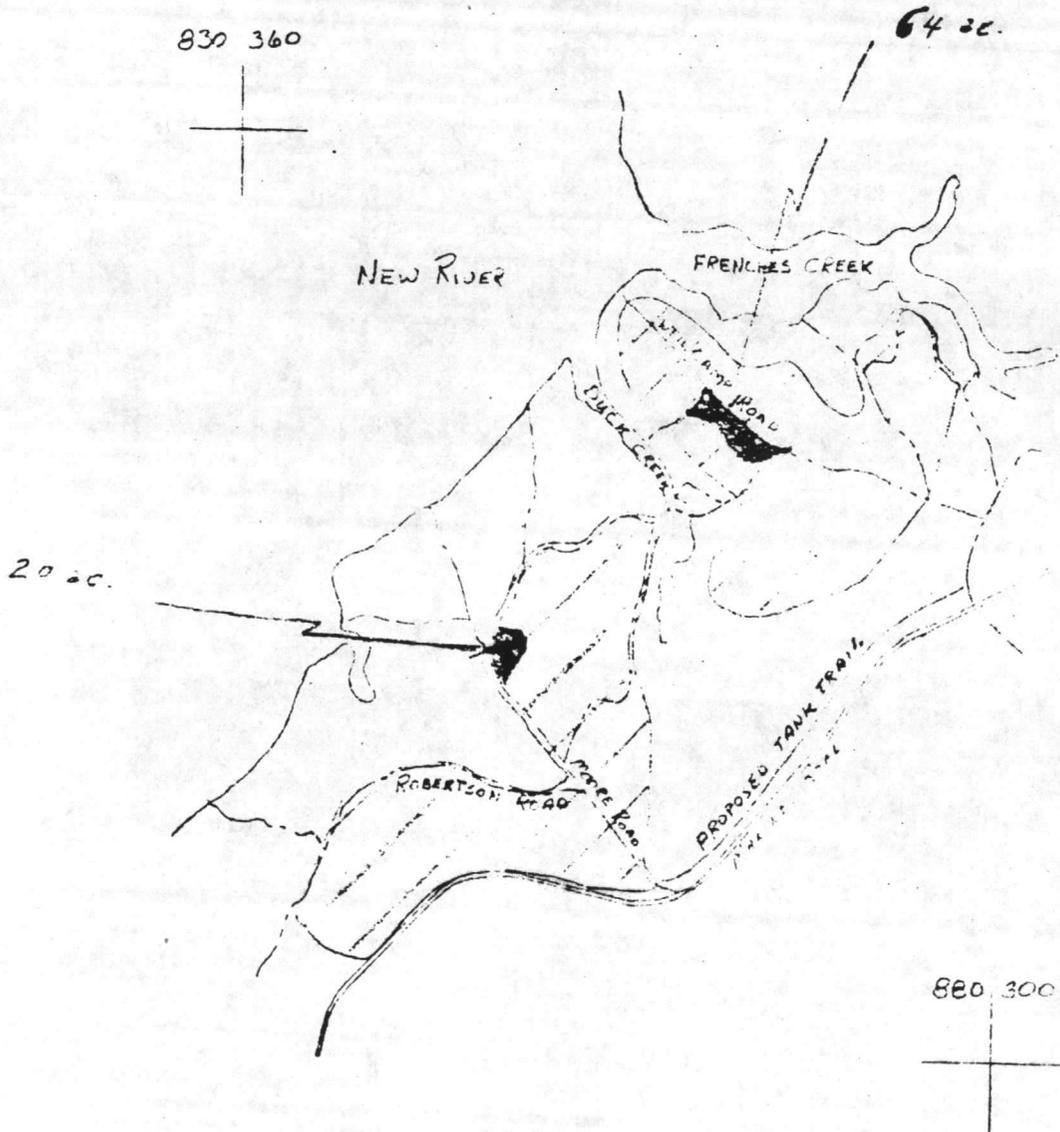
Top Boundary



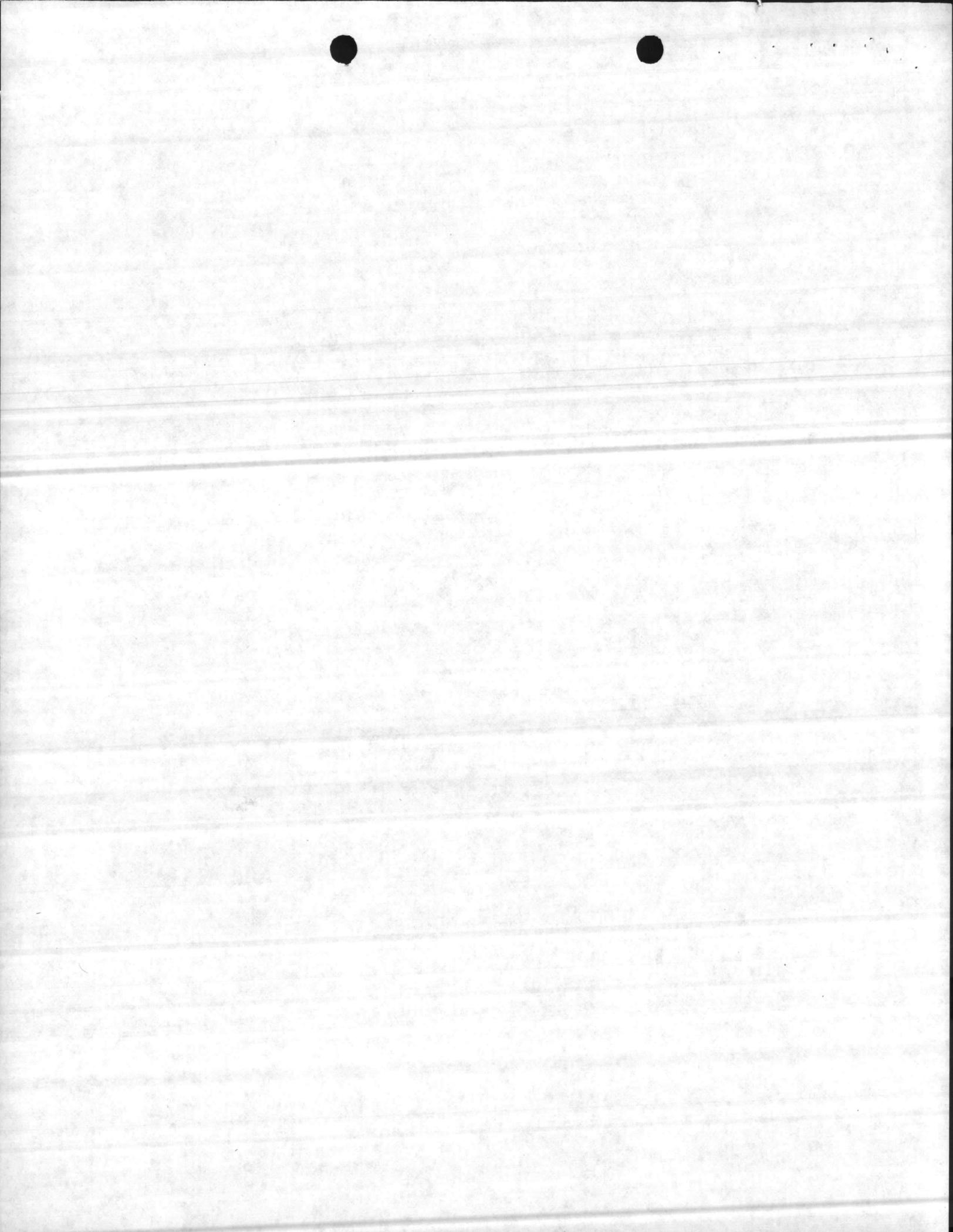
1	31	111
2	107	57
3	35	107
4	10	36
5	9	19
6	50	50
7	78	72
8	148	148
9	15	15
10	64	64
11	8	8
12	42	42
13	60	60
14	27	27
15	14	14
16	13	13
17	6	6
18	17	17
19	76	76
20	10	10
21	16	16
22	9	9
23	3	3
24	875	875



PROPOSED TACTICAL DRIVING RANGE FOR  
MECHANIZED UNITS

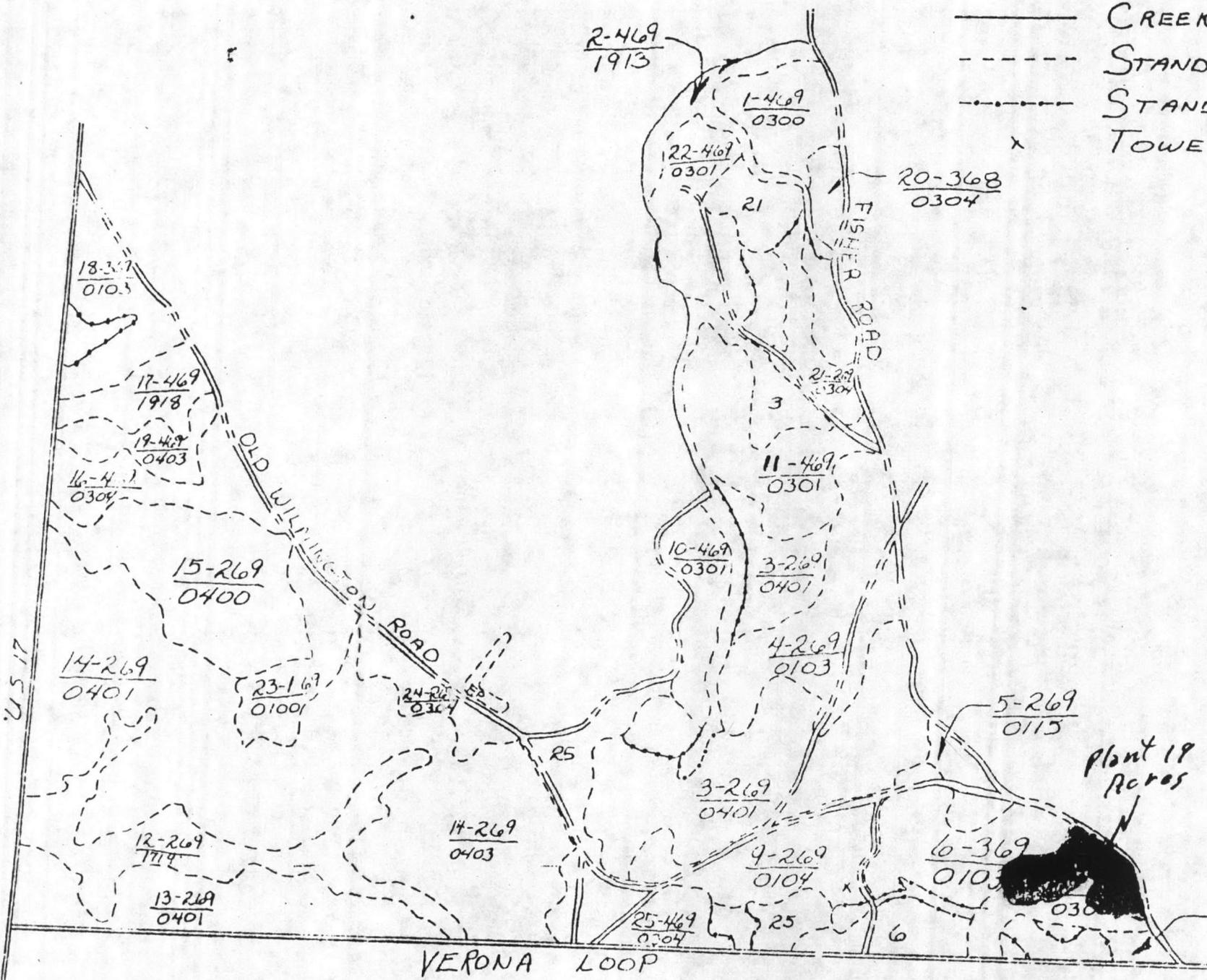


-  TO BE PLANTED  
FY-83
-  AREA AFFECTED  
BY PROPOSAL



# COMPARTMENT 28

- ==== PAVED ROAD
- ==== DIRT ROAD
- CREEK
- - - STAND INCLUSION
- · - · - STAND BOUNDARY
- x TOWER



Stand	Acres
1	10
2	12
3	116
4	44
5	10
6	48
7	20
8	10
9	34
10	16
11	34
12	46
13	39
14	180
15	50
16	22
17	14
18	24
19	12
20	14
21	24
22	34
23	20
24	11
25	44
<b>896 acres total</b>	

Enclosure (4)

2157

2-469  
1913

1-469  
0300

22-469  
0301

20-368  
0304

18-369  
0103

17-469  
1918

19-469  
0403

16-469  
0304

15-269  
0400

14-269  
0401

23-169  
01001

24-269  
0304

10-469  
0301

3-269  
0401

4-269  
0103

5-269  
0115

12-269  
1719

14-269  
0403

3-269  
0401

9-269  
0104

6-369  
0103

13-269  
0401

25-469  
0304

8-369  
0119

Plant 19  
Acres

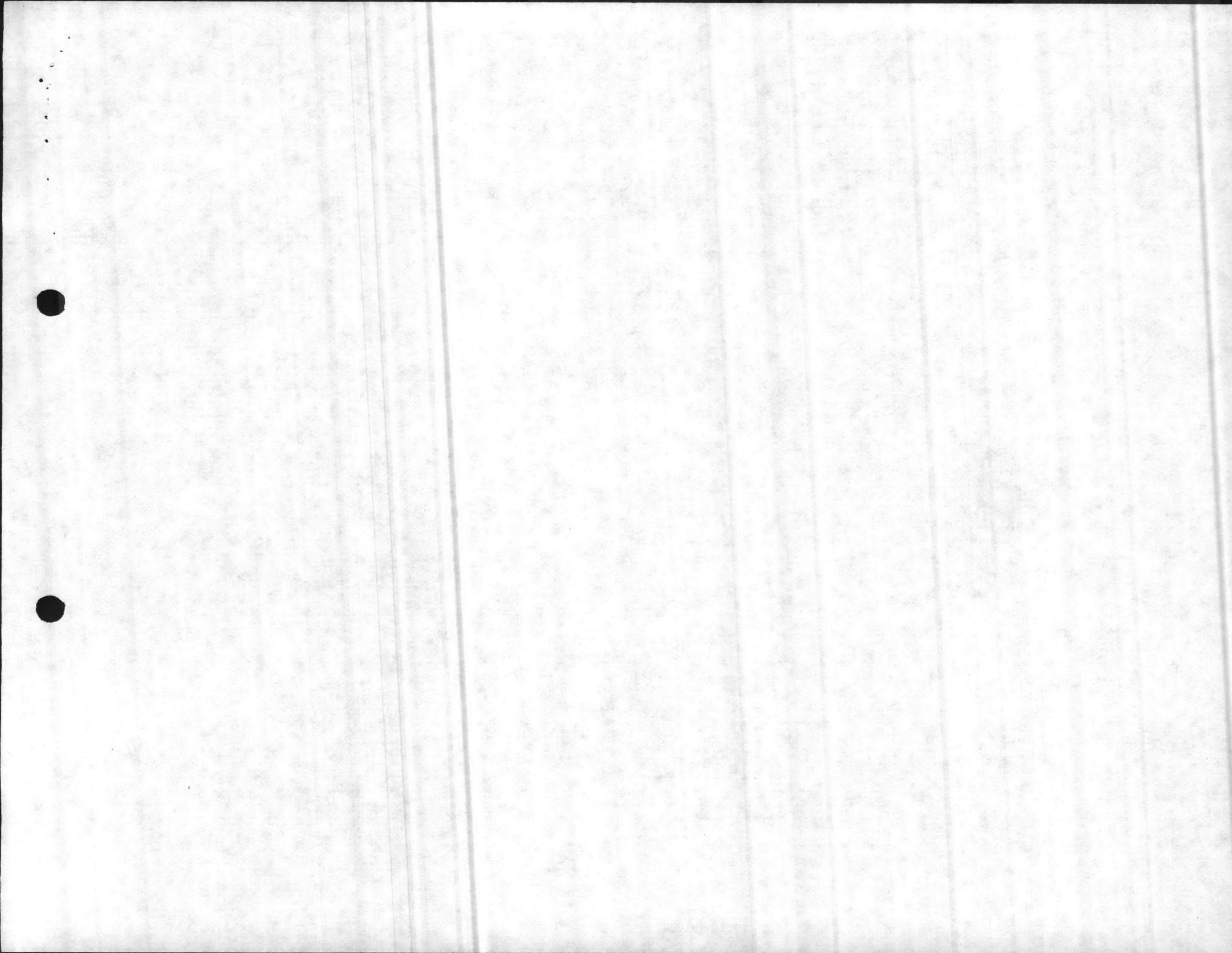
VERONA LOOP





Plant 40 acres

(5)



PROPOSED ENLARGEMENT OF DZ CONEOP

740 370



FISHER ROAD

TOWNE FRONT ROAD

5930.

VERNA LEE

OLD WILMINGTON ROAD

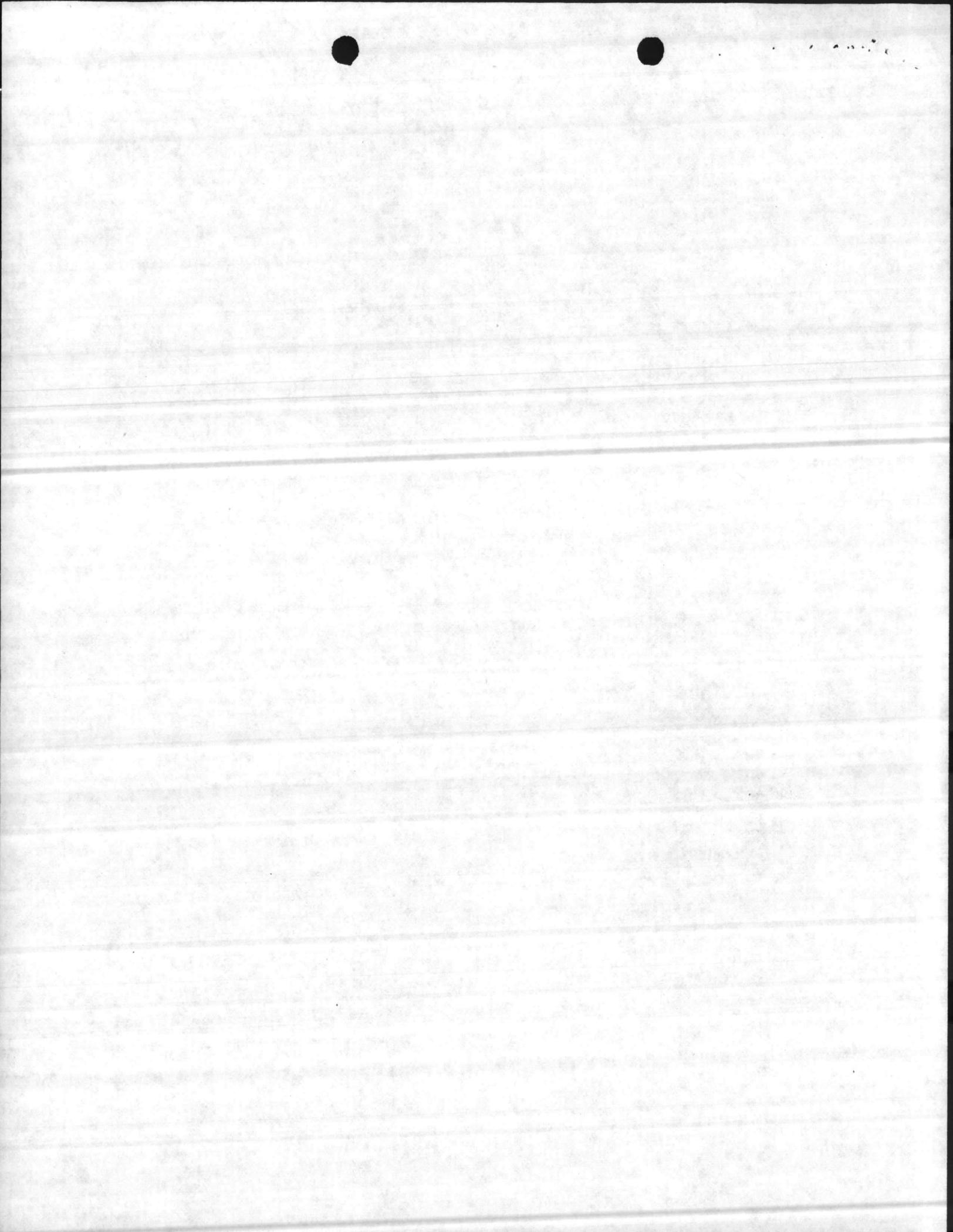
WILMINGTON ROAD

780 330



TO BE PLANTED  
FY-83

AREA AFFECTED  
BY PROPOSAL



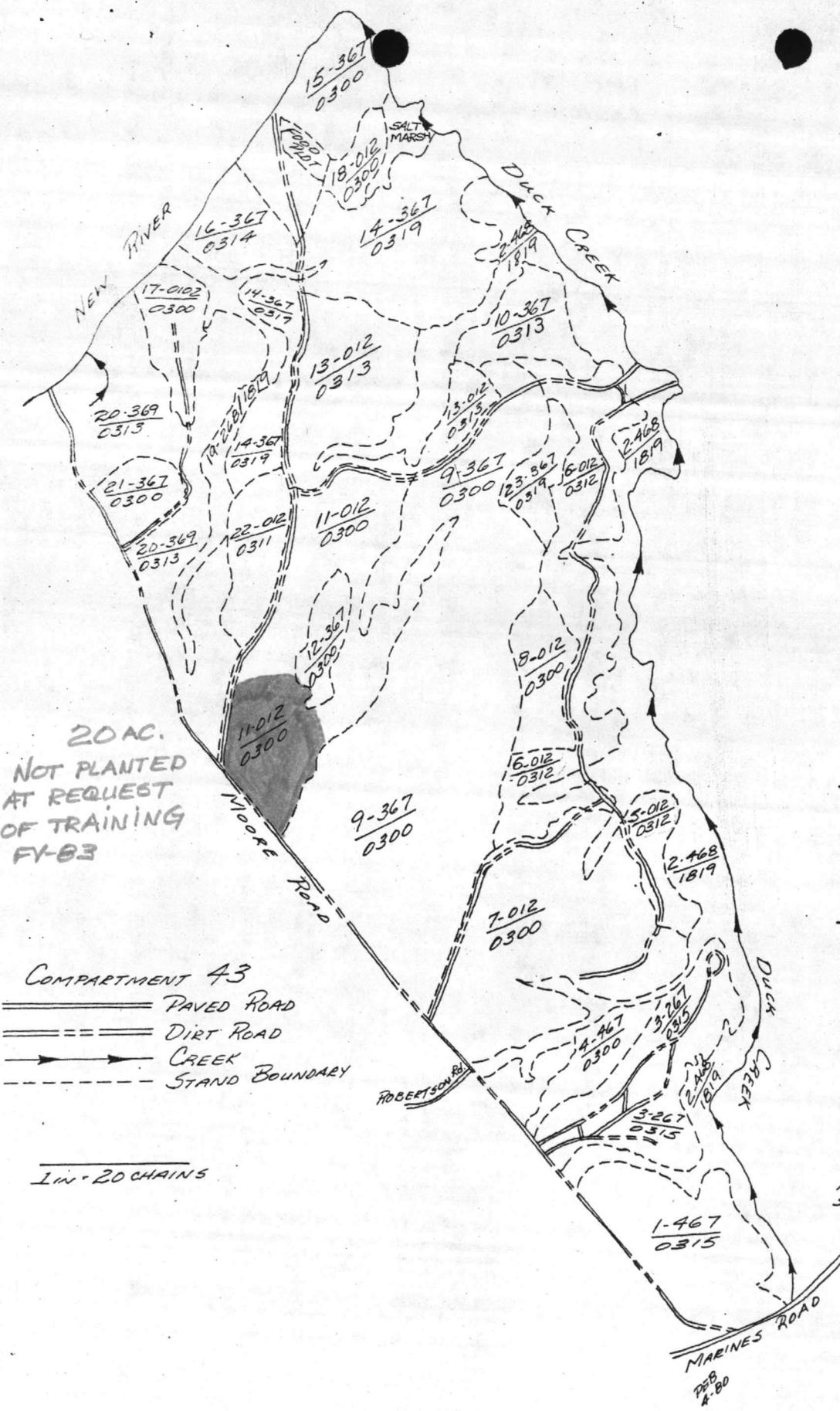
ALL THESE SPOTS  
WERE DESTROYED BY THESE  
WILDFIRE AND ALL  
WERE IN REGENERATION  
AT THE TIME OF THE FIRE.

#### 4. Complexity

The primary assignments  
FOREST PROTECTION, TIMBER STAIR  
AND IMPROVEMENT, AND TIMBER S  
the incumbents decisions  
the latest scientific and tec  
AVAILABLE, NREAD POLICY, PERV  
CONTRACTUAL EQUIPMENTS,  
the supervisor, SAFETY, perso  
KNOWLEDGE AND EXPERIENCE.

#### 5. SCOPE AND EFFECT

The purpose is to carry o  
ESTABLISHED BY THE ANNUAL O



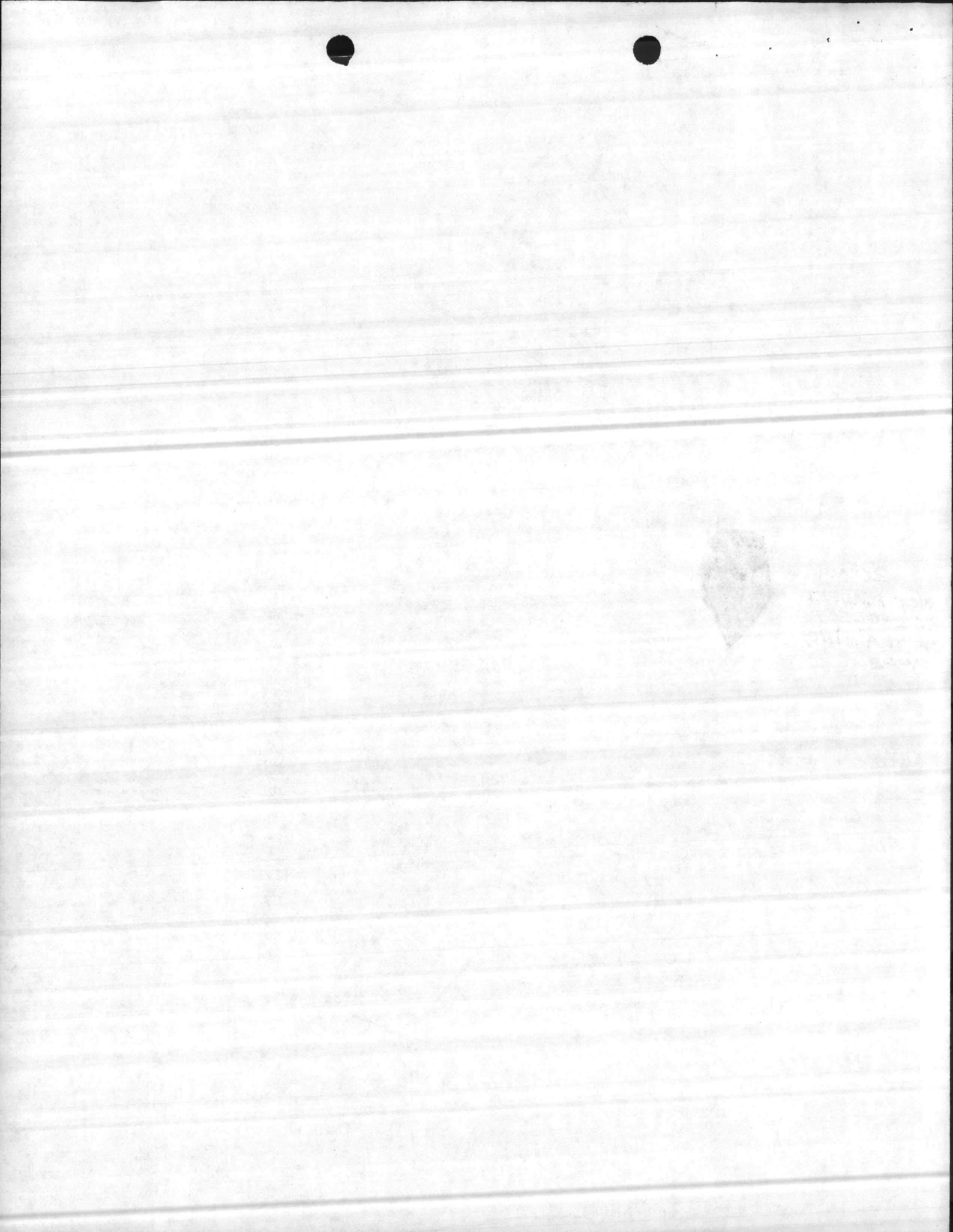
20 AC.  
NOT PLANTED  
AT REQUEST  
OF TRAINING  
FY-83

COMPARTMENT 43  
 ===== PAVED ROAD  
 - - - - - DIRT ROAD  
 -> -> -> CREEK BOUNDARY  
 - - - - - STAND BOUNDARY

1 in = 20 CHAINS

STAND #	GRASS	NET
1	37	37
2	107	107
3	35	35
4	10	10
5	9	9
6	50	50
7	78	78
8	14	14
9	148	148
10	15	15
11	64	64
12	8	8
13	42	42
14	60	60
15	27	27
16	14	14
17	13	13
18	6	6
19	17	17
20	76	76
21	10	10
22	16	16
23	9	9
FOODPLOT	39	39
SALT MARSH	873	873
	877	877
		865

PEB  
4-80



COMPARTMENT 42

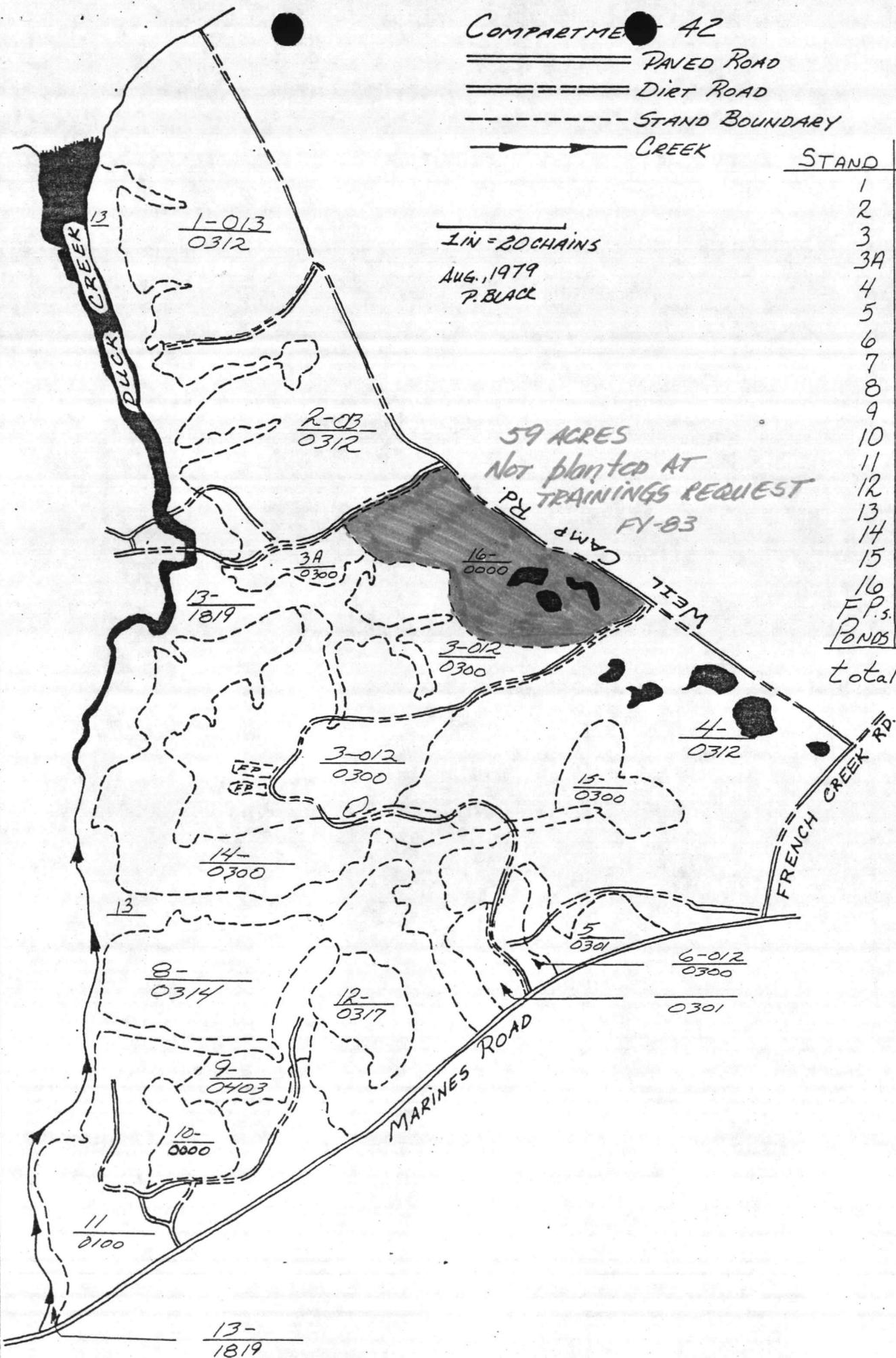
- ==== PAVED ROAD
- ===== DIRT ROAD
- - - - - STAND BOUNDARY
- → → CREEK

STAND	ACREAGE
1	95
2	94
3	117
3A	9
4	182
5	17
6	9
7	8
8	91
9	20
10	16
11	89
12	19
13	162
14	80
15	18
16	59
F.P.s	1
PONDS	3

1 IN = 20 CHAINS

AUG. 1979  
P. BLACK

59 ACRES  
NOT PLANTED AT  
TRAININGS REQUEST  
FY-83

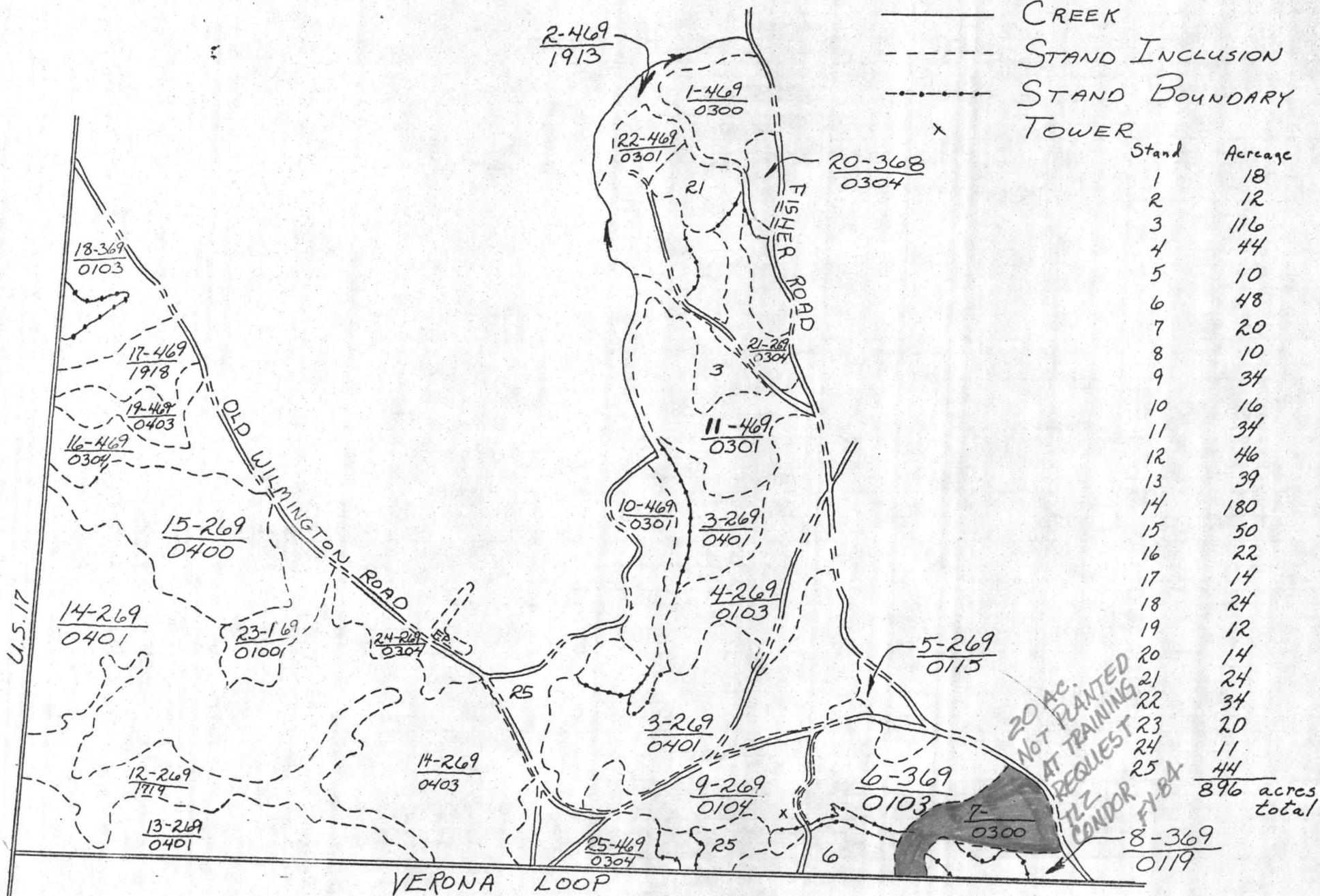


total = 1089a.



# COMPARTMENT 28

- ==== PAVED ROAD
- ==== DIAT ROAD
- CREEK
- - - STAND INCLUSION
- · - · - STAND BOUNDARY
- x TOWER



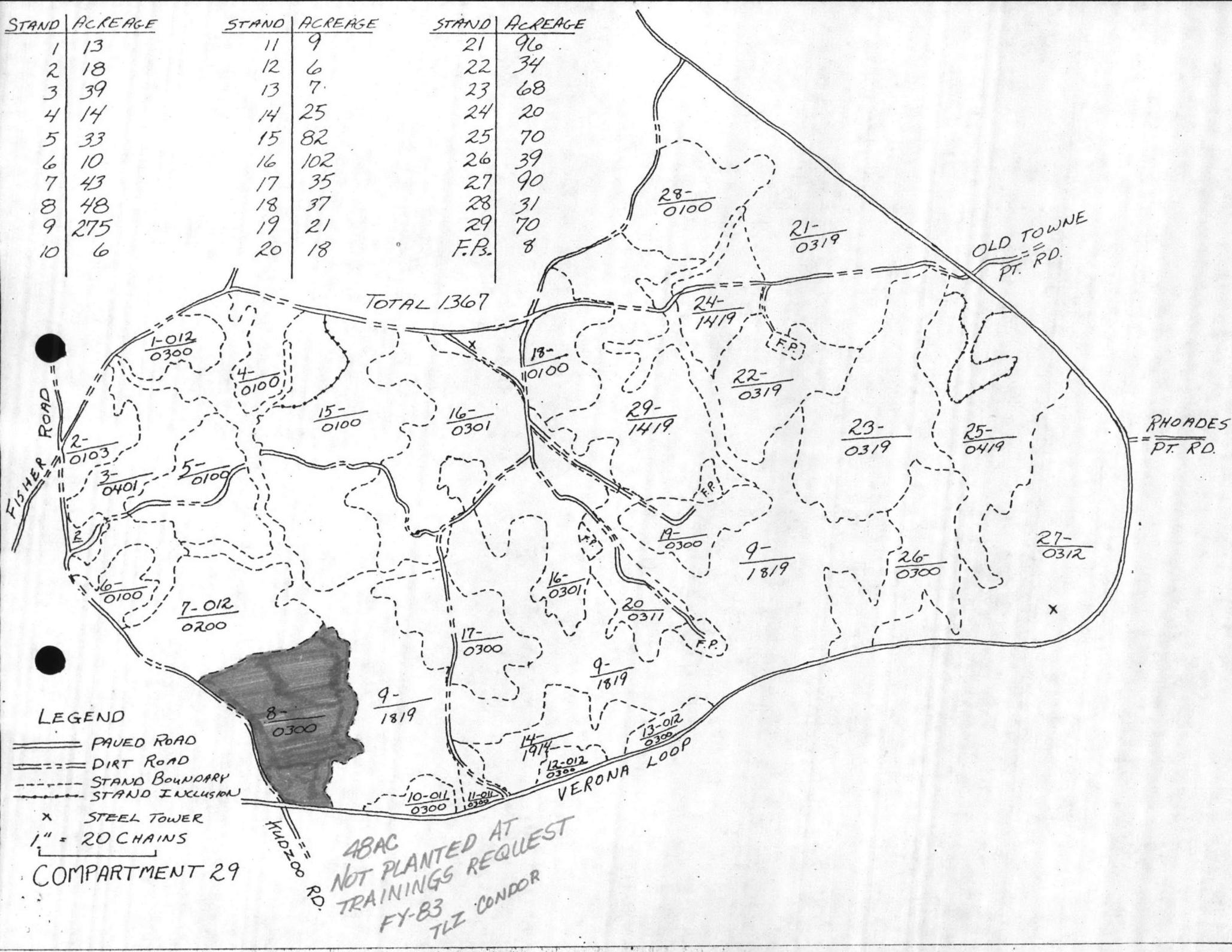
Stand	Acreage
1	18
2	12
3	116
4	44
5	10
6	48
7	20
8	10
9	34
10	16
11	34
12	46
13	39
14	180
15	50
16	22
17	14
18	24
19	12
20	14
21	24
22	34
23	20
24	11
25	44
<hr/>	
	896 acres total

20 AC.  
NOT PLANTED  
AT TRAINING  
TZL  
REQUEST  
CONDOR  
FY-84



STAND	ACREAGE	STAND	ACREAGE	STAND	ACREAGE
1	13	11	9	21	96
2	18	12	6	22	34
3	39	13	7	23	68
4	14	14	25	24	20
5	33	15	82	25	70
6	10	16	102	26	39
7	43	17	35	27	90
8	48	18	37	28	31
9	275	19	21	29	70
10	6	20	18	F.P.	8

TOTAL 1367



LEGEND

- ==== PAVED ROAD
- DIRT ROAD
- - - - STAND BOUNDARY
- - - - STAND INCLUSION
- x STEEL TOWER
- 1" = 20 CHAINS

COMPARTMENT 29

48AC  
NOT PLANTED AT  
TRAININGS REQUEST  
FY-83  
TLZ CONDOR



FY-83  
PLANTING  
111 ACRES

(ABOUT  $\frac{1}{3}$  OF ACRES WE SHOULD  
REGENERATE ANNUALLY)

(DID NOT PLANT 147 ACRES THAT WAS  
SITE PREPARED AT THE REQUEST OF  
TRAINING.)

progress.

The incumbents will be  
checked for technical comp  
GROUND inspections.

### 3. GUIDELINES

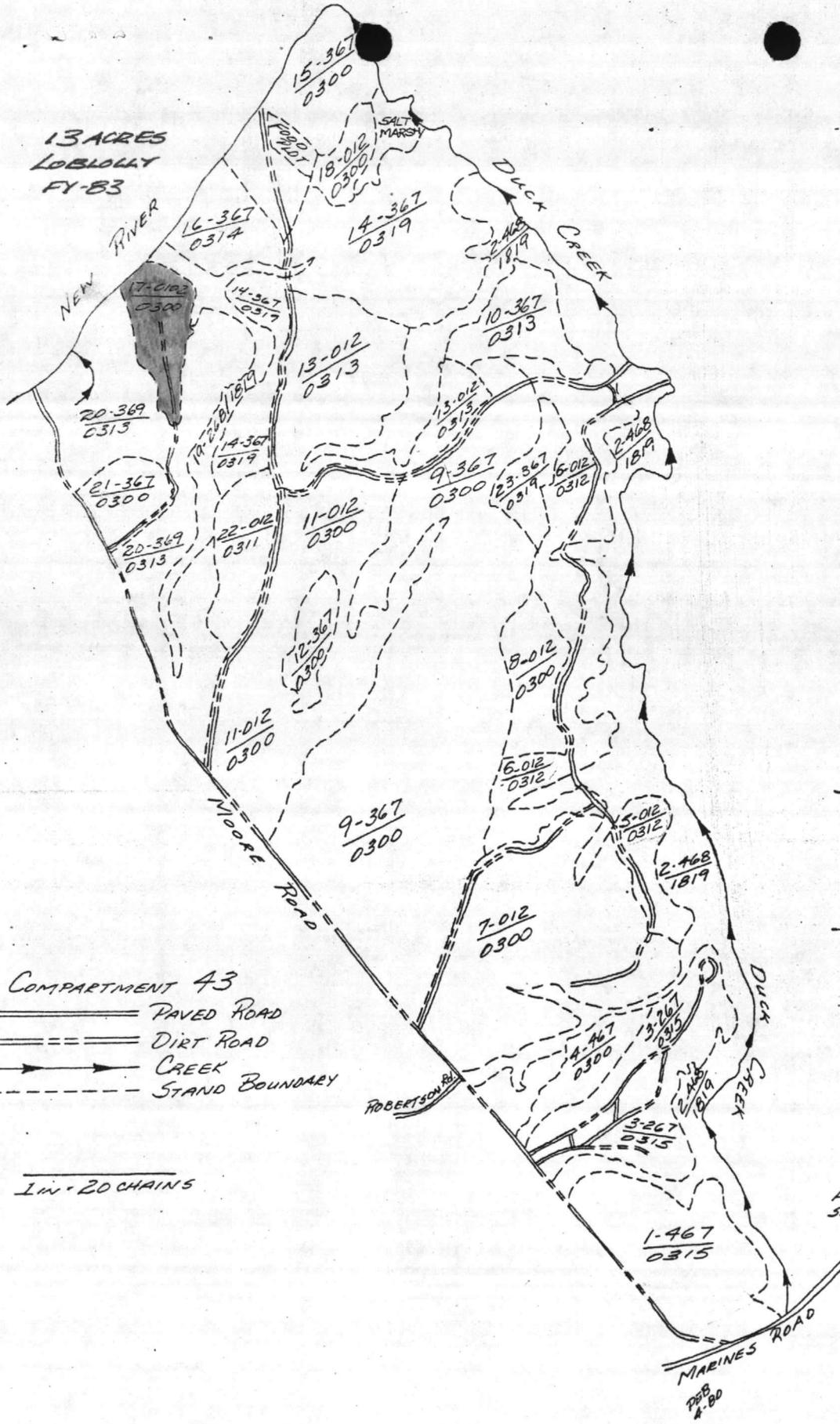
GUIDELINES ~~ARE SET FORTH~~

~~ALL PROCEDURE SET FORTH~~

~~ENVIRONMENTAL AFFAIRS DIVISION~~

~~RESULTS AND WRITTEN OR ORAL~~

13 ACRES  
LOBLOLLY  
FY-83



COMPARTMENT 43

==== PAVED ROAD  
 - - - - DIRT ROAD  
 -> -> CREEK BOUNDARY  
 - - - - STAND BOUNDARY

1 in = 20 CHAINS

STAND #	GRASS	NET
1	37	37
2	107	107
3	35	35
4	10	10
5	9	9
6	50	50
7	78	78
8	14	14
9	148	148
10	15	15
11	64	64
12	8	8
13	42	42
14	60	60
15	27	27
16	14	14
17	13	13
18	6	6
19	17	17
20	76	76
21	10	10
22	16	16
23	9	9
FOODPLOT	873	873
SALT MARSH	877	877
	<u>873</u>	<u>873</u>
		<u>865</u>

12/15/19  
12/16/19  
12/17/19

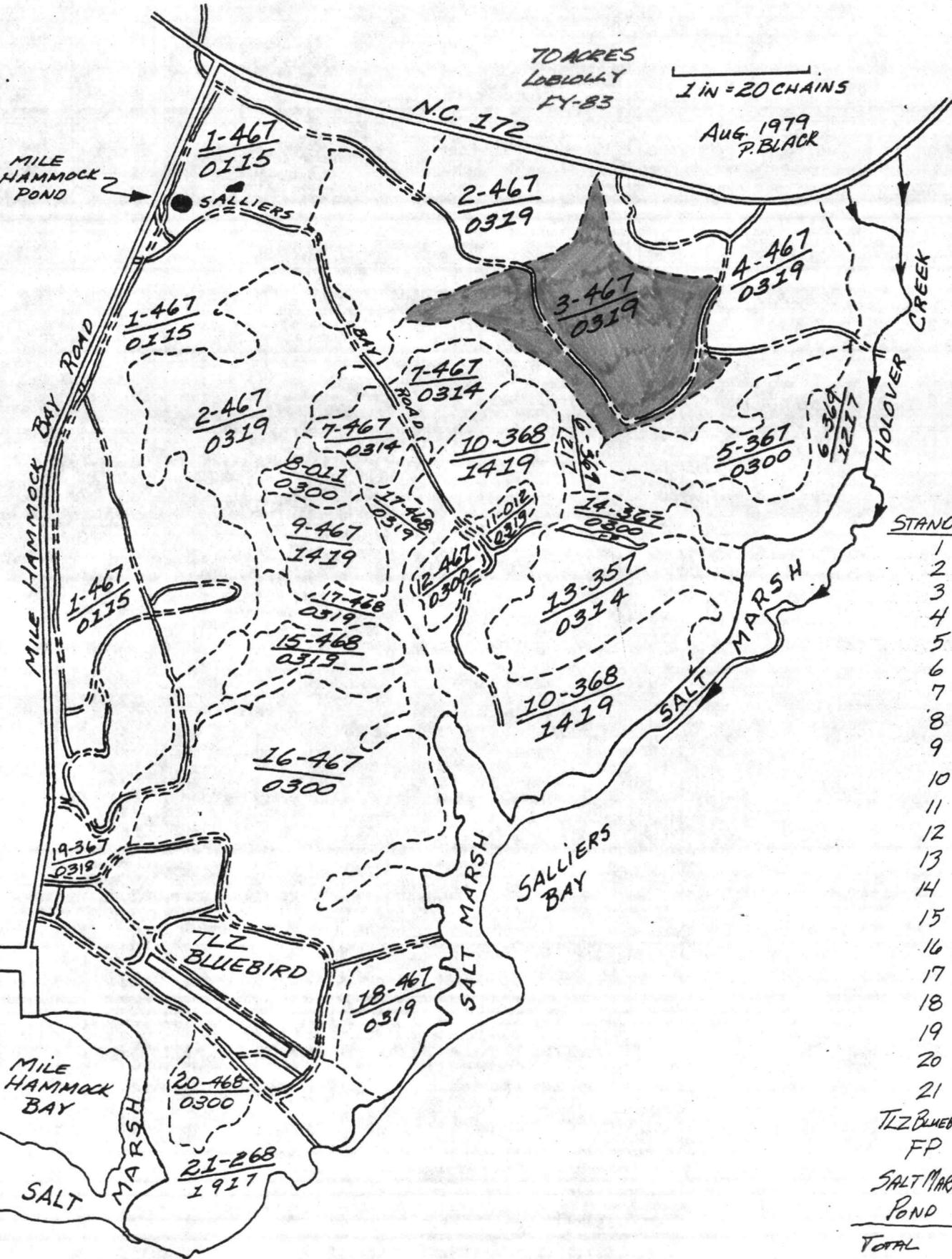
# COMPARTMENT 59

- ==== PAVED ROAD
- ===== DIRT ROAD
- CREEK
- - - - STAND BOUNDARY

70 ACRES  
LOBLOLLY  
FY-83

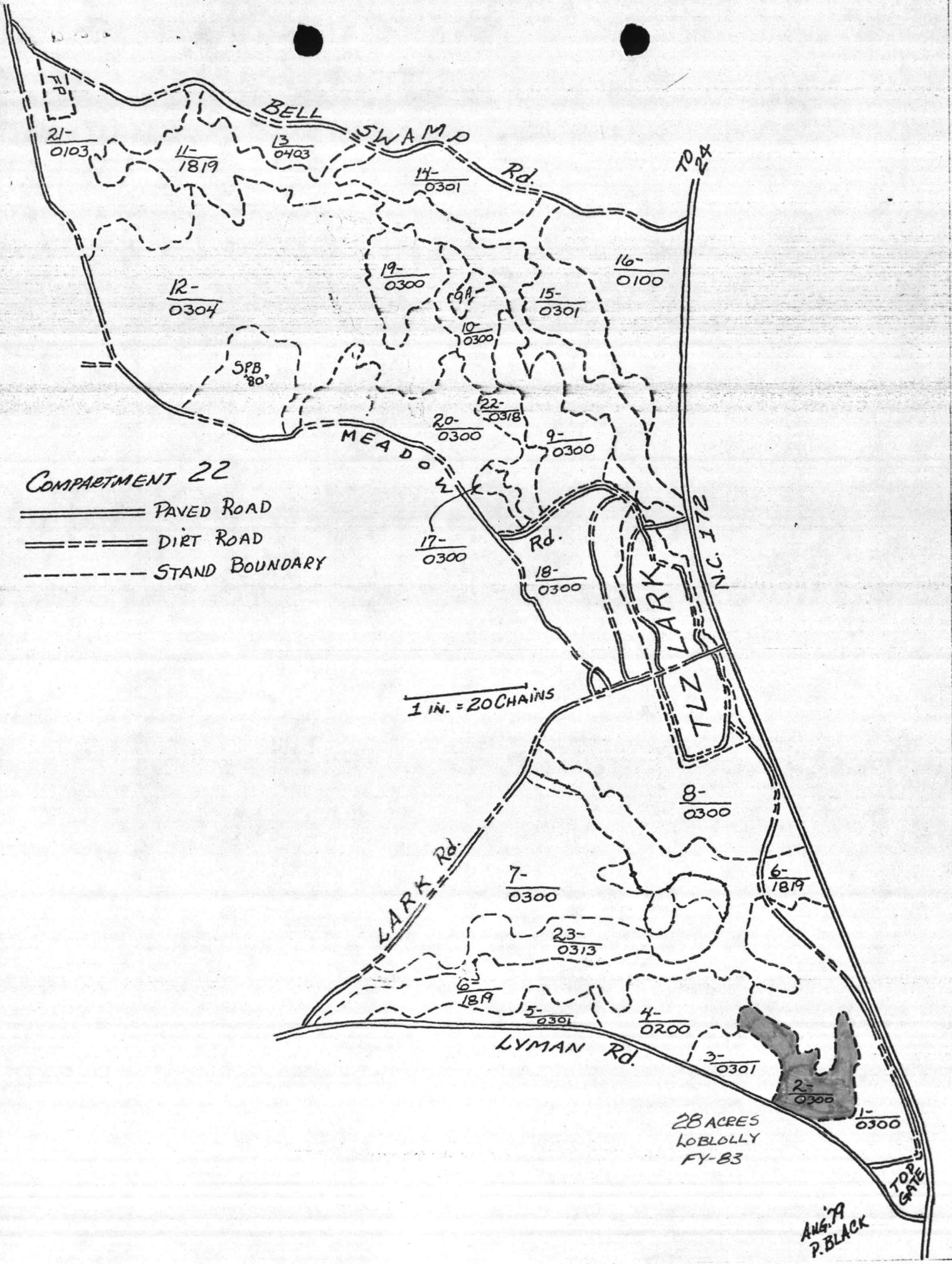
1 IN = 20 CHAINS

AUG. 1979  
P. BLACK



STAND	ACREAGE
1	227
2	138
3	70
4	72
5	32
6	70
7	30
8	9
9	19
10	111
11	3
12	6
13	46
14	12
15	14
16	116
17	49
18	24
19	22
20	13
21	71
TLZ BLUEBIRD	83
FP	1
SALT MARSH	101
POND	1
<b>TOTAL</b>	<b>1340 a</b>

1952  
1951  
1950



**COMPARTMENT 22**

- ==== PAVED ROAD
- ===== DIRT ROAD
- - - - - STAND BOUNDARY

1 IN. = 20 CHAINS

28 ACRES  
LOBLOLLY  
FY-83

AUG 79  
P. BLACK

BELL SWAMP Rd.

MEADOW LARK Rd.

LARK Rd.

LYMAN Rd.

N.C. 172

TO 24

TOP GATE

21-  
0103

11-  
1819

13-  
0403

14-  
0301

12-  
0304

19-  
0300

10-  
0300

15-  
0301

16-  
0100

SPB  
'80

20-  
0300

22-  
0318

9-  
0300

17-  
0300

18-  
0300

8-  
0300

7-  
0300

6-  
1819

23-  
0313

6-  
1819

5-  
0301

4-  
0200

LYMAN Rd.

3-  
0301

2-  
0300

1-  
0300

1952  
JANUARY  
1952

## DEPARTMENT OF THE NAVY - DUPLICATING NOTE

Use only for an informal, preferably hand-written note. Make duplicate only when required for follow-up or working file. See correspondence manual for formal, official memoranda.

TO: Julian

<input type="checkbox"/> ACTION	<input type="checkbox"/> COORDINATE	<input type="checkbox"/> PREPARE FOR SIGNATURE
<input type="checkbox"/> AS DISCUSSED	<input type="checkbox"/> CORRECTION	<input type="checkbox"/> REPORT BACK
<input type="checkbox"/> CALL/SEE ME	<input checked="" type="checkbox"/> INFORMATION	<input type="checkbox"/> RETURN
<input checked="" type="checkbox"/> COMMENT/CLEAR	<input type="checkbox"/> PREPARE DRAFT	<input type="checkbox"/>

It appears that training has plans for using our major tree planting areas, this winter, for other purposes.

Examples: (1) The areas that have been H&C'd & bedded on the Weil camp & Moore roads. Now we hear they want an area that we have bedded to plant for a "drop zone Conder".

What do you recommend? - plant or forget for this winter. we have seedlings bought.

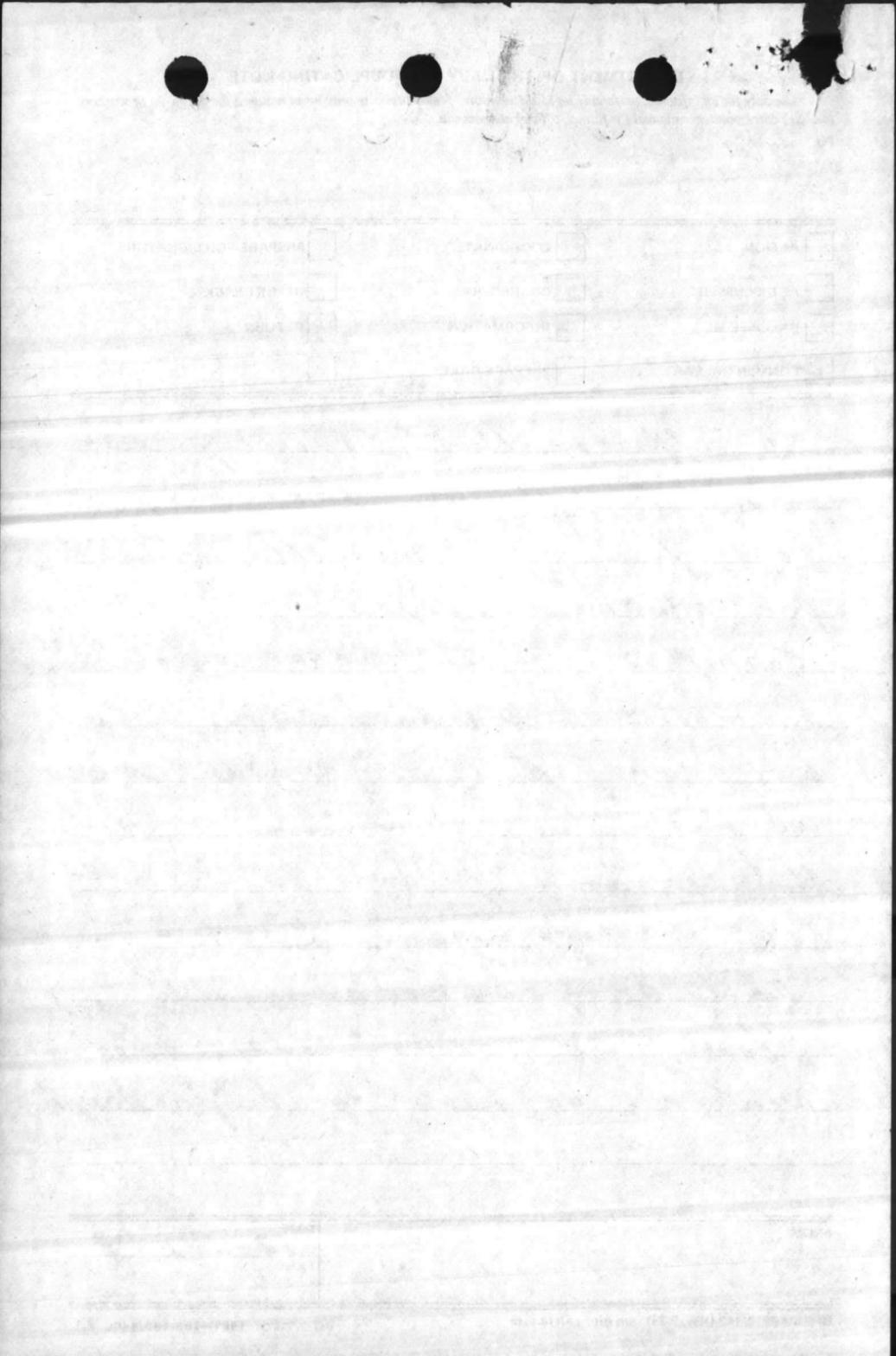
FROM:

Kon

DATE

12-14-82

EXT.



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

12-20-82  
Date

From:  
To: *Kem*

Subj: *But with Training and find out what is planned. We have paper work on Cordos.*

*As I have mentioned to you before and talked with Marko about - I anticipate more problems with training and regeneration sites.*

*I think we are going to have to take a closer look at clear cut sites we have control over.*

*It so happens that these sites were the result of forest fires that killed all of the timber & not planned clear cuts*

*Julian*



The first part of the document  
 is a list of names and dates  
 which are arranged in a table  
 format. The names are written  
 in a cursive hand and the  
 dates are in a more formal  
 script. The table has several  
 columns and rows, with the  
 names in the first column and  
 the dates in the second column.  
 The rest of the document  
 contains a series of paragraphs  
 of text, which are also written  
 in a cursive hand. The text  
 appears to be a continuation  
 of the information provided in  
 the table, and it is arranged  
 in a similar format to the  
 table.

*Don*  
*Peter Block*  
*Charlie*

11102  
FAC

11102

Assistant Chief of Staff, Facilities, Marine Corps Base,  
Camp Lejeune  
Assistant Chief of Staff, Training and Operations

SUPPORT REQUIREMENTS FOR SS-85 AT DZ CONDOR

- ef: (a) CDR 1STCORPSSPTCMD Ft Bragg 121135Z Mar 85  
(b) Site visit between Capt Sherman, XVIII Airborne Corps  
and Mr. Alexander, FAC, MCB CLNC, 4 Apr 85

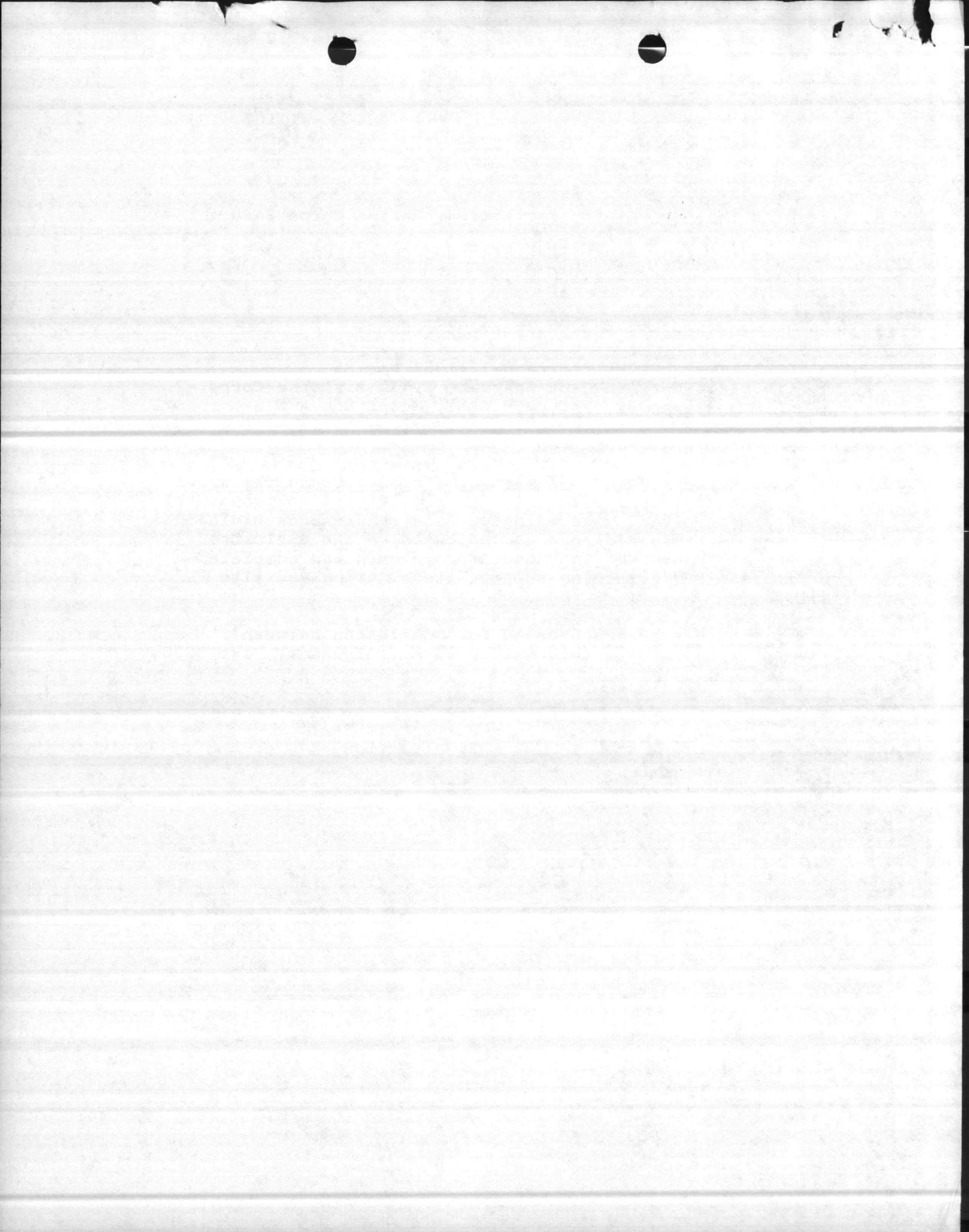
el: (1) Sketch of DZ Condor Area

1. Support requirements as requested by reference (a) were evaluated during reference (b). No significant environmental issues are involved. Accordingly, Base Maintenance Division will provide the assistance as indicated on the enclosure. Capt Sherman concurred in these improvements and completed coordination for remaining support items during the site visit.

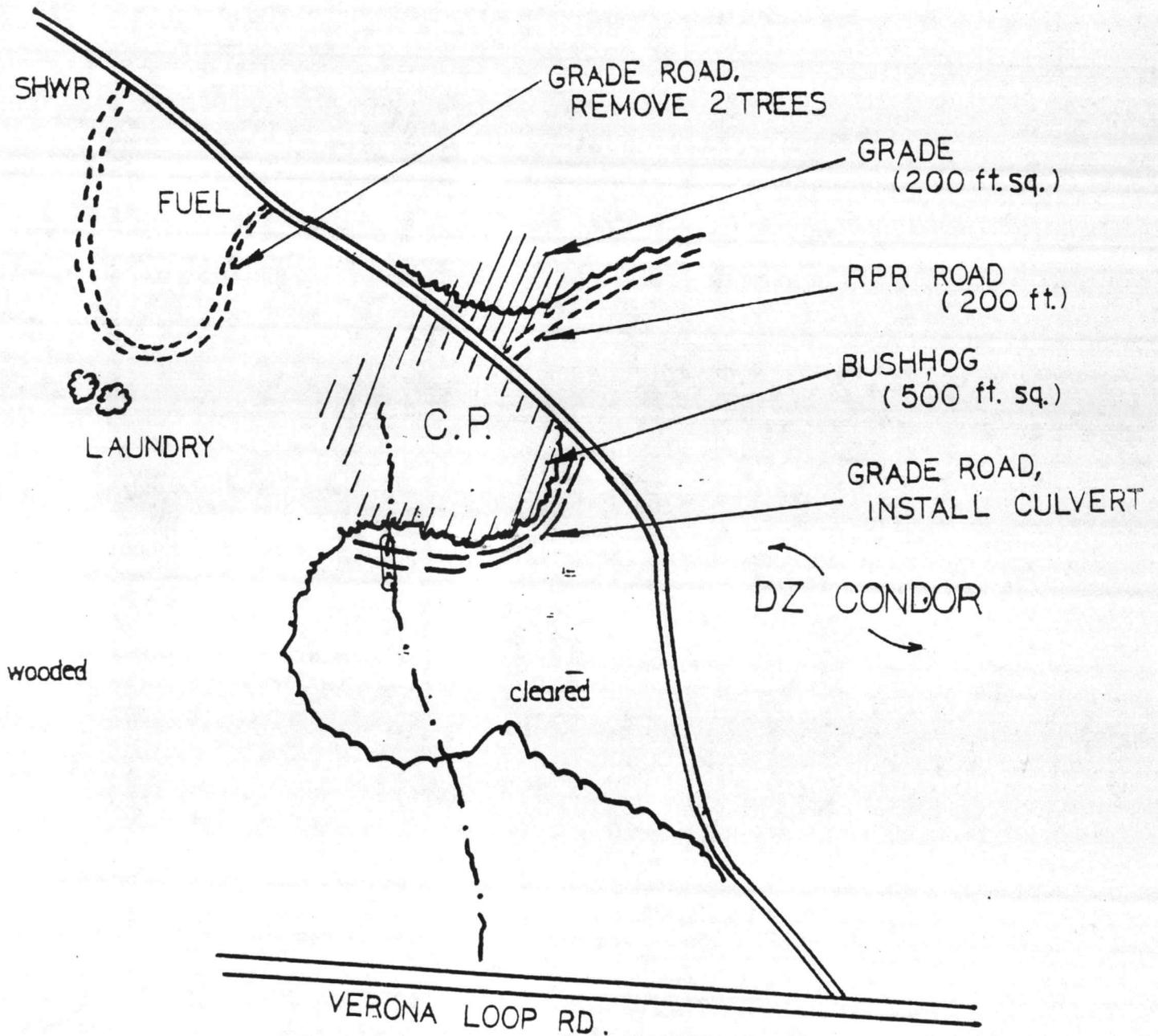
2. The work has been scheduled for completion between 11-16 April 1985. POC this matter is Mr. Alexander, ext 3035.

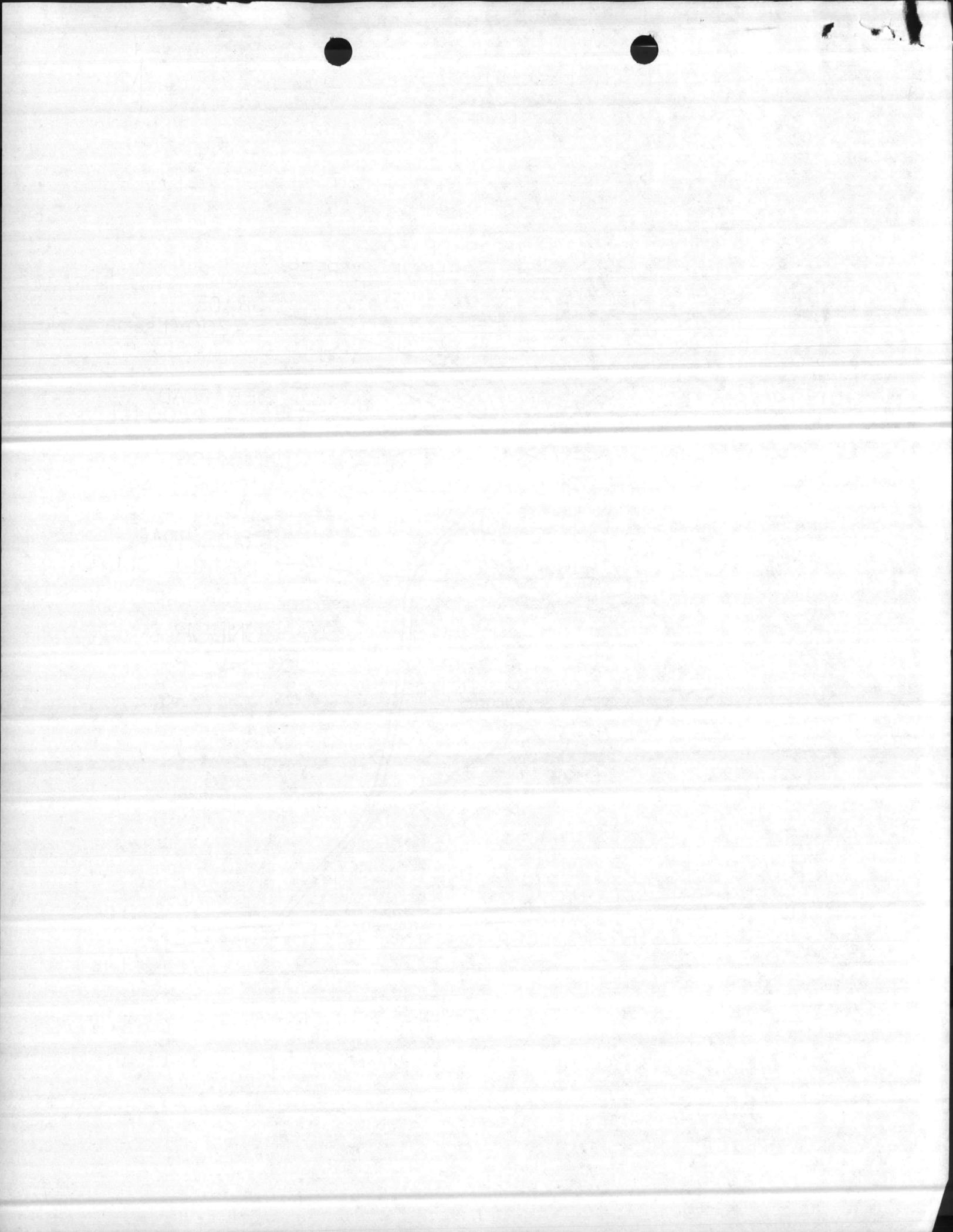
J. G. FITZGERALD  
By direction

Copy to:  
EnvEngr  
→ NREAD



# SITE IMPROVEMENTS DZ CONDOR





PAC/REA/hf  
6280  
6 April 1983

SECOND ENDORSEMENT on CO, 2d ANGLICO ltr 3/WMG/kbp 1500/5 dtd 8 Nov 82

From: Commanding General  
To: Commanding Officer, 2d Force Service Support Group (Rein),  
Fleet Marine Force, Atlantic, Camp Lejeune, NC 28542

Subj: Clearance and Expansion of DZ Condor

Ref: (a) BO 11000.1A

Encl: (1) Dir, NREAD ltr NREAD/DDS/th 11000 dtd 12 Jan 1983

1. Subject request of the basic correspondence has been evaluated for the purpose of identifying major constraints on the project. As indicated on the enclosure, the results of an on-site review show this to be an extremely poor site due to clearing requirements, steep slopes, and problem soils. Further, extensive maintenance will be required to retain the site in a satisfactory condition.

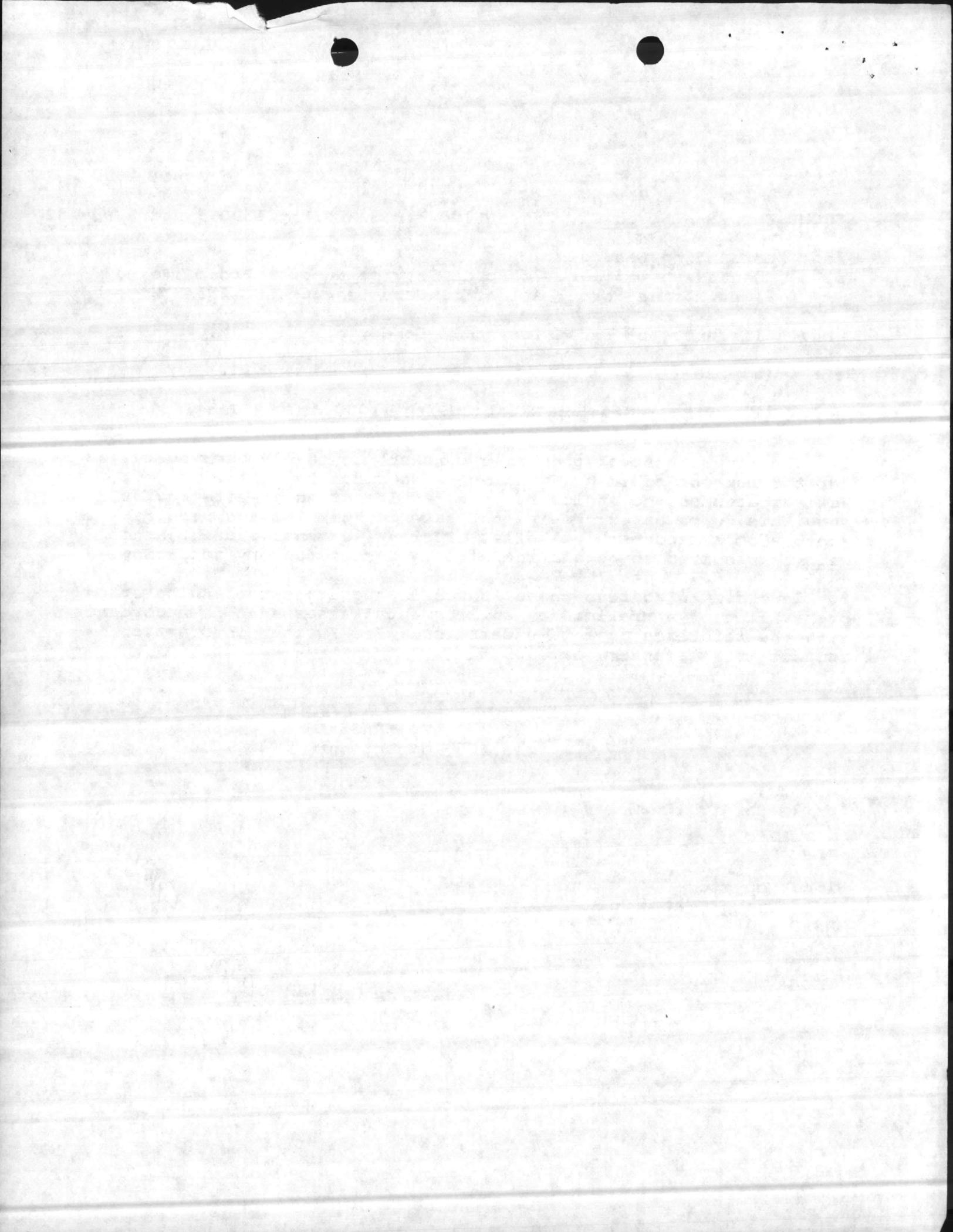
2. In order to address these issues in the project planning stage, preparation of a preliminary environmental assessment in accordance with the reference must be undertaken. For further information, contact Mr. Alexander, ext. 3034.

J. T. MARSHALL  
By direction

Copy to:  
CG, 2d MarDiv (G-3T)

Blind Copy to:  
AC/S, Trng (TFACO)  
NREAD

*CONDOR EXPANSION*





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

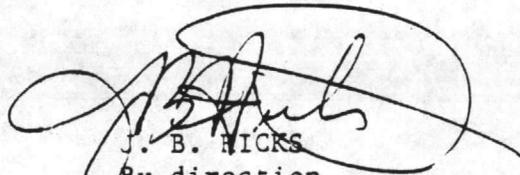
IN REPLY REFER TO  
3T/JBH/car  
1500  
22 Nov 1982

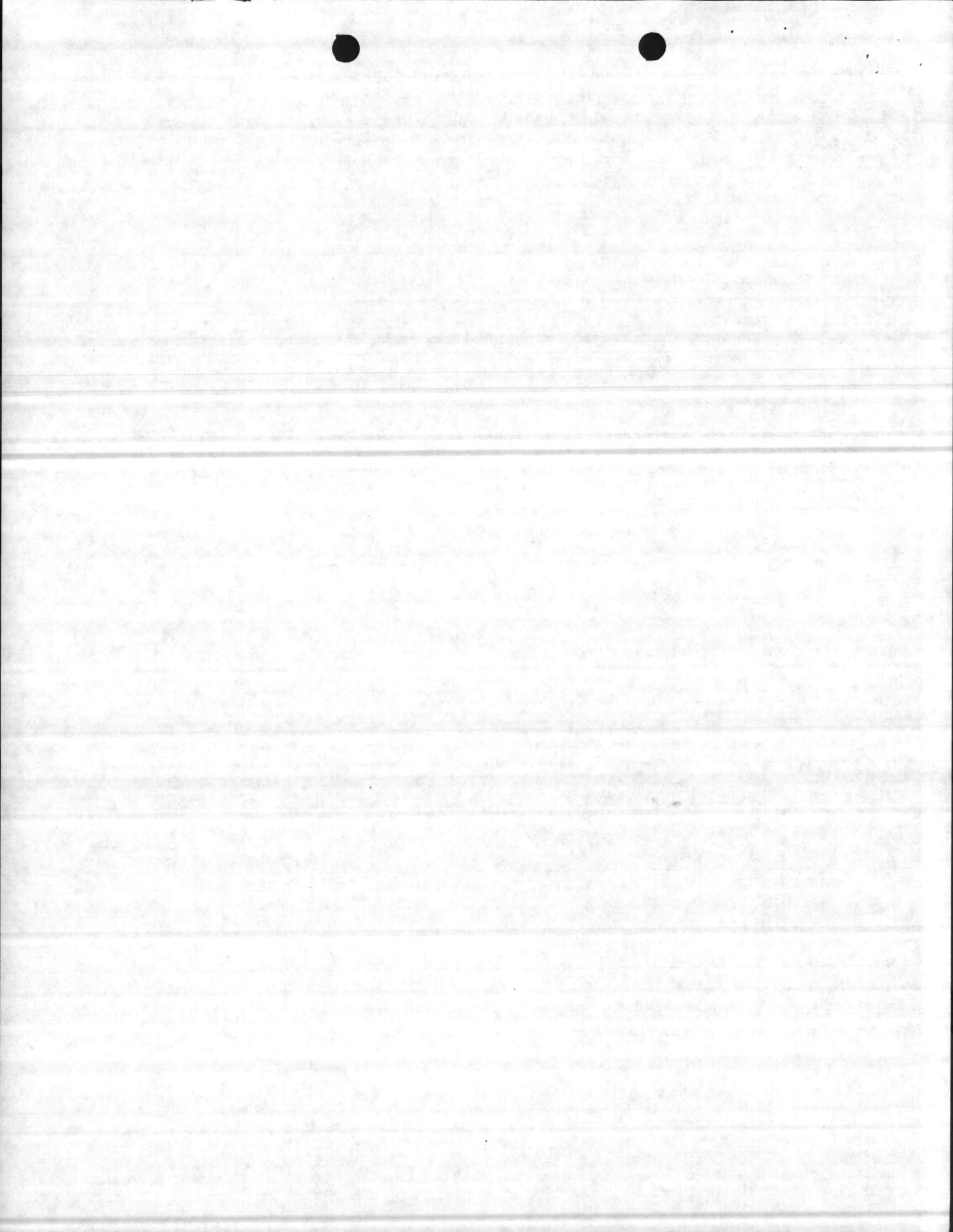
FIRST ENDORSEMENT on CO, 2d Anglico ltr 3/WMG/kbp over 1500/5 dtd 8 Nov 82

From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina  
28542 Attn: Facilities Officer)

Subj: Clearance and Expansion of DZ-CONDOR

1. Forwarded for evaluation of feasibility. If deemed feasible this command will prepare an environmental impact statement, if all other aspects are deemed feasible.

  
J. B. HICKS  
By direction



UNITED STATES MARINE CORPS  
2d Air and Naval Gunfire Liaison Company  
Fleet Marine Force, Atlantic  
Camp Lejeune, North Carolina 28542

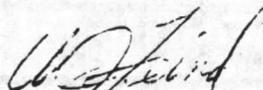
3/WMG/kbp  
1500/5  
8 Nov. 1982

From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune,  
(Attn: Training Facilities Officer)  
Via: Commanding Officer, 2d FSSG (AC/S Trng)  
Subj: Clearance and Expansion of DZ Condor  
Ref: (a) Hqtrs MAC, Scott Air Force Base Ill 62225, Assault  
Zone Availability Report dtd 30 Aug 1982 (NOTAL)  
Encl: (1) Proposed Expansion of DZ Condor

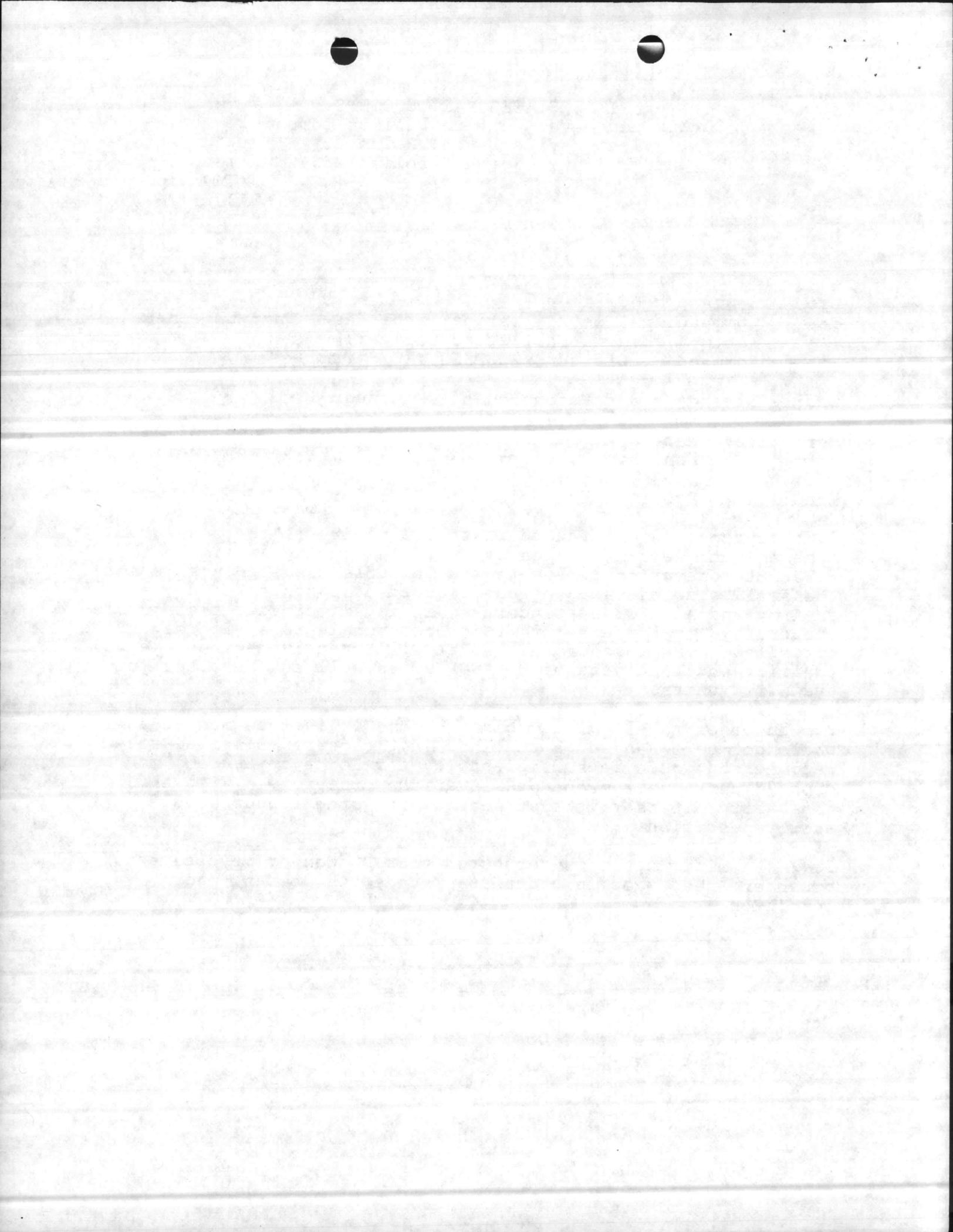
1. Reference (a) indicated that DZ Bluebird is the only Drop Zone on Camp Lejeune currently certified by the Air Force for parachute operations. Due to the multiple use of Bluebird and the small size of Camp Lejeune's other drop zones (as compared to Army and Air Force standards), it is anticipated that future support by Air Force aircraft for personnel drops will be further curtailed. The loss of this asset will greatly degrade the training and readiness of 2d ANGLICO as well as the other jump qualified units.

2. In order to alleviate this problem, it is recommended that DZ Condor be expanded as outlined in enclosure (1). The size recommended would be sufficient (by Air Force criterion) to drop 28 personnel on one pass over the drop zone. With this capability, it is felt that future Air Force support could be easily justified.

3. As a minimum, it is requested that DZ Condor be cleared of all brush and dead wood in order to upgrade its present poor condition.

  
W. J. FEIND

Copy to:  
2d Force Recon Co  
2d LSB



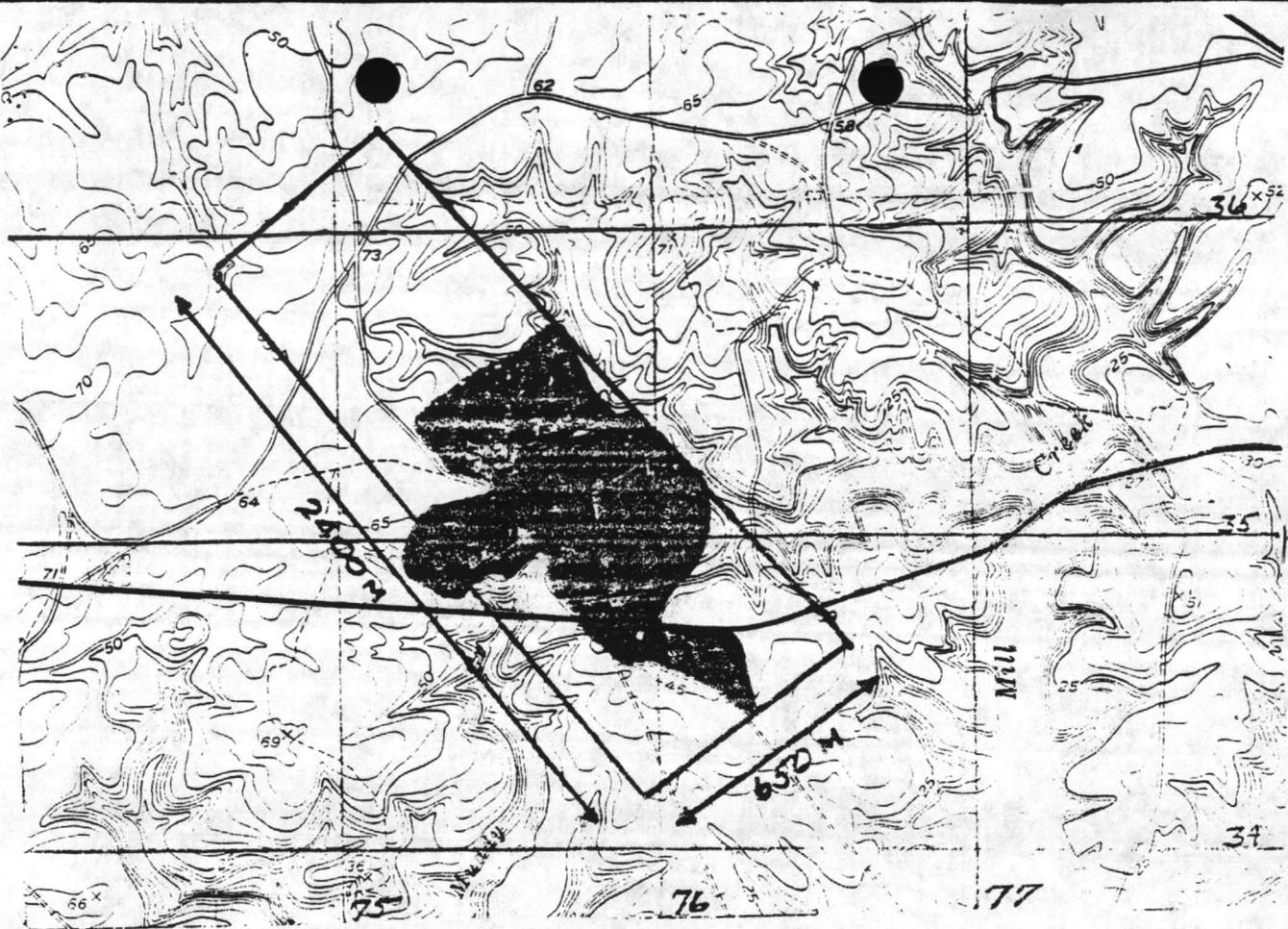
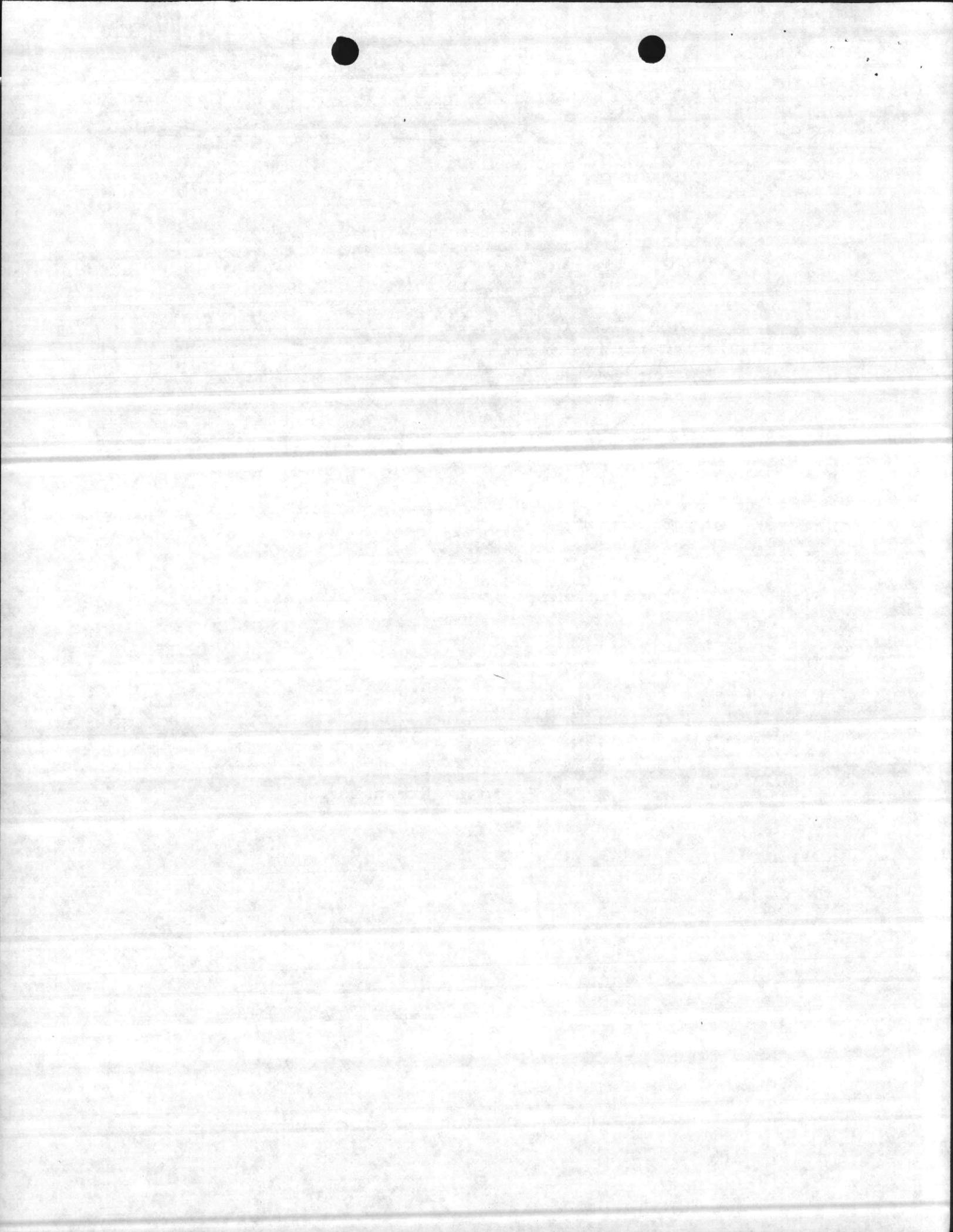


Figure 1: Proposed expansion of DZ Condor

-  Present size of DZ Condor
-  Reforested Areas
-  Proposed Expansion



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

NREAD/DDS/th  
11000  
12 Jan 1983

From: Director  
To: Assistant Chief of Staff, Facilities

Subj: Proposed Drop Zone Condor

Ref: (a) BO 11000.1A

Encl: (1) CO 2dFSSG ltr 3/WMG/rbp 1500/5 of 8 Nov 1982  
(2) Erodible Areas, DZ Condor

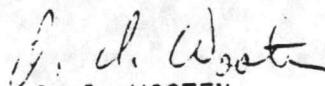
1. The subject project has been reviewed for the purpose of identifying any constraint having major impact on feasibility of the project described in enclosure (1). The following considerations were identified.

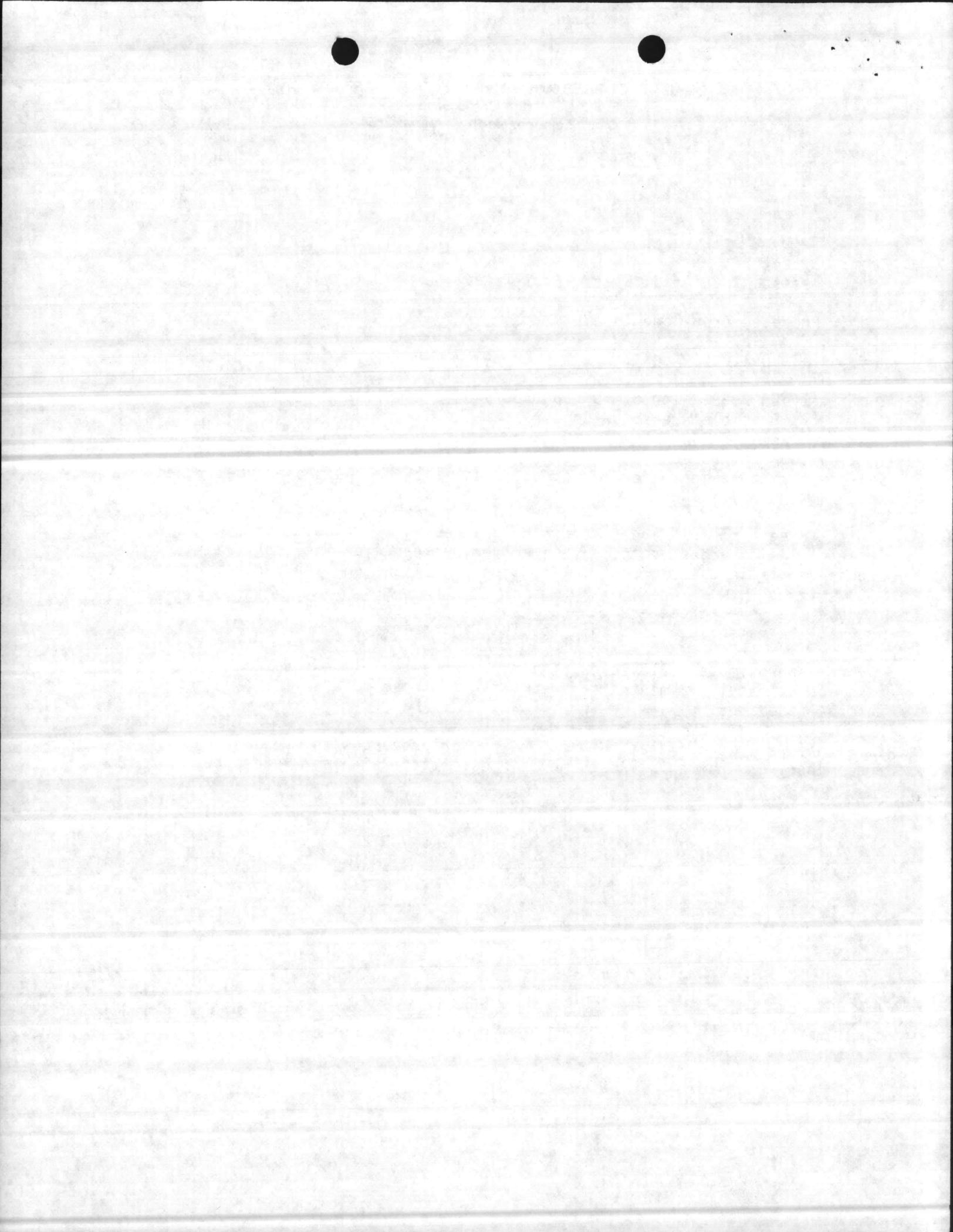
a. Steep erodible areas (shown on enclosure (2)) should be addressed and clearing limits adjusted to leave a buffer between clearing and streams. Exposed soils in these areas will require stabilization with perennial grasses.

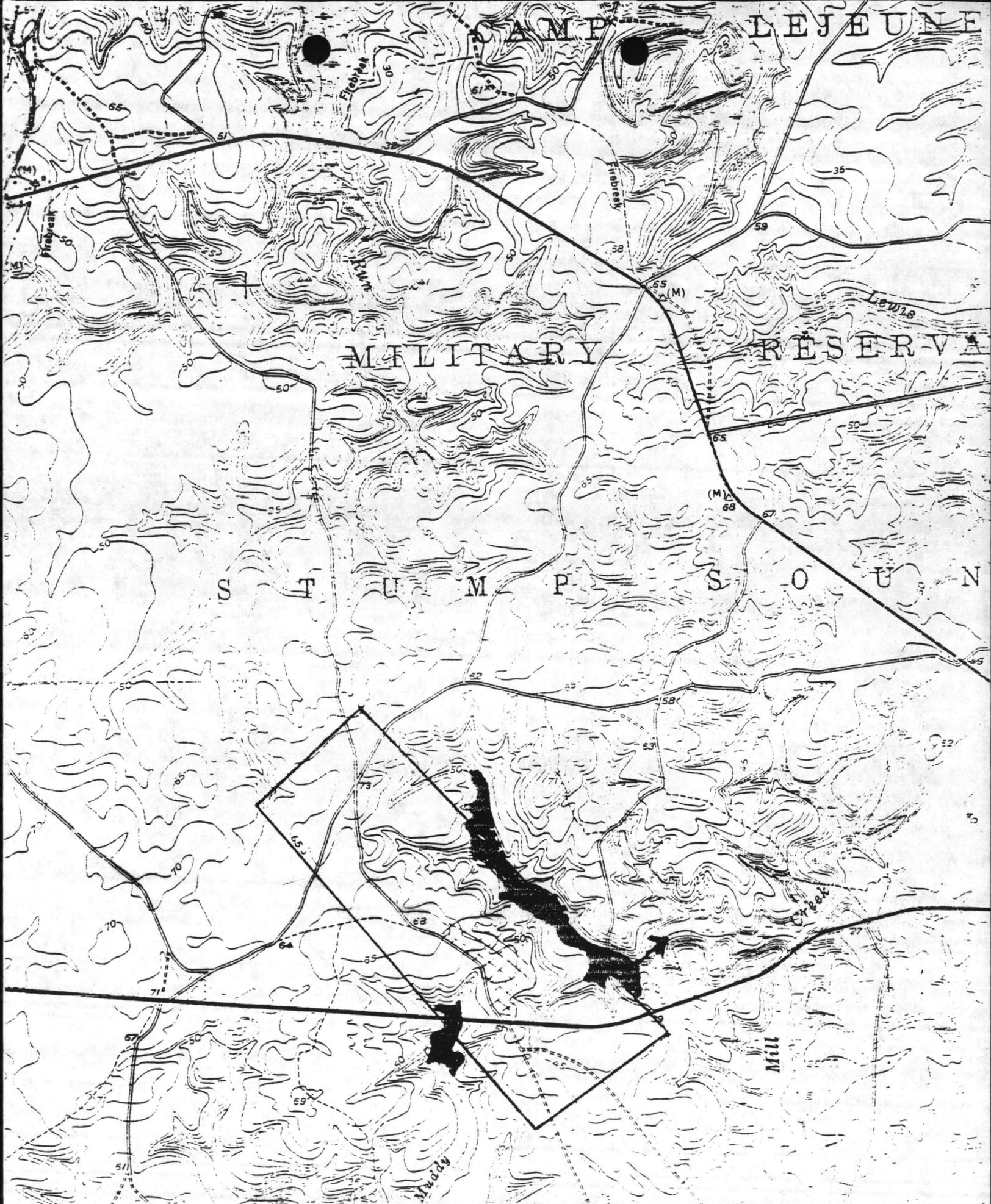
b. The level areas are generally made up of soils with high water tables and will be relatively difficult to clear and maintain.

c. Approximately 212 acres of timber harvest will be required and will take approximately 12 months to accomplish from the date this office is advised to clear the area.

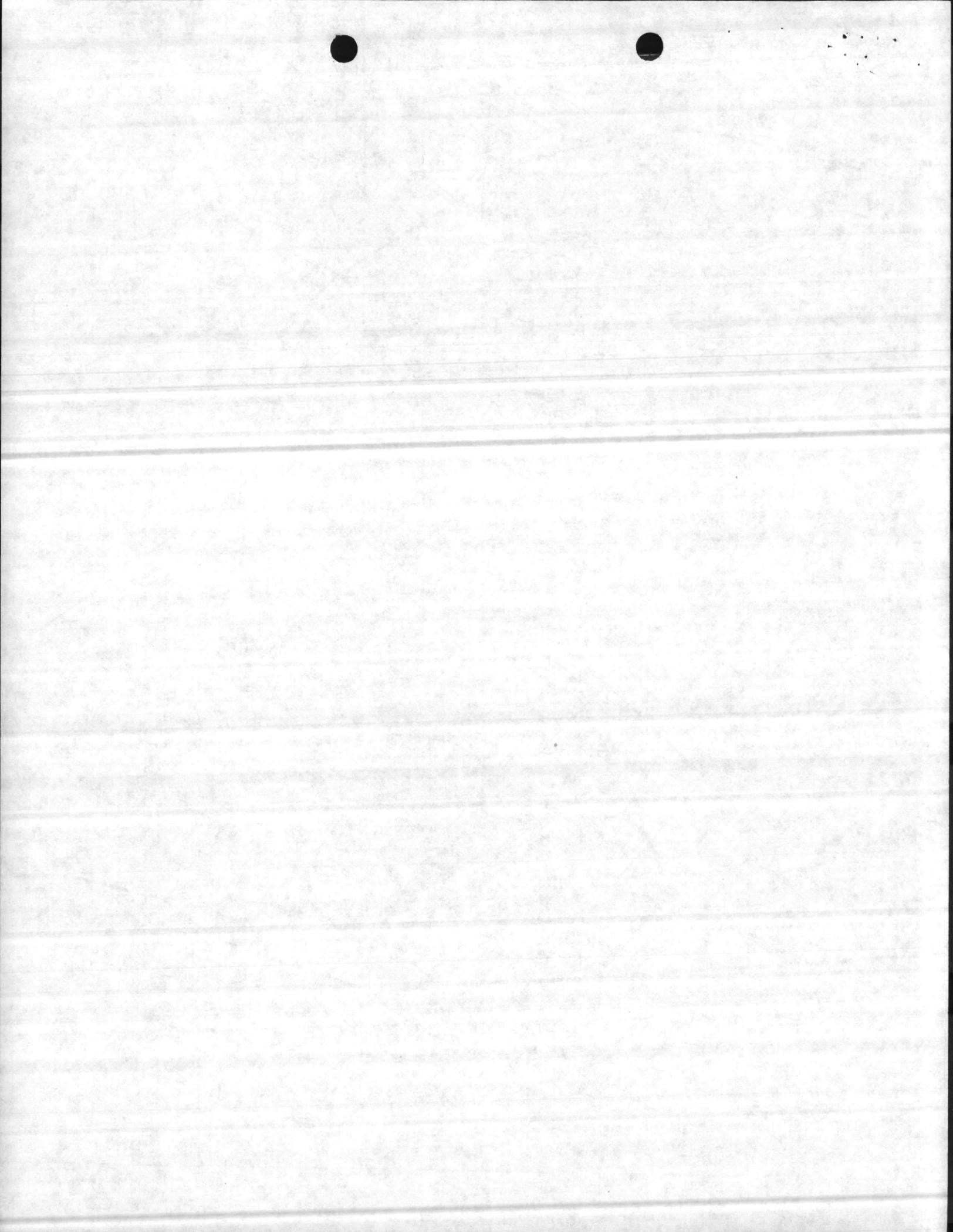
2. It is recommended that the action sponsor proceed with preparation of a Preliminary Environmental Assessment in accordance with the reference.

  
J. I. WOOTEN





= AREAS WITH HIGH EROSION



TFAC/ARB/ves  
11107  
19 April 1983

From: Commanding General  
To: Commanding Officer, 2d Air Naval Gunfire Liaison Company.  
(ANGLICO), 2D FSSG (Rain)  
Via: Commanding General, 2D FSSG (Rain) (Actn: G-3)

Subj: Drop Zone Expansion DZ's FALCON/GOOSE/GANDER; proposal for

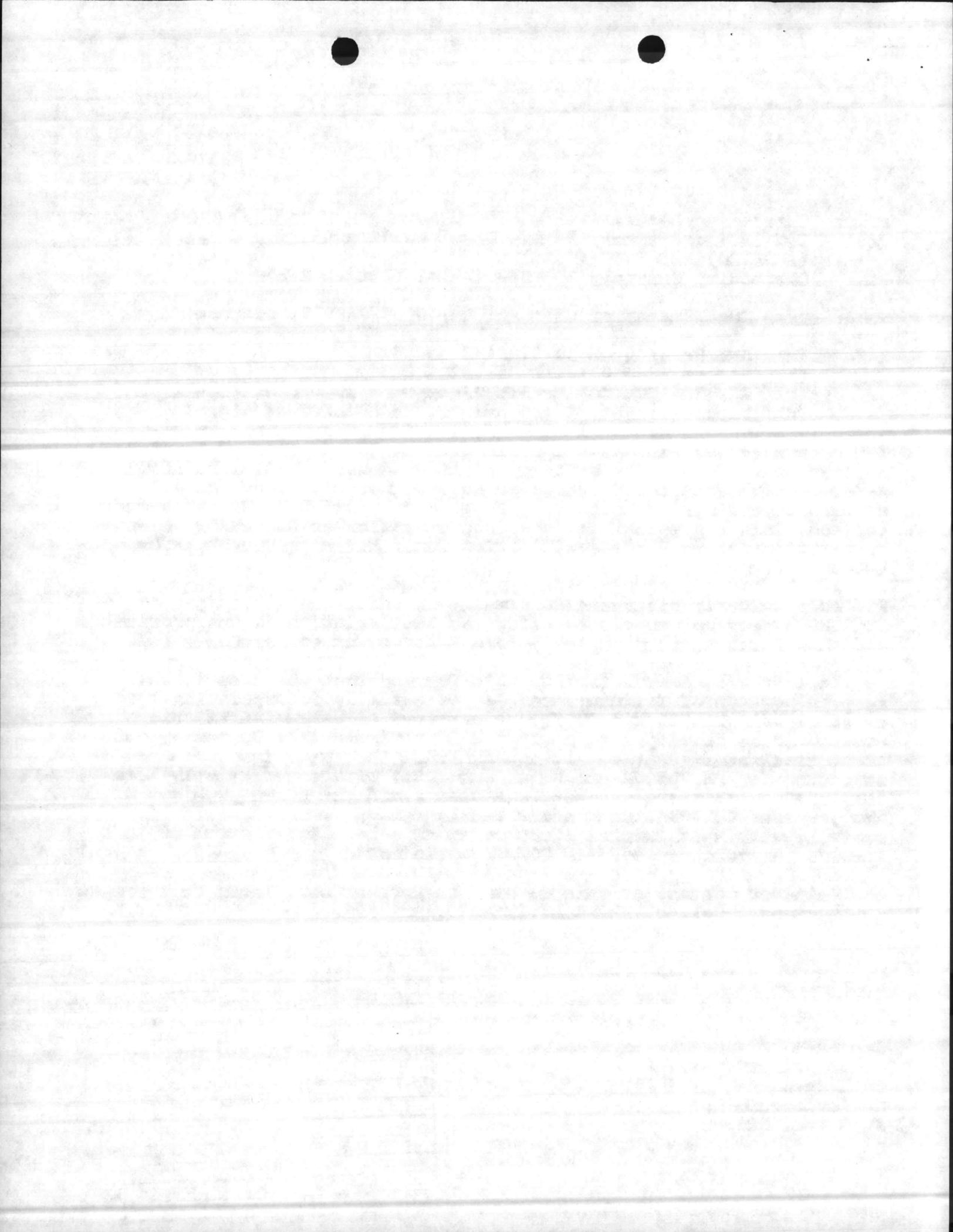
Ref: (a) GMC Washington DC 022342Z Nov 82  
(b) Second FSSG 031911Z Dec 82  
(c) CG, 2D ANGLICO ltr 3/1983/abp over 1300/5 of 8Nov82  
(d) Discussion btw TFAC and CG, 2d ANGLICO of 4Apr83

1. Reference (a) discussed concern over worldwide loss of Certified Assault Zones for use by Military Airlift Command (MAC) aircraft. Reference (b) designated addressee as designated command for all matters regarding parachute Drop Zone (DZ's) for 2D FSSG. Reference (c) contained a proposal for possible expansion of DZ CONDOR in order to satisfy minimum USAF Certification for a MAC approved DZ at Camp Lejeune.
2. As previously discussed informally in reference (d), expansion of DZ CONDOR does not appear to offer the best solution to the problem, and this further noted in the Second Endorsement on reference (c).
3. It is the recommendation of this Command that the area in the western portion of Training Area CG, essentially incorporating the existing DZ's FALCON and GOOSE, be examined to determine if this area could be developed to satisfy MAC requirements. Depending on exact final/configuration, it appears that the same sized zone as suggested for DZ CONDOR can be accommodated with comparatively less construction/maintenance cost, and also avoid the known problems at the proposed CONDOR site. Additionally FALCON-GOOSE DZ would lie entirely within Restricted Airspace under scheduling control of this Command, whereas proposed DZ CONDOR would not.
4. Point of Contact at this Command to further coordinate this project is Lieutenant Colonel BRUNKLI, TFAC O, ext 3065.

19 APR 1983

Copy to:  
CG 2d MarDiv (G-3)  
2d Liaison  
2D ForceComCo  
→ AC/S Facilities

FAC ROUTING			
By Direction	ACTION	INFC	INT
FACO			
4A			
4B			
4C			
4D			
4E	X		
4F			
4G			
4H			
4I			
4J			
4K			
4L			
4M			
4N			
4O			
4P			
4Q			
4R			
4S			
4T			
4U			
4V			
4W			
4X			
4Y			
4Z			



TFAC/ARR/ARR  
 1110Z  
 19 April 1983

From: Commanding General  
 To: Commanding Officer, 2d Air Naval Gunfire Liaison Company.  
 (ANGLICO), 2D FSSG (Rain)  
 Via: Commanding General, 2D FSSG (Rain) (Actn: G-3)  
 Subj: Drop Zone Expansion DZ's FALCON/GOOSE/GANDER; proposal for  
 Ref: (a) CMC Washington DC 022342Z Nov 82  
 (b) Second FSSG 031911Z Dec 82  
 (c) CG, 2D ANGLICO Ltr 3/883/kbp over 1300/5 of 8Nov82  
 (d) Discussion btw TFACG and CG, 2d ANGLICO of 4Apr83

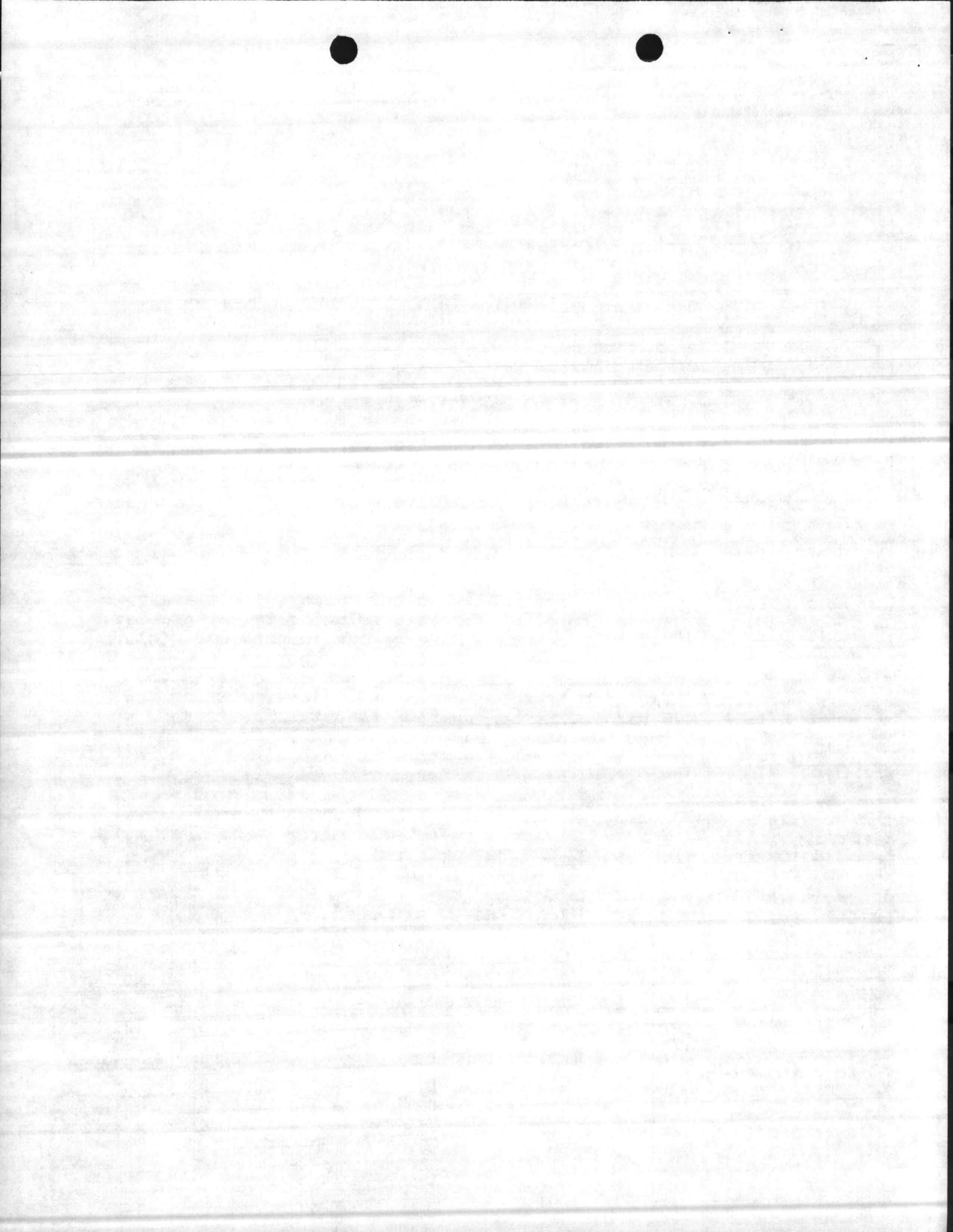
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4. Point of Contact at this Command to further coordinate this project is Lieutenant Colonel BRUNELLI, TFAC G, ext 3065.

19 APR 1983

Copy to:  
 CG 2d MarDiv (G-3)  
 2d LtSpa  
 2D ForAcenCo  
 → AC/S Facilities

TFAC ROUTINE  
 By Direction

	ACTION	INEC	INT
FACG			
4A			✓
4B			✓
4C			
4D			
4E	X		
4FC			
4LC			
SEC			
CLK			



FAC/REA/hf  
6280  
6 April 1983

SECOND ENDORSEMENT on CO, 2d ANGLICO ltr 3/WMG/kbp 1500/5 dtd 8 Nov 82

From: Commanding General  
To: Commanding Officer, 2d Force Service Support Group (Rein),  
Fleet Marine Force, Atlantic, Camp Lejeune, NC 28542

Subj: Clearance and Expansion of DZ Condor

Ref: (a) BO 11000.1A

Encl: (1) Dir, NREAD ltr NREAD/DDS/th 11000 dtd 12 Jan 1983

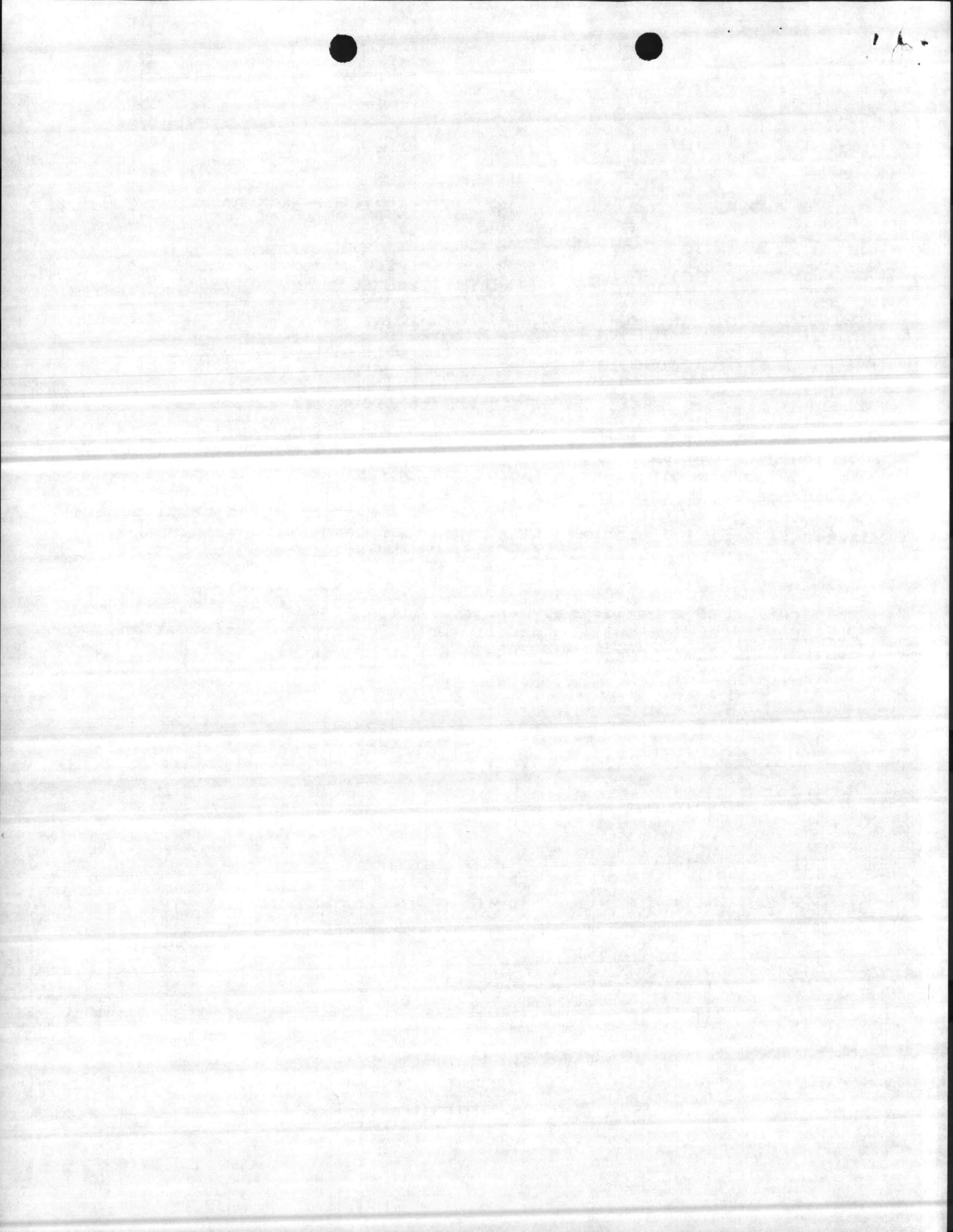
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2. In order to address these issues in the project planning stage, preparation of a preliminary environmental assessment in accordance with the reference must be undertaken. For further information, contact Mr. Alexander, ext. 3034.

J. T. MARSHALL  
By direction

Copy to:  
CG, 2d MarDiv (G-3T)

Blind Copy to:  
AC/S, Trng (TFACO)  
NREAD





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

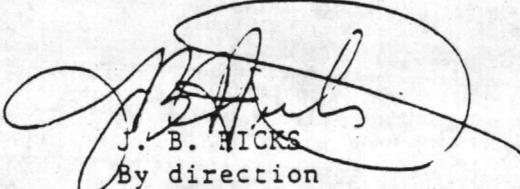
IN REPLY REFER TO  
3T/JBH/car  
1500  
22 Nov 1982

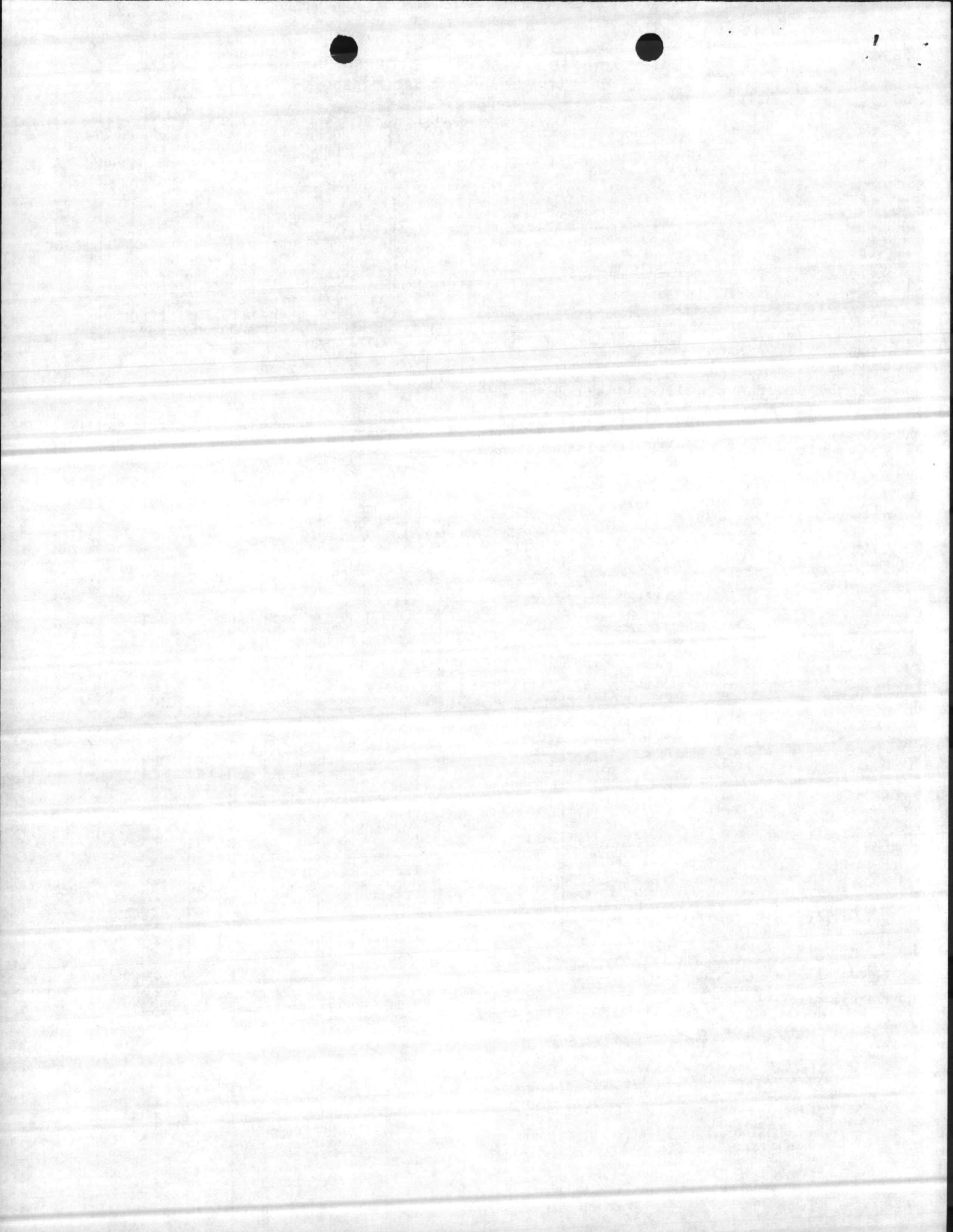
FIRST ENDORSEMENT on CO, 2d Anglico ltr 3/WMG/kbp over 1500/5 dtd 8 Nov 82

From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina  
28542 Attn: Facilities Officer)

Subj: Clearance and Expansion of DZ-CONDOR

1. Forwarded for evaluation of feasibility. If deemed feasible this command will prepare an environmental impact statement, if all other aspects are deemed feasible.

  
J. B. HICKS  
By direction



UNITED STATES MARINE CORPS  
2d Air and Naval Gunfire Liaison Company  
Fleet Marine Force, Atlantic  
Camp Lejeune, North Carolina 28542

3/WMG/kbp  
1500/5  
8 Nov. 1982

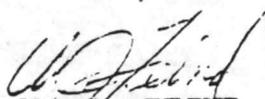
From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune,  
(Attn: Training Facilities Officer)  
Via: Commanding Officer, 2d FSSG (AC/S Trng)  
Subj: Clearance and Expansion of DZ Condor  
Ref: (a) Hqtrs MAC, Scott Air Force Base I11 62225, Assault  
Zone Availability Report dtd 30 Aug 1982 (NOTAL)

Encl: (1) Proposed Expansion of DZ Condor

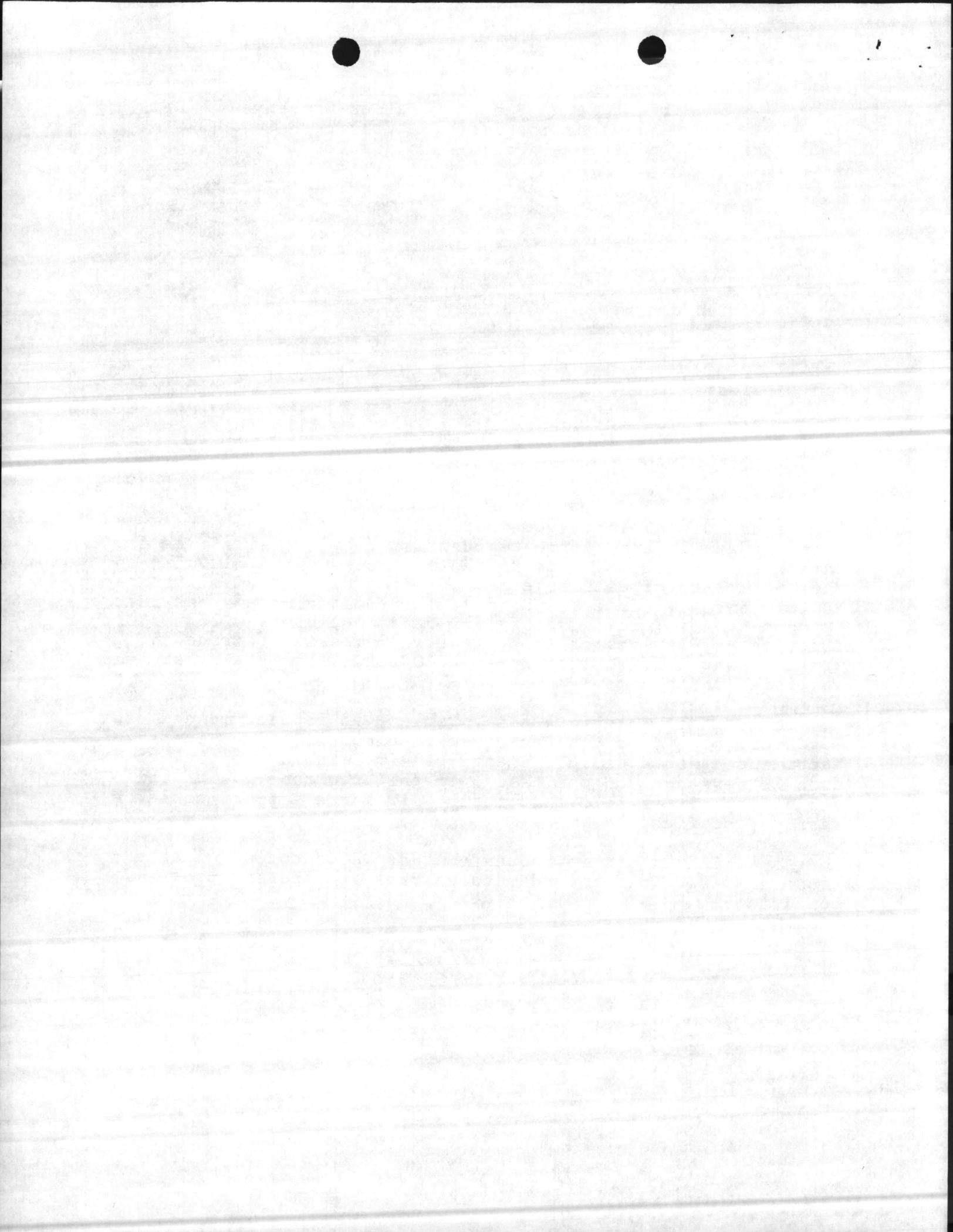
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2. In order to alleviate this problem, it is recommended that DZ Condor be expanded as outlined in enclosure (1). The size recommended would be sufficient (by Air Force criterion) to drop 28 personnel on one pass over the drop zone. With this capability, it is felt that future Air Force support could be easily justified.

3. As a minimum, it is requested that DZ Condor be cleared of all brush and dead wood in order to upgrade its present poor condition.

  
W. J. FEIND

Copy to:  
2d Force Recon Co  
2d LSB



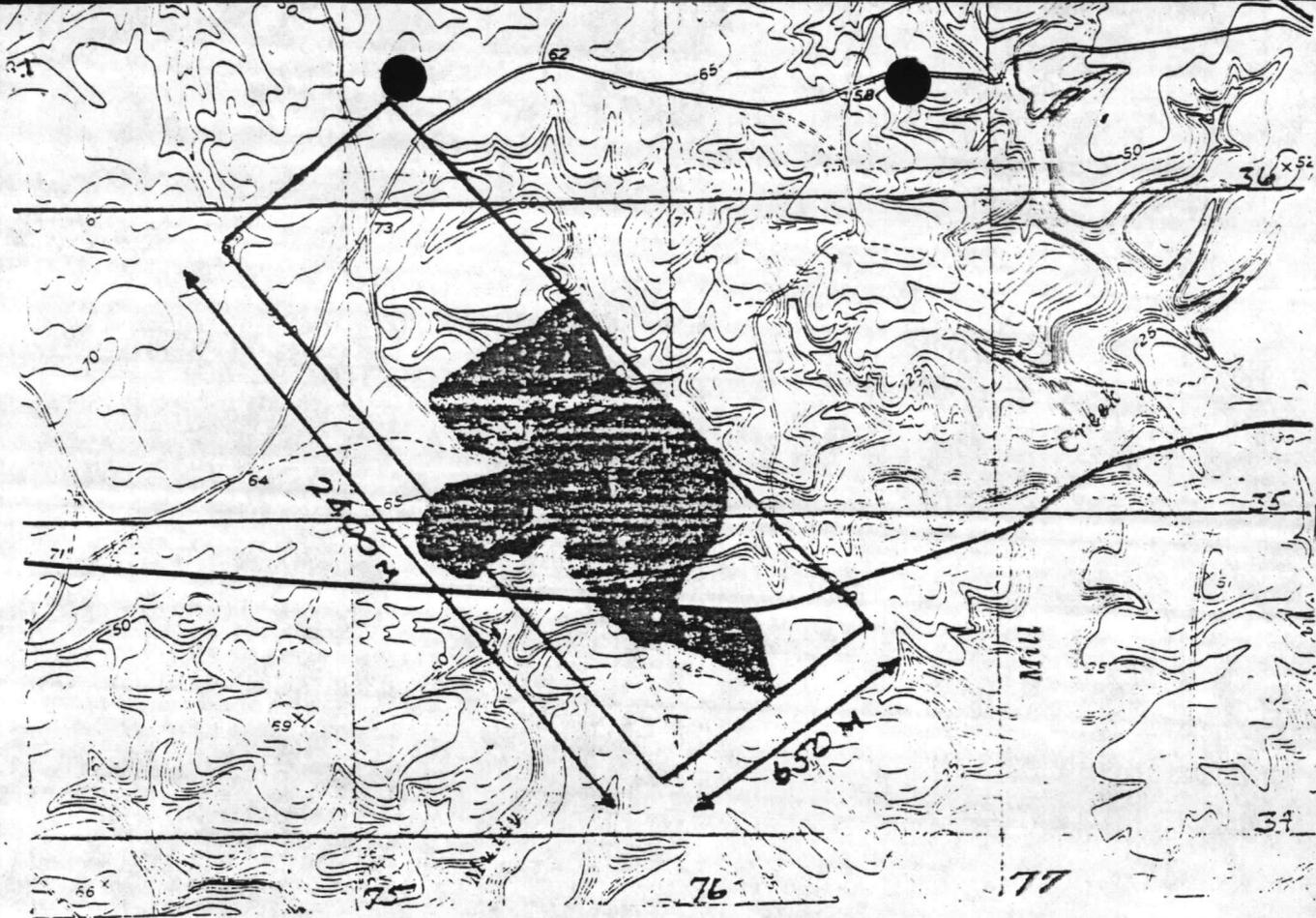
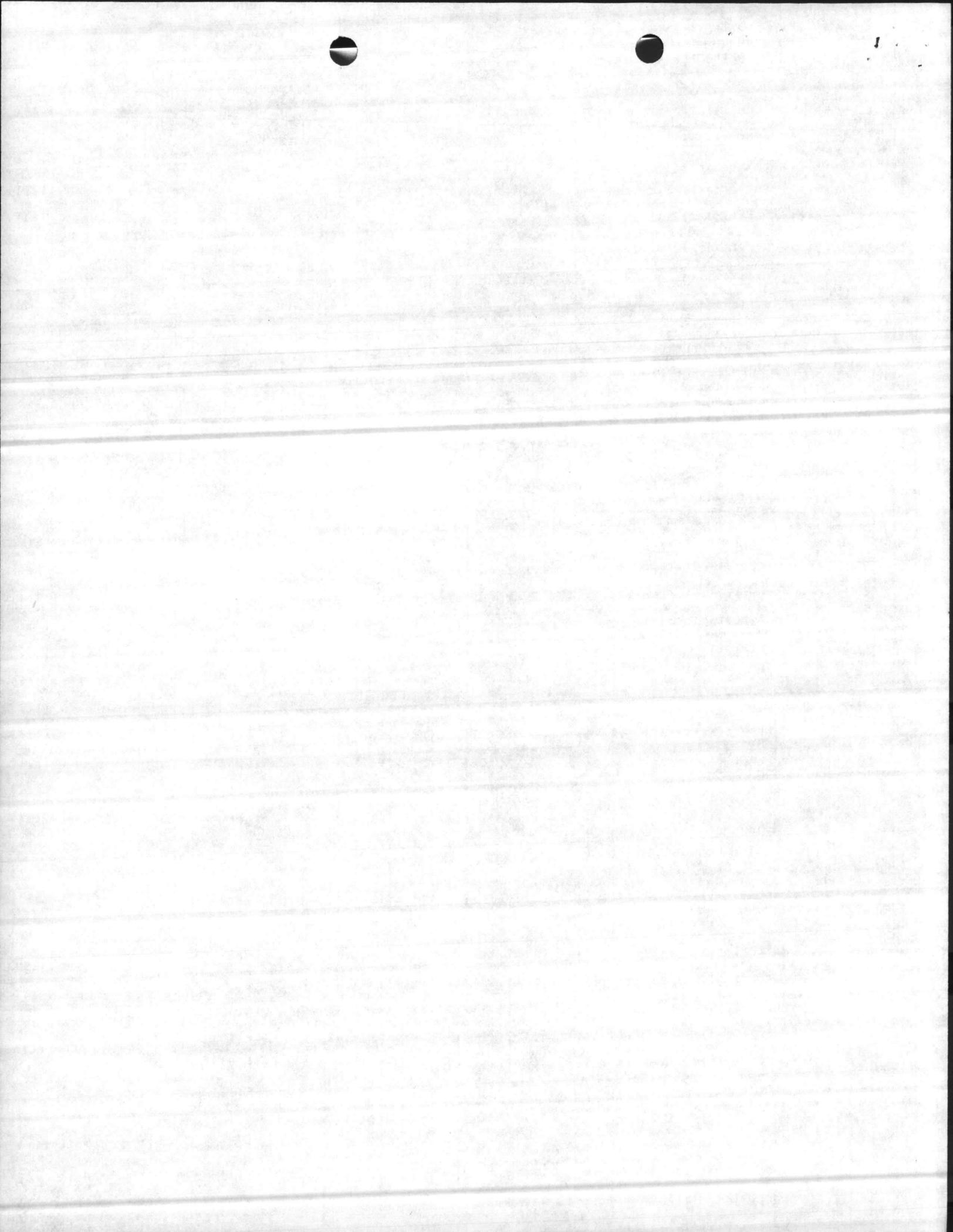


Figure 1: Proposed expansion of DZ Condor

-  Present size of DZ Condor
-  Reforested Areas
-  Proposed Expansion



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

NREAD/DDS/th  
11000  
12 Jan 1983

From: Director  
To: Assistant Chief of Staff, Facilities

Subj: Proposed Drop Zone Condor

Ref: (a) BO 11000.1A

Encl: (1) CO 2dFSSG ltr 3/WMG/rbp 1500/5 of 8 Nov 1982  
(2) Erodible Areas, DZ Condor

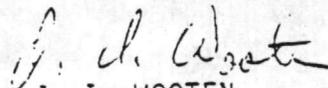
1. The subject project has been reviewed for the purpose of identifying any constraint having major impact on feasibility of the project described in enclosure (1). The following considerations were identified:

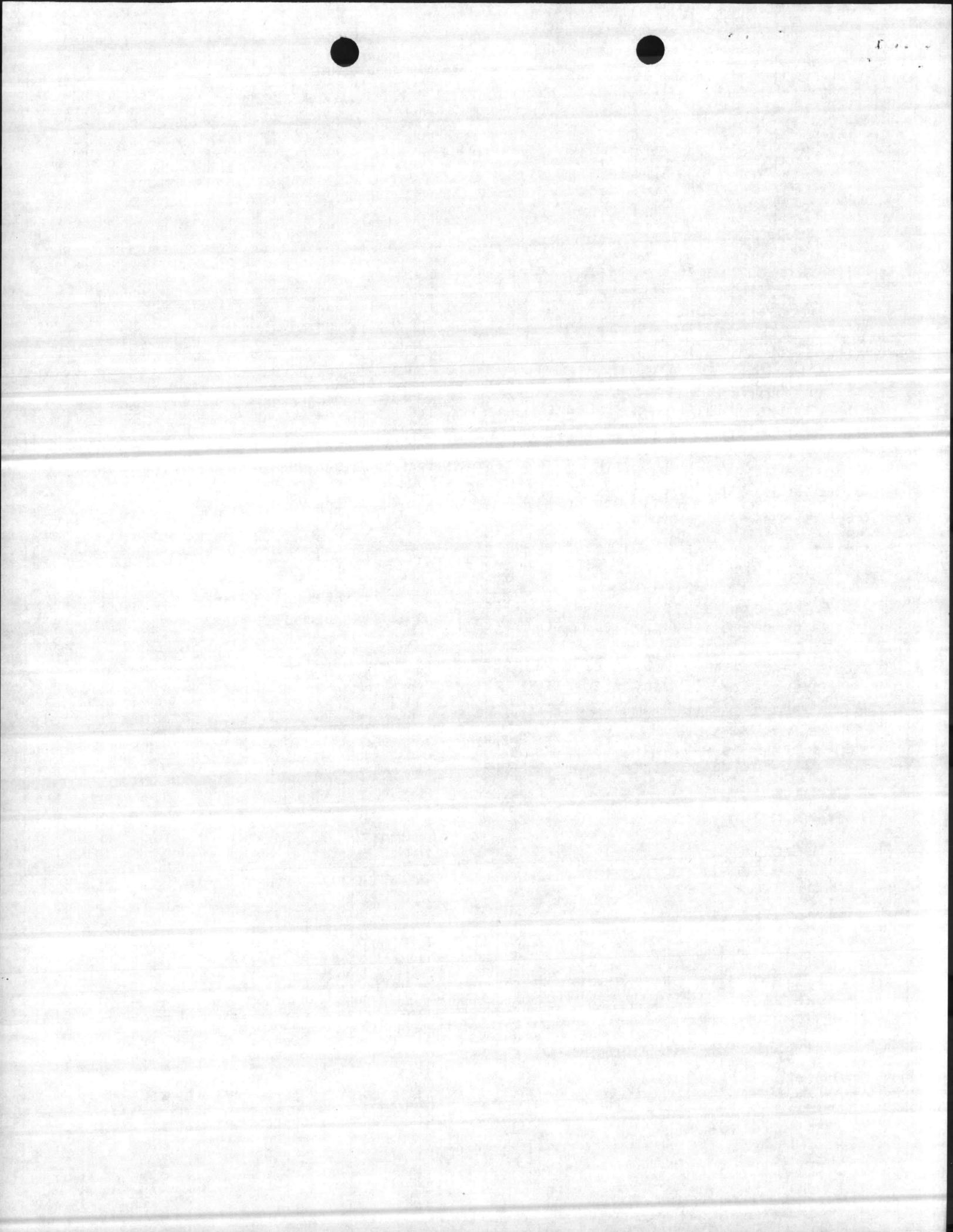
a. ~~Steep erodible areas (shown on enclosure (2)) should be addressed and clearing limits adjusted to leave a buffer between clearing and streams. Exposed soils in these areas will require stabilization with perennial grasses.~~

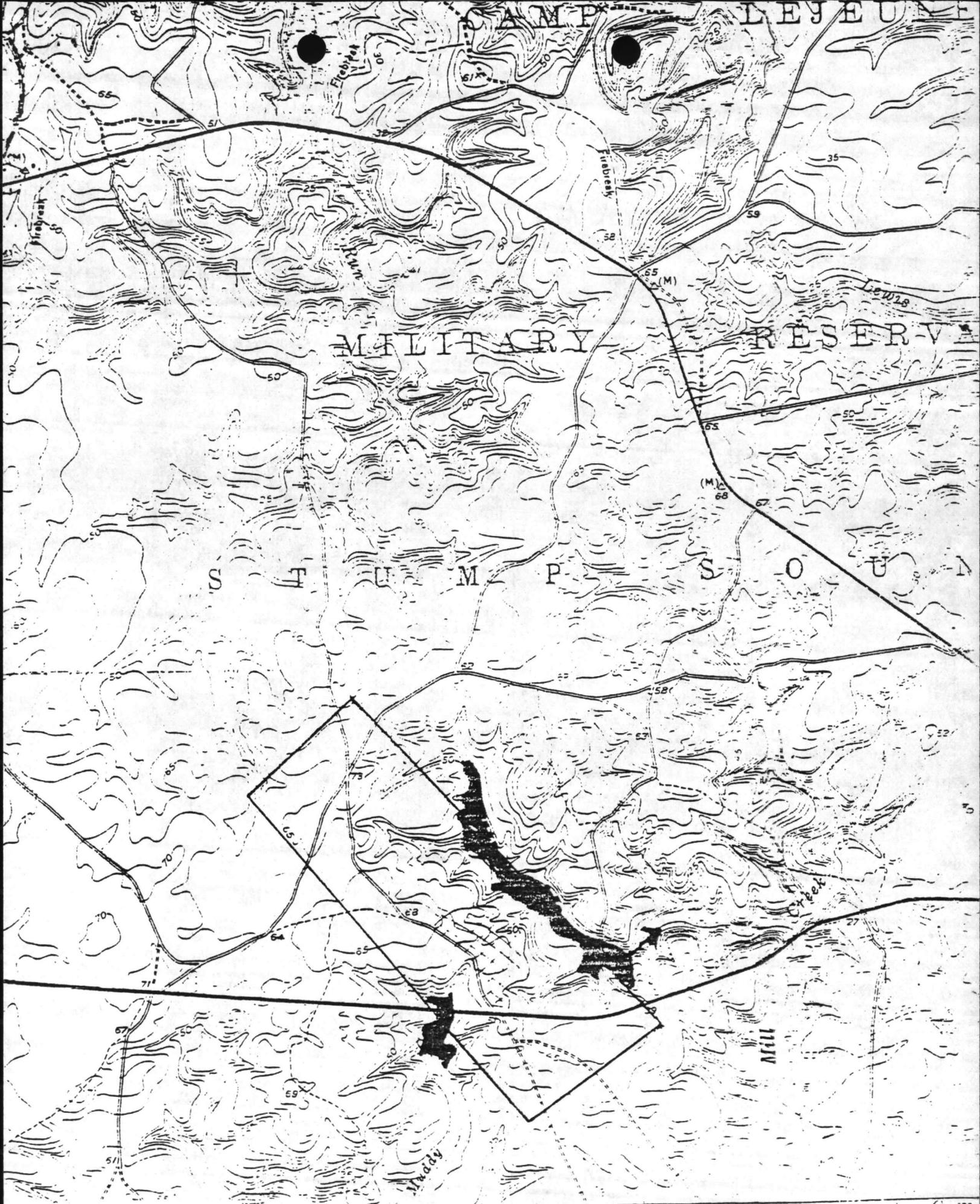
b. The level areas are generally made up of soils with high water tables and will be relatively difficult to clear and maintain.

c. Approximately 212 acres of timber harvest will be required and will take approximately 12 months to accomplish from the date this office is advised to clear the area.

2. It is recommended that the action sponsor proceed with preparation of a Preliminary Environmental Assessment in accordance with the reference.

  
J. I. WOOTEN





2460000

2730' 275

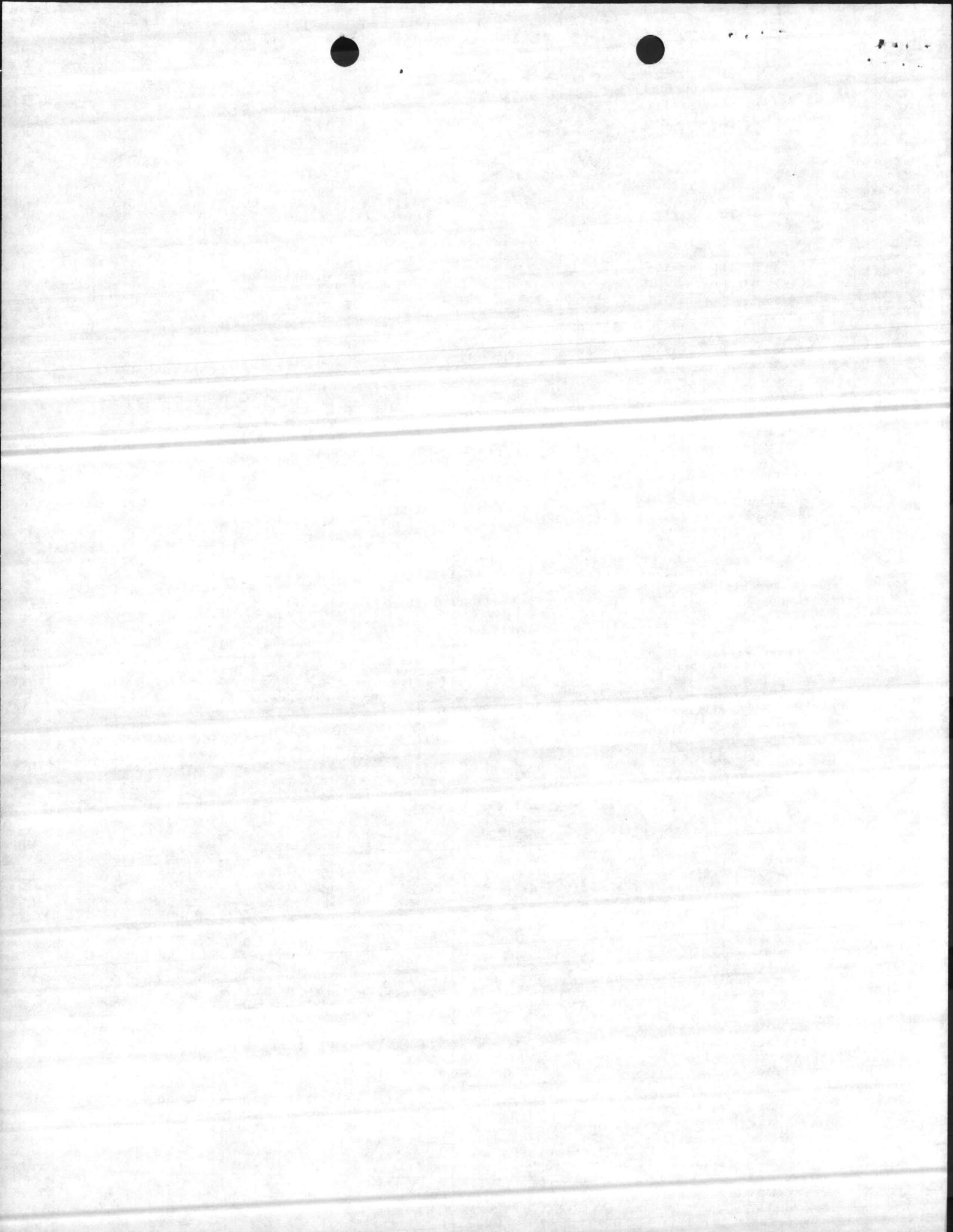
176 (SNEADS FERRY 5553 III SW

Erodible Areas, LZ (L284

= Areas with high erosion

SCALE 1:24,000

Enclosure (2)



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS BRANCH  
Base Maintenance Division  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

Date 7-28-82

From: Director, NREAB

To: *Ken*

Subj:

*Review attached and let's discuss. TOP Priority*

~~Friday AM~~  
~~Thursday PM~~

*Julian*

*Darry on leave Friday*  
*Jul 20*

*"Timber Mart South" July 82*

*saw timber*

*Low \$92 MBF*

*Demand*

*Demand Est.*  
*next 90 days*

*High \$152 "*

*poor*

*poor*

*Aug. \$122 "*

*Pine*  
*Pulwood*

*Weyerhaeuser doesn't see any change in the next several months - then they aren't optimistic after that.*

*Aug. \$9.00*

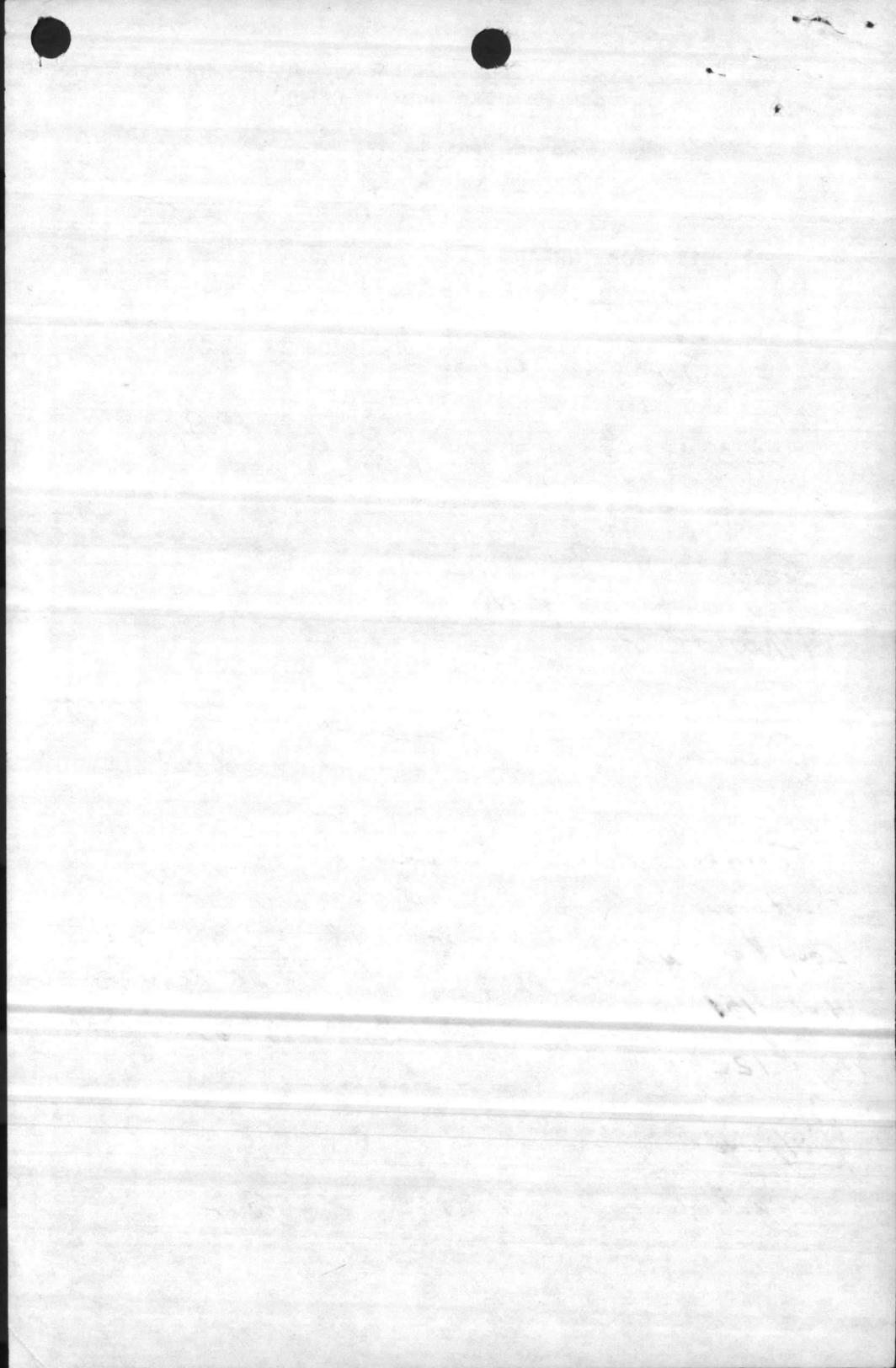
*fair*

*fair*

*May 1982*

*average bid price for western Doug fir was*

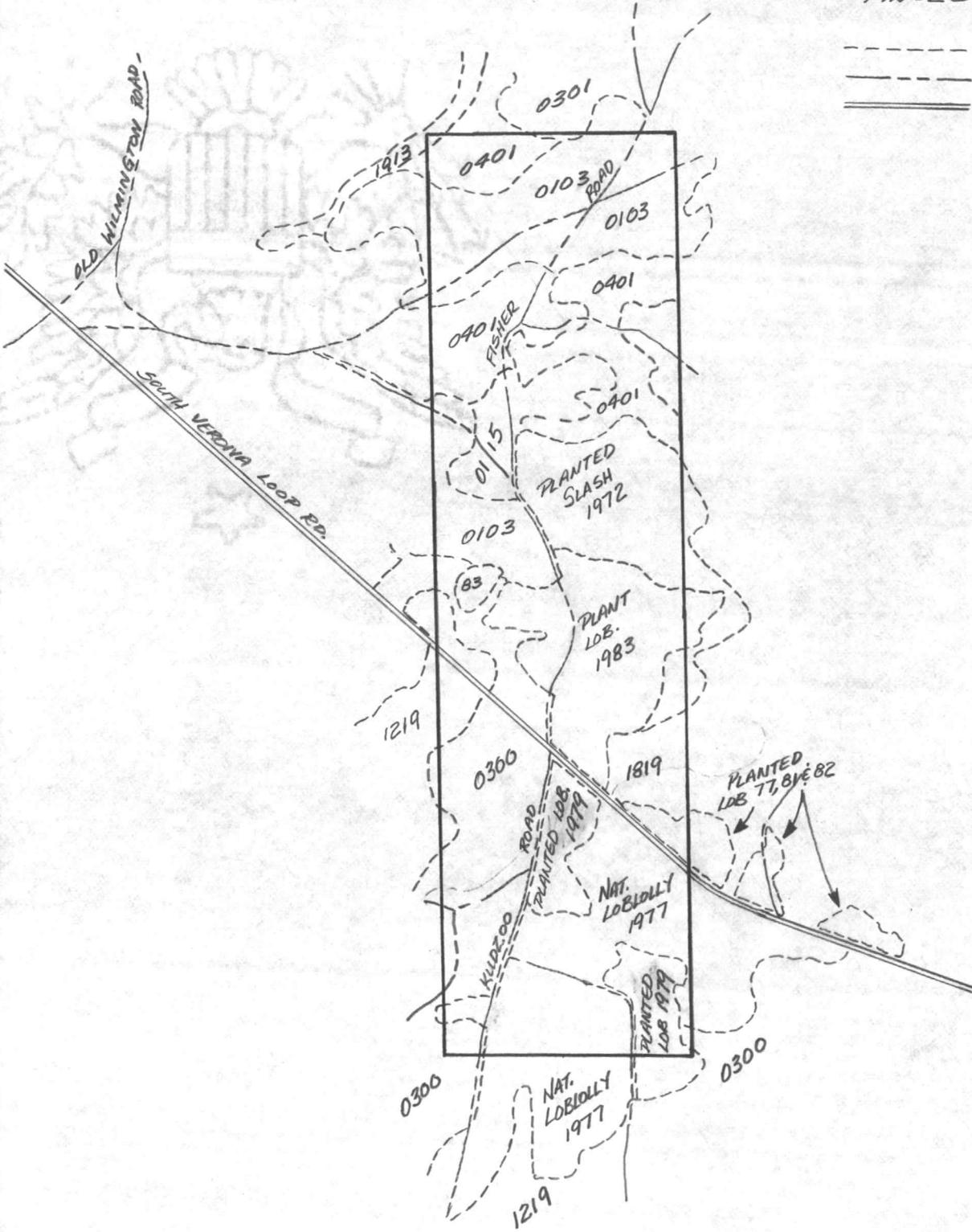
*\$480 MBF (46% bought) Delivered to mill \$225*



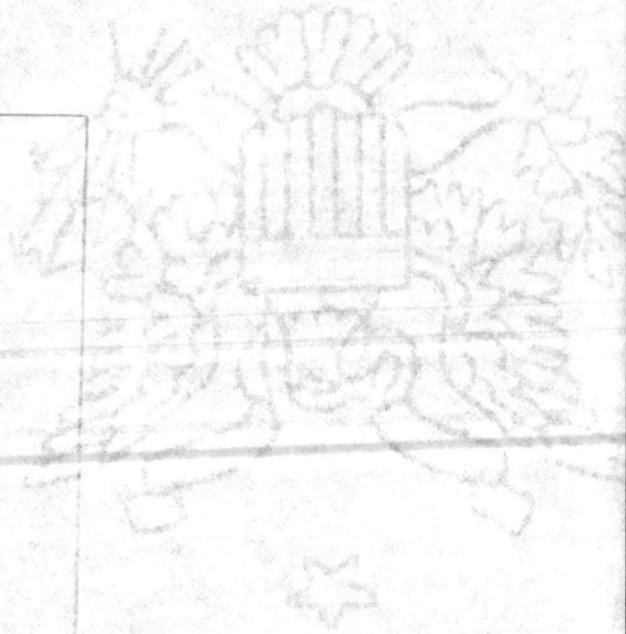
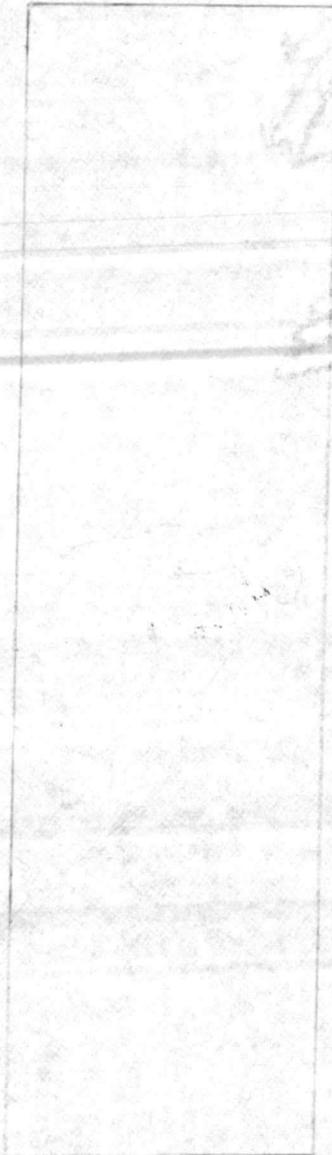
1980

PROPOSED ENLARGEMENT  
OF DZ CONDOR (385 ACRES)  
1 IN = 20 CHAINS

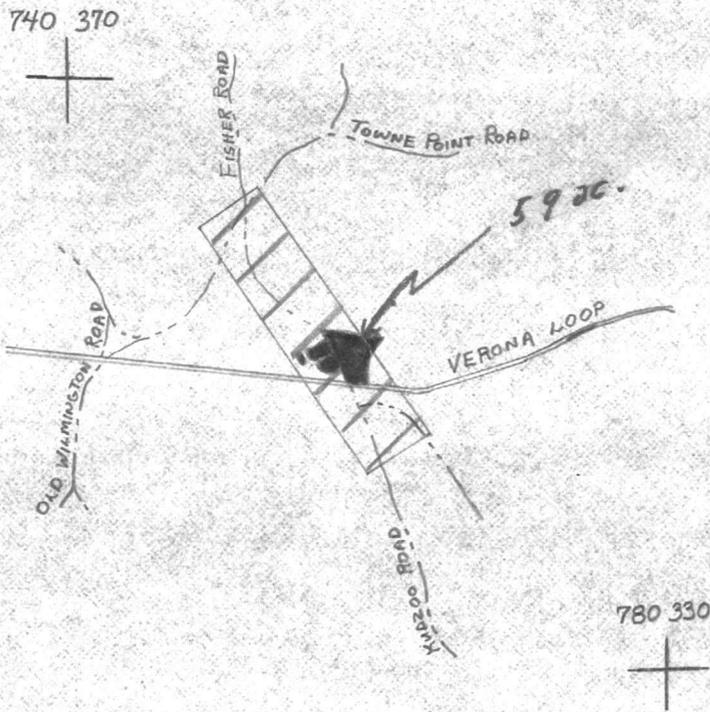
- STAND BOUNDARY
- - - - - DIRT ROAD
- ==== HARD SURFACE ROAD



1980

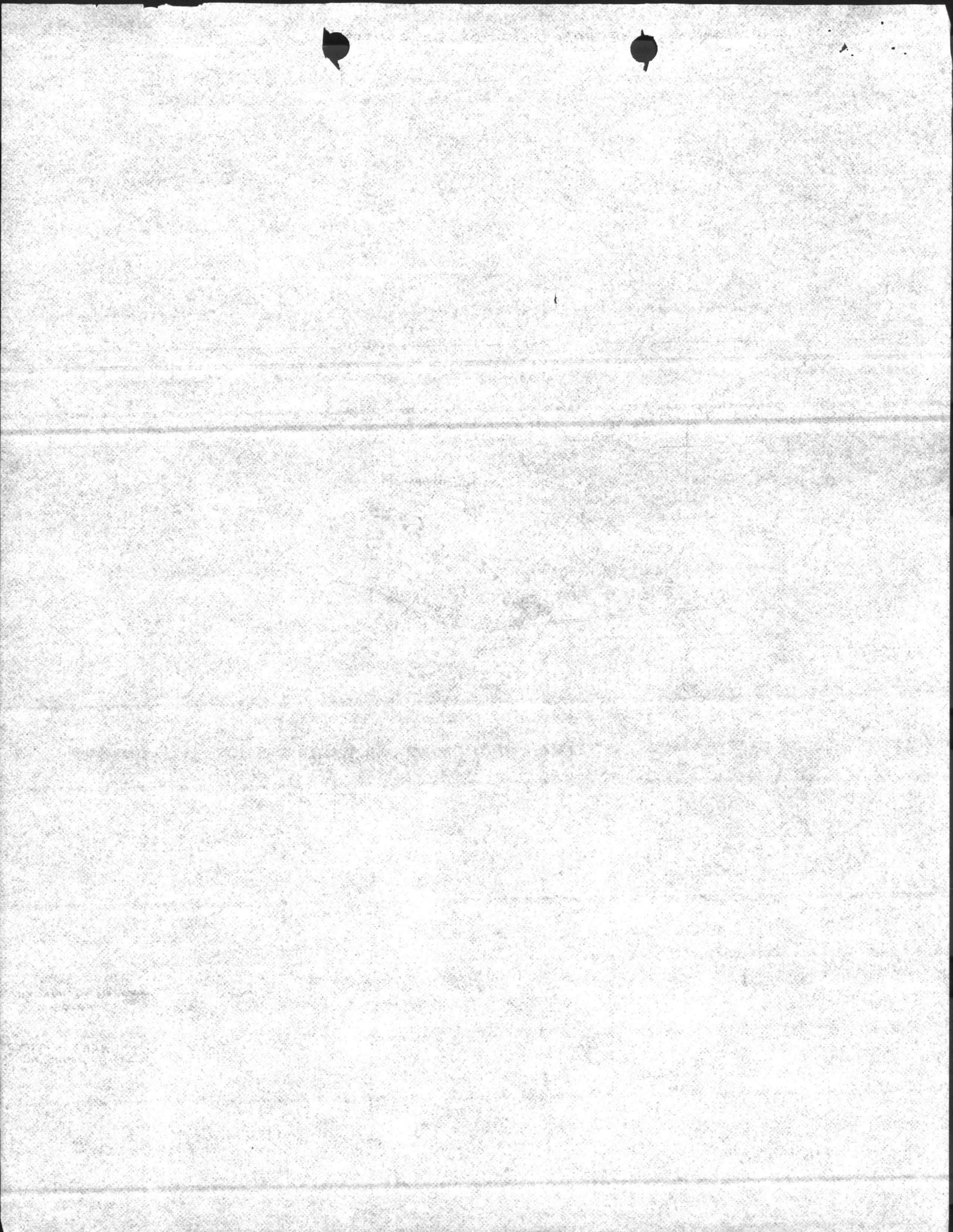


PROPOSED ENLARGEMENT OF DZ CONDO



■ TO BE PLANTED  
FY-83

▨ AREA AFFECTED  
BY PROPOSAL



TAB PLACEMENT HERE

DESCRIPTION:

Range or TLZ

Expansion of

changes



Tab page did not contain hand written information



Tab page contained hand written information

\*Scanned as next image

TAB PLACEMENT HERE

DESCRIPTION:

L-5 Range

---

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Tab page did not contain hand written information

Tab page contained hand written information  
\*Scanned as next image

1-5-84

ATTENDEES: Pete BUCK, DANNY SHARPE, Don GUESANUS, L. D. SHEPARD, BOB  
ALEXANDER AND TWO ENGINEERS FROM P.W.

THIS PRIMARILY DEALT WITH THE SILTATION WHICH WILL RESULT FROM  
THE L-5 RANGE CLEARING AND HOW TO AVOID IT.

1. Pushed brush piles
2. Silt FENCES.
3. Settlement BASINS



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

*JLW*  
*Danny* *DJ*

FAC/REA/el  
6280/1

RECEIVED BY  
FORESTRY  
12-15-83  
@ 1540

From: Assistant Chief of Staff, Facilities  
To: Assistant Chief of Staff, Training  
Subj: Environmental Assessment (EA); L-5 Caliber .50 Machine  
Gun Range

Ref: (a) MCO 6280.5  
(b) OPNAVINST 5090.1  
(c) Mtg btwn LtCol Zitz and 1stLt Shapiro, TrngFac;  
Mr. Wooten, Mr. Sharpe and Mr. Black, NREAD; and  
Mr. Alexander, AC/S, Fac on 1 Dec 1983

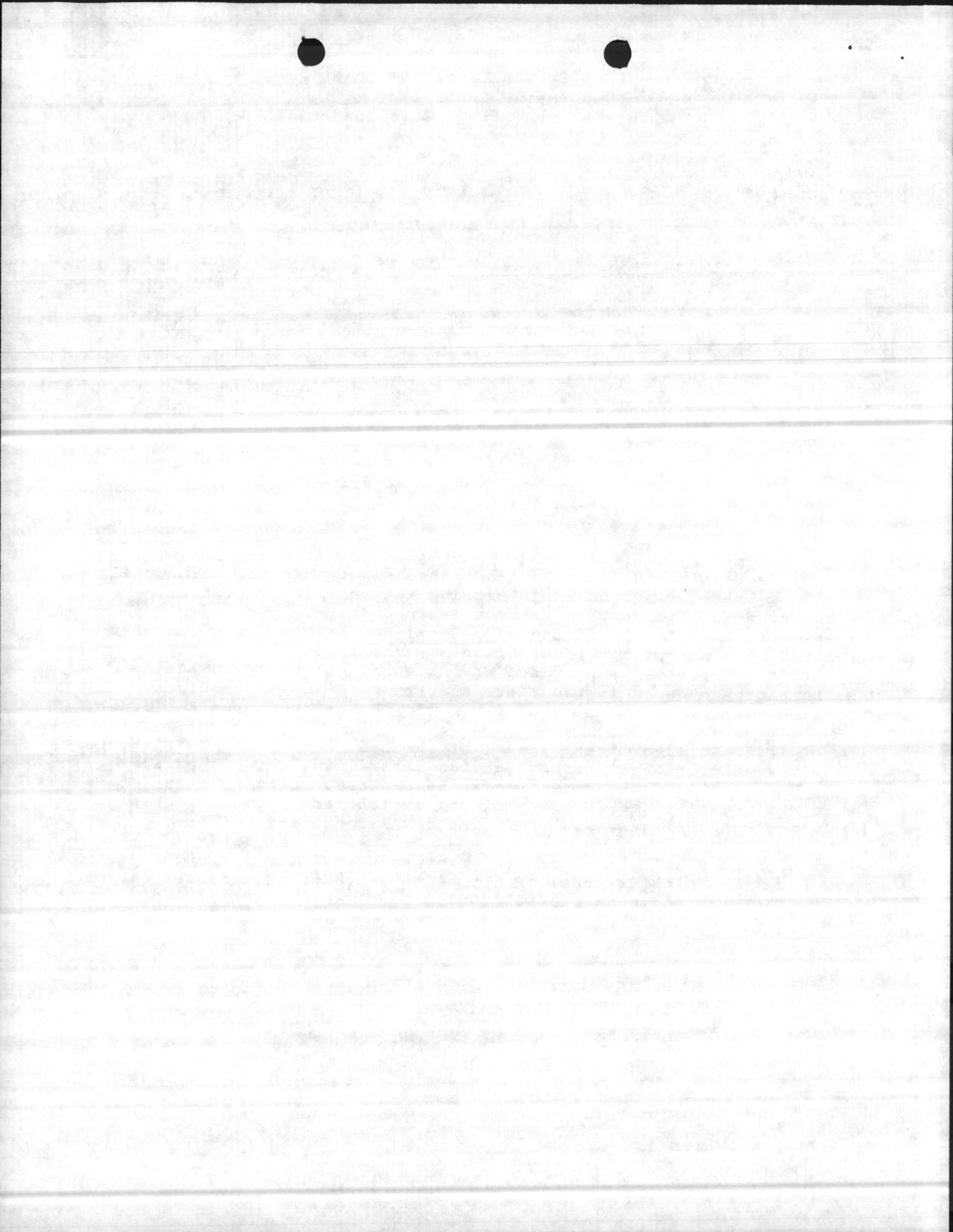
Encl: (1) Draft Outline for EA  
(2) Excerpts from OPNAVINST 5090.1

1. Per references (a) and (b), an EA is required for firing .50 caliber machine guns at the L-5 Range, since this project entails a "new target range or range mission change which increases environmental impact." During reference (c), it was determined that the decision on firing of .50 caliber machine guns was postponed pending further study of the training requirements. An outline of the EA is provided at enclosure (1) for your use as the action sponsor in the event that this firing is required. Enclosure (2) is provided as further explanation of the EA format.
2. The most significant impact of the L-5 Range project is apparently the effects on timber production from firing the .50 caliber machine gun. The EA should describe measures taken to reduce this impact. Assistance in planning the project and preparing this portion of the EA is available from the NREAD and this office.
3. The EA should be completed prior to use of the range for firing .50 caliber machine guns. Point of contact for this matter is Mr. Alexander, extensions 3034/3035.

M. G. LILLEY

Copy to:  
NREAD





DRAFT OUTLINE FOR ENVIRONMENTAL ASSESSMENT:  
L-5 CALIBER .50 MACHINE GUN RANGE

A. Cover Sheet:

B. Summary:

C. Purpose and Need:

(Background); to what need are we responding in establishing a .50 caliber range? Why not use an existing range?

D. Alternatives, Including the Proposed Action:

- Suggest: a. Establish .50 caliber machine gun range at this site
- b. Another site(s)
- c. No Action

- Site map of alternatives (use Camp Lejeune spec. map?)

E. Existing Environment of the Proposed Action:

- Refer to the Camp Lejeune Long Range Natural Resources Management Plan and the Camp Lejeune Master Plan as having already described the existing environment (also the candidate EIS for the Naval Regional Medical Center (1978)) for detailed information.
- List simple, brief statements about land cover (forested) and land use (impact/safety/fan); soil types; historical sites (map); wildlife species (no end. spec.).
- Public access mention that waters of Millstone and Muddy Creek are tidal streams and thus, are state owned; no major routes through area; open for hunting when range not in use.

*THIS DEPENDS  
ON CONFIGURATION  
OF RANGE FAN.*

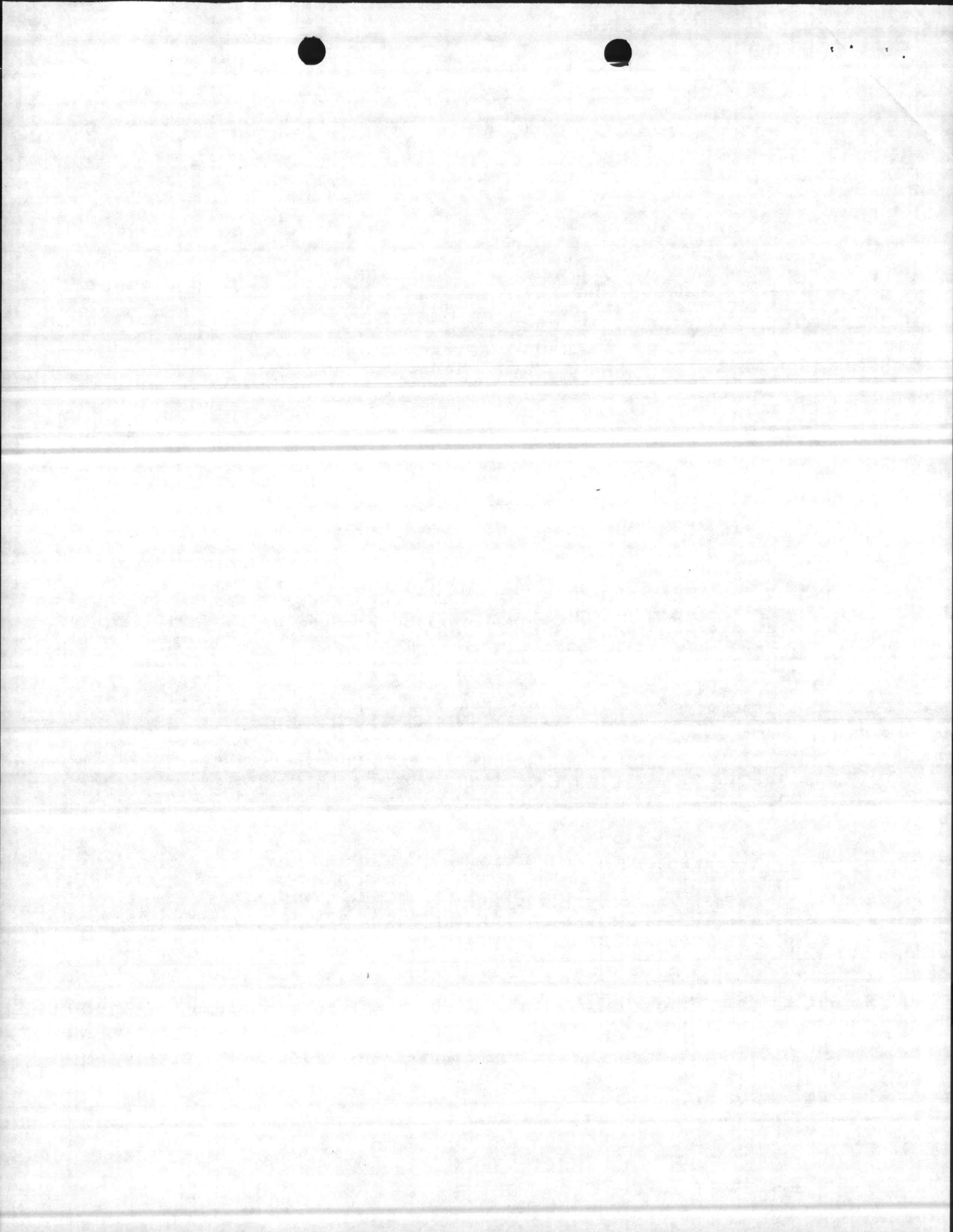
F. Environmental Consequences:

1. Direct and cover (forest - some will be cleared; forest management is the biggest issue for this action - suggest that NREAD assist you in this discussion.

Wildlife - no significant effects; RCW habitat will not be affected.

Historical Sites - will continue to be protected; no land disturbing activities are planned for this project which would affect them.

2. Indirect - Public access remains unchanged; mention that the control over the waters of Millstone and Muddy Creek will continue as presently provided for public safety. These waters will remain open when the range is not used.



- Public Safety and Highway 17: Address this.

- State that no major indirect effects are anticipated.

3. Possible conflict with Land Use Plan.

- State that site conforms to areas use as a range, per Camp Lejeune Master Plan.

4. Environmental Effects of Alternatives including the Proposed Action.

Alt. A: L-5 - discussed in 2. above.

Alt. B: Another site - same size areas for safety fans, larger impacts since totally new range required.

Alt. C: No Action - no effects.

5. Energy Requirements - probably no different impact for either alternative. *(WHAT EITHER ALTERNATIVE)*

6. Irreversible or Irretrievable Commitment of Resources:

- This range will permanently reduce the productivity of portions of the area of forest production; in view of requirement for military training, this commitment is justified; mitigating measures are described below.

7. Short-term Use Versus Long-term Productivity:

- The discussion of the forest management issue should be given here to indicate that we've done all we can to develop the range while maximizing timber production; some suggested areas are:

• showing how the areas are presently managed versus future management

• describing measures such as target location, angle of firing, use of vegetation to absorb the rounds, etc., which will reduce the forest acreage affected by impact of bullets

8. Historical and Cultural Resources:

- Sites as located and previously described will not be affected.

9. Means to mitigate Adverse Environmental Impacts - describe these.

Impacts

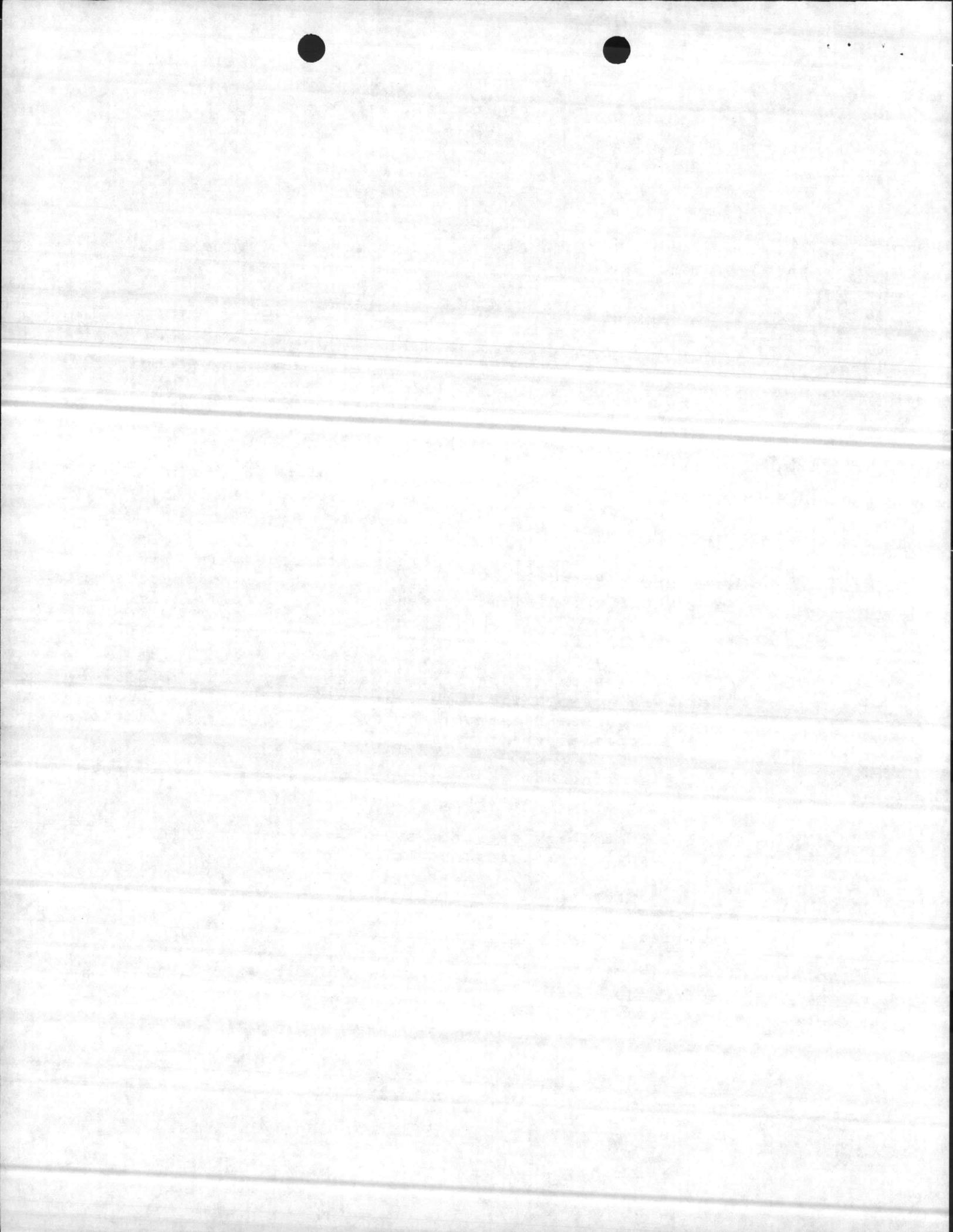
Mitigation

Clearing

Sediment Controls & Reseeding

Reduction of Productive Forest

MCB For. Mgmt. Plan is optimizing overall production

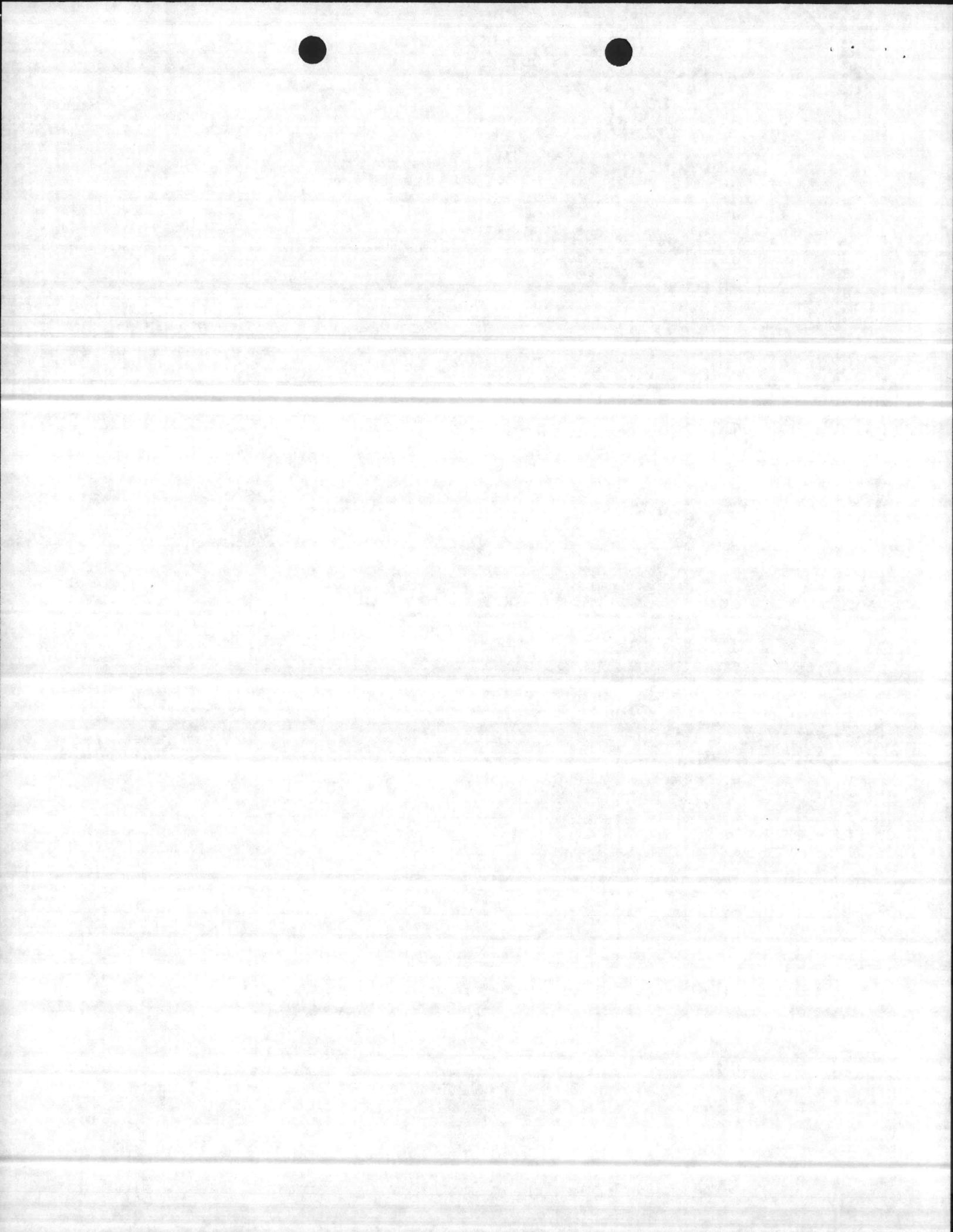


10. Adverse Effects Which Cannot be Avoided.

- Loss of timber production and other, but stress that these are manageable impacts.

G. List of Preparers:

H. Appendix: Not needed.



26 MAY 1983

(4) EISSs, like EAs, are frequently prepared by contractors for the Navy. In order to obtain fair and unbiased analyses, contractors must be selected in a manner avoiding any conflict of interest. Therefore, contractors shall execute disclosure statements specifying they have no financial or other interest in the outcome of the project. Furthermore, it is essential that the contractor's efforts be closely monitored throughout the contract to not only produce an adequate assessment/statement, but also to avoid extensive, time-consuming, costly revisions (to obtain an adequate product) frequently occasioned by a tardy review of a partially finished product. Further, managers must be continuously involved as technical support organizations frequently lack the detailed chain of command knowledge necessary to guide contractor efforts.

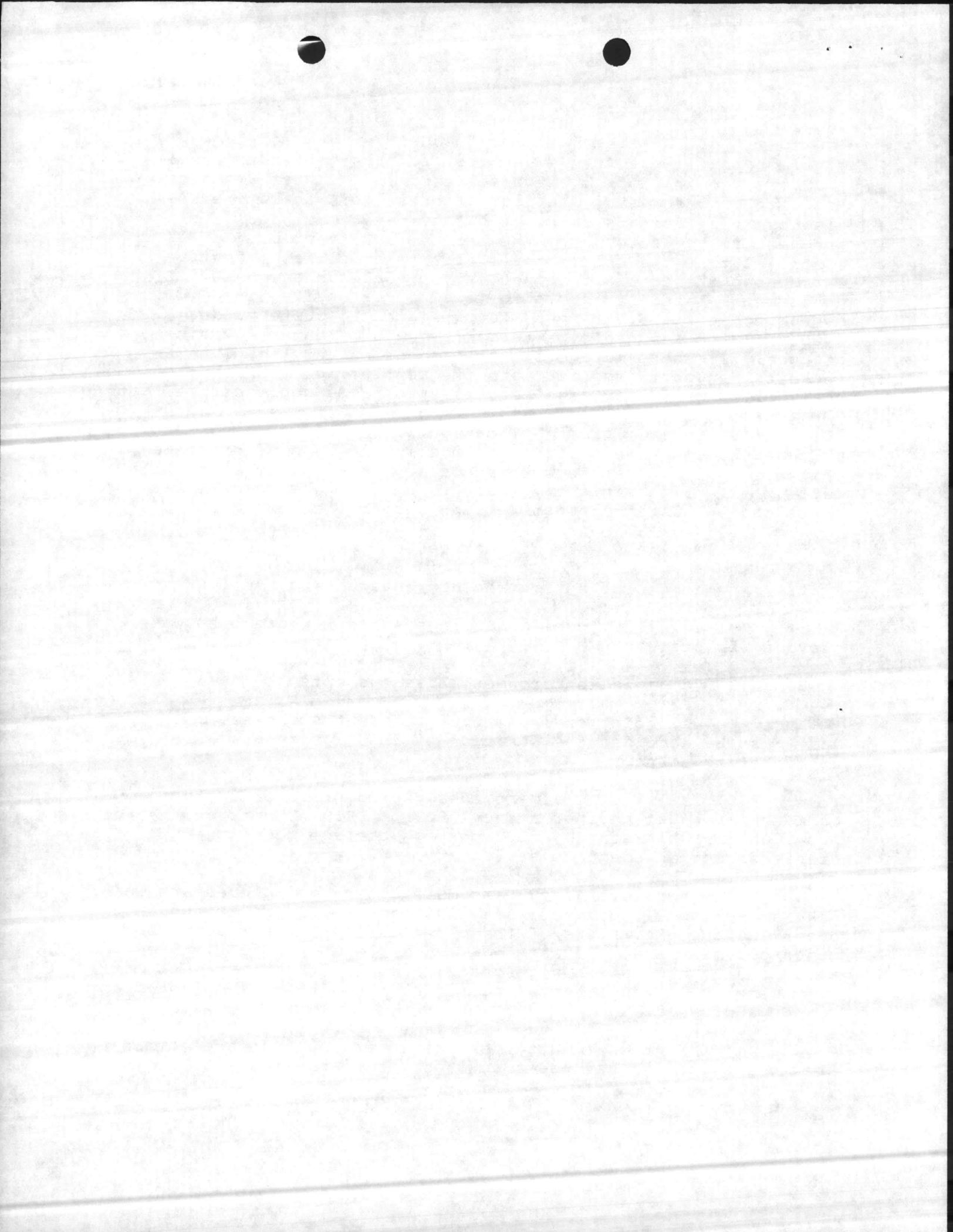
(5) To eliminate duplication with state and local procedures, and unless barred from doing so by some other law, commands shall cooperate with state and local agencies to the fullest extent possible to reduce duplication between NEPA and state and local requirements. Such cooperation could include

- (a) joint planning processes
- (b) joint environmental research and studies
- (c) joint public hearings (except where otherwise provided by statute)
- (d) joint environmental assessments
- (e) joint environmental statements, however, the Navy must be accorded the position of lead agency or coordinating agency.

(6) The major claimant, designated or subordinate command may adopt another agency DEIS or FEIS or portion thereof provided that the statement or portion thereof meets the standards for an adequate statement.

(7) Where emergency circumstances make it necessary to take an action with significant environmental impact without observing the provisions of these regulations, the responsible major claimant shall advise CNO (Op-45), who will facilitate additional consultation with the CEQ about alternative arrangements. "Advise" and "additional consultation" do not mean "prior approval".

(8) Major claimants, designated and subordinate commands are encouraged to tier their environmental statements to



26 MAY 1983

5 A one paragraph abstract of the statement."  
(40 CFR 1502.11)

6 The date by which comments must be received, calculated in accordance with the procedures set out in paragraph 4402(d) and 4402(j)

(b) Summary. "Each environmental impact statement shall contain a summary which adequately and accurately summarizes the statement." (40 CFR 1502.12) The summary sheet(s) shall appear at the very beginning of the document immediately after the cover sheet. The summary must provide the following:

1 Indication of whether the analysis is an assessment or a draft or final environmental statement.

2 The name of the action and whether it is administrative or legislative.

3 A brief description of the action and what geographical region (including state and county, as applicable) is particularly affected.

4 A summary of the environmental impact, particularly adverse environmental effects, and major mitigating actions required.

5 A list of alternatives considered.

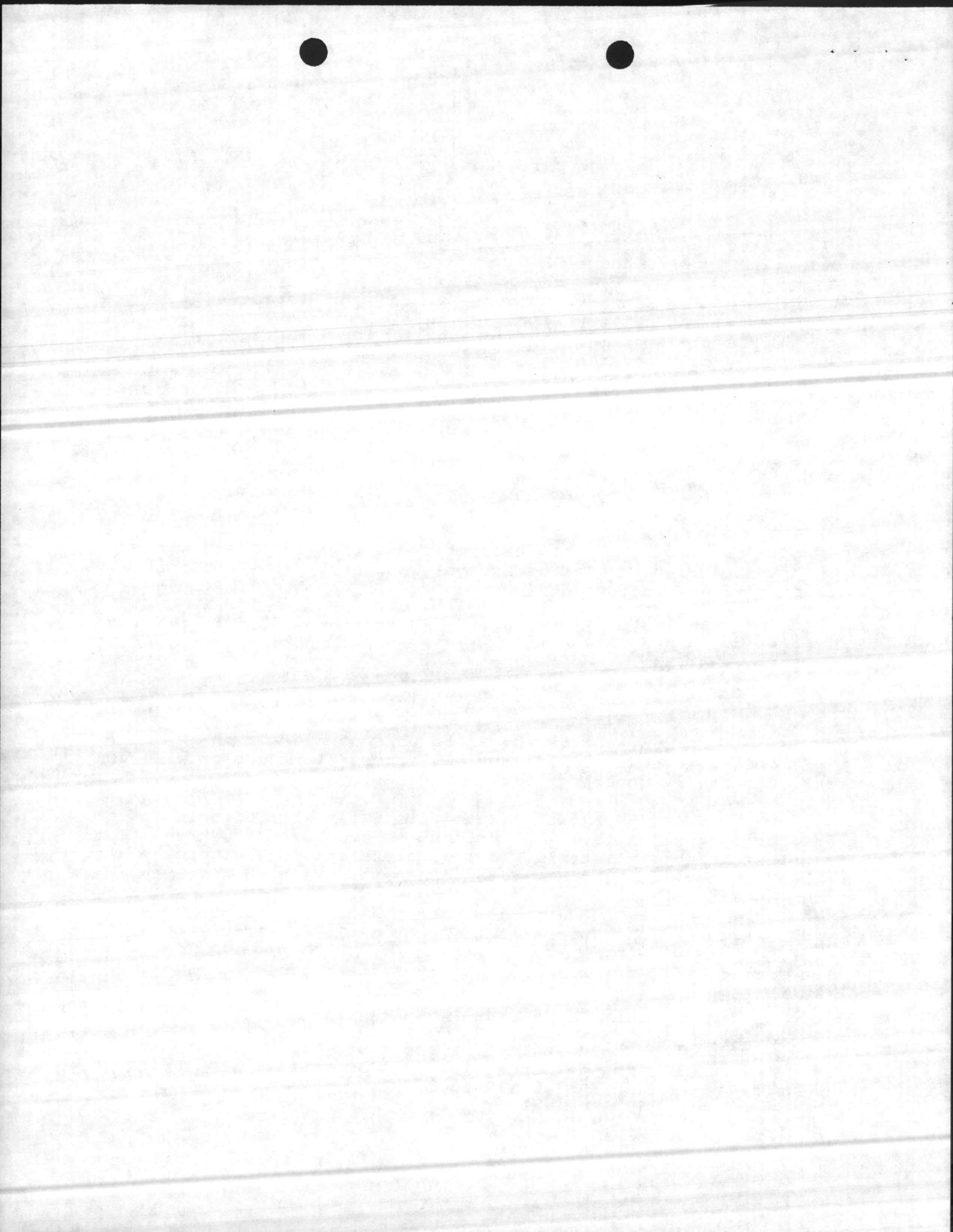
6 A statement as to whether the action is anticipated to have significant environmental impact or will be environmentally controversial.

7 For draft statements, list all Federal, state and local agencies from which comments have been requested. For final statements, list all Federal, state and local agencies and other sources from which written comments have been received.

8 The date the draft and final statements were made available to the CEQ and the public (Op-45 action).

The summary will normally not exceed fifteen pages.

(c) Purpose and Need. This section (which actually begins the body of the basic document) "shall briefly specify the underlying purpose and need (background) to which the Agency (Navy) is responding in presenting the alternatives including the proposed action." (40 CFR 1502.13)



26 MAY 1983

however, the alternative of not proceeding with the project or proposal must be evaluated.

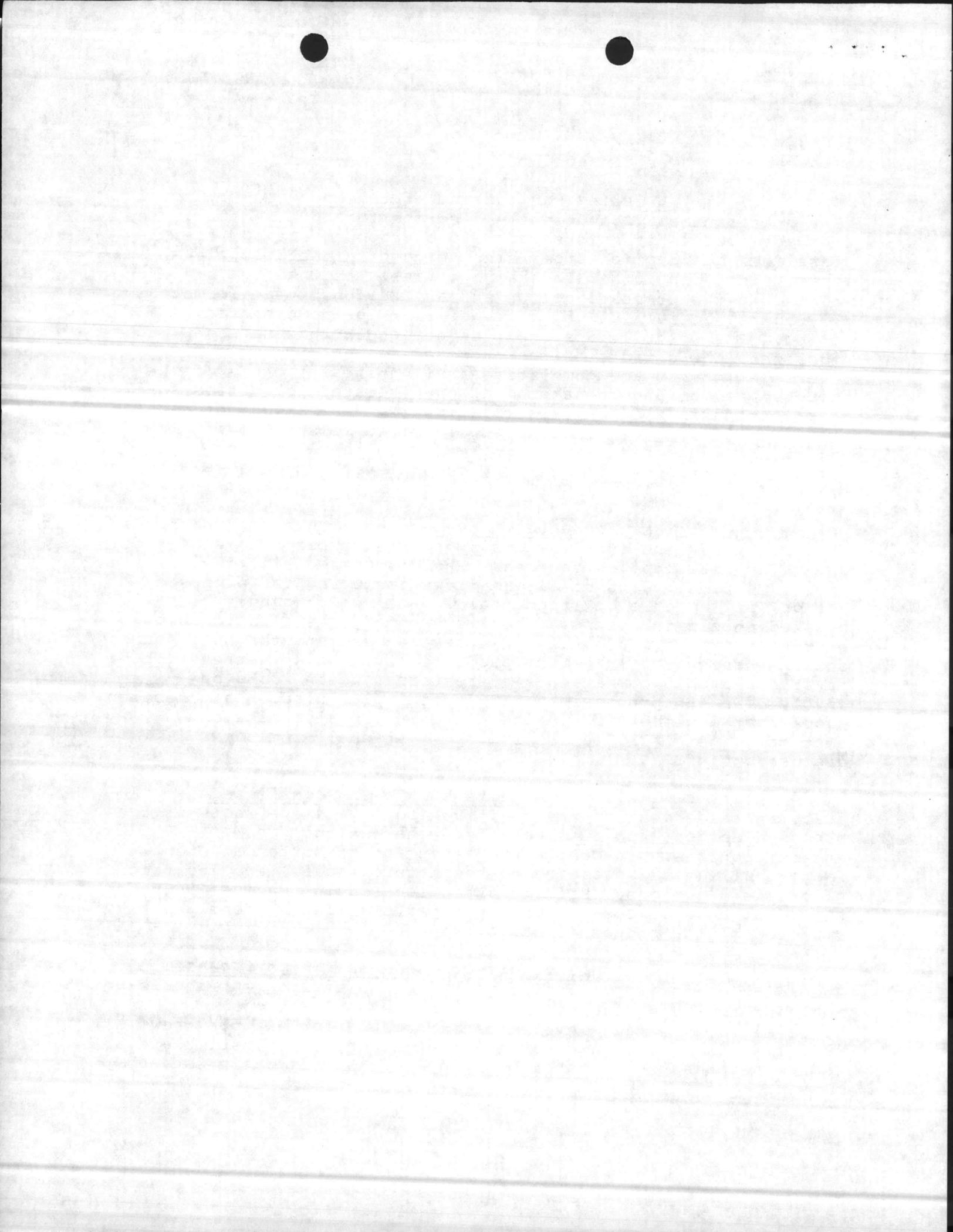
(e) Existing Environment of the Proposed Action.

"The statement shall succinctly describe the environment of the area affected as it exists prior to a proposed action, i.e., a "baseline" description from which to compare the probable impact, including other Federal activities in the area(s) related to the proposed action and any reasonably anticipated non-Federal activities which are similar to the proposed action. The descriptions shall be no longer than necessary to understand the effects of the proposed action. The interrelationship and cumulative environmental impacts of the proposed action and the aforementioned related activities shall be presented in the analysis (statement). The amount of detail provided in such descriptions should be commensurate with the extent and impact of the action, and with the amount of information required at the particular level of decision making." (generally 40 CFR 1502.15)

(f) Environmental Consequences. This section forms the scientific and analytic basis for the comparisons presented under the alternatives section. The discussion will include the environmental impacts of alternatives including the proposed action, any adverse environmental impacts which cannot be avoided should the proposal be implemented, the relationship between short-term uses of man's environment and the maintenance and enhancement of long-term productivity, and any irreversible or irretrievable commitments of resources which would be involved in the proposal should it be implemented. This section should not duplicate the discussions in the alternatives section. (generally 40 CFR 1502.16) It shall include discussions of:

1 Direct Effects And Their Significance,  
i.e., an assessment of the positive and negative effects of the proposed action, as it affects both the national and/or international environment. The attention given to different factors will vary according to the nature, scale, and location of proposed actions. Primary attention should be given in the statement to a discussion of those factors most evidently impacted by the proposed action.

2 Indirect Effects and Their Significance.  
Secondary or indirect consequences for the environment should be included in the analysis. Many major Federal actions, especially those that involve construction (for example, new installations, joint use of an installation, etc.), stimulate or induce secondary effects, in the form of associated investments



26 MAY 1983

proposed action involves tradeoffs between short-term environmental gains and the expense of long term losses or vice versa should be presented. It should also contain a discussion of the extent to which the proposed action forecloses future options. In this context, short-term and long-term do not refer to any fixed time periods, but should be viewed in terms of the environmentally significant consequences of the proposed action.

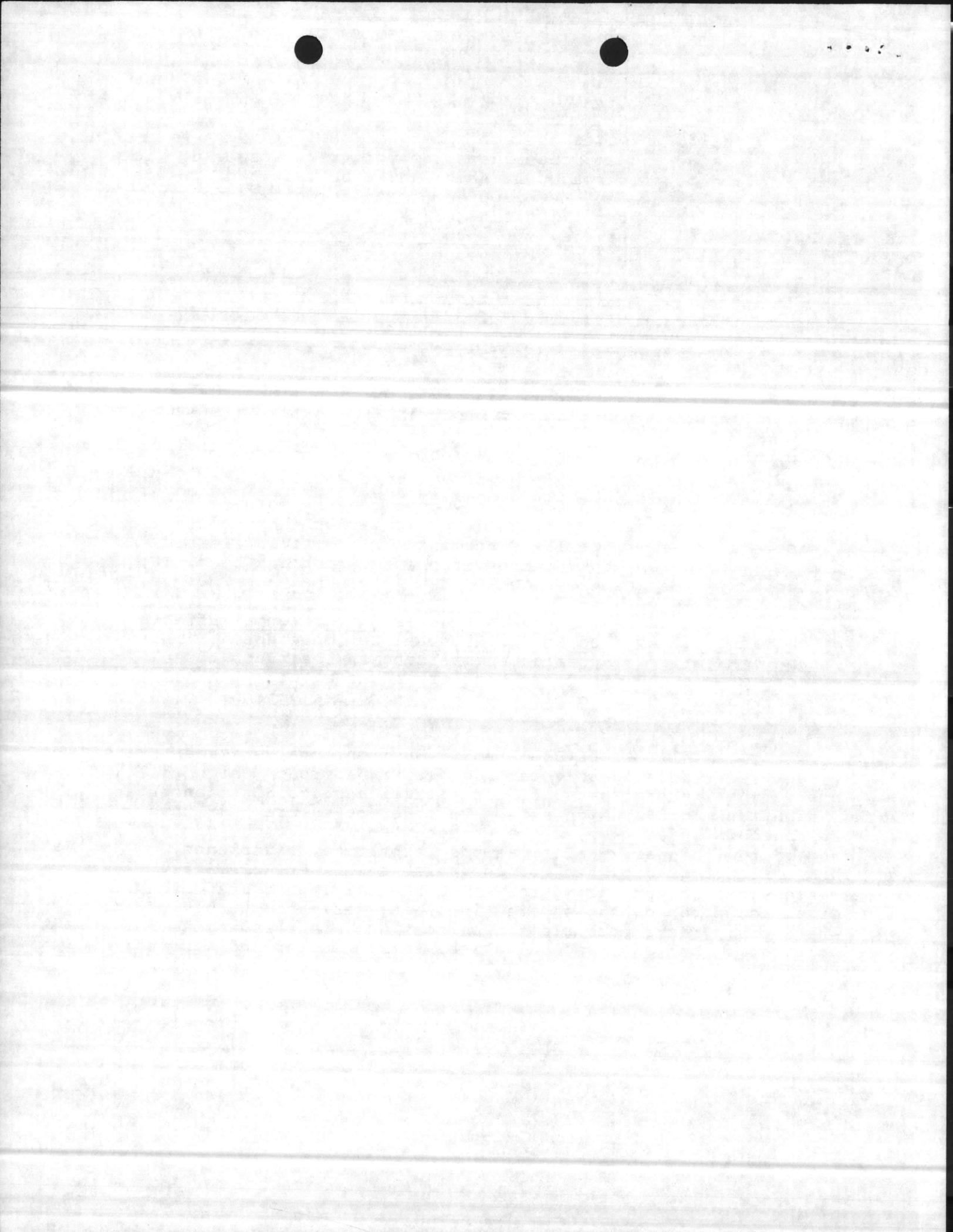
8 Urban Quality, Historic and Cultural Resources, and the Design of the Built Environment, Including the Re-use and Conservation Potential of Various Alternatives and Mitigation Measures. (Self-explanatory).

9 Means to Mitigate Adverse Environmental Impacts (if not previously discussed). Indicate the extent-to which countervailing benefits could be realized by following reasonable alternatives to the proposed action that would avoid some or all of the adverse environmental effects. In this connection, where appropriate and meaningful, and as dictated by the scope of the action addressed, cost benefit analyses of proposed actions may be attached, or summaries thereof, to the assessment or environmental statement. They should clearly indicate the extent to which environmental risk has been reflected in the analysis.

10 Any Probable Adverse Environmental Effects Which Cannot be Avoided Should Proposal be Implemented. This should be a brief discussion summarizing in one place those effects previously discussed that are adverse, not amenable to mitigation, and unavoidable under the proposed action." (40 CFR 1502.16)

(g) List of Preparers. Environmental statements are to be prepared using an interdisciplinary approach which will ensure the integrated use of the natural and social sciences and the environmental design arts. In order to ensure that this approach is undertaken, the statement "shall list the names, together with their qualifications (expertise, experience, professional disciplines) of the persons who were primarily responsible for preparing the environmental impact statement or significant background papers, including basic components of the statement. Where possible the persons who are responsible for a particular analysis, including analyses in background papers, shall be identified. Normally the list will not exceed two pages." (40 CFR 1502.17)

(h) Appendix. If the cognizant command prepares an appendix to an EIS, the appendix shall:



L-5 RANGE : 1 DECEMBER, 1983

ATTENDEES: JULIAN, DANNY, Pete, BOB ALEXANDER, Lt. Col. ZITZ, Lt. SIMPSON.

MAJ. BARNETSON

1. RANGE & FAN CURRENTLY ENCOMPASS APPROXIMATELY 1,860 ACRES

2,300 MAX. EFFECTIVE RANGE

6,500 MAX (323 CHAINS)

CONCERNS:

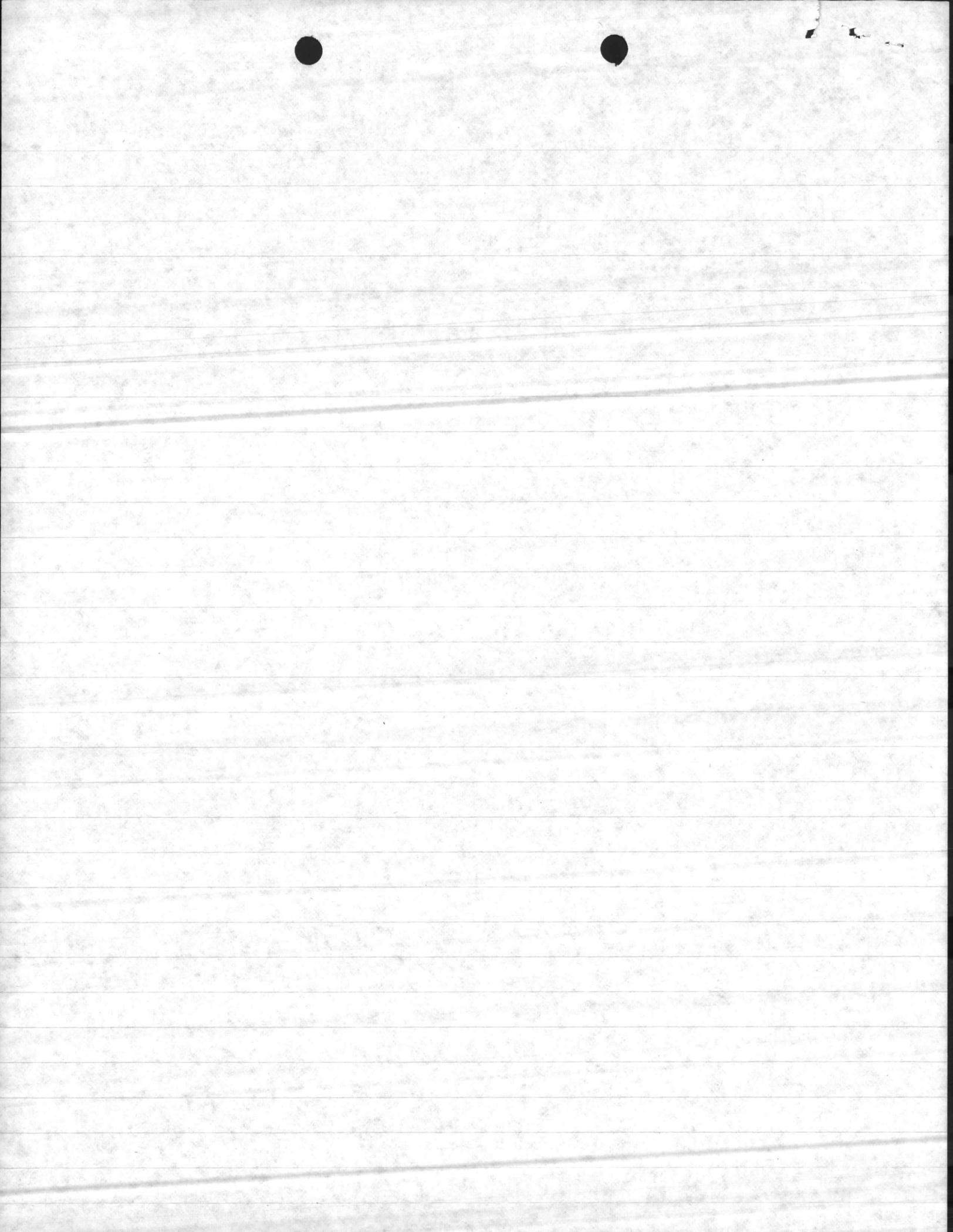
1. COASTAL ZONE MANAGEMENT (CHANGE OF INTENSITY)

2. NOISE (HOUSING & DIXON SCHOOL)

3. RED COCKADED WOODPECKER

RIFLE Co. TACTICS BIGGEST PUSH ON L-5

FOUR OTHER 50 CAL. RANGES F-3, G-7, G-6 & NORTH TOWER





EXISTING L-5 = 1860 ACRES (A)

STONE BAY  
 1000 METERS = 3,280.8 FT.  
 1000 METERS = 49.7 CHAINS  
 1 INCH = .5 MILES  
 1 INCH = 40 CHAINS

DIXON SCHOOL

NC. 210

U.S. 17

STONE LANDING

RIFLE RANGE

MILL CREEK ROAD

FOY'S LANDING 12-1-83

MILLSTONES

6,500 MAX.

6,500

6,500

6,500

6,500

6,500

6,500

6,500

6,500

6,500

6,500

6,500

6,500

6,500

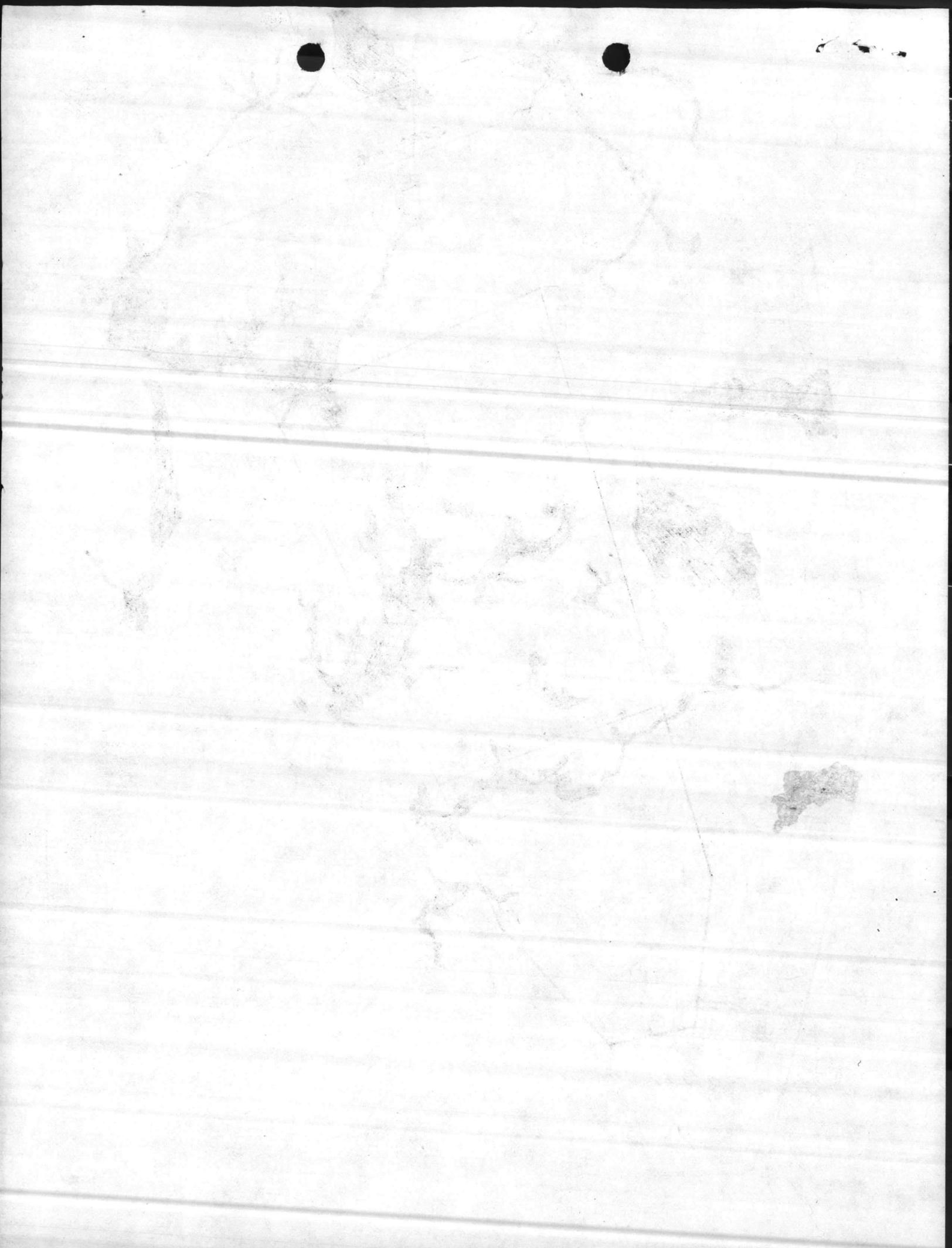
6,500

6,500

6,500

6,500

6,500



29 Aug 1985

5200  
NREAD

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

FY-86 SITE PREPARATION AND REFORESTATION; PLANS FOR

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

*HA, HC, HB  
TACTICAL MOVEMENT  
RANGE  
PARA-3*

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

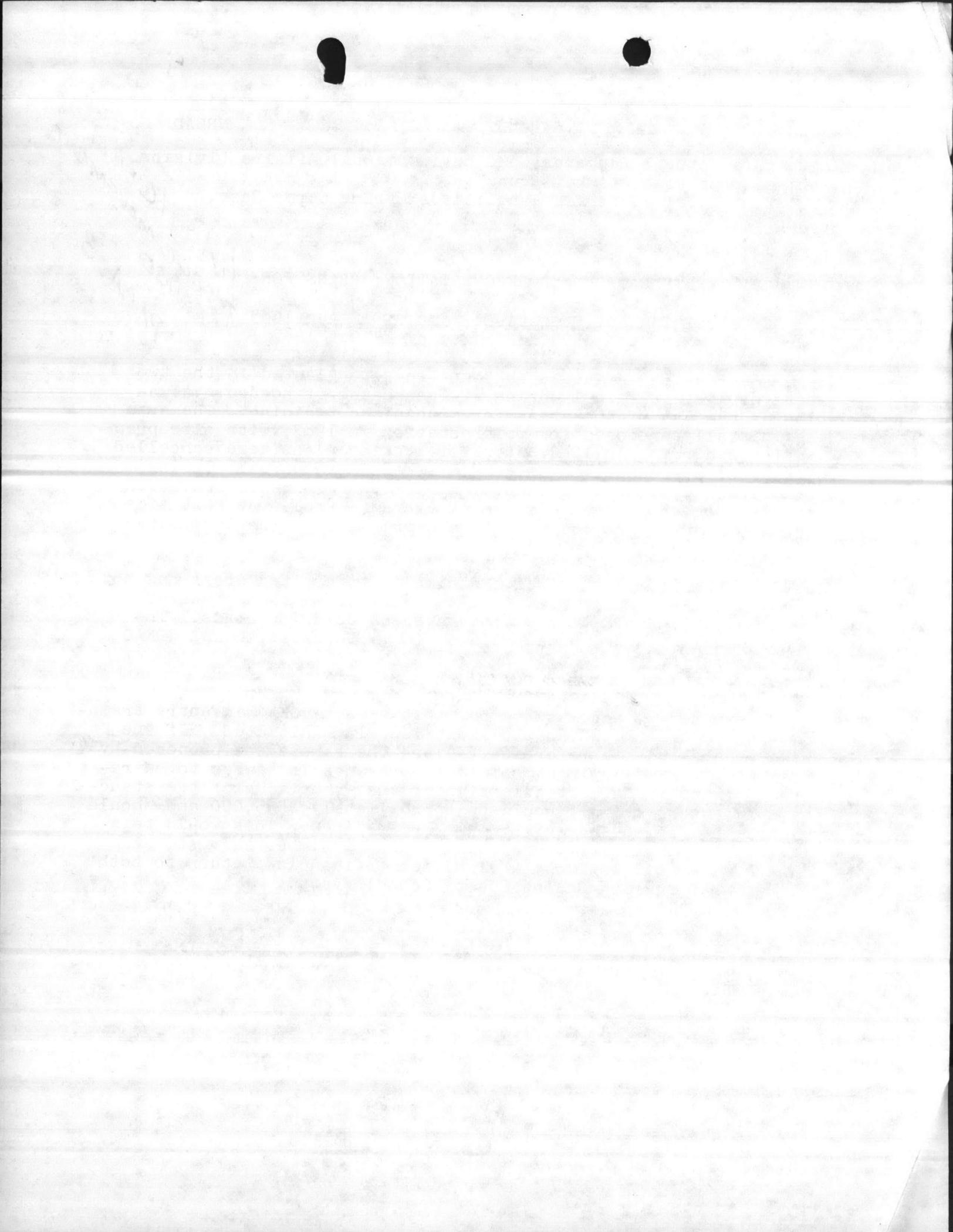
2. Historically, mechanized training in reforested areas has not been a problem because most damage associated with mechanized training is confined to the area adjacent to major roads. The TLZ Cardinal area has been prepared for reforestation and NREAD would prefer to reforest it in FY-86, as seedlings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

*← This is filed in  
FY-86 REFORESTATION  
ORDER #6*

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

J. I. WOOTEN

Writer: P. E. Black, NREAD 5003  
Typist: J. Cross 29Aug85



ESTIMATE OF VALUE PROVIDED IN A MEMO TO AG'S FAC  
OF FY-86 SITE PREPARATION RESPONSE TO TRAINING.

3,094 MBF pine @ 130.00/MBF = \$402,220

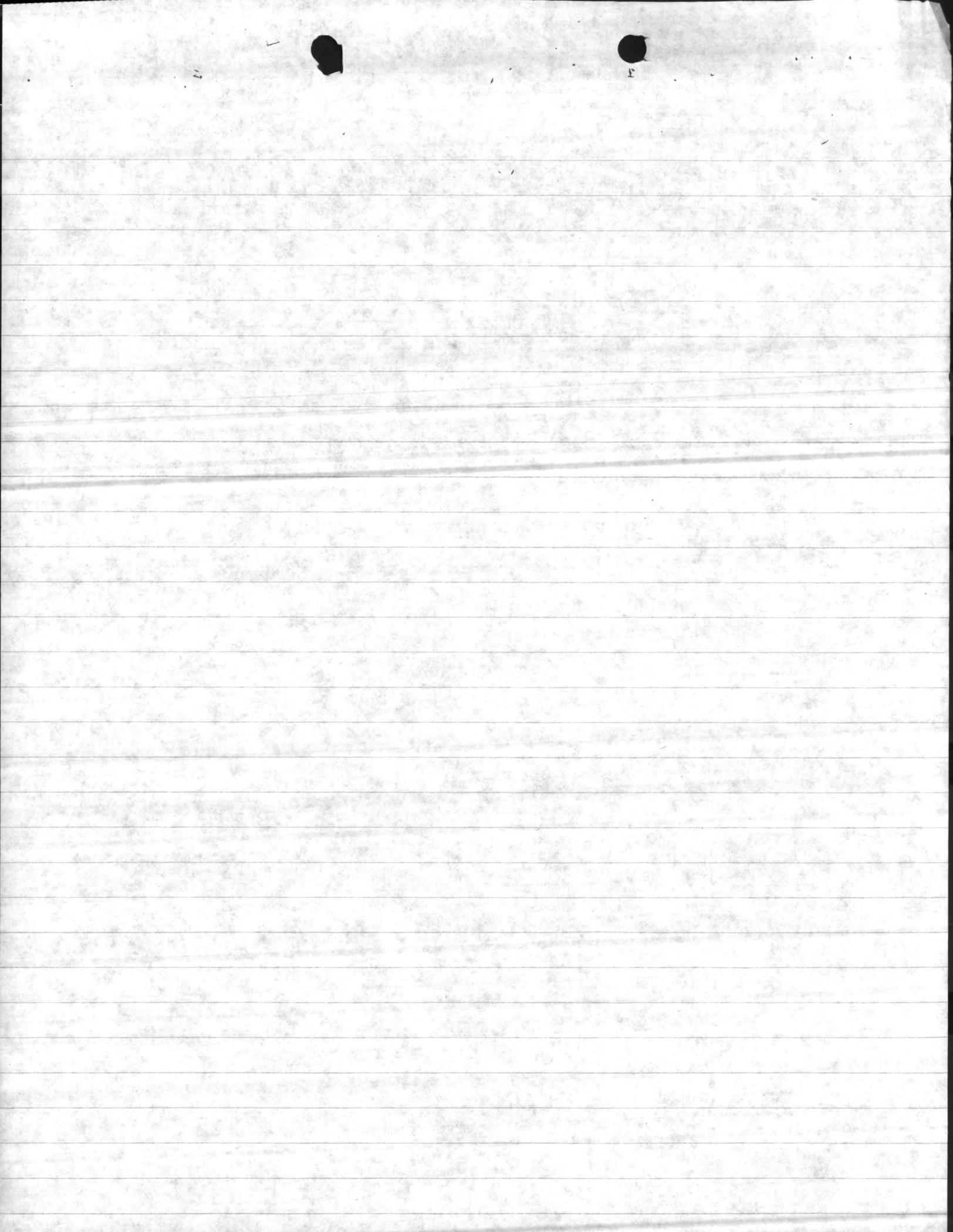
2,611 cords pine @ 10.00/cd = 26,100

204 MBF HARDWOOD @ 50.00/MBF = 10,200

430 cords HARDWOOD @ 2.00/cd. = 860

439,380

LETTER USED \$435,000





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

IN REPLY REFER TO  
TFAC/ARB/ves  
3900  
22 Oct 1982

FIRST ENDORSEMENT on CG, 2d MarDiv ltr 3/RED/gac over 3900 dtd  
14 Oct 82

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

Subj: Creation of a Tactical Movement Range

1. Forwarded for review and approval.

2. This requirement constitutes a refinement of previously proposed and examined efforts in the HA/HC areas, but also includes portions of the contiguous HD area. Personal reconnaissance on 18 October 1982 by Base TFacO reveals that some portions of the NE part of the HD area have been recently lumbered, however considerable timber was left standing in these sales; and not "clear-cut" as requested in the basic correspondence. Further discussions between this office and sponsors of the request indicate that the term "clear-cut" as used in para 2 of basic correspondence is meant to be interpreted as "sufficient timber removed to permit reasonable movement by tracked vehicles with Unit Commander able to maintain visual contact with at least 5 other tracked vehicles".

Compt. 41  
2

2. Point of Contact for this section is LtCol BRUNELLI, TFac O, ext. 5803.

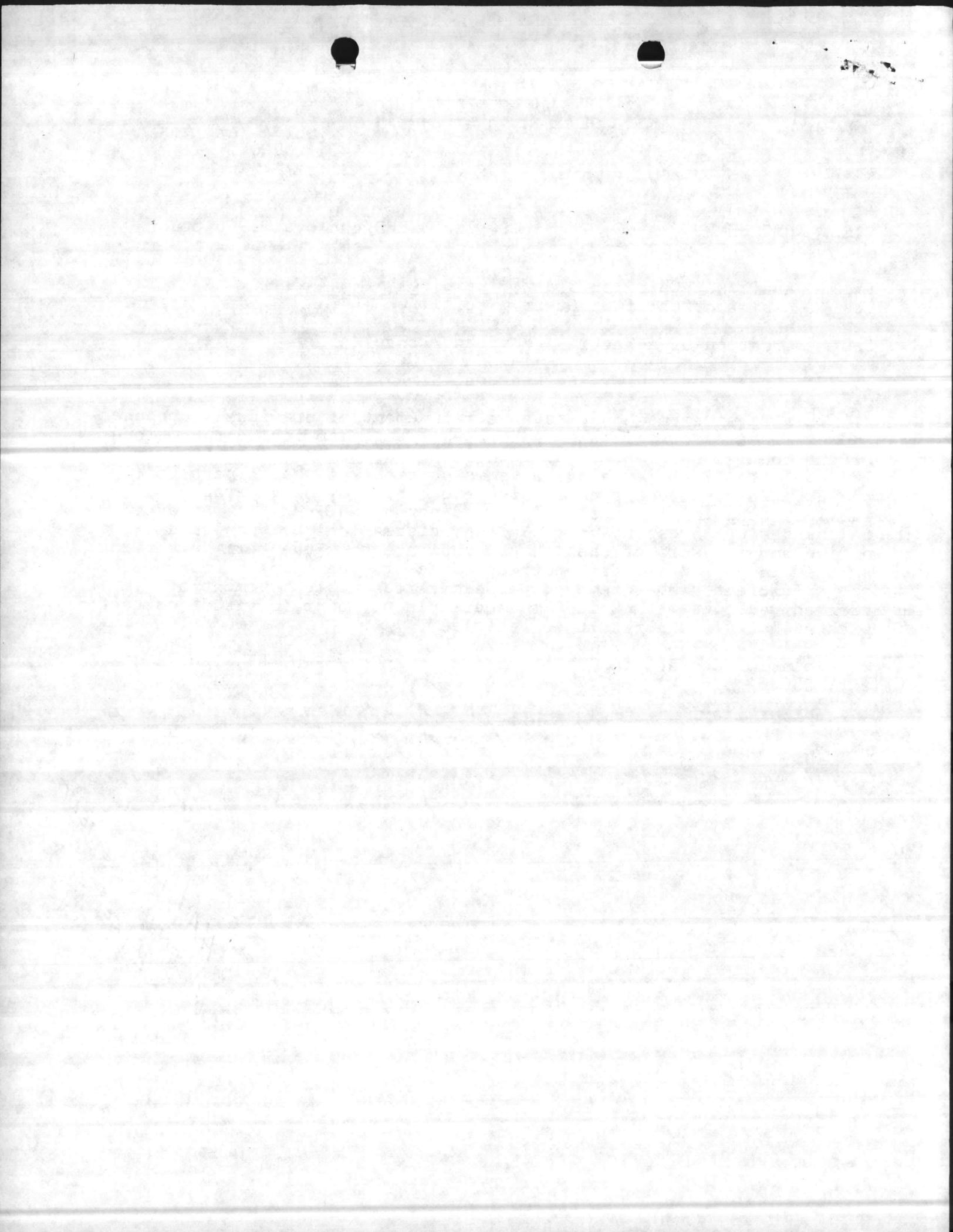
M. P. SAMS  
By direction

Compt. 41  
RES. Oct '79  
SALE opened 10-81  
SALE closed 9-82

Compt. 43  
PRESCRIBED MAY 1980  
SALE OPENED 10-82  
SALE CLOSED 11-83

STAFF STUDY completed  
3/82

HA/HC  
TACTICAL MOVEMENT  
RANGE





UNITED STATES MARINE CORPS  
2D MARINE DIVISION, FLEET MARINE FORCE  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

3/RED/gac  
3900  
14 Oct 1982

From: Commanding General  
To: Commanding General, Marine Corps Base, Camp Lejeune,  
North Carolina 28542

Subj: Creation of a Tactical Movement Range

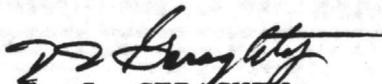
Ref: (a) CG, 2d Marine Division ltr 501/SDG/jbf over 5214 dtd  
2 Aug 1982

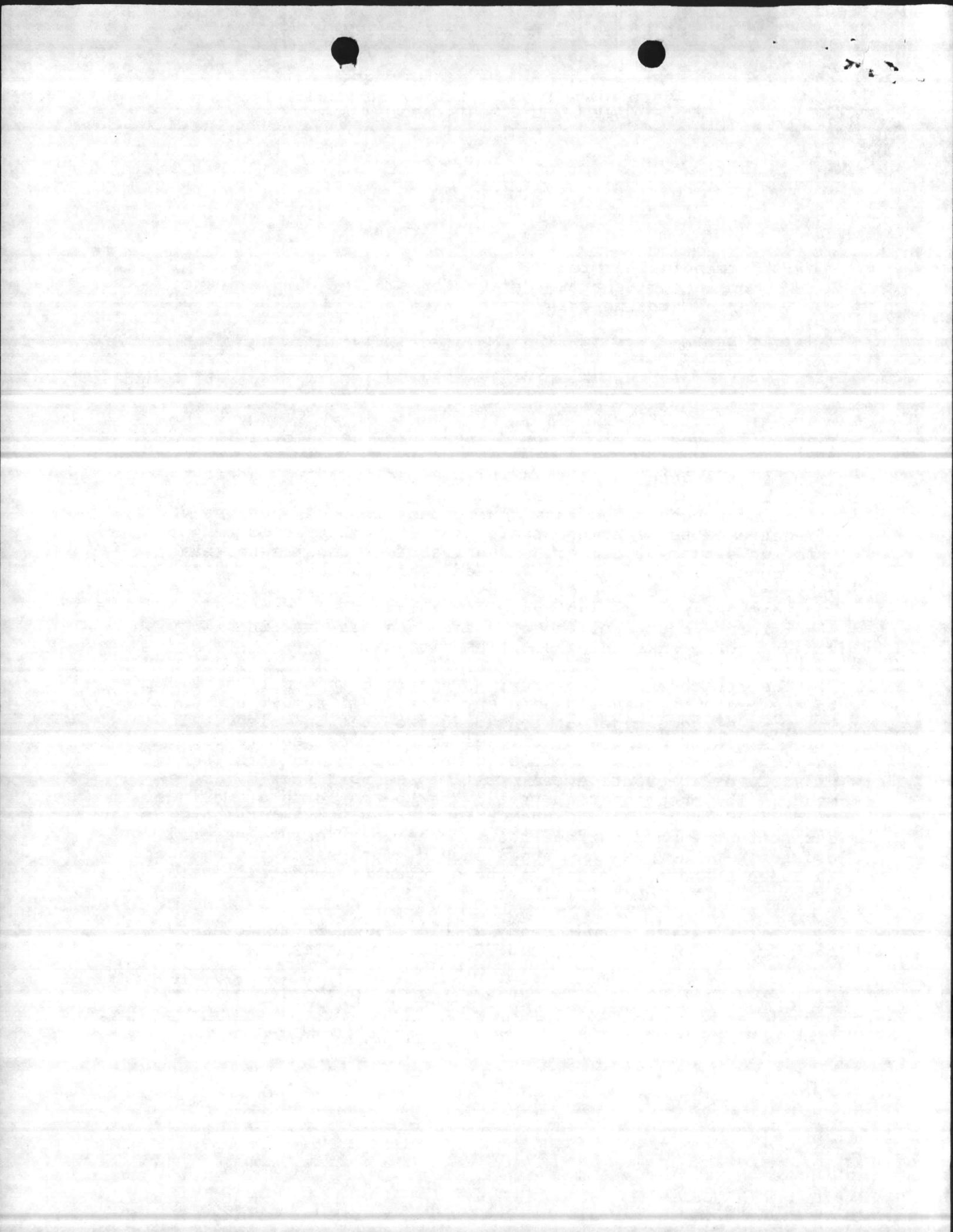
Encl: (1) Overlay of Proposed Area for Tree Removal

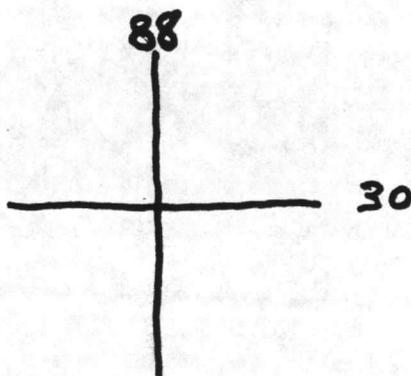
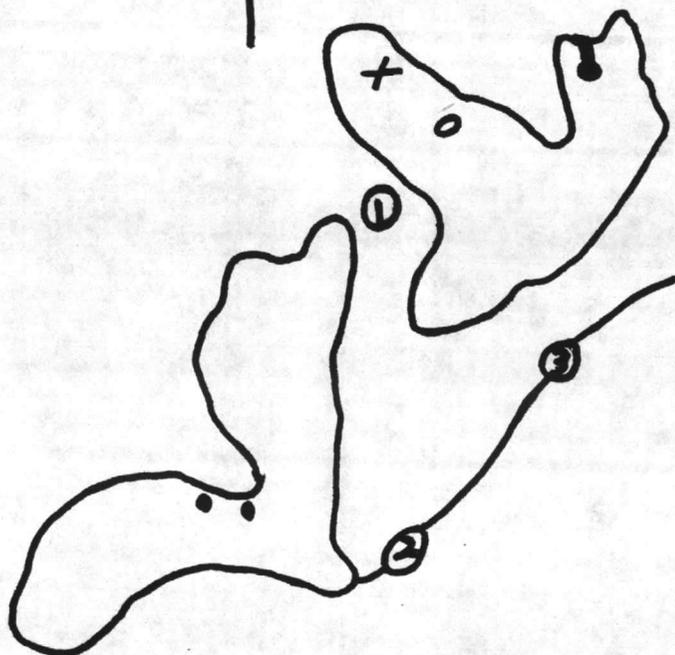
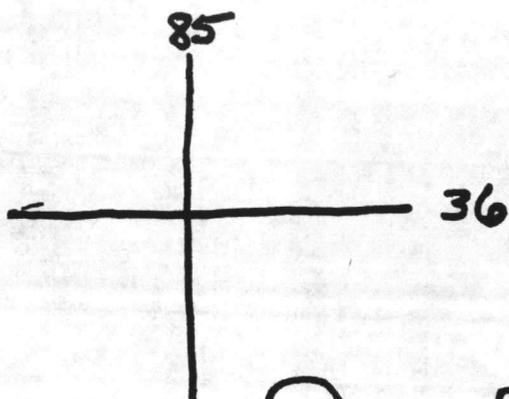
1. The reference identified the need to create a Tactical Movement Range, and proposed that the HA and HC areas be used for this purpose. The Base Environmental Board approved a test of that area to determine trafficability prior to cutting the existing stands of timber. A series of reconnaissance have been conducted on foot, in wheeled vehicles, and in tracked vehicles. The results of those efforts indicate that while some of the area is unsuitable for this type of range, a significant portion of the area does possess trafficability to support both tanks and assault amphibians.

2. The attached overlay provides specific information relating to the areas that should be clear cut of all timber and seeded in grass of some type not to exceed two feet in height. The three sites identified by circles and numbers require culvert and engineer efforts to either make existing tank trails passable or to create a tank trail to support tactical movements. The proposed tank trail runs to the north of Marines' Road in an area of that road where tactical movements have caused damage to the hard surface road in the last year on several occasions. The new tank trail should give maneuver commanders an approved route to execute these movements and relieve the pressure on Marine's Road.

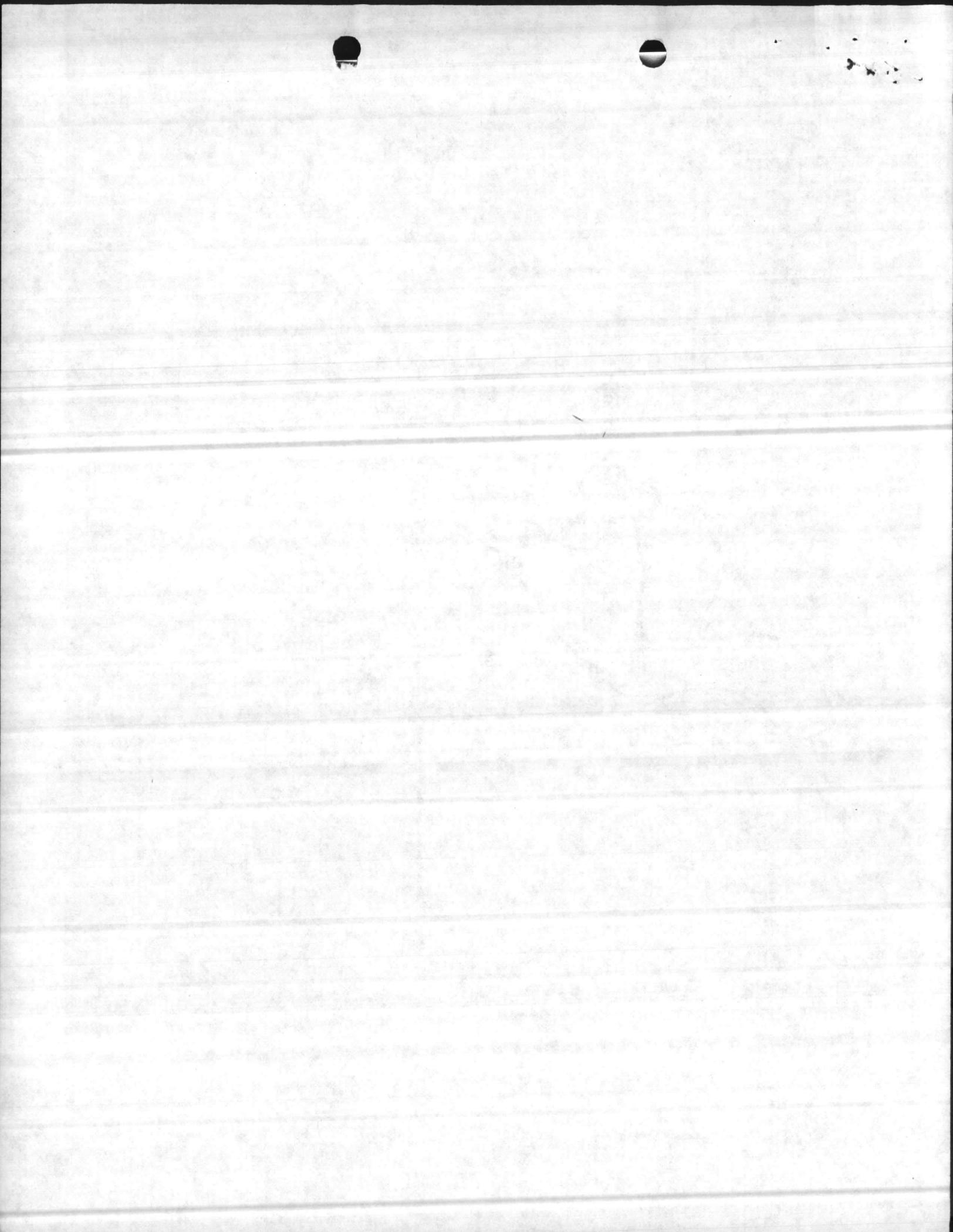
3. This Division stands ready within its capacity to assist in the work to modify the HA and HC areas as indicated.

  
T. J. GERAGHTY  
By direction





CAMP LEJEUNE SPECIAL MAP  
1:50,000



# PROPOSED FORWARD OBSERVATION TRAINING AREA

## ESTIMATED ACREAGE INVOLVED

1492 TOTAL ACRES INCLUDING TANK TRAIL

815 ACRES MERCHANTABLE PINE, PINE HRD + HRD.

677 ACRES IN REGEN PONDS ETC.

## ESTIMATED MERCHANTABLE VOLUME

3094 MBF PINE SAWTIMBER

2611 CDS PINE PULPWOOD

204 MBF HRDWD SAWTIMBER

430 CDS HRDWD PULP

PROPOSED FOREST RESERVATION TRAILS AREA

ESTIMATED VOLUMES

147	TOTAL AREA INCLUDING TRAIL
817	AREA AVAILABLE FOR PROPOSED
27	AREA TO BE EXCLUDED ETC.

ESTIMATED MARKETABLE VOLUME

304	MBF	PINE SAWTIMBER
25	CS	PINE FIREWOOD
25	MBF	WOOD SAWTIMBER
45	CS	WOOD FIRE

TANK TRAIL	AREA 1	AREA 2	AREA 3
$1\frac{1}{4} \times 75 = 1$	16.56	10.2	10.15
693000 sq ft	16.58	10.15	10.175
15.9 acres	16.575	10.175	10.15
	663 acres	407 acres	406 acres

total A 1,492a. (815 mod)

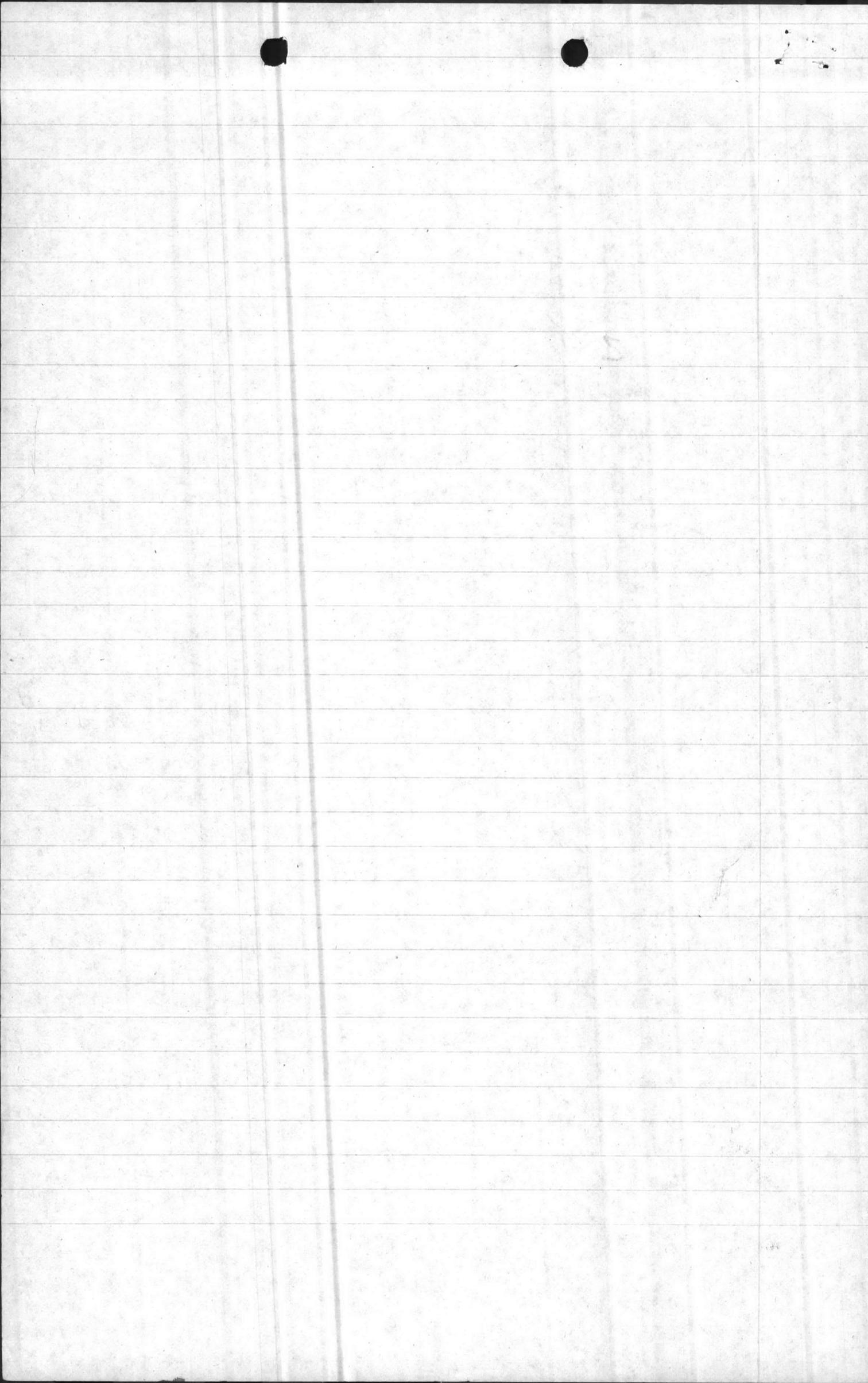
	Acres	TYPE	BA	CLASS	P MBF	CO	H MBF	CO
C41								
std 15 thinned	1.25 = 50	0319	50/75	369	300	150	17	50
std 10	1.3 = 52	0319	72/142	367	468	208	36	52
std 11	.25 = 10	0300	60/60	pole	-	20	-	-
std 15 thinned	2.75 = 109	0319	50/75	369	654	327	38	110
std 10A thinned	.5 = 2	0300	60/60	367	12	6	-	-

C-44	std 2 = 80	a	0304	66/86	469	120	160	-	24
	std 9 1.9 = 76	a	0304	49/52	469	95	33	-	-
	std 17 .2 = 8	a	0417	25/40	469	9	4	-	1
	std 10 5.1 = 204	a	0300	82/100	369	918	790	-	15
	std 16 .2 = 8	a	0314	60/92	369	12	24	-	-
	std 15 .175 = 5	a	1218	3/33	469	-	-	2	6

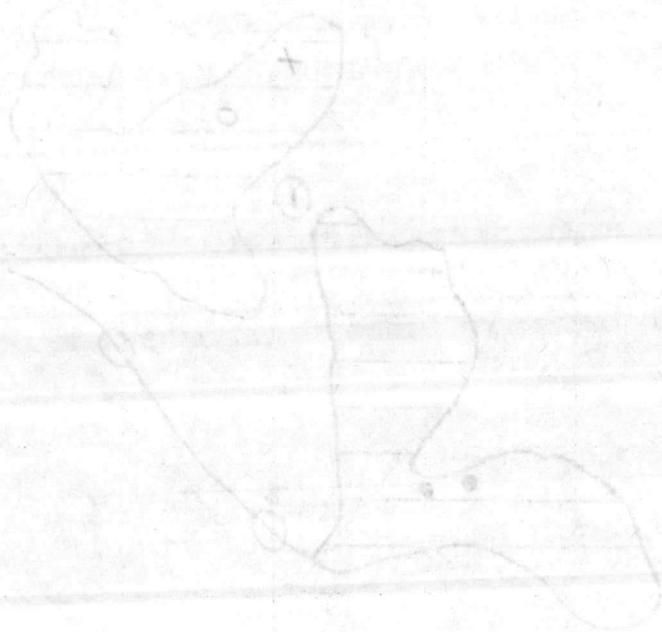
C-43	std 9 3.565 = 142	a	0300	101/127	369	364	800	45	140
	std 23 .225 = 9	a	0319	70/95	367	60	14	3	9
	std 12 .2 = 8	a	0300	101/27	369	20	25	-	4
	std 4 .25 = 10	a	0300	165/175	469	12	20	-	6
	std 3 .3 = 12	a	0315	27/77	267	8	-	-	10
	std 2 .15 = 6	a	1819	39/80	468	3	4	14	1
	std 1 .2 = 8	a	0315	41/100	467	19	10	38	1

3077 2595 193 424

Tank Trail	TYPE	BA	CLASS	P MBF	CO	H MBF	CO
2.27a - 1/4 mi hardwood	1819	0/60	469	-	-	1087	-
4.54a - 1/2 mi pine/hrd	034	50/77	369	6	5	-	-
9.09a - 1 mi pine	0100	65/80	369	14	11	-	1
				3094	2611	204	430

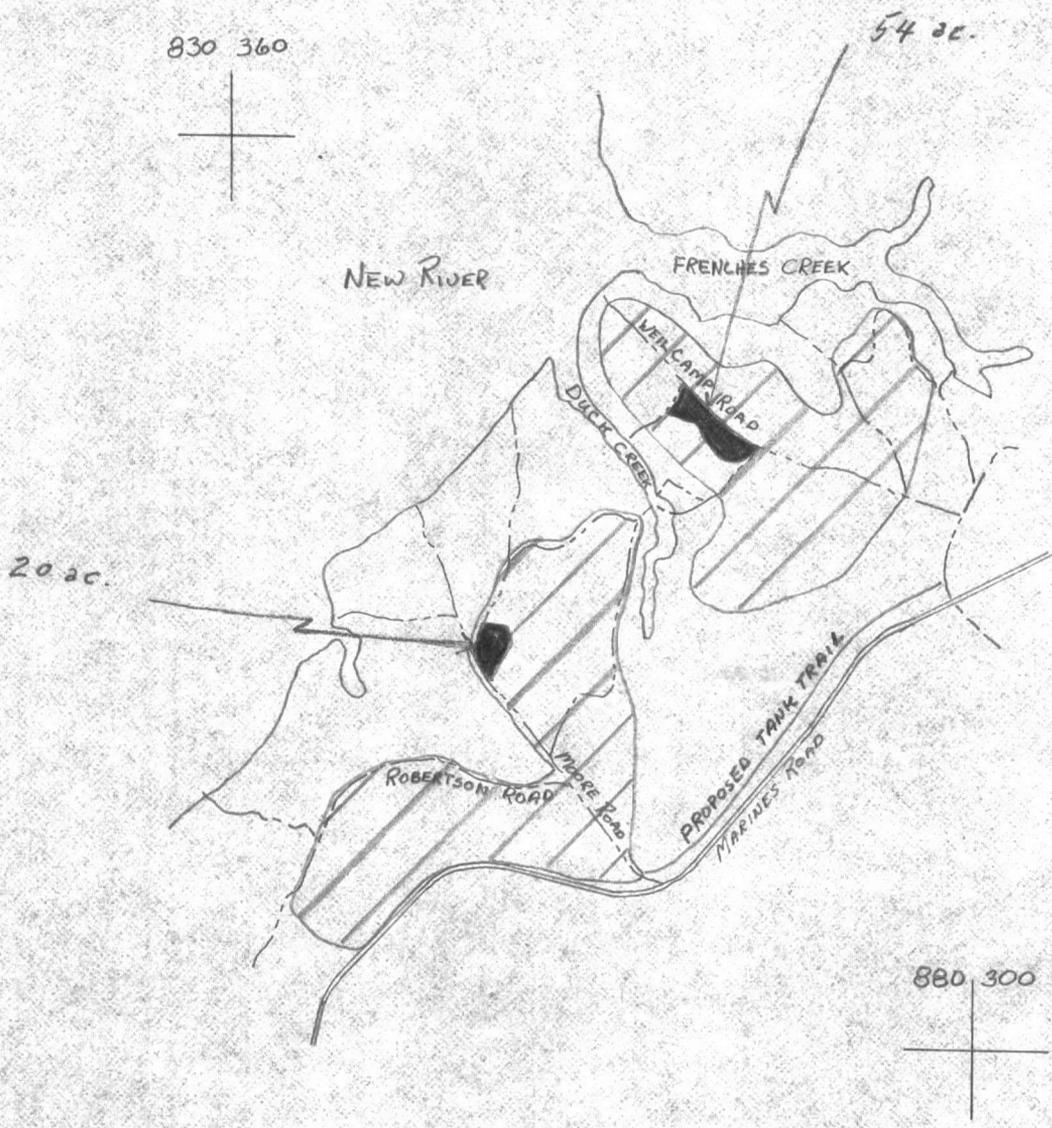






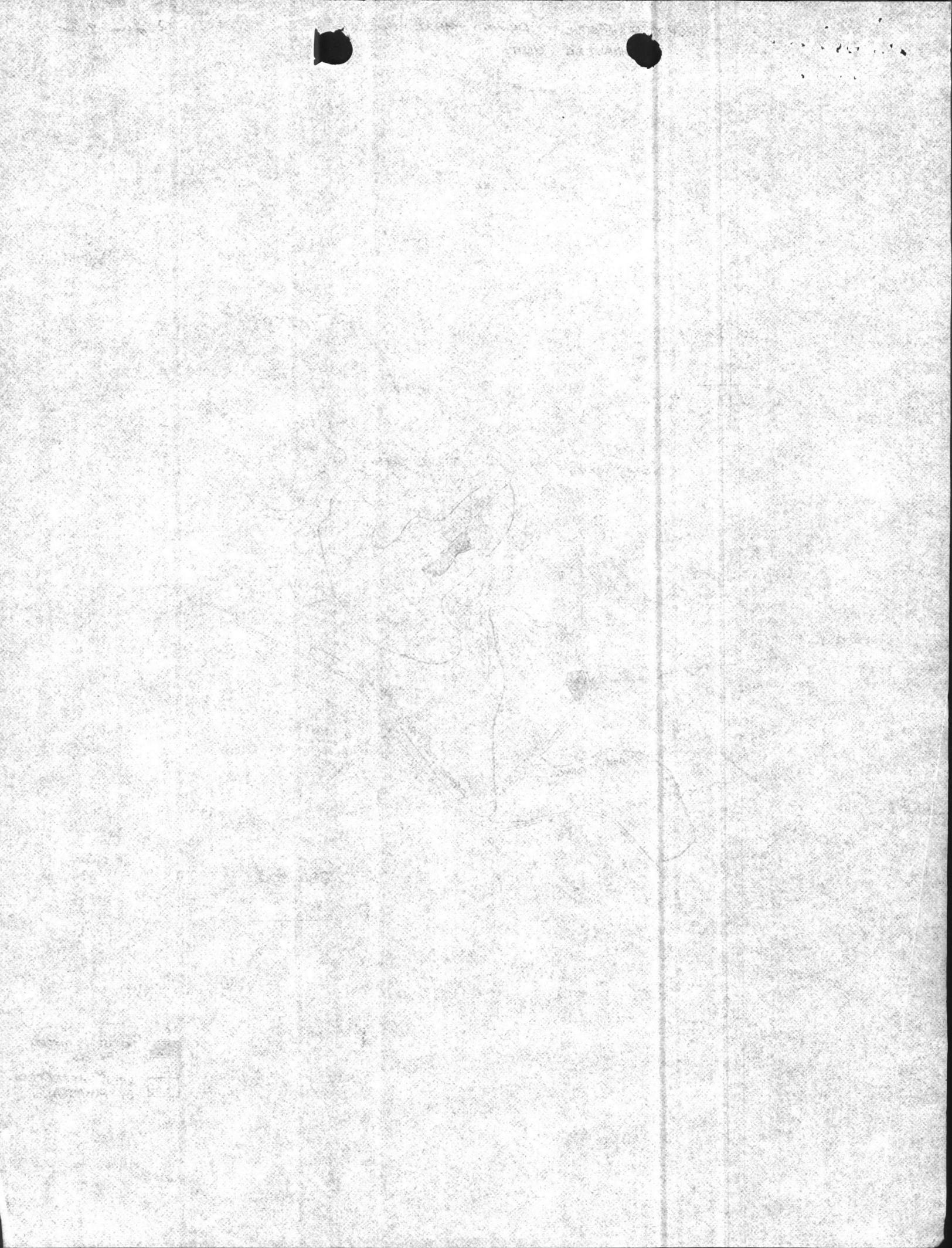
PROPOSED TACTICAL DRIVING RANGE FOR  
MECHANIZED UNITS

3 Jan 83



■ TO BE PLANTED  
FY-83

▨ AREA AFFECTED  
BY PROPOSAL

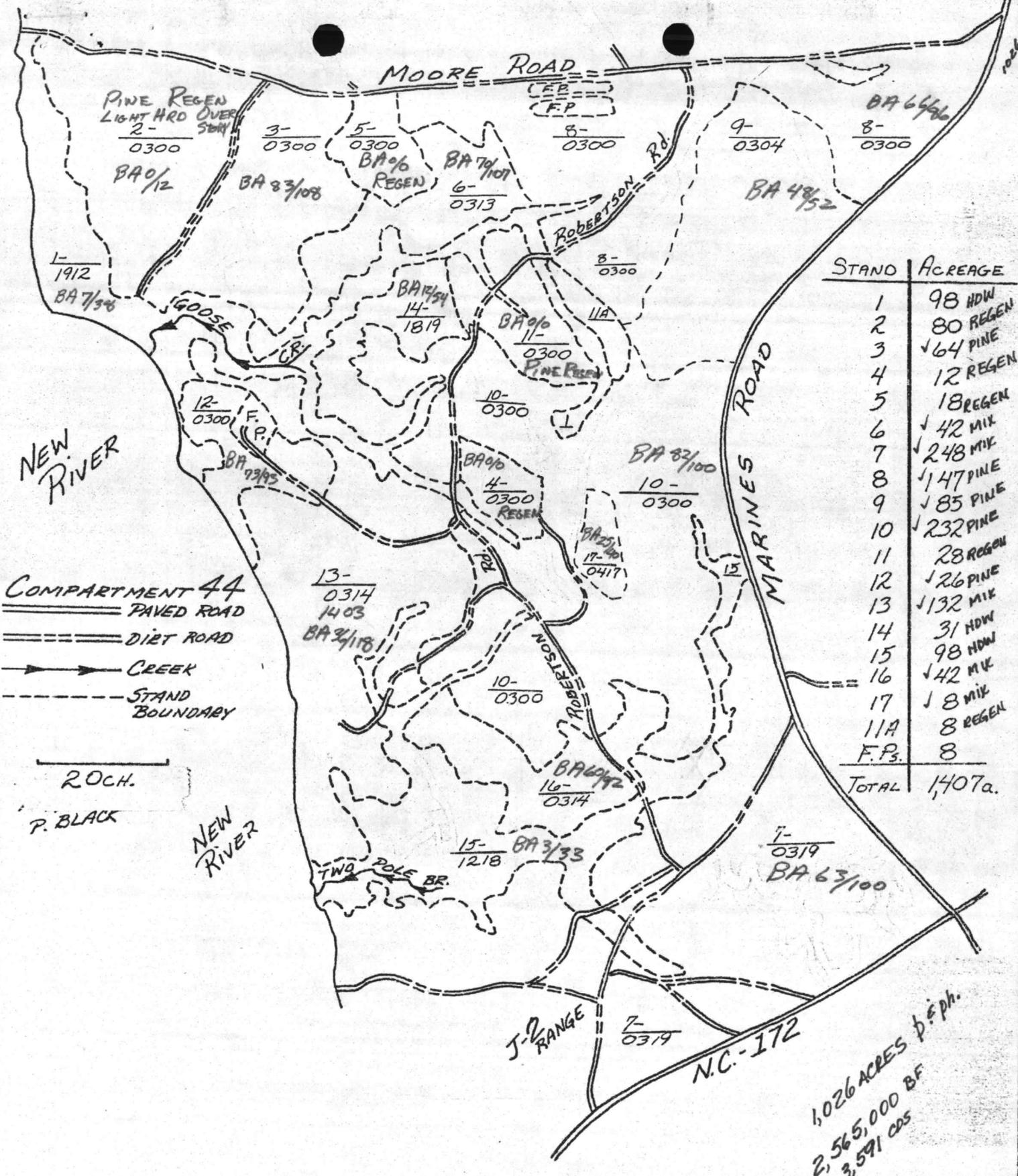


Comp't.	Acres	SAV	Pulp
'44'	1,026	2,565,000	3,591
43	476	1,190,000	1,666
42	<u>298</u>	<u>745,000</u>	<u>1,043</u>

[ 1,800      4,500,000      6,300  
 IF THINNED

[ IF CLEARCUT  
 9,000,000      12,600





**COMPARTMENT 44**  
 PAVED ROAD  
 DIRT ROAD  
 CREEK  
 STAND BOUNDARY

2000 FT.  
 P. BLACK

STAND	ACREAGE
1	98 HDW
2	80 REGEN
3	✓ 64 PINE
4	12 REGEN
5	18 REGEN
6	✓ 42 MIX
7	✓ 248 MIX
8	✓ 147 PINE
9	✓ 85 PINE
10	✓ 232 PINE
11	28 REGEN
12	✓ 26 PINE
13	✓ 132 MIX
14	31 HDW
15	98 HDW
16	✓ 42 MIX
17	✓ 8 MIX
11A	8 REGEN
F.P.	8
TOTAL	1,407a.

J-2 RANGE

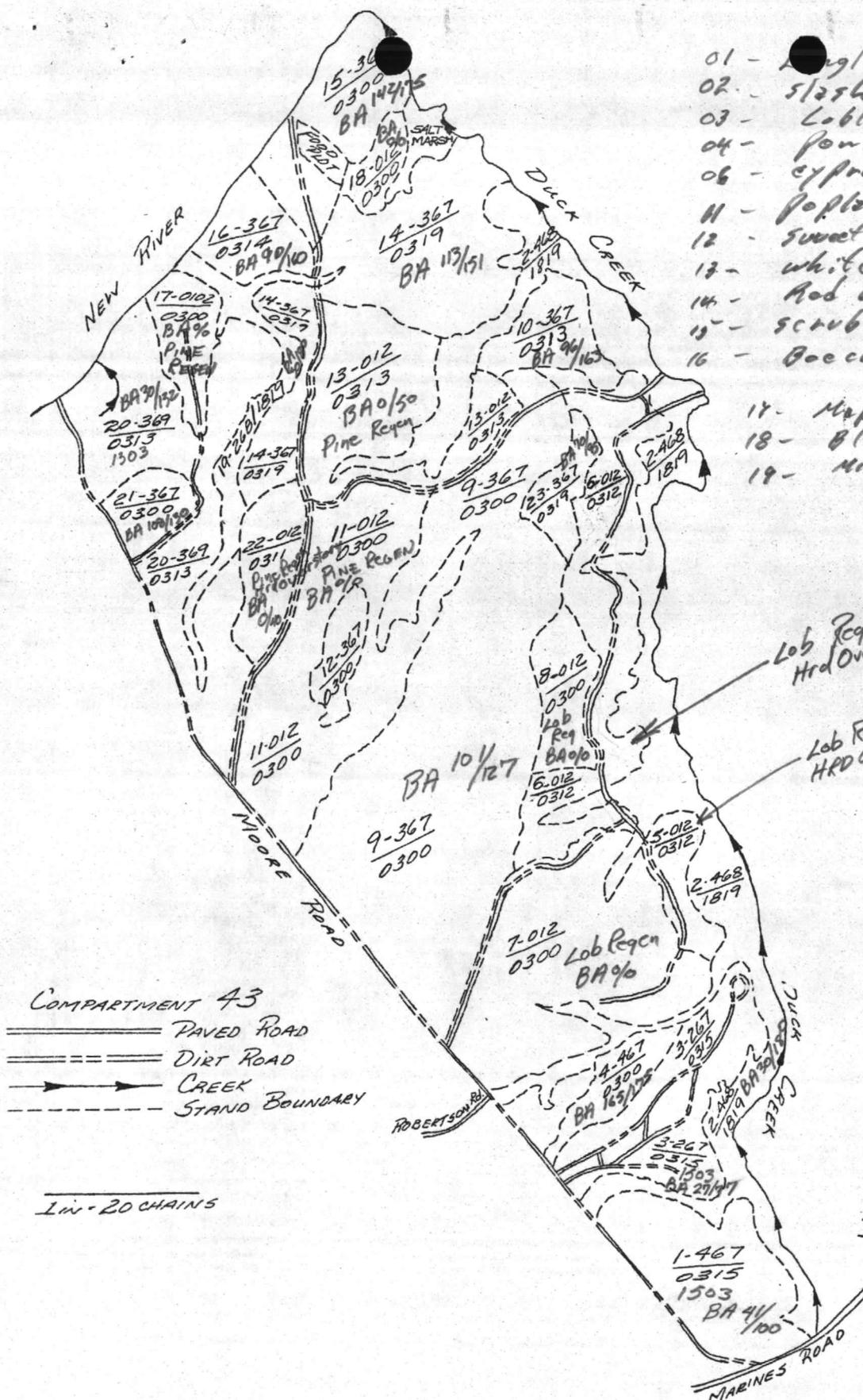
N.C.-172

1,026 ACRES p.f.ph.  
 2,565,000 BF  
 3,591 CDS

1950  
1951  
1952  
1953  
1954  
1955  
1956  
1957  
1958  
1959  
1960

1961  
1962  
1963  
1964  
1965  
1966  
1967  
1968  
1969  
1970

- 01 - Douglas
- 02 - slash
- 03 - Loblolly
- 04 - pond
- 06 - cypress
- 11 - Poplar
- 12 - Sweet gum
- 13 - white oak
- 14 - Red oak
- 15 - scrub oak
- 16 - Beech
- 17 - Maple
- 18 - Black gum
- 19 - Miscellaneous



STAND #	GRASS	NET
1	37	37 MIX
2	107	107 HDW
3	35	35 MIX
4	10	10 PINE
5	9	9 REGEN
6	50	50 REGEN
7	78	78 REGEN
8	14	14 REGEN
9	148	148 PINE
10	15	15 MIX
11	64	64 REGEN
12	8	8 PINE
13	42	42 MIX
14	60	60 MIX
15	27	27 PINE
16	14	14 REGEN
17	13	13 REGEN
18	6	6 HDW
19	17	17 MIX
20	76	76 MIX
21	10	10 PINE
22	16	16 MIX
23	9	9 MIX
FOODPLOT SALT MARSH	873	865
	877	

476 ACRES  
 1,190,000 BF  
 1,666 CDS

COMPARTMENT 43  
 PAVED ROAD  
 DIRT ROAD  
 CREEK  
 STAND BOUNDARY

1 in = 20 CHAINS



# COMPARTMENT 42

==== PAVED ROAD

==== DIRT ROAD

--- STAND BOUNDARY

→ CREEK

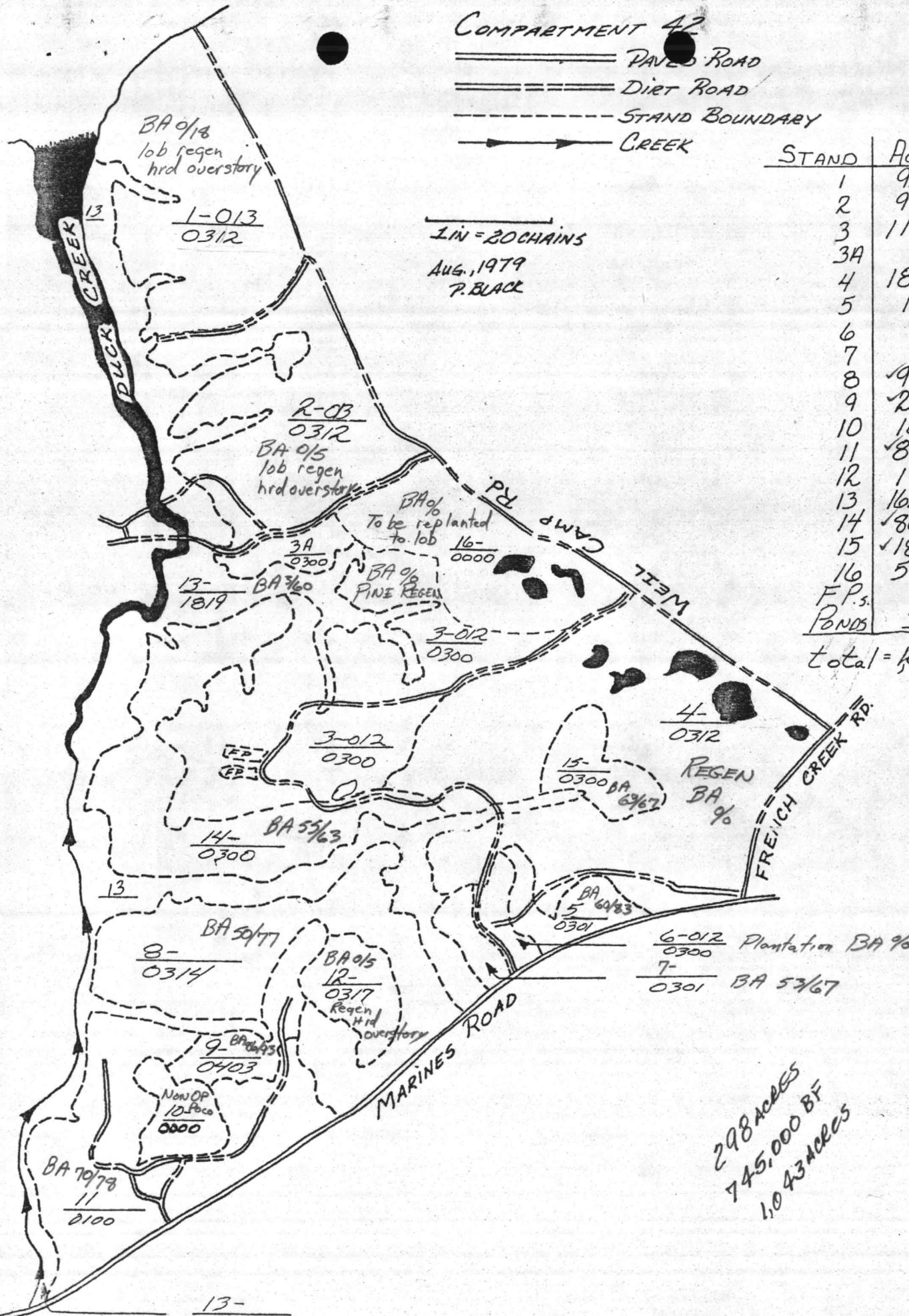
BA 9/18  
lob regen  
hrd overstory  
1-013  
0312

1 IN = 20 CHAINS

AUG., 1979  
P. BLACK

STAND	ACREAGE
1	95 REGEN
2	94 REGEN
3	117 REGEN
3A	9 REGEN
4	182 REGEN
5	17 REGEN
6	9 PINE REGEN
7	8 REGEN
8	91 mix
9	20 PINE
10	16 Non-forest
11	89 PINE
12	19 REGEN
13	162 HOW
14	80 PINE
15	18 PINE
16	59 REGEN
FP.s	1
PONDS	3

Total = 1089a.



298 ACRES  
745,000 BF  
1,043 ACRES



FOREST TYPE CODES. (4 Digits)

Pine

- 01 Longleaf
- 02 Slash
- 03 Loblolly
- 04 Pine
- 05 Shortleaf
- 06 Cypress

Hardwoods

- 11 Poplar
- 12 Sweetgum
- 13 White Oak
- 14 Red Oak
- 15 Scrub Oak
- 16 Beech
- 17 Maple
- 18 Blackgum
- 19 Misc

0000 Non-Forested  
00 Filler

STAND CONDITION CLASS (3 Digits)

0 In Regeneration

- 11 Poorly Stocked
- 12 Adequately Stocked
- 13 Overstocked

FIRST DIGIT

- 1 Sparce High Quality
- 2 Sparce Low Quality
- 3 High Quality
- 4 Low Quality

SECOND DIGIT

- 5 Mature
- 6 Immature

THIRD DIGIT

- 7 Sawtimber
- 8 Poletimber
- 9 Saw and Pole Timber

\*SPARCE

Pole Timber  
Sawtimber

30 BA	
30 BA	Height 36-65'
40 BA	Height 66-95'
50 BA	Height 96 +

PETE Call

Lt. Graham This P.M.

2nd Mar Div Request  
Tank Range

HA HC HD  
How Much Clearing?

3065/66

FOREST TYPE CODES (4 Digits)

Pine

- 01 Longleaf
- 02 Slash
- 03 Loblolly
- 04 Pine
- 05 Shortleaf
- 06 Cypress

Hardwoods

- 11 Poplar
- 12 Sweetgum
- 13 White Oak
- 14 Red Oak
- 15 Scrub Oak
- 16 Beech
- 17 Maple
- 18 Blackgum
- 19 Misc

0000 Non-Forested  
00 Filler

STAND CONDITION CLASS (3 Digits)

0 In Regeneration

- 11 Poorly Stocked
- 12 Adequately Stocked
- 13 Overstocked

FIRST DIGIT

- 1 Sparse High Quality
- 2 Sparse Low Quality
- 3 High Quality
- 4 Low Quality

SECOND DIGIT

- 5 Mature
- 6 Immature

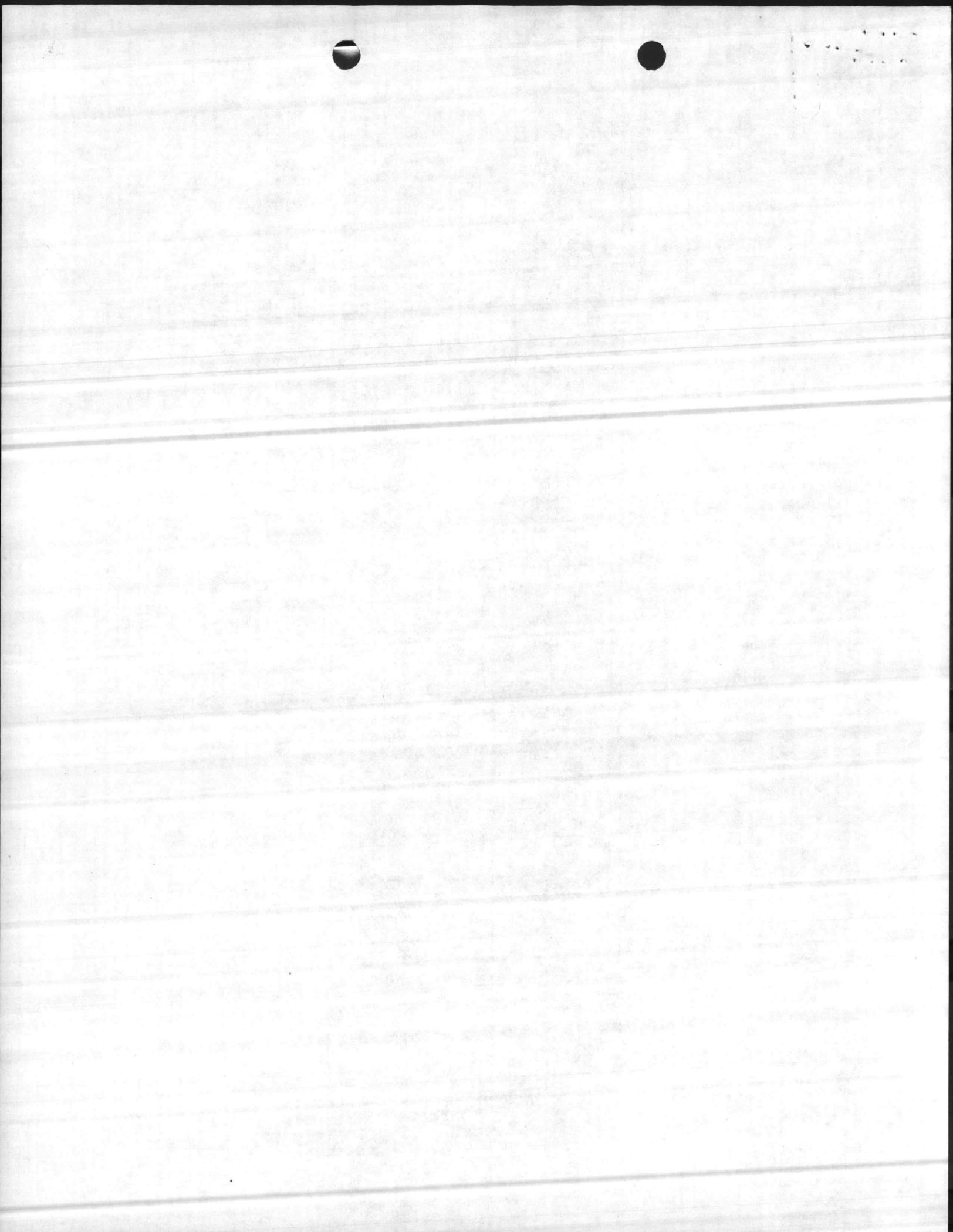
THIRD DIGIT

- 7 Sawtimber
- 8 Poletimber
- 9 Saw and Pole Timber

\*SPARCE

Pole Timber  
Sawtimber

30 BA  
30 BA Height 36-65'  
40 BA Height 66-95'  
50 BA Height 96 +



HA & HC Areas

1. There is approximately 3,373 acres in the two training areas - Approx 1800 ac. of this is in merchantable pine or pine class timber.
2. 324 acres in compartment 43 has been marked for a timber sale - all marking was done by a contractor - all marking is for an intermediate cut (thinning) (pine s.t. 2.5 MBF/ac - 3.7 cbs/ac. pine pulp)
3. Based on the above marking, the volumes for the entire area would be approximately 4.5 million B-ft. <sup>pine</sup> S.T. and 6,300 cbs. pine pulpwood. Double these figures for clear cut. These figures are excluding all hardwood stands, pine regeneration stands, food plots, salt marshes etc.
4. There are no <sup>specific</sup> areas shown in the PEA for clearing/thinning
5. Timber contract harvester(s) would buy & cut only the merchantable material. All other material would have to be disposed of in some other manner, (loggers are not equipped for land clearing) to meet the "knee high" specification.
6. There might be difficulty in moving this quantity of material at present time with the timber market situation down - most suppliers are <sup>the most</sup> & have been on a quota system.
7. We can pull all available timber markers/cruisers if deemed necessary to get timber volumes for ROTEC to advertise & sell - other projects would need to be deferred.

(over)

8. Our most recent sales brought

compt. 5

\$133.54 MBF S.T.

\$9.00 cd. Pullwood

compt. 24

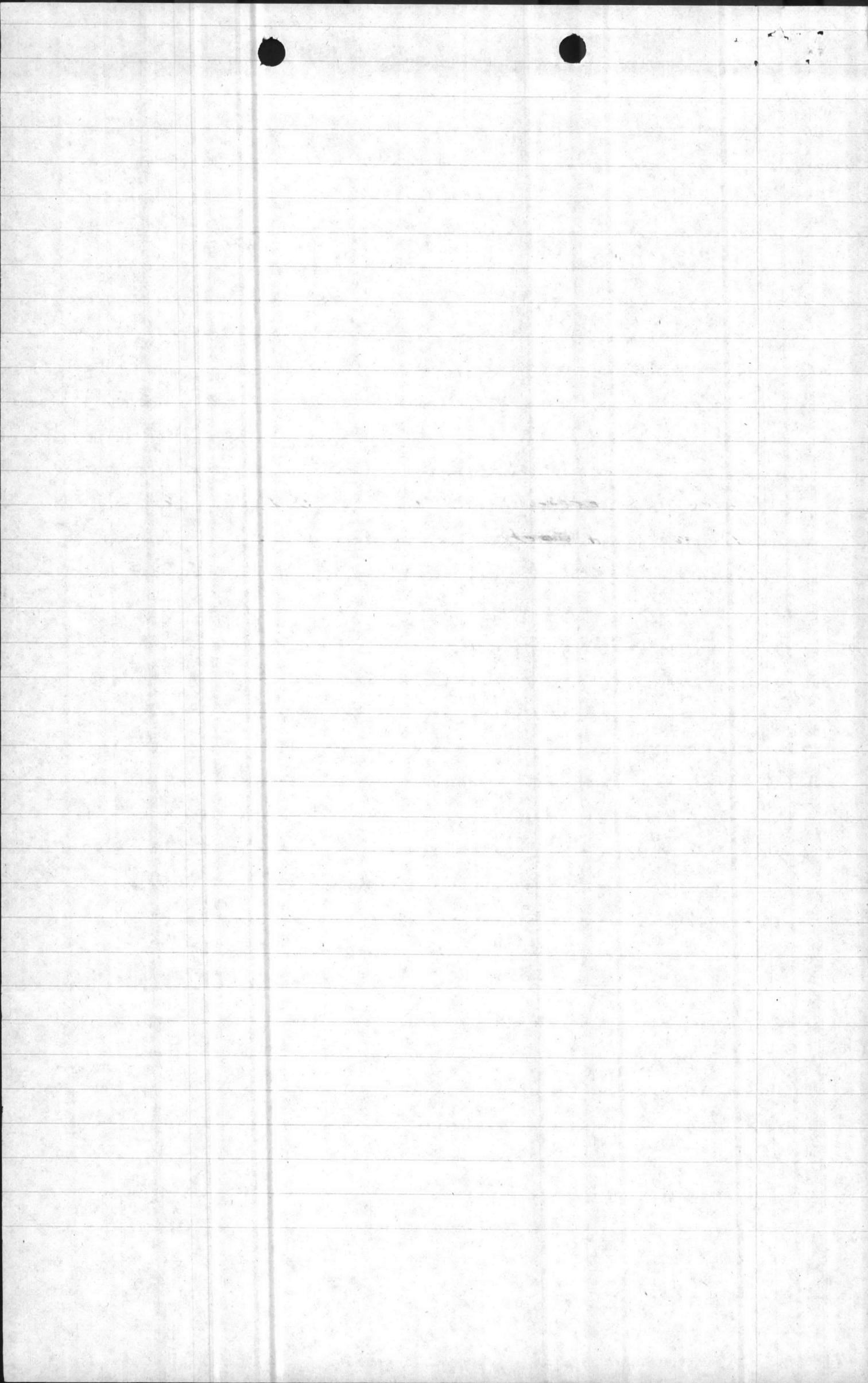
\$69.00 MBF

\$6.75 cd. Pullwood

10 & 11-2 Impact Areas

1. The Buffer zone for the 6-10 Impact Area (Northern portion) does not extend to Off-1 and gun position # 9. However, the area Appendix A is considered non commercial for.
2. It is highly unlikely that trees and other vegetation taller "than wrist height" can be cleared or thinned in the site area Appendix A without the use of herbicides.
3. The <sup>fire</sup> tower at 901321 is the primary forest fire detection tower on Base. The tower is manned basically two seasons of the year Spring (M) and Fall (M)

\* initiate letter to A/Chief staff training via A/Chief staff facilities on ? management in Buffer zones.



No clearing within 1000m of New River

Est. Volumes compt. # 43

Pine	814 MBF	S.T.	5070	removed
Pine	1,081 cbs	pulp	"	"

Total Acres marked 324

Approx	<del>2.5 MBF</del>	5.0 MBF / AC	" clearcut "
Vol / AC.	<del>2.5 cbs</del>	7.0 cbs / AC.	

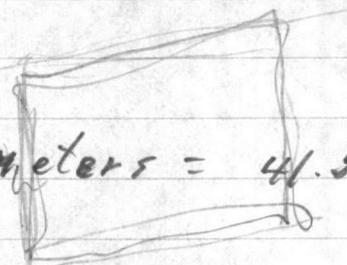
39.36" / yd

$$\frac{39.36''}{36''} = \frac{1000}{x}$$

$$x \cdot 39.36'' = 36,000$$

$$x = \frac{36,000}{39.36} = 914.63 \text{ yds}$$

47.



1000 Meters = 41.57 ch. 2.08" on Aerial photos

Erin Rouse  
22/3

Handwritten notes at the bottom left of the page, including the number '5' and some illegible scribbles.



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

IN REPLY REFER TO  
TRNG/AWR/eks  
1500  
27 Jul 82

MEMORANDUM

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

Subj: Various Staff Studies of 2d Marine Division

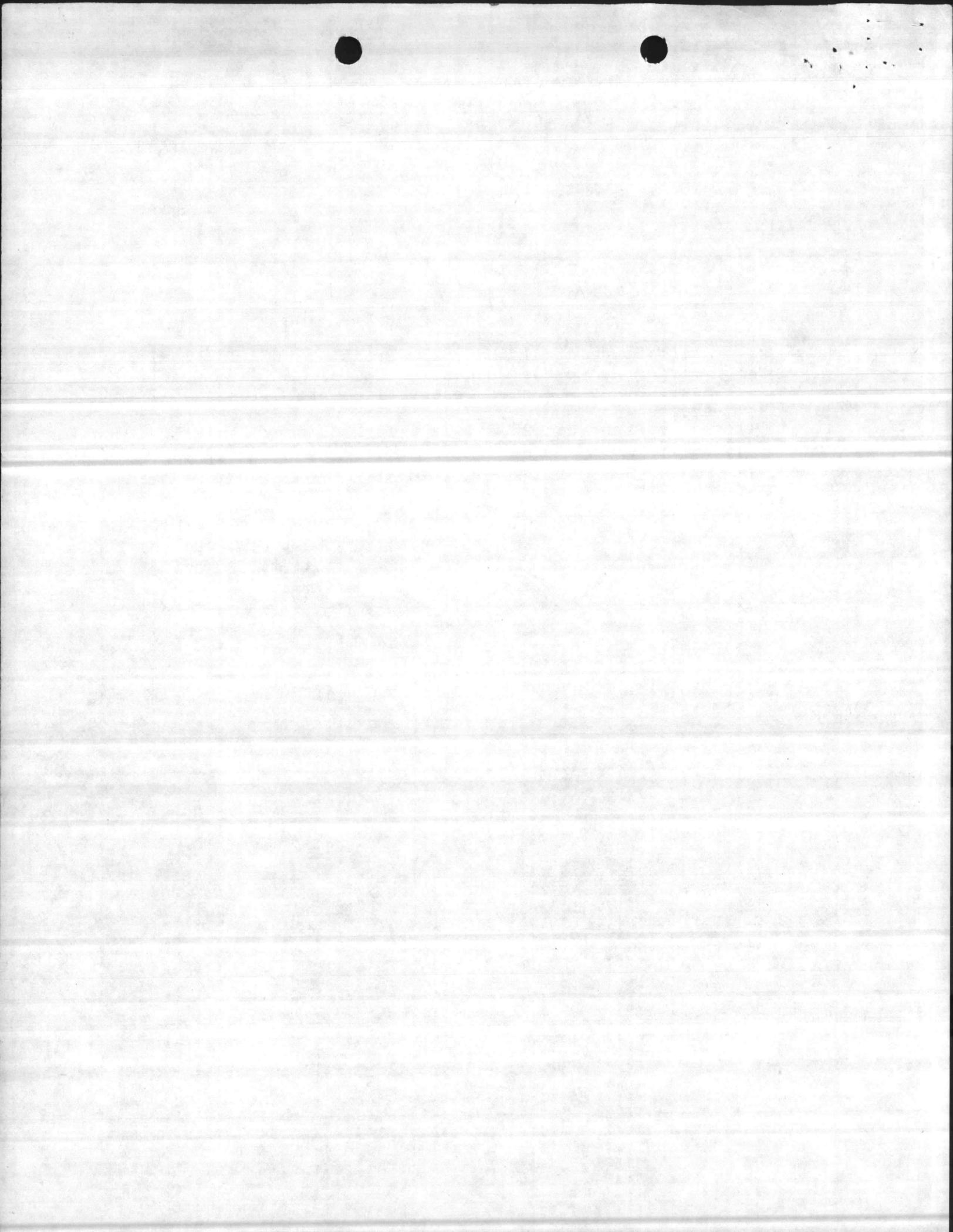
- Encl: (1) ✓ Staff Study dtd 16 Mar 82 - Creation of a Tactical Driving Range for Mechanized Units  
(2) ✓ Staff Study - Ground Observation into G-10 and K-2 Impact Areas  
(3) ✓ Point Paper dtd 26 Jul 82 - Tank Gunnery Range Modification

1. Enclosures (1) through (3) are submitted for action and information as deemed appropriate.

2. It is my understanding that BGen SMITH, ADC, 2d Marine Division will discuss enclosures (1) through (3) with CG at 1330, 28 Jul 1982.

*A. W. Ruete Jr.*  
A. W. RUETE, Jr.

*pull old '62 photos of AA& HD  
& new '75 photos for comparison*



STAFF STUDY

Copy no. \_\_\_\_\_ of \_\_\_\_\_ copies  
DC/S, Readiness  
1stLt S. D. GLASS  
16 March 1982

SUBJECT

Creation of a Tactical Driving Range for Mechanized Units

INTRODUCTION

The Marine Corps' interest in Mechanized/Maneuver Warfare and possible commitment to battlefields in Europe, Africa, or the Middle East will require MAGTFs to operate in areas with long distance (1000m to 5000m) fields of observation and fire. Success and survival on these battlefields will depend on a unit's ability to maneuver across open terrain with a minimum of casualties.

1. PROBLEM

There are presently no areas at Camp Lejeune with sufficiently large fields of observation for mechanized units to gain adequate experience in the techniques of movement in open terrain. Dense stands of trees that cover most of Camp Lejeune obscure long range fields of fire and observation in areas otherwise suitable for the above mentioned training. Also, regulations against damaging any commercially valuable trees, restricts the tactical employment of armored vehicles in all Camp Lejeune training areas.

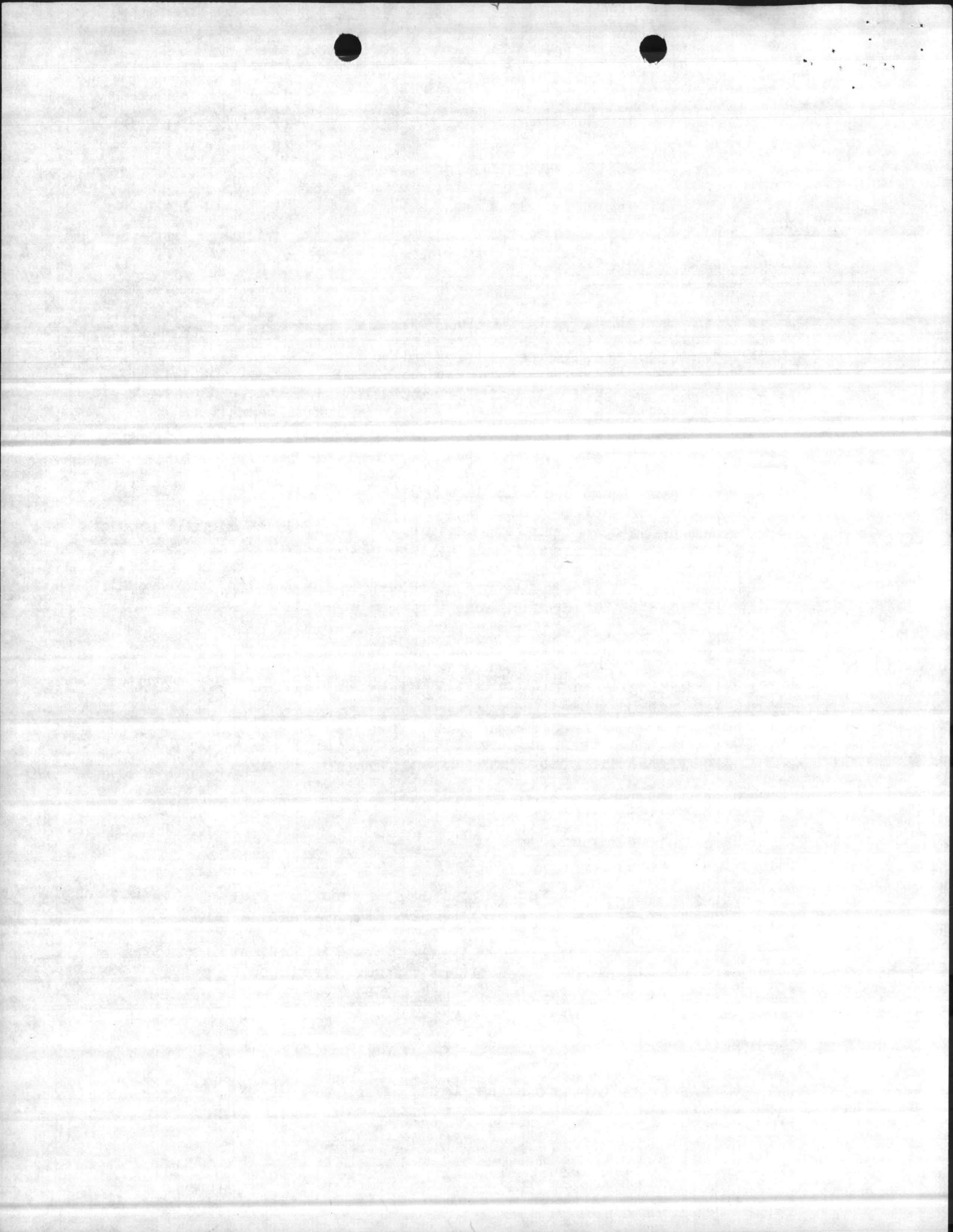
2. ASSUMPTIONS

- OK a. That training is significantly important to alter some of the natural tree growth at Camp Lejeune.
- ? b. That a suitable training area can be developed and still properly preserve the existing environment.

3. FACTS BEARING ON THE PROBLEM

- a. There is no designated tactical driving range on board Camp Lejeune at this time.
- ? b. Training areas HA and HC would provide a suitable tactical driving range if the trees were harvested or substantially thinned.
- c. The trees in training areas HA and HC could be harvested by civilian lumber and paper companies at a profit to the government and no cost to the Marine Corps.
- d. The trees in these areas do not provide habitat for any endangered species.
- e. The wet lands around Duck and Goose Creeks can be left intact.

ENCLOSURE (1)



4. DISCUSSION

a. Mechanized units require an opportunity to train frequently in the full range of movement to contact and assault techniques while dealing with multiple long range threats. There is no training area on board Camp Lejeune which (as presently vegetated) can fulfill this requirement. However, training areas HA and HC can provide a suitable area for mechanized unit training if the large stands of pine are cleared or significantly thinned. These training areas offer both rolling and flat terrain with varying degrees of trafficability. It is believed that measures to prevent soil erosion and damage to level lands can be implemented, and that lumber and paper companies could remove the commercially valuable timber with no threat to the environment or cost to the Marine Corps.

b. Training areas HA and HC are easily accessible for both tracked and wheeled vehicles. The value of a tactical driving range in these training areas is limited only by the imagination of the Marines that use it.

c. The alternative to a tactical movement range is to delay a significant portion of a unit's mechanized warfare training until that unit deploys to Ft Pickett, 29 Palms, or overseas. However, these training operations do not offer the frequent and regular opportunity for valid training offered by a tactical movement range at Camp Lejeune.

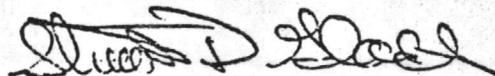
d. A readily available tactical driving range also allows company level units an opportunity to pursue their own training objectives, rather than those of a larger unit involved in a scheduled training exercise.

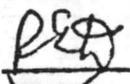
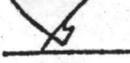
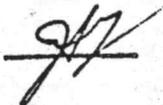
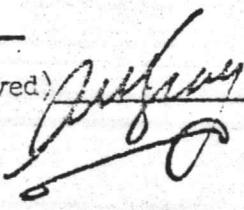
5. CONCLUSIONS

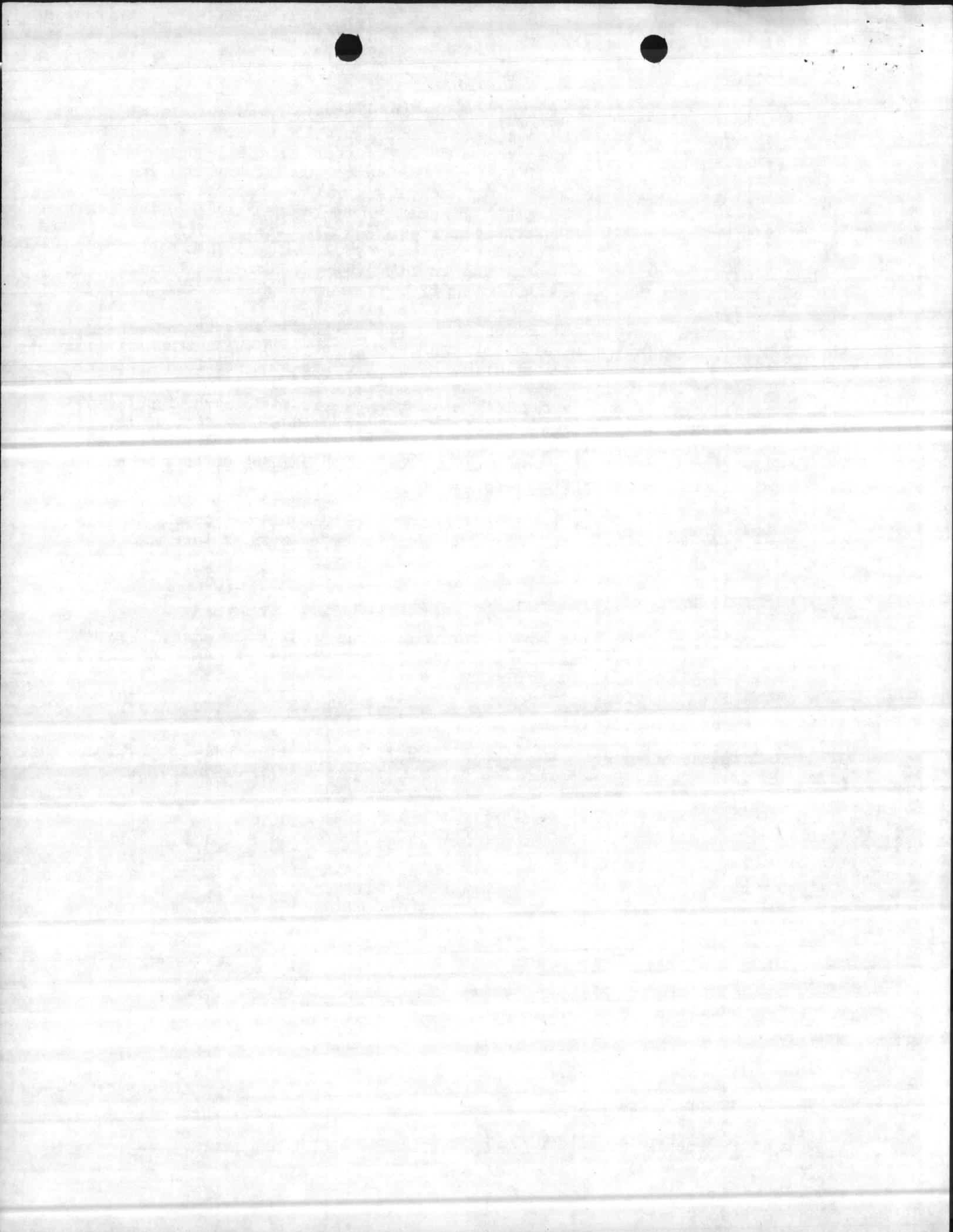
That creating a tactical movement/driving range in training areas HA and HC would offer the maximum available opportunity for mechanized units to gain experience in important warfare techniques.

6. ACTION RECOMMENDED

That the enclosed Preliminary Environmental Assessment be submitted to the Base Environmental Impact Review Board requesting that training areas HA and HC be converted into a tactical driving range.

  
STUART D. GLASS  
1stLt USMC  
STATISTICS OFFICER

	Concur	Non-Concur
AC/S, G-3 Training		_____
AC/S, G-3		_____
AC/S, G-4		_____
Chief of Staff	_____	_____
Commanding General (Approved)		(Disapproved) _____





UNITED STATES MARINE CORPS  
2D MARINE DIVISION, FLEET MARINE FORCE  
CAMP LEJEUNE, NORTH CAROLINA 28542

501/3DG/drj  
5214  
7 June 1982

From: Commanding General.  
To: Commanding General, Marine Corps Base, Camp Lejeune  
Subj: Tactical Driving Range; submission of Preliminary Environmental Impact Assessment  
Ref: (a) BO 11000.1A

1. It is requested that a Tactical Maneuver Driving Range be developed in the HA and HC training areas. A preliminary Environmental Impact Assessment is hereby submitted in accordance with reference (a).

a. Action/Project Description

(1) The Marine Corps is increasingly interested in preparing for mechanized warfare in Europe, Africa and the Middle East. On these battlefields the MAGTF may have to maneuver across generally open terrain (fields of observation and fire generally exceeding 1000m) against threat forces employing direct fire weapons effective out to 5000m. Armored vehicle and mechanized infantry unit leaders must be able to move their units across open terrain without unacceptable casualties. The objective of establishing a tactical driving range is to provide an area in which company level unit leaders can develop the necessary skills to successfully maneuver over open terrain.

(2) If this proposed driving range is not established Camp Lejeune can not offer essential open terrain training for company level armored vehicle and mechanized infantry units. This could result in vehicle commanders and unit leaders not effectively developing their skills in the full range of terrain driving such as movement to contact and assault techniques which may be essential for future battlefields. Mechanized vehicles are presently restricted to trails and landing zones. Generally, training in immediate reaction drills, long range fire direction and mechanized maneuvering suffer in the highly restrictive wooded training areas at Camp Lejeune.

LAW  
(3) No permanent facilities are required; however hardened creek crossing points and sediment traps may be desirable.

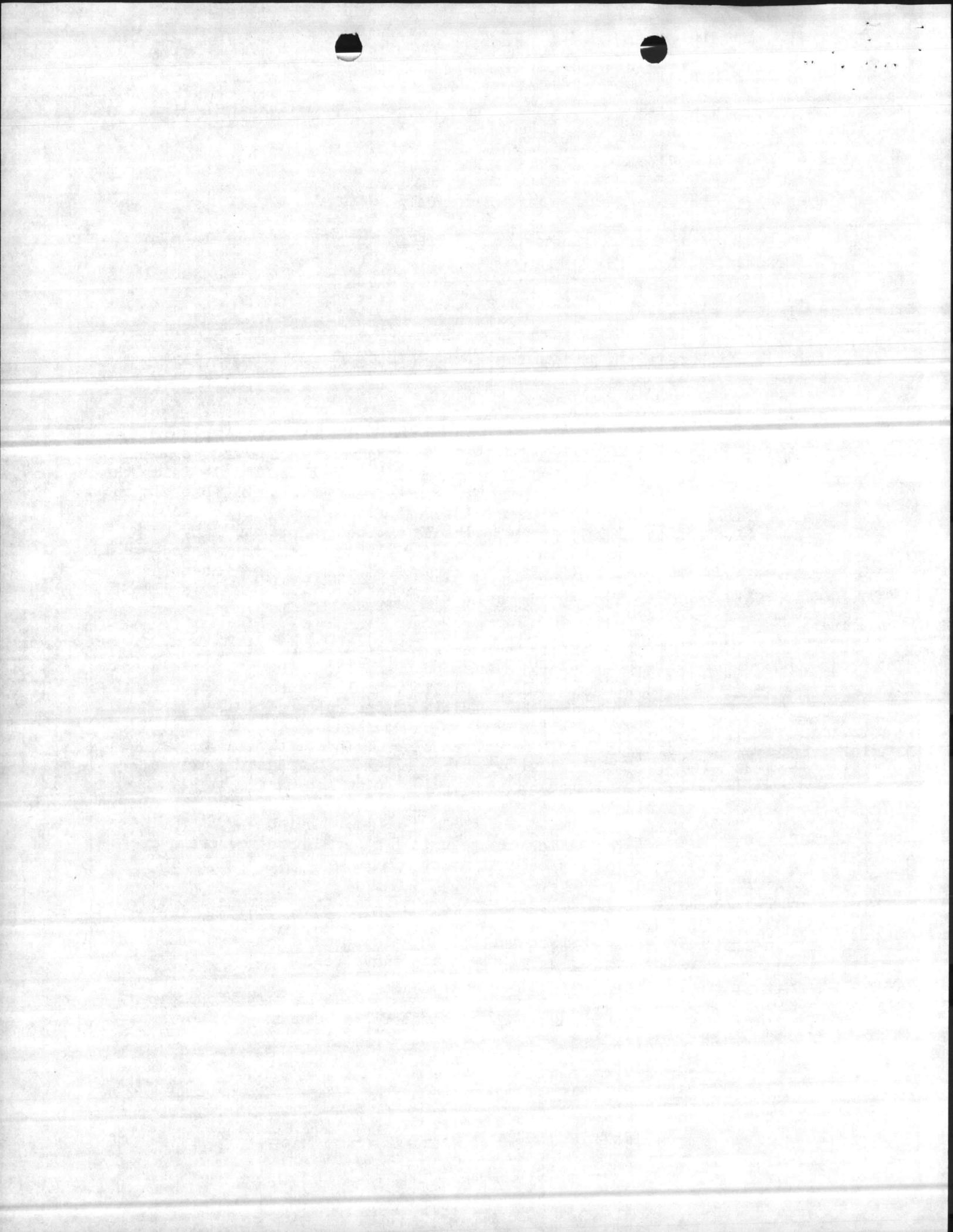
HOW  
(4) Long range fields of observation and fire (greater than 1000m) can be created and maintained throughout training areas HA and HC to offer the necessary training environment. The vegetation height must be kept to no more than knee high after the current large trees are harvested.

(5) These areas would be used as a tactical driving range for company level armored vehicle units and tactical movement for dismounted infantry units.

b. Consideration of Alternatives

(1) Alternatives

a. Keep existing areas as they are and increase mechanized training time at 29 Palms and Fort Pickett.



1. 29 Palms: A large Marine Corps desert training area in California.
2. Ft Pickett: An Army training area with rolling hills and intermittent woods in Southern Virginia.

b. Develop other training areas, such as HB, HF, HE, IE, and IA which are flat, heavily wooded areas at Camp Lejeune with satisfactory trafficability.

(2) Training areas HA and HC are more suitable than 29 Palms or Ft Pickett because these training areas are on board Camp Lejeune and are accessible to many more units on a regular basis. Also, company level units using HA and HC can concentrate solely on their own training objectives instead of a BLT's training schedule. Training areas HA and HC are preferable to training areas HB, HF, HE, IE and IA because the other training areas have more featureless terrain which limits vital training in tactical driving. Also, training areas HB, HE, HF, IE, IA are endangered species habitat areas while training areas HA and HC are not. The terrain in training areas HA and HC offer the most valuable opportunity for tactical terrain driving.

c. Compliance with federal, state, and local environmental regulations and guidelines.

(1) Endangered Species Act. There are no endangered species in training areas HA and HC.

(2) Clean Water Act. The only possibility of water pollution stems from soil erosion. Base ecology personnel have suggested several methods to prevent soil erosion. These include:

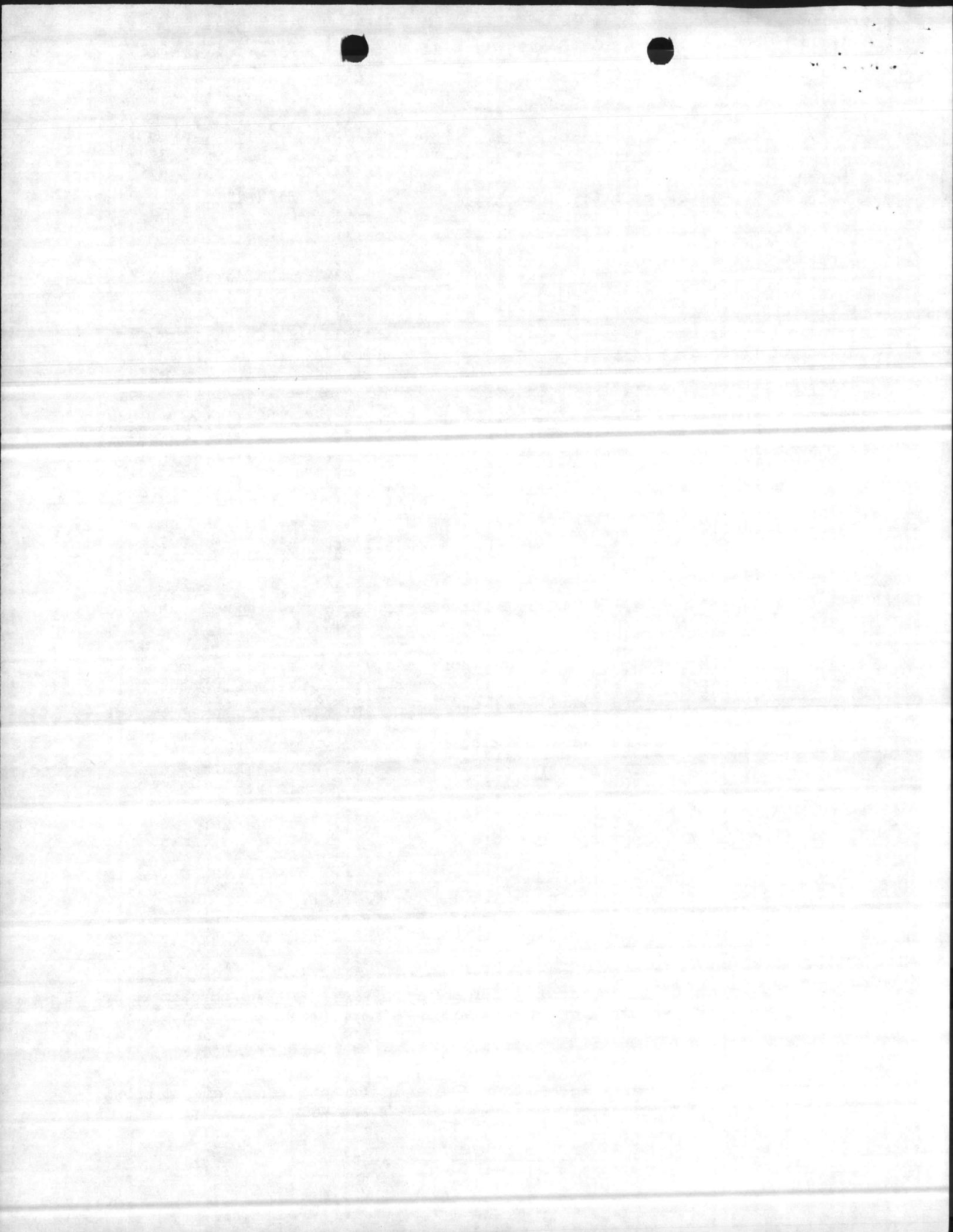
1. Growing cover vegetation as the trees are harvested.
2. Leaving a 100m wide barrier of trees standing around the creek estuaries.
3. Constructing hardened creek crossing points and sediment traps.
4. Limiting the number of training days that tracked vehicles may use training areas HA and HC to 15/month.

(3) Clean Air Act. Not applicable. No significant discharge of air pollutants is expected.

(4) Coastal Zone Management. There is no direct impact on beaches or salt marshes. Implementation of the erosion prevention measures suggested by Base ecology personnel will prevent indirect damage which might be caused by sedimentation.

(5) Archaeological and Historic Preservation Act. There are no known sites of historical importance in training areas HA and HC.

(6) North Carolina Erosion & Sedimentation Regulations. Erosion and sedimentation can be maintained at normal levels by the use of methods mentioned in C(2) above.



(7) Hazardous Materials and Waste Disposal. Not applicable.

(8) Protection of Wetlands, Executive Order 11990. The provision to leave a 100m wide barrier of trees standing around each creek area should provide adequate protection of wetlands.

(9) Sanitary Waste and Refuse Disposal. The using unit will be required to police up and remove its own trash. Minimum amounts are expected.

(10) Other Regulations Applicable. The proposed action does not involve any environmental regulations other than those discussed above.

(11) Permit Requirements. None

(12) Site Map. See training areas HA and HC on Camp Lejeune special map. area d. How does the proposed action impact on other Base functions and missions.

(1) No impact. Training areas HA and HC contain no restricted areas and are not covered by any range fan.

(2) Consistency with Base Master Plan. Initial discussion with the Commanding Officer of Base Maintenance indicates that the proposed modifications are within the constraints of the Base Master Plan.

F. C. LEWIS

By direction

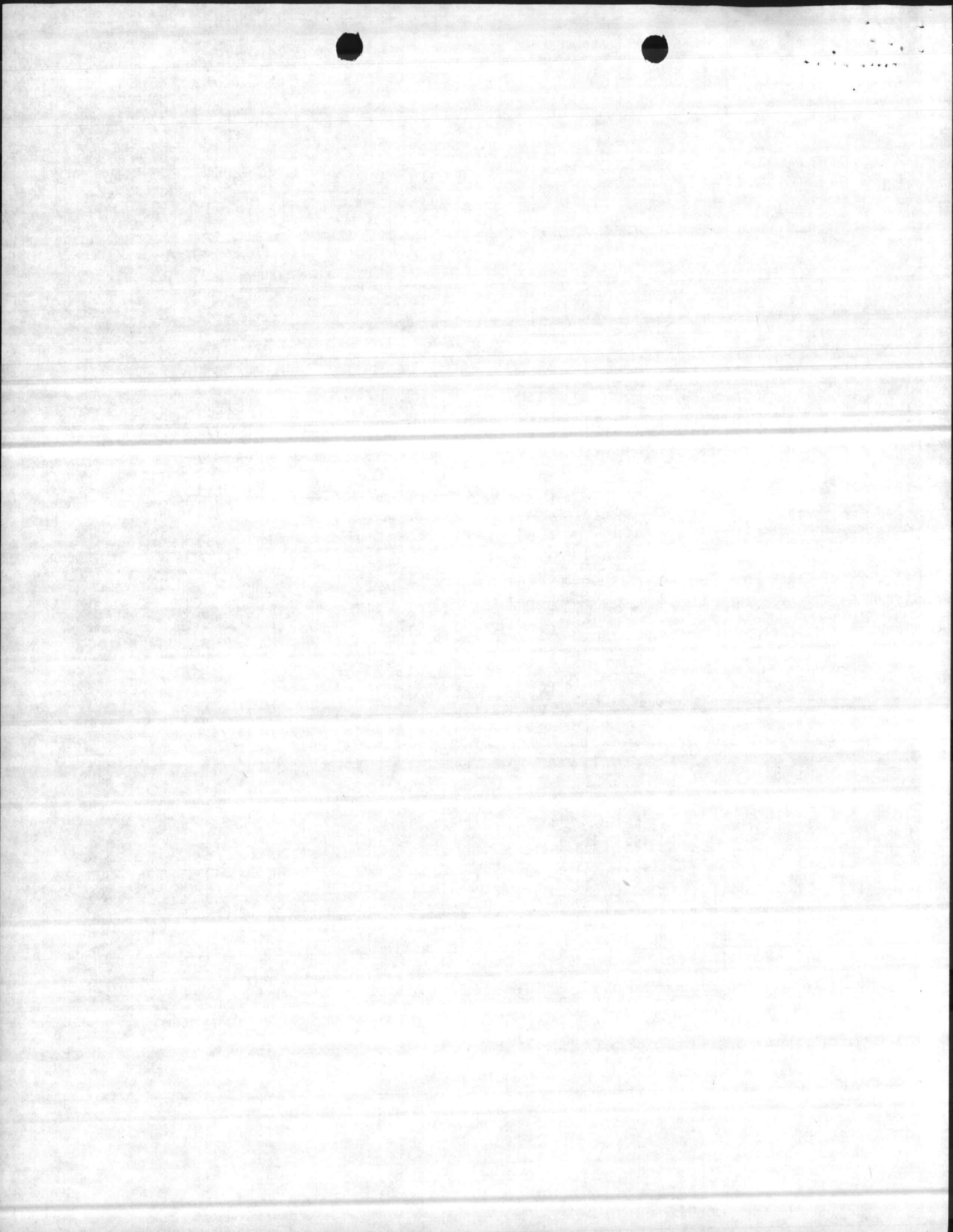
1. Growing cover vegetation of the trees in area

2. Leaving a 100m wide barrier of trees standing

3. Controlling and removing trash

4. Leaving a 100m wide barrier of trees standing

5. Controlling and removing trash



## STAFF STUDY

### Subject

Providing ground observation into the G-10, and K-2 impact areas by clearing excess trees in the buffer zones and impact areas.

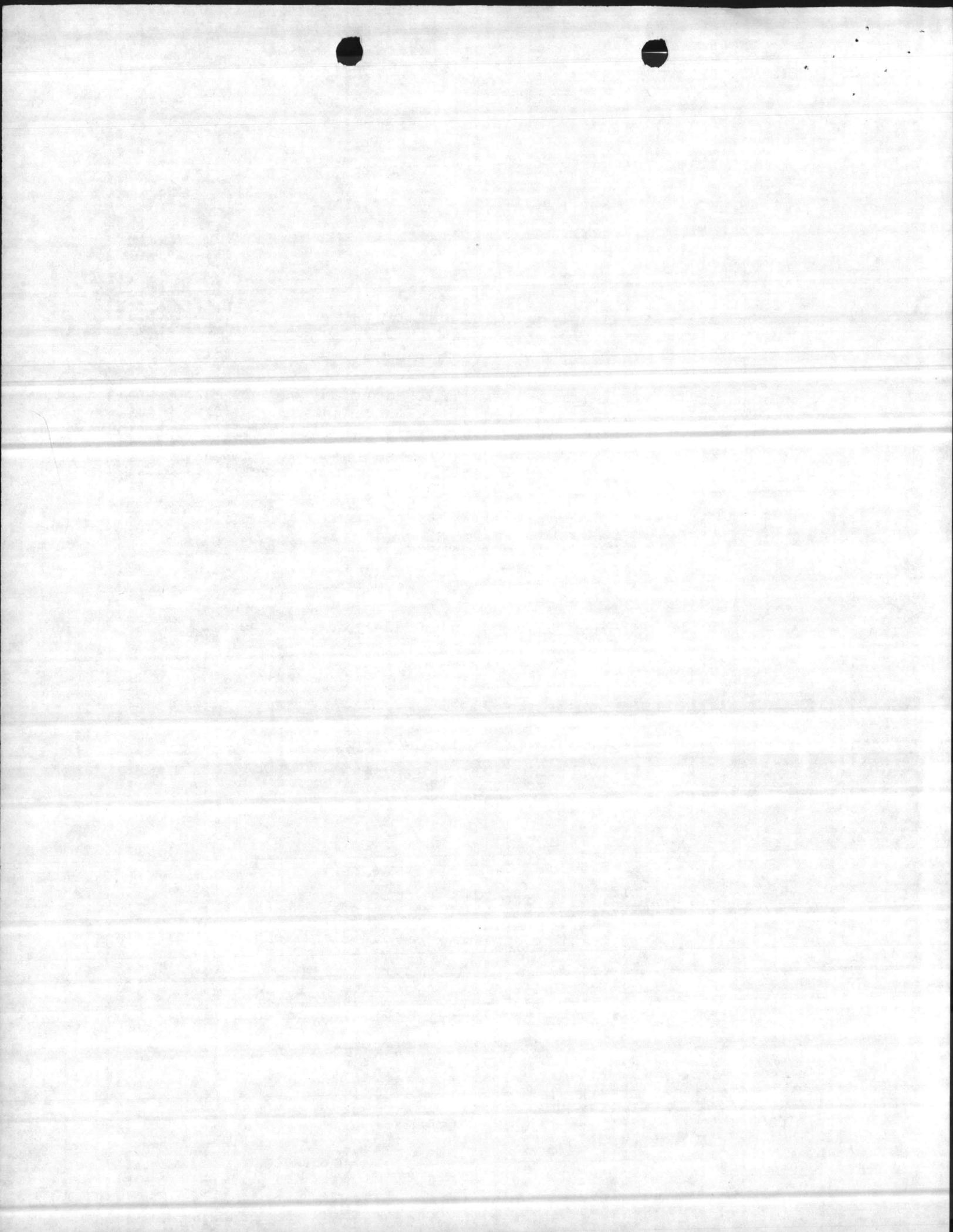
### Introduction

The Marine Corps will rely heavily upon its artillery on any modern battlefield. Artillery must be able to deliver effective fire quickly and accurately on many rapidly approaching, widely separated targets to adequately support Marine units on the modern battlefield. On the modern battlefield artillery will rely heavily upon forward observers moving through unfamiliar terrain to direct their fires. Also, artillery batteries may be required to "shift trails" to engage a rapidly approaching target far from their original targets.

1. Problem. Forward observers must call in artillery fire on the G-10 impact area from well known towers, on OPs marked on the map, rather than a less familiar position on the ground as they would in combat. Also, an aerial observer is required for artillery batteries to use the K-2 impact areas which limits opportunities for these batteries to "shift trails" and engage widely separated targets.

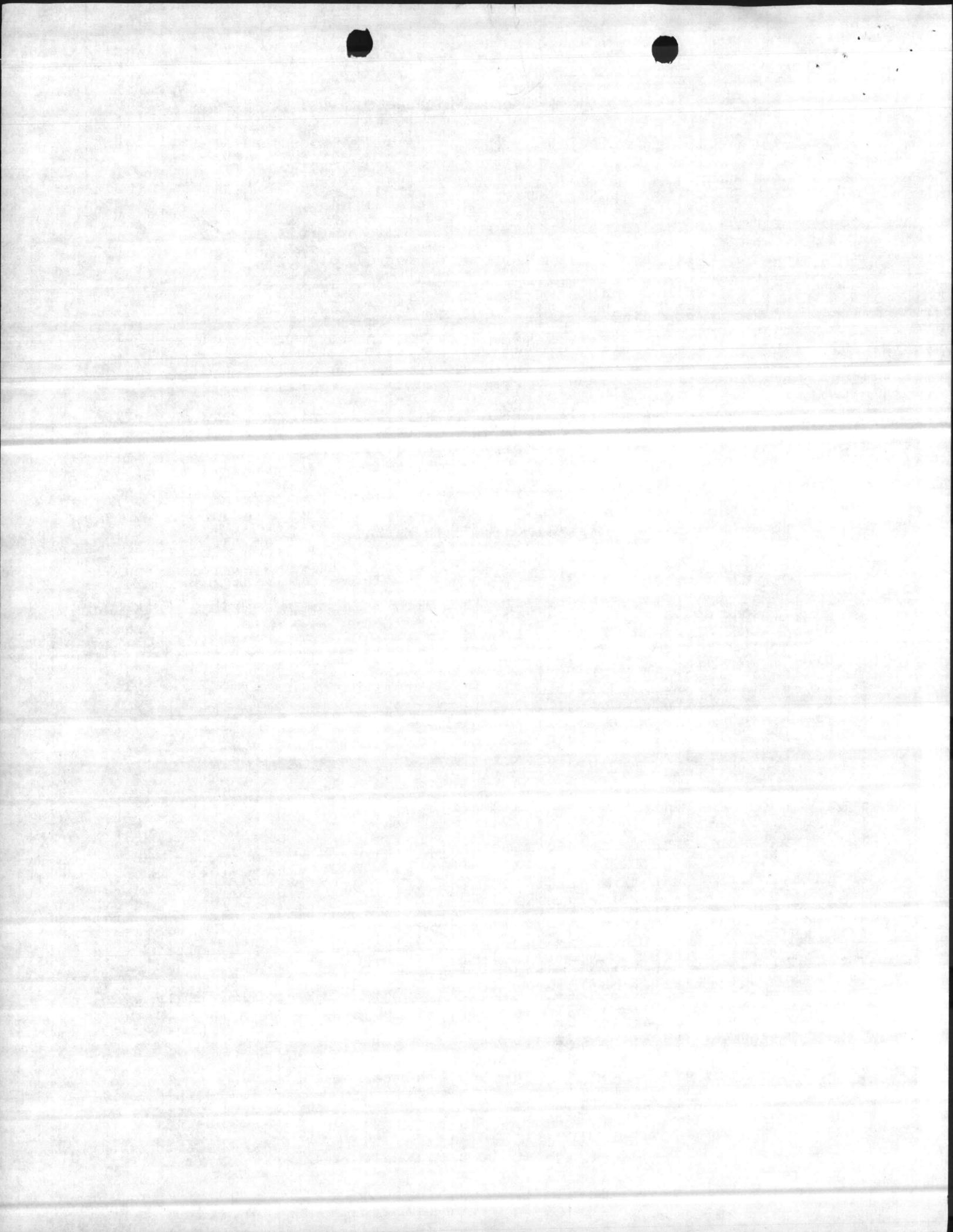
### 2. Assumptions

- a. That the increased training opportunities are significant enough to alter the G-10 and K-2 impact and buffer zones.
- b. That these alterations can be accomplished without an adverse effect on the environment.



3. Facts Bearing on the Problem

- a. Artillery fire into the G-10 and K-2 cannot be observed from the ground at this time due to dense stands of trees in the buffer zones and impact area.
- b. Base Ecology personnel do not consider the G-10 and K-2 areas ecologically sensitive or as habitat for endangered species.
- c. The K-2 impact area and buffer zone do not contain any commercially usable timber in the opinion of Base Forestry personnel.
- d. The G-10 impact area, the northern buffer zone between OP-1 and gun position #9 and the southwest corner of the G-10 buffer zone between OP-5 and the G-4 Range do not contain commercially usable trees in the opinion of Base Forestry personnel.
- e. EOD personnel from FSSG can effectively sweep the G-10 impact area and buffer zone with the aid of manpower from 10th Marines.
- f. EOD personnel from Base can effectively sweep the K-2 impact area and the buffer zone south of Ranges K-309, K-315, K-317, and East of K-402 and K-406.
- g. Thirty (30) M-8230 Bulldozers from 8th Engineers and 4 (on very limited basis) from 2d Engineers are available and have the capability to completely clear large areas of the G-10 northern buffer zone in the necessary amount of time.
- h. The use of M-8230 Bulldozers will cost roughly \$18.00 to \$20.00/hour/M-8230 to operate, and a full Engineering Estimate is required prior to their use in the proposed clearing area.
- i. Excess trees in both the K-2 and G-10 areas can be efficiently and selectively removed by explosives while providing a valuable training opportunity for engineer and other units.
- j. Personnel from 10th Marines equipped with pioneer gear (chain saws, axes, etc.) can augment the aforementioned sweeps and clearing efforts.
- k. All vegetation within 1000m of New River can be left intact without hindering ground observation into the K-2 impact area.
- l. The above mentioned areas can be cleared gradually over a long period of time to the degree necessary.

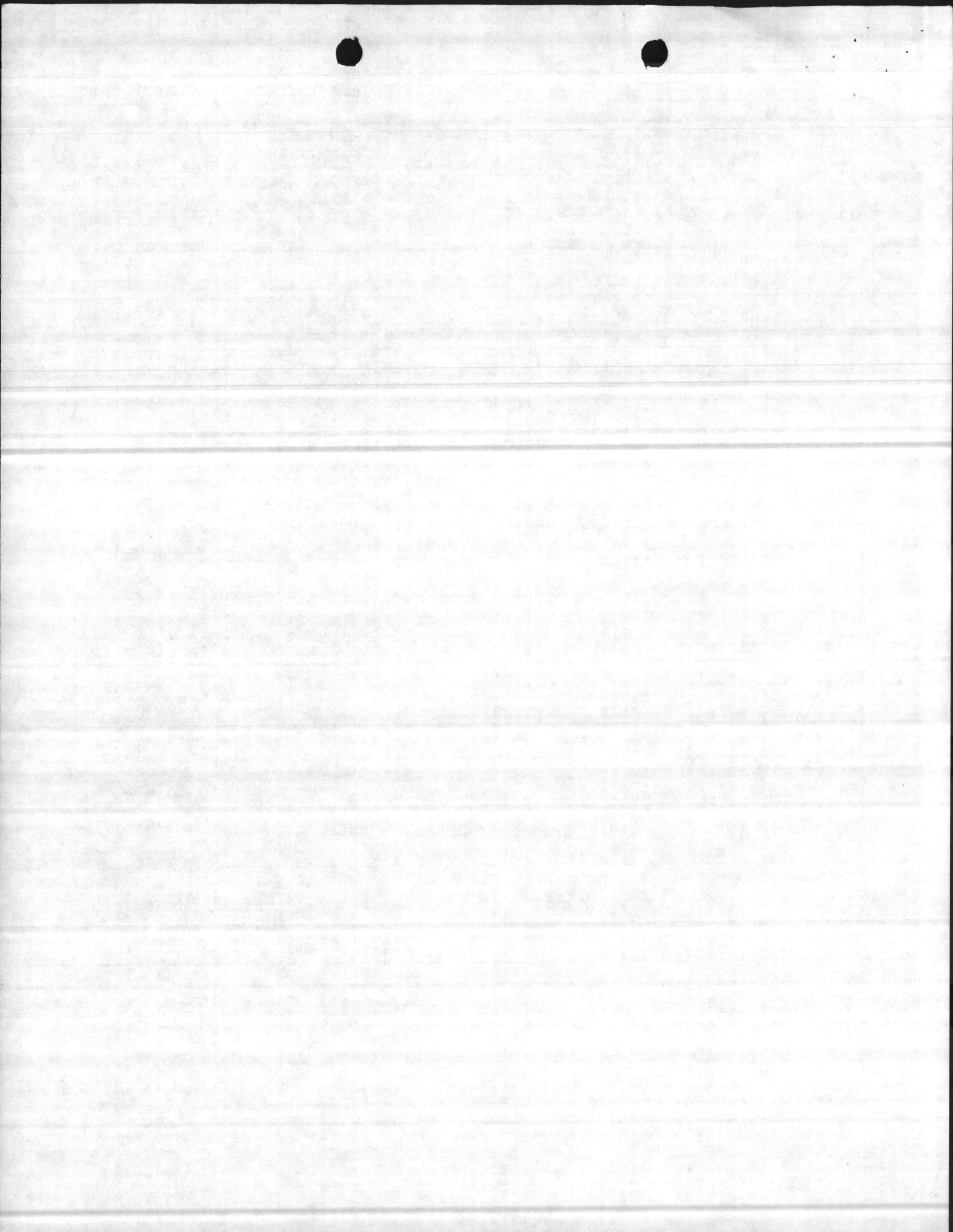


#### 4. Discussion

On any modern battle field, the Marine Corps will depend heavily upon its artillery. Much of the effectiveness of our artillery depends upon the ability of forward observers to rapidly and accurately call in fire from an unmarked position in an unfamiliar area. Also, artillery batteries will be called upon to deliver effective fire upon widely separated rapidly approaching targets. Forward observers must gain experience calling in fire from the ground (not from a tower marked on the map) and artillery batteries must train in the techniques of "shifting trails" to engage targets widely separated from those originally engaged to be fully effective on the modern battlefield. This training can be conducted on the K-2 and the G-10 areas if the excess trees in the areas outlined in paragraphs 3d, 3f, 3k are cleared. The personnel, expertise and equipment to accomplish the task within a reasonable amount of time are available at Camp Lejeune. Base Ecology personnel do not consider the areas outlined in paragraphs 3d, 3f, 3k to be ecologically sensitive or habitat for endangered species. Base Ecology personnel believe that no ecological damage will result from this project so long as the areas involved are not totally defoliated. Base Forestry considers the timber in the above mentioned areas to be of no commercial value.

#### 5. Conclusions

That clearing the excess trees in the areas outlined in paragraphs 3d, 3f and 3k to allow ground observation into the G-10 and K-2 will significantly enhance the value of training available to artillery units at Camp Lejeune without interfering with the training of other units or threatening the environment of Camp Lejeune.

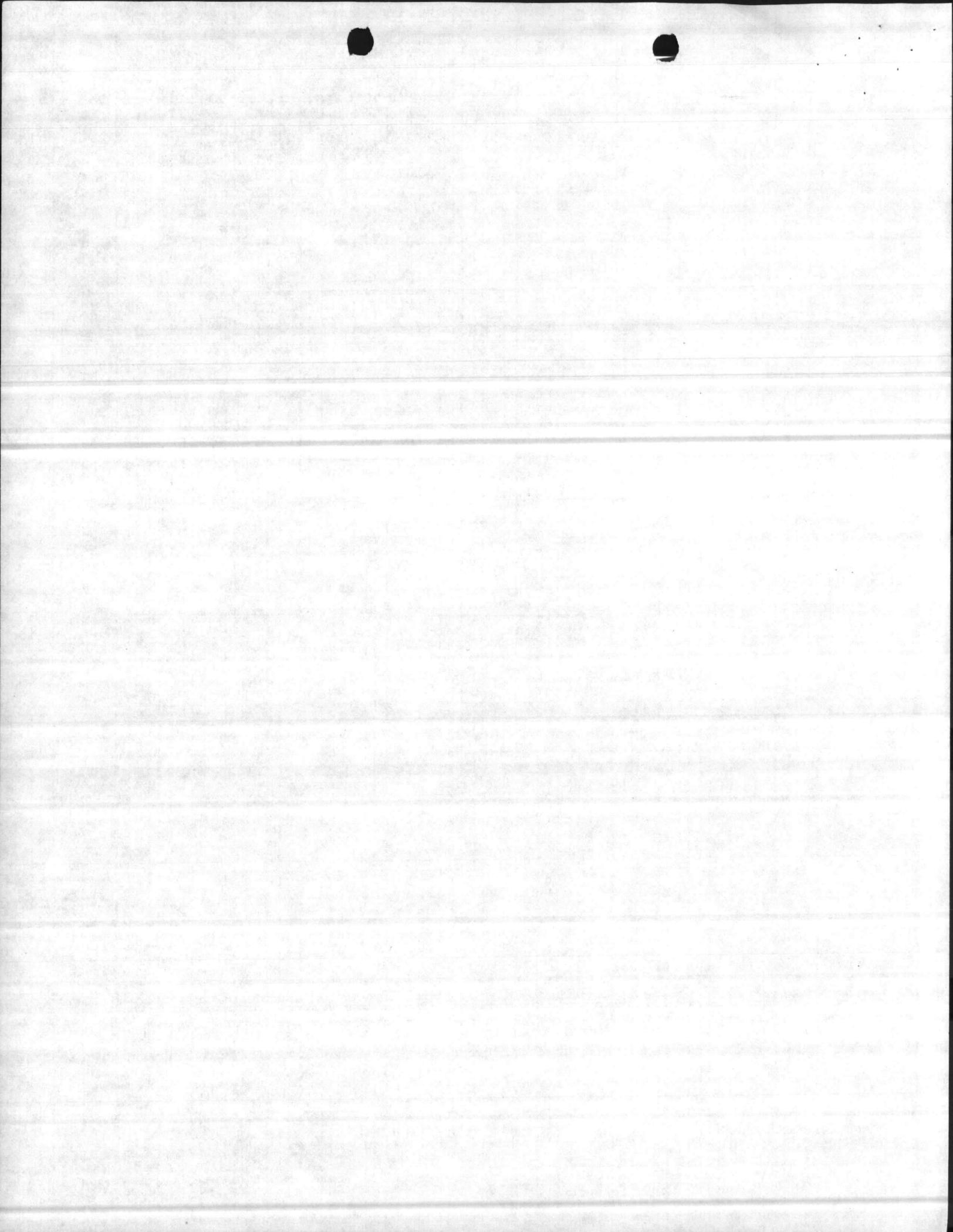


6. Action Recommended

That the enclosed Preliminary Environmental Assessment be submitted to the Base Environmental Impact Review Board requesting that the proposed clearing operation be allowed to proceed.

S. D. GLASS  
First Lieutenant, USMC  
Statistical Officer

	Approved	Disapproved
AC/S, G-3 Training	_____	_____
AC/S, G-3	_____	_____
AC/S, G-4	_____	_____
Chief of Staff	_____	_____
Commanding General (Approved)	_____	(Disapproved) _____



1. It is requested that excess trees in the K-2 and G-10 impact areas and buffer zones be cleared sufficiently to allow ground observation into the aforementioned impact areas.

a. Action/Project Description

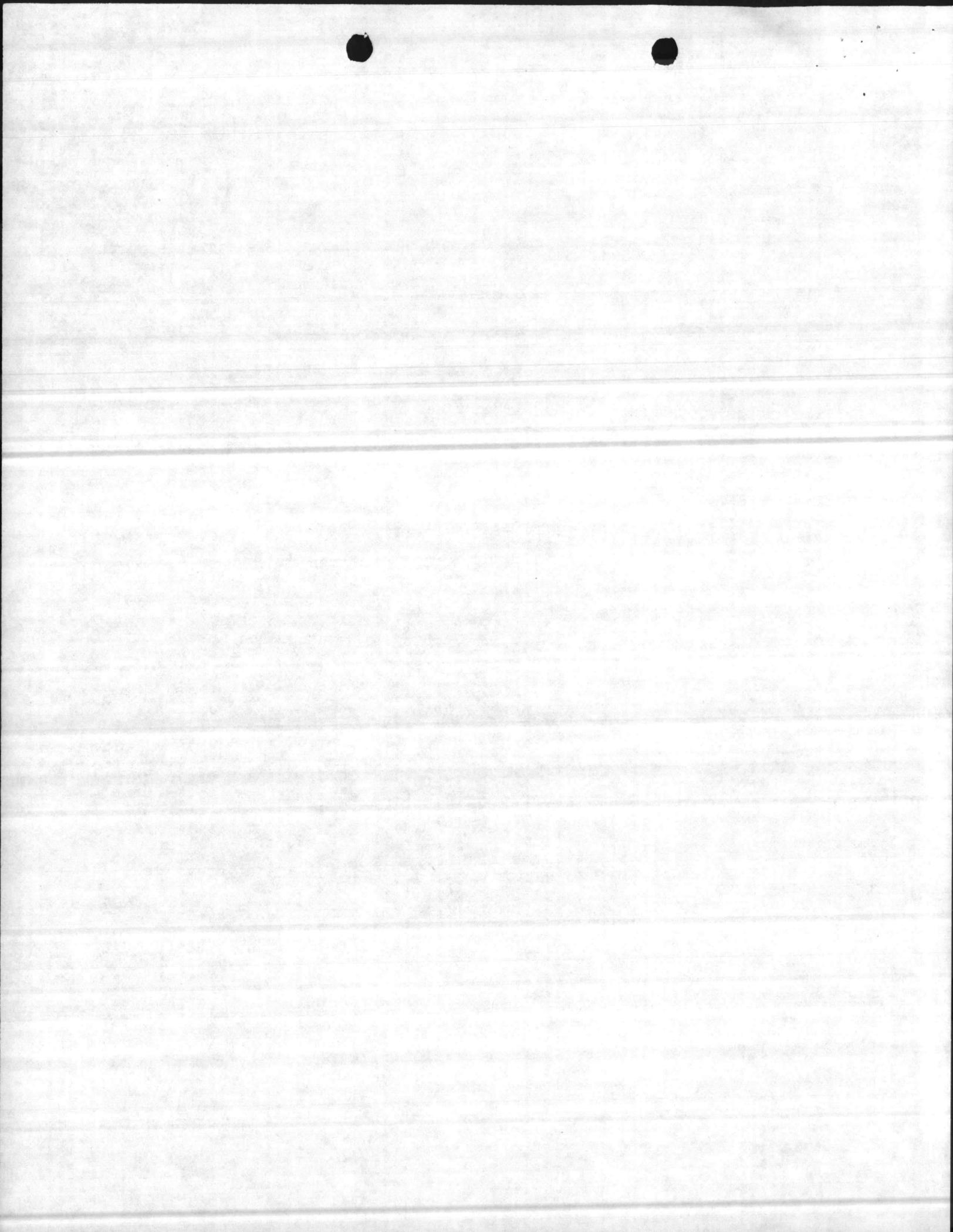
(1) The Marine Corps will rely heavily upon effective artillery support on any modern battle field. Marine Corps artillery requires well trained forward observers to be effective in the present day rapidly shifting, target rich environment. Forward observers must gain experience in calling in fire from an unmarked position on the ground (not a well marked tower 50ft in the air) to be completely effective. Also, for artillery units to effectively engage many widely separated rapidly approaching targets, they must be proficient in the techniques of "shifting trails" and rapidly engaging widely separated targets.

(2) If the proposed clearing (see site map, Appendix A) is not done, Camp Lejeune cannot offer forward observers a truly realistic training environment. Also, artillery batteries lose a rare opportunity to develop the flexibility offered by mastering of the techniques of "shifting trails".

(3) No permanent facilities are required.

(4) Trees and other vegetation taller than waist height must be sufficiently thinned to allow ground observation of K-2 and G-10 impact areas. No new impact areas are needed.

(5) The proposed modification of the K-2 and G-10 impact areas and buffer zone would simply increase the effectiveness of the mortar, artillery and CAS training already authorized for those areas.



b. Consideration of Alternatives

(1) Alternatives

a. Maintain existing areas as they are and increase training at Ft. Bragg, Ft. Pickett, 29 Palms, Vieques Island, and Capo Tuelada.

1. Ft. Bragg: an Army training base in Central Northern Carolina with impact areas which are larger than the G-10.

2. Ft. Pickett: an Army training base with one central impact area which is roughly the same size as the G-10.

3. 29 Palms: a large Marine Corps desert training area in California with live fire allowed into all training areas.

4. Vieques Island: as island training area in the Caribbean with a small  $2\frac{1}{2}$  km peninsular impact area.

5. Capo Tuelada: a training area on Sardinia with a small mountainous peninsula for an impact area.

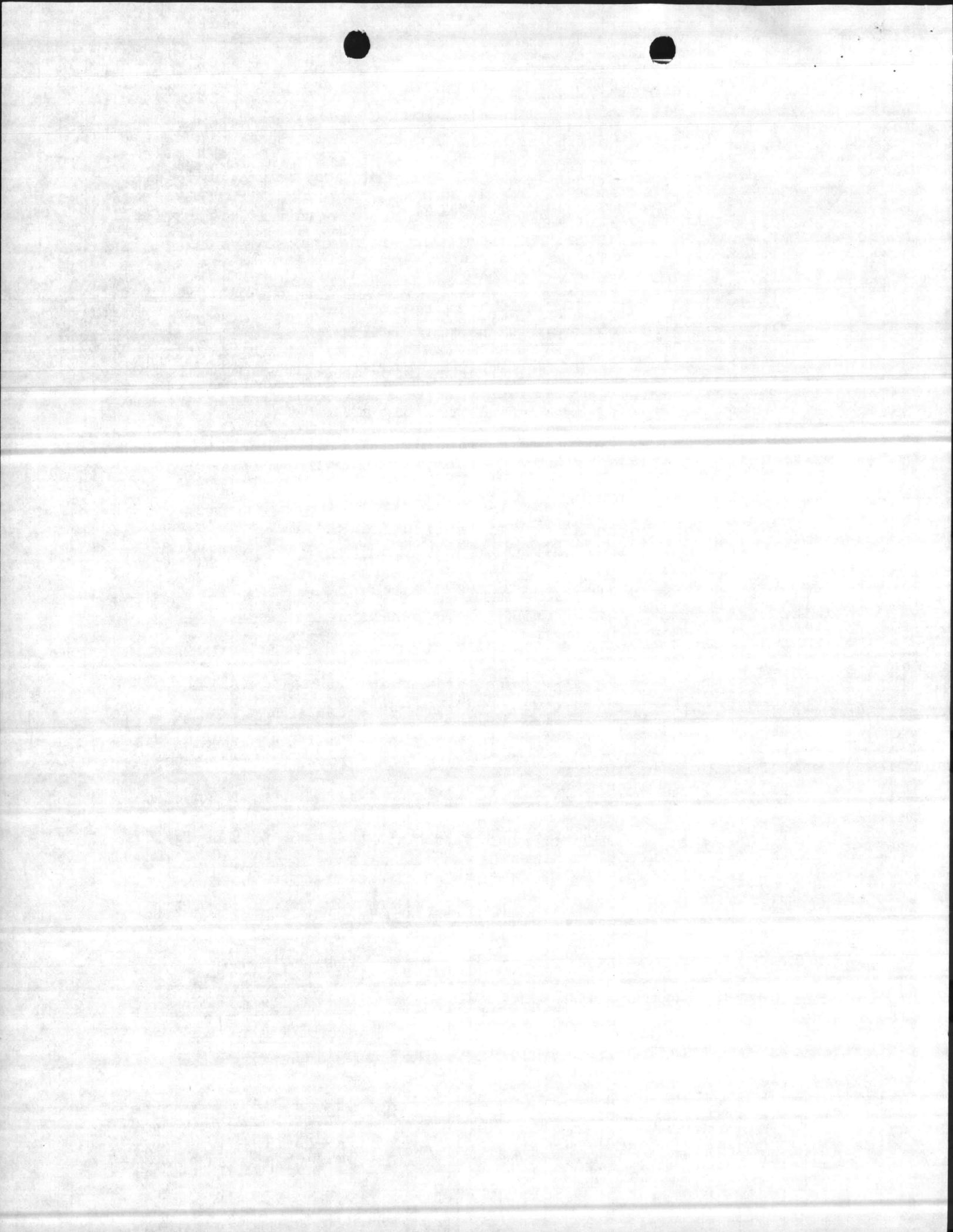
b. Maintain the G-10 and K-2 impact areas as they are and thin the vegetation in the N-1 impact area and buffer zone.

c. Maintain existing impact area as is and create a completely new impact area.

(2) 29 Palms is the only training area away from Camp Lejeune the allows ground observation of artillery (from an unmarked position). However, few forward observers have the opportunity to train there due to the high cost of mounting a training OP at 29 Palms. Ft. Bragg offers an opportunity to shift trails but 10th Marines units can only train there bi-annually due to the cost. The N-1 is unsuitable due to its very limited size and depth. New impact areas cannot be established at Camp Lejeune due to the limited space available.

c. Compliance with federal, state, and local environmental regulations and guidelines.

(1) Endangered Species Act. There are no endangered species in the



G-10 and K-2 Impact area and buffer zone.

(2) Clean Water Act. Soil Erosion provides the only possibility of water pollution. However, Base Environmental personnel believe that erosion will be minimal and within acceptable levels for the following reasons:

(a) No clearing will be done within 1000m of New River.

(b) The areas that would be cleared are not erosion prone. 7

(c) There will be little, if any, vehicle traffic in the area proposed for clearing.

(d) Use of demolitions and/or pioneer gear allows very selective cutting.

(3) Clean Air Act. No significant discharge of air pollutants is expected.

(4) Coastal Zone Management. There is no direct impact on beaches or salt marshes. No significant increase in erosion is expected due to the reasons listed above.

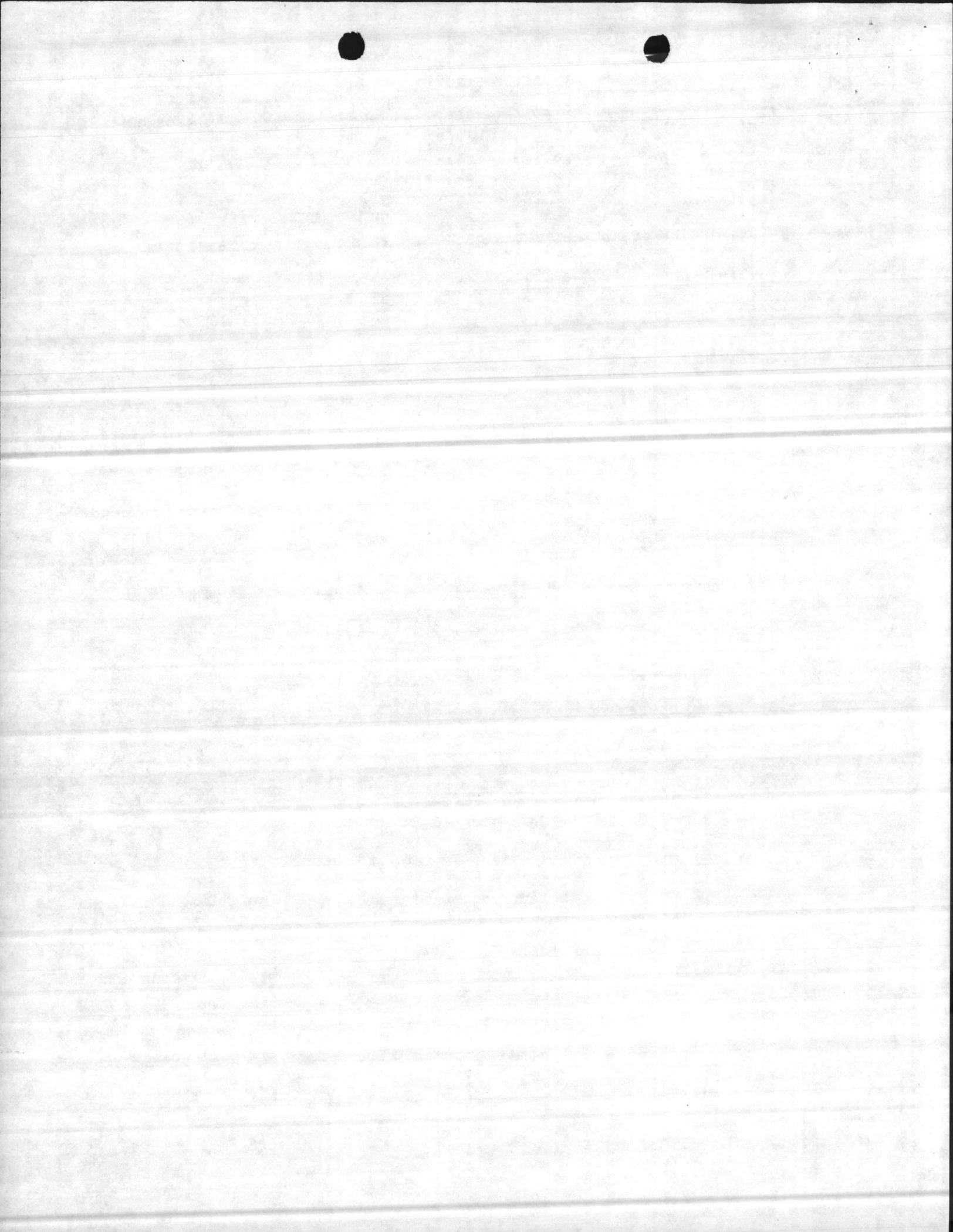
(5) Archaeological and Historical Preservation Act. There are no known sites of historical importance in the K-2 and G-10 impact areas and buffer zones.

(6) North Carolina Erosion and Sedimentation Regulations. Erosion and sedimentation will show no significant increase due to the reasons listed in c(2) above.

(7) Hazardous Materials and Waste Disposal. The metal residue from rounds authorized for use in the G-10 and K-2 impact areas are nonhazardous. The areas involved are already authorized impact areas and buffer zones, and are so marked. At this time, the current state and federal regulations do not appear applicable.

(8) Protection of Wetlands. Executive Order 11990. The conditions and measures listed in c(2) will provide adequate protection for any wetlands involved.

(9) Sanitary Waste and Refuse Disposal. The using unit will police up and remove its own refuse and EOD will handle explosive ordnance as necessary.



(10) Other Regulations Applicable. The proposed action does not involve any environmental regulations other than those discussed above.

(11) Permit Requirements. None.

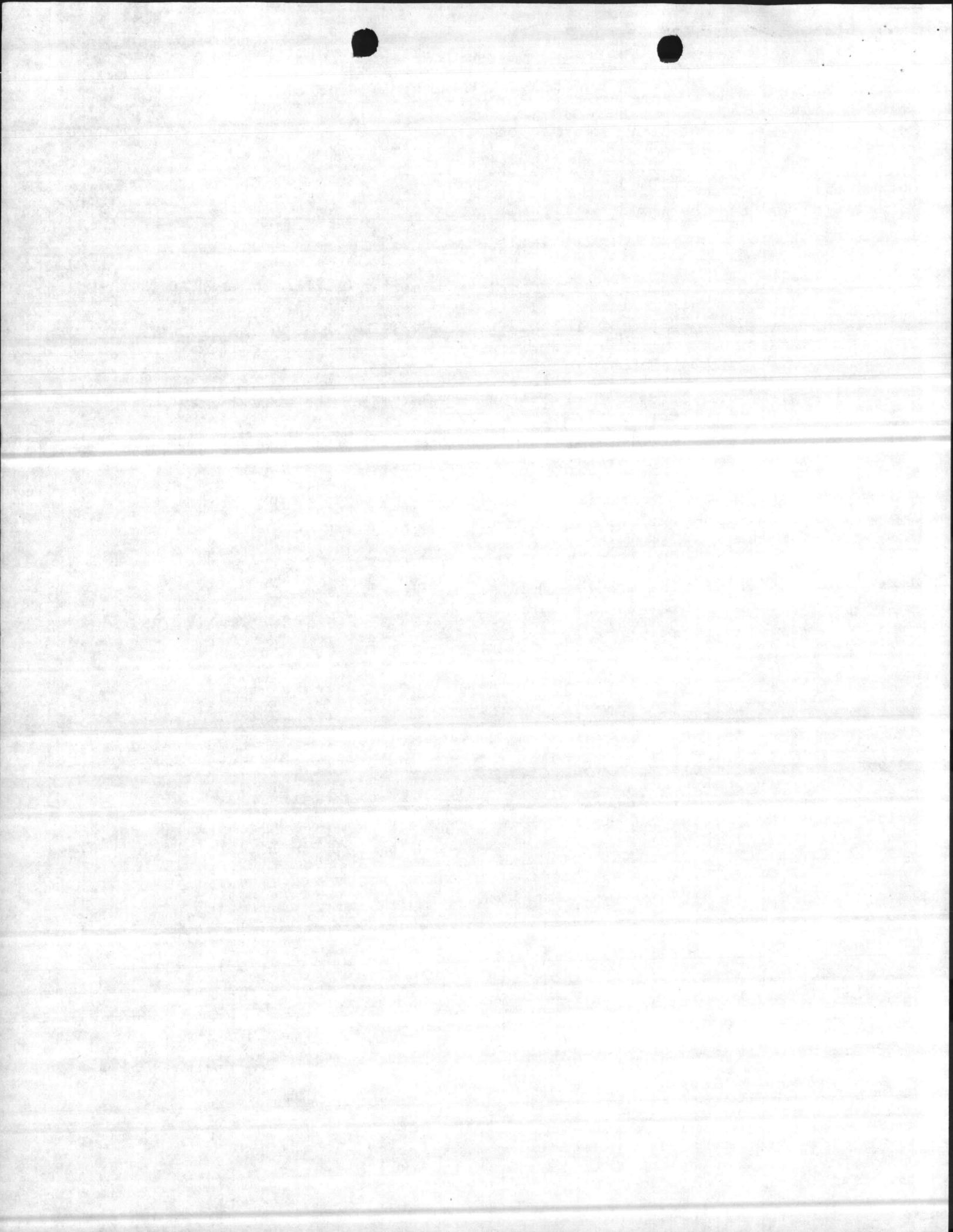
(12) Site Map. See Appendix B.

d. How does the proposed action impact on other Base functions and missions.

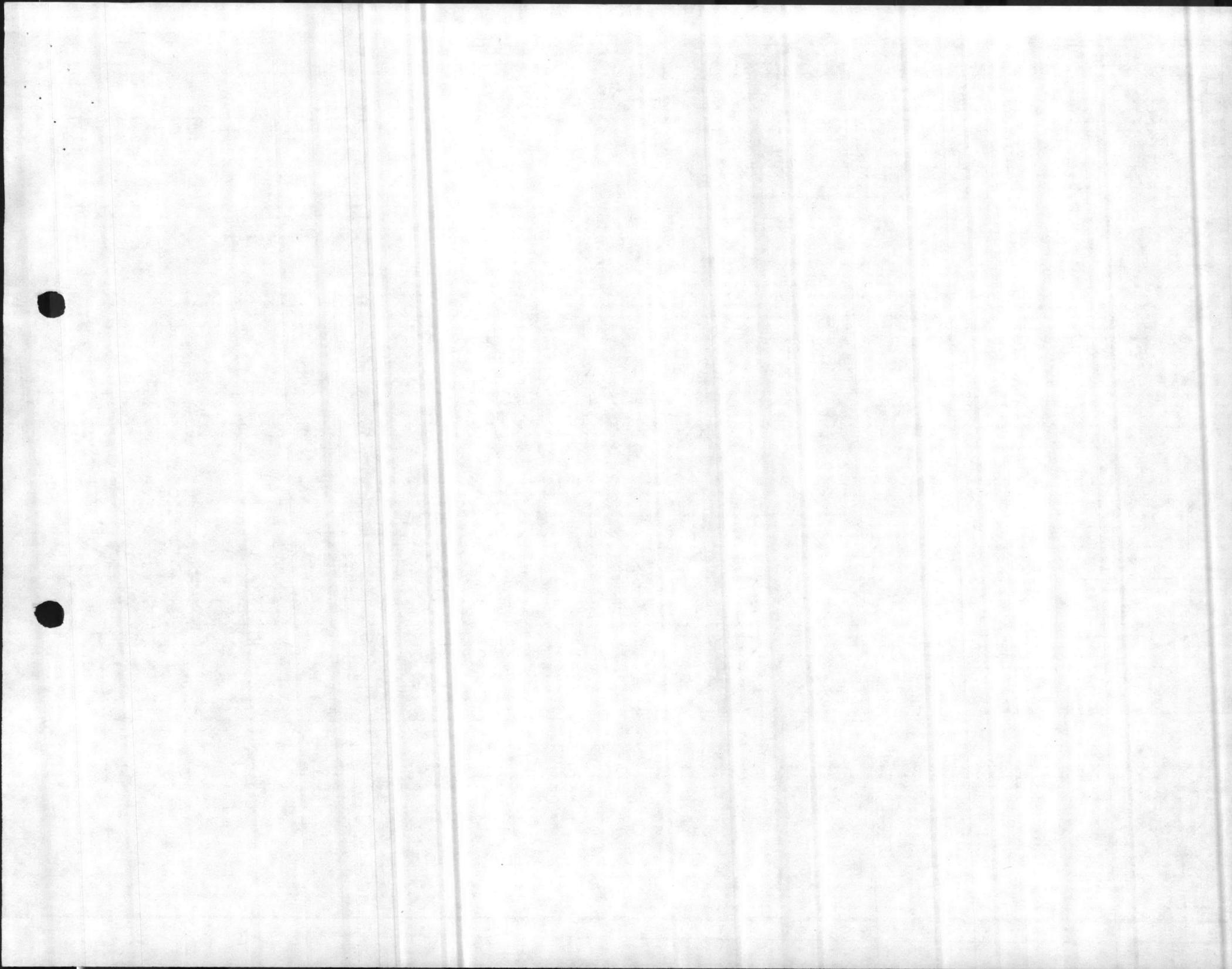
(1) A favorable impact. The K-2 and G-10 impact areas and buffer zones are already authorized for (and restricted to) mortar, artillery, and CAS training. Also, the proposed clearing will provide an opportunity for many units to do some demolition training.

(2) Consistency with Base Master Plan. Discussion with the Base Training Facilities Officer indicated that constraints of the Base Master Plan are met.

F. C. LEWIS  
By direction







1/Lt S. D. G...  
SG/3, Sordines  
26 July 1982

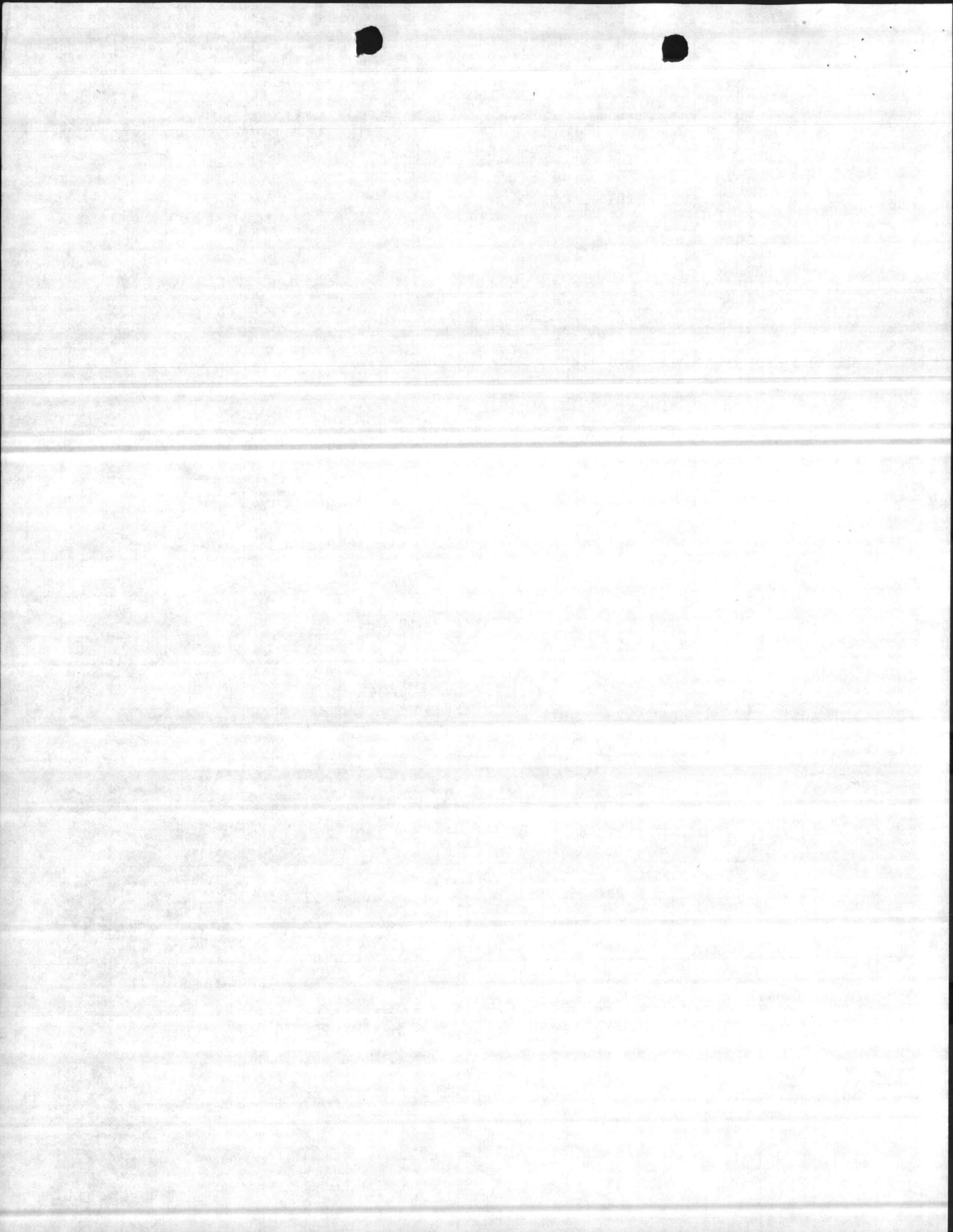
POINT PAPER

Subject: Tank Gunnery Range Modification

FACTS

1. Presently, tank and TOW crews cannot perform valid live fire training or annual qualification with tank mounted weapons and TOWs at Camp Lejeune due to the lack of sufficient distance on available ranges.
2. The ranges available for tank gunnery (G-5, G-5A, G-6 and G-7) provide for engagements of stationary and moving targets at approximately 1200 meters or less. TOW crews fire at targets in the G-10 from OP 1&2, however there are no moving targets to engage in the G-10 impact area.
3. Annual qualification for tank crews consists of shooting Table VIII (see enclosure (2)), while TOW crews must successfully engage a moving target beyond 1500 meters. This qualification should be conducted for tank crews as a portion of deploying BLT's crews served weapons evaluation.
4. Tanks crews must perform annual qualification and much of their live fire training at Fort Pickett and 29 Palms.
5. By combining the already existing G-6 and G-5/G-5A into one range allowing fire into the N-1 impact area (see the Site Map in enclosure (1)), a very satisfactory tank and TOW live fire range can be provided.

ENCLOSURE (3)



6. This proposed modification will allow tanks, TOW, and LVT's to engage both moving and stationary targets at ranges out to 2400m from stationary or moving vehicles.

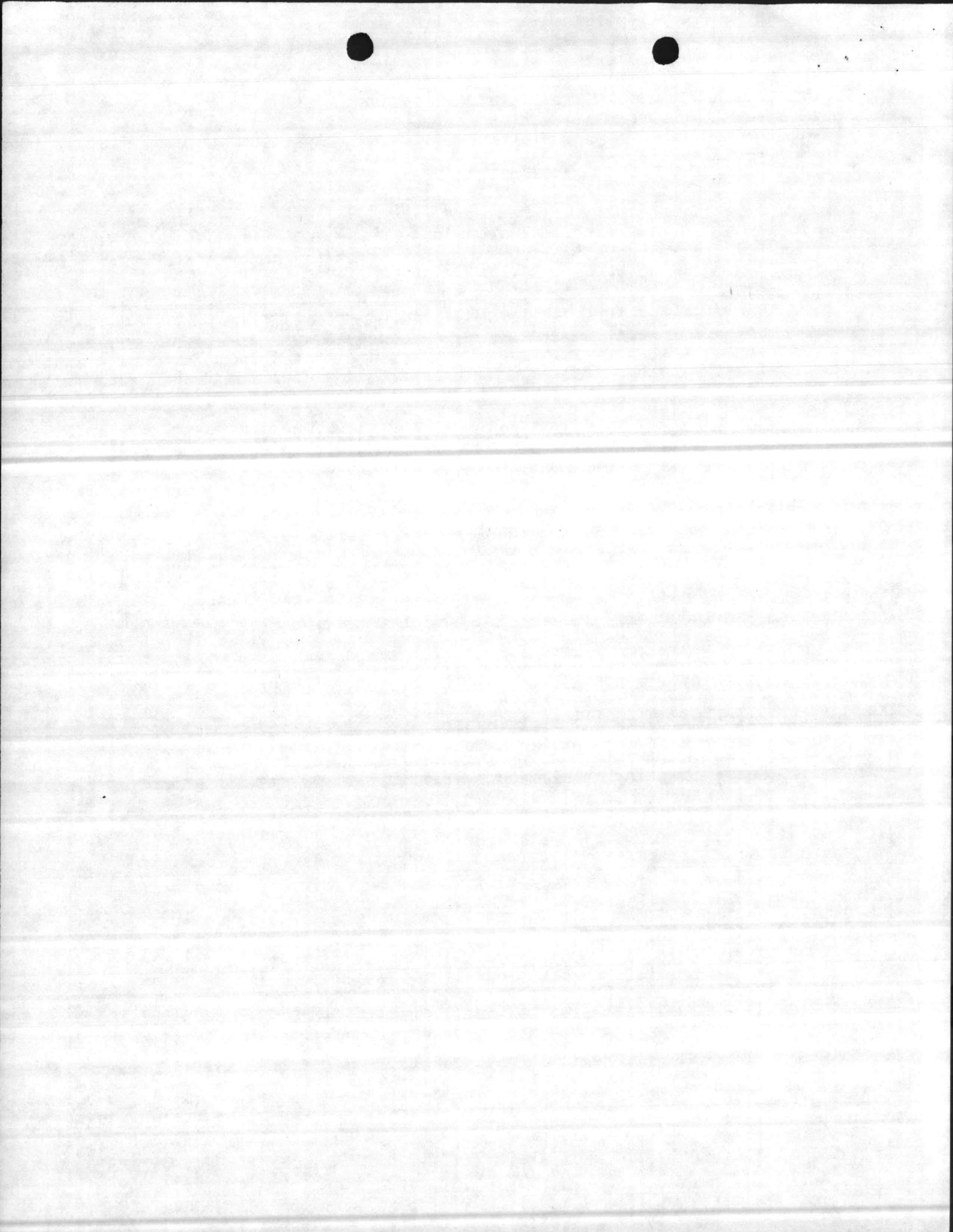
7. The proposed modified range will allow tank and TOW crews to perform annual qualification and valid live fire training at Camp Lejeune. Also, this modified range will facilitate firing TOWs from the universal mounts aboard LVTs.

8. The creation of this range will not require construction of any permanent facilities. However, telephone lines and power cables crossing the proposed range must be buried.

9. There will be little or no threat to the environment of Camp Lejeune. Base Ecology Personnel think that the G-6, G-5/G-5A areas are not ecologically sensitive and no significant changes in the environment or use of the area are planned.

10. North Carolina State Transportation personnel have verified that Marine Corps Base is authorized to detour HWY 172 traffic when the proposed range is in use. HWY 172 traffic can be easily rerouted via Lyman and Sneads Ferry roads.

11. This proposal was discussed with the Base Training Facilities Officer who advised that this range modification is consistent with the present and proposed future Base Master Plans.



SUMMARY

Tank and TOW crews must participate in frequent and effective live fire training and qualification to maintain the necessary level of proficiency. Presently, thorough effective training and qualification must wait for deployments to Fort Rickett or 29 Palms due to the lack of a satisfactory range at Camp Lejeune. By combining the G-6 and G-5/G-5A, a satisfactory range can be provided without expensive construction, lengthy clearing operations, or damage to the environment. It is recommended that the attached Preliminary Environmental Assessment be forwarded to the Base Environmental Impact Review Board requesting that the G-6 and G-5/G-5A ranges be converted into one live fire range for Tanks, TOW, and LVT's.

  
S. D. GLASS

1stLt USMC

Readiness

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G-3T

APPROVED \_\_\_\_\_ DISAPPROVED \_\_\_\_\_

G-3

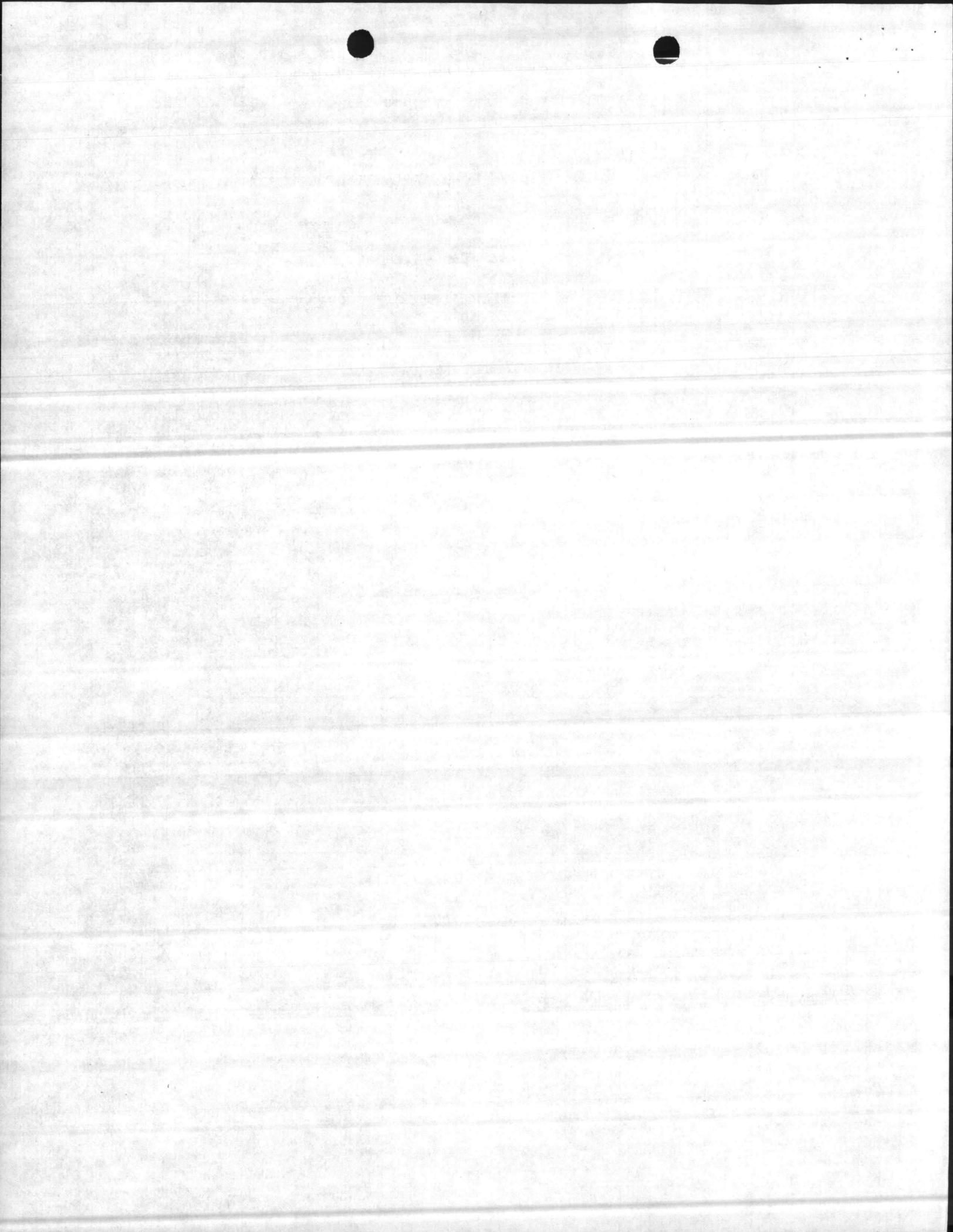
APPROVED \_\_\_\_\_ DISAPPROVED \_\_\_\_\_

G-4

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PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT

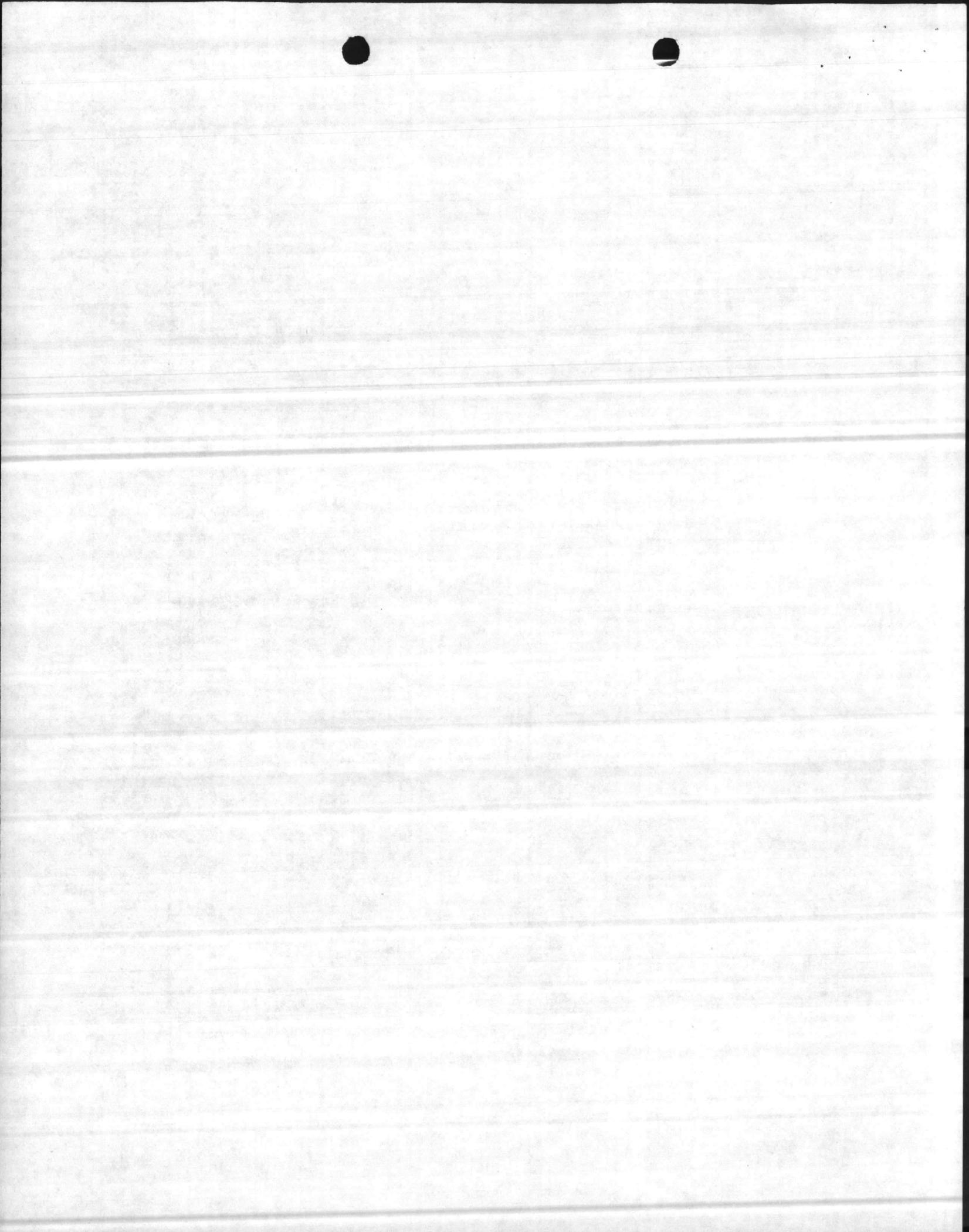
Subject: Range modification; submission of Preliminary Environmental  
Impact Assessment of

Ref: (a) BO 11000.1A

1. It is requested that the G-5/G-5A and G-6 be combined into a single range providing for Tank, TOW (both jeep and LVT mounted), and LVT fire into the N-1 impact area. A Preliminary Environmental Impact Assessment is hereby submitted in accordance with reference (a).

A. Action/Project Description

(1) The significant armor threat that exists worldwide, and the Marine Corps' recent interest in Mechanized Warfare have placed Tanks and TOW's in the vital role as the MAGTF's primary Anti Armor Weapons Systems. Marine Tank and TOW units will have to engage threat armor rapidly and effectively at long ranges (1500m or greater) as they will be outnumbered in almost any conceivable combat situation. Individual Tank and TOW crews must receive frequent and effective training in acquiring and engaging a variety of targets at long range to maintain the necessary level of proficiency for mission accomplishment. Also, tank crews must fire Table VIII for annual qualification (see enclosure (2)), which involves engaging both moving and stationary targets out to 2200m while stationary or on the move. TOW crews must successfully engage a moving target beyond 1500 meters for annual qualification. The objective of this proposed range modification is to provide a range for valid live fire training of Tank, TOW crews and annual qualification of Tank and TOW crews.



(2) If this range modification is not implemented, Camp Lejeune cannot offer truly valid live fire training for Tank, TOW, and LVT crews. There will continue to be no range at Camp Lejeune on which Tank and TOW crews can qualify with Tank mounted weapons and TOW's. Tank, TOW and LVT crews must undergo valid training and regular qualification to maintain maximum effectiveness on the modern battlefield.

(3) No permanent facilities are required; however the telephone and power lines along HWY 172 must be put underground where they cross the proposed modified range.

B. Consideration of Alternatives and Site Selection

(i) Alternatives

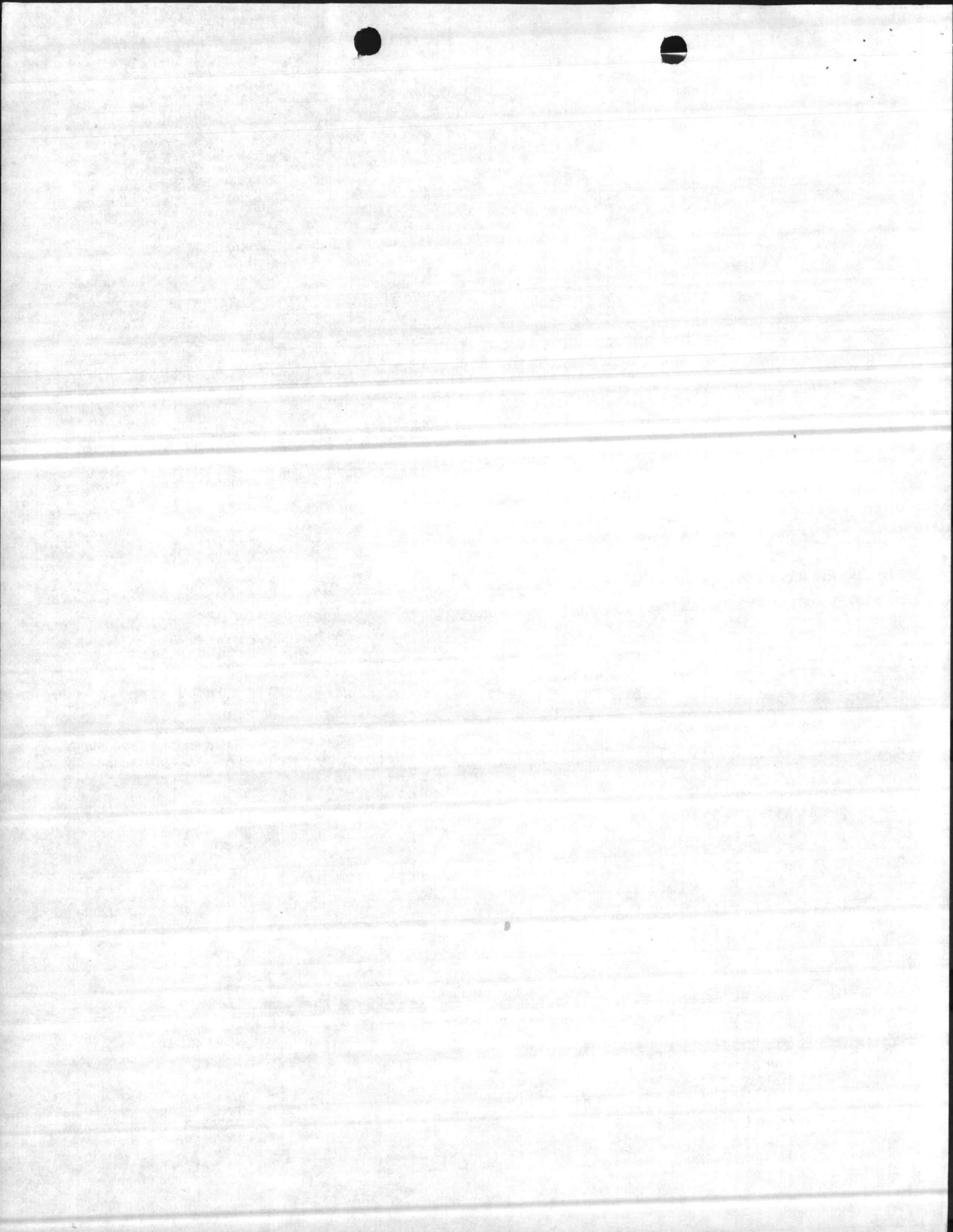
a. Keep existing ranges as they are and increase live fire training at 29 Palms and Ft. Pickett.

1. 29 Palms: a large Marine Corps desert training area with ranges allowing Tanks, TOW, and LVT's to engage targets out to the limit of their maximum effective range. Also, all tank gunnery tables can be fired on the available ranges.

2. Ft. Pickett: an Army training base in Southern Virginia with ranges allowing direct fire and observation out to 3000 meters and firing up to Table VIII.

b. Maintain existing ranges as is and require Tank, TOW, and LVT crews to engage the targets on Brown's Island for long range gunnery training.

1. Brown's Island is a sea barrier island in the Camp Lejeune N-1 impact area with a number of vehicle hulls arranged on a dune visible from the G-7 and G-5/G-5A ranges.



c. Maintain existing ranges as is and create a completely new range.

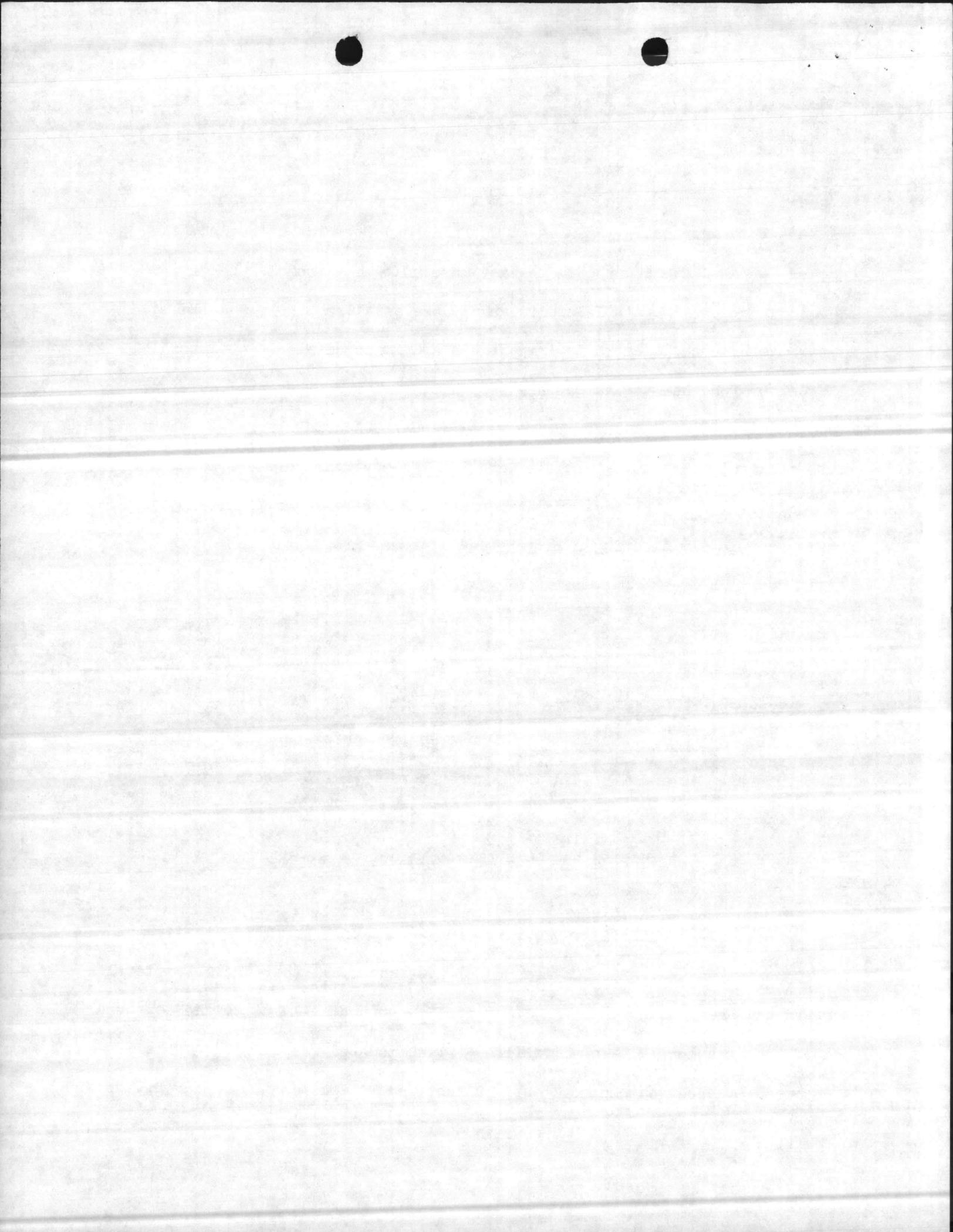
d. Extend the G-7 back to HWY 172.

(2) Combining the G-6 and G-5/G-5A ranges into one range is more suitable than increasing training at 29 Palms and Ft. Pickett because the G-6 and G-5/G-5A are accessible to many more units on a regular basis and at a lower cost. Brown's Island is unsuitable as a Tank, TOW, and LVT live fire range because it lacks moving targets and it is difficult or impossible to determine whether the target has been hit. The few sites available for a completely new tank gunnery range would require clearing large stands of trees and could be a threat to the Camp Lejeune environment. Extending the G-7 range will not provide a range adequate for firing Table VIII, and will require completely clearing a large stand of trees around the ecologically sensitive Mills Creek area.

C. Compliance with Federal, State and Local Environmental Regulations and Guidelines.

(1) Endangered Species Act. Base Environmental personnel have determined that the G-6 and G-5/G-5A are located more than 200 meters from the nearest Endangered Species habitat (a Woodpecker Colony) as required by law. The proposed range modification has no apparent impact on any endangered or threatened species.

(2) Clean Water Act. Soil erosion is the only possible significant environmental hazard. Base Environmental personnel feel that the areas level terrain and sandy soil result in a low erosion potential. Due to the approved use of the area involved for live fire of Tank-mounted weapons and ATGM's as well as tracked vehicle movement, current regulations do not appear applicable.



(3) Clean Air Act. No significant discharge of pollutants is expected.

(4) Coastal Zone Management Act (CZMA). There will be no change in the impact on sensitive coastal areas. The CZMA does not appear applicable due to the reasons listed in C(2) above.

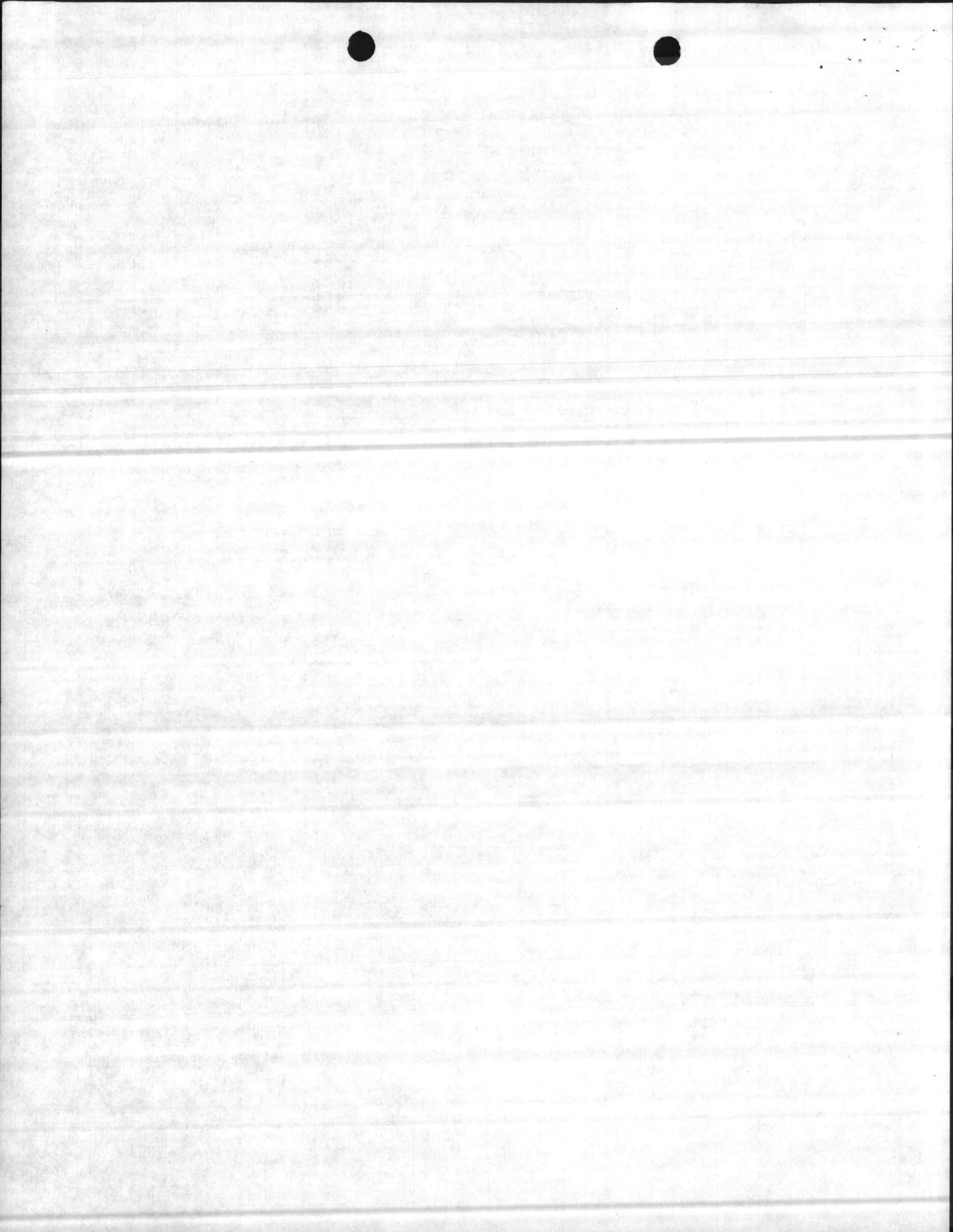
(5) Archaeological and Historical Preservation Act. There are no known sites of historical importance within the G-6 and G-5/G-5A ranges. Also, the areas involved are approved live fire ranges and have been subject to previous disturbance. This regulation is not applicable.

(6) North Carolina Erosion and Sedimentation Regulations. Due to the reasons covered in C(2) it is determined that this regulation doesn't apply to the proposed range modification.

(7) Hazardous Materials and Hazardous Waste Disposal. The residue from ordnance authorized for use on the G-5/G-5A and G-6 ranges is not hazardous. There will be no change in the on going activities, or the ordnance authorized for use on G-6 and G-5/G-5A ranges. For the reasons cited above, this regulation should not apply.

(8) Protection of Wetlands Executive Order 11990. For the reasons covered in C(2), this proposed range modification will not present a threat to any wetlands.

(9) Sanitary Waste and Refuse Disposal. The using unit will police up and remove its own refuse. Minimal amounts are expected.



(10) Other Regulations Applicable. Traffic on HWY 172 must be detoured while the proposed range is in use. North Carolina Transportation Department personnel have confirmed that Marine Corps Base Camp Lejeune is authorized by its charter to detour traffic on base whenever and wherever necessary.

(11) Permit Requirements. None.

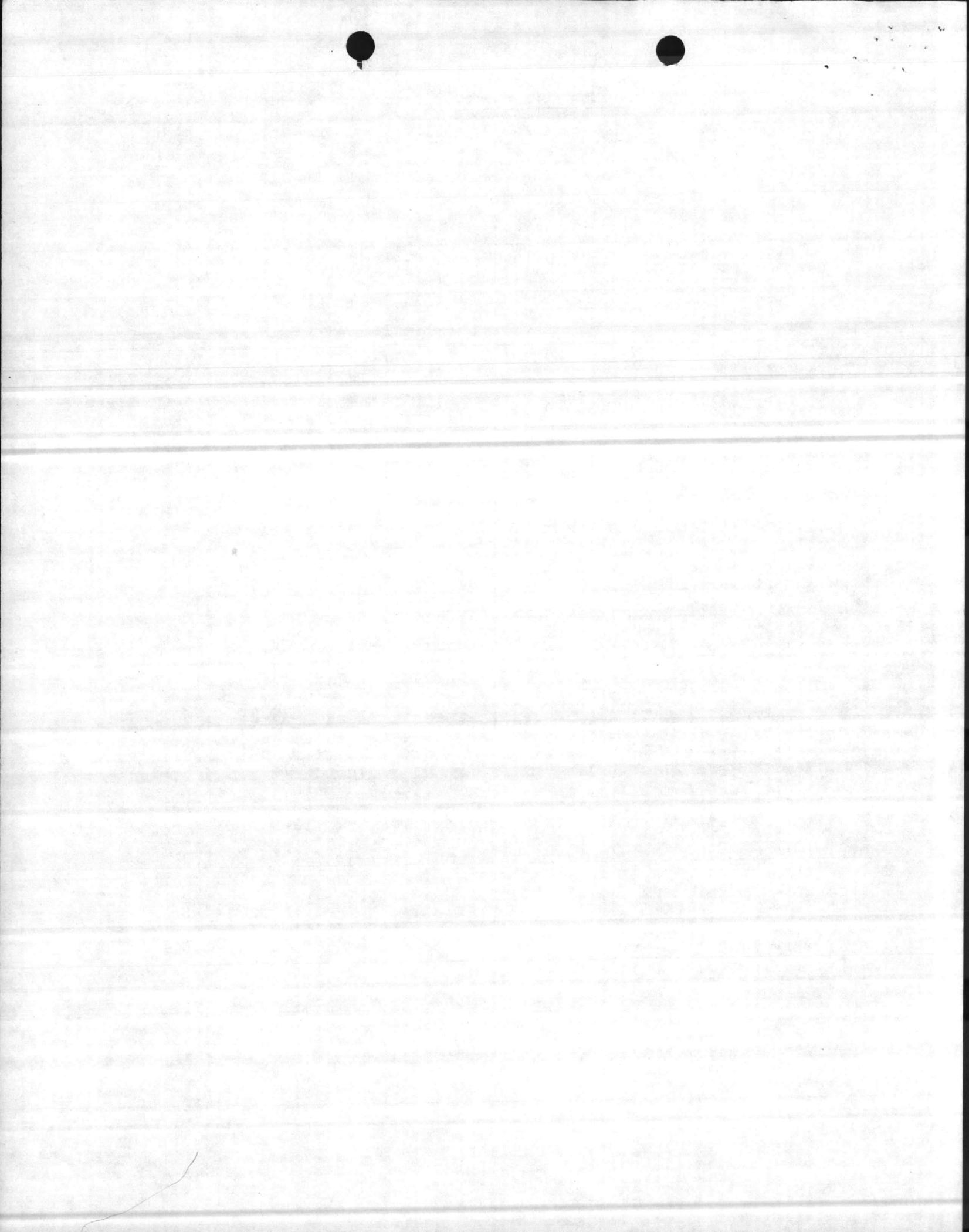
(12) Site Map. See Appendix A.

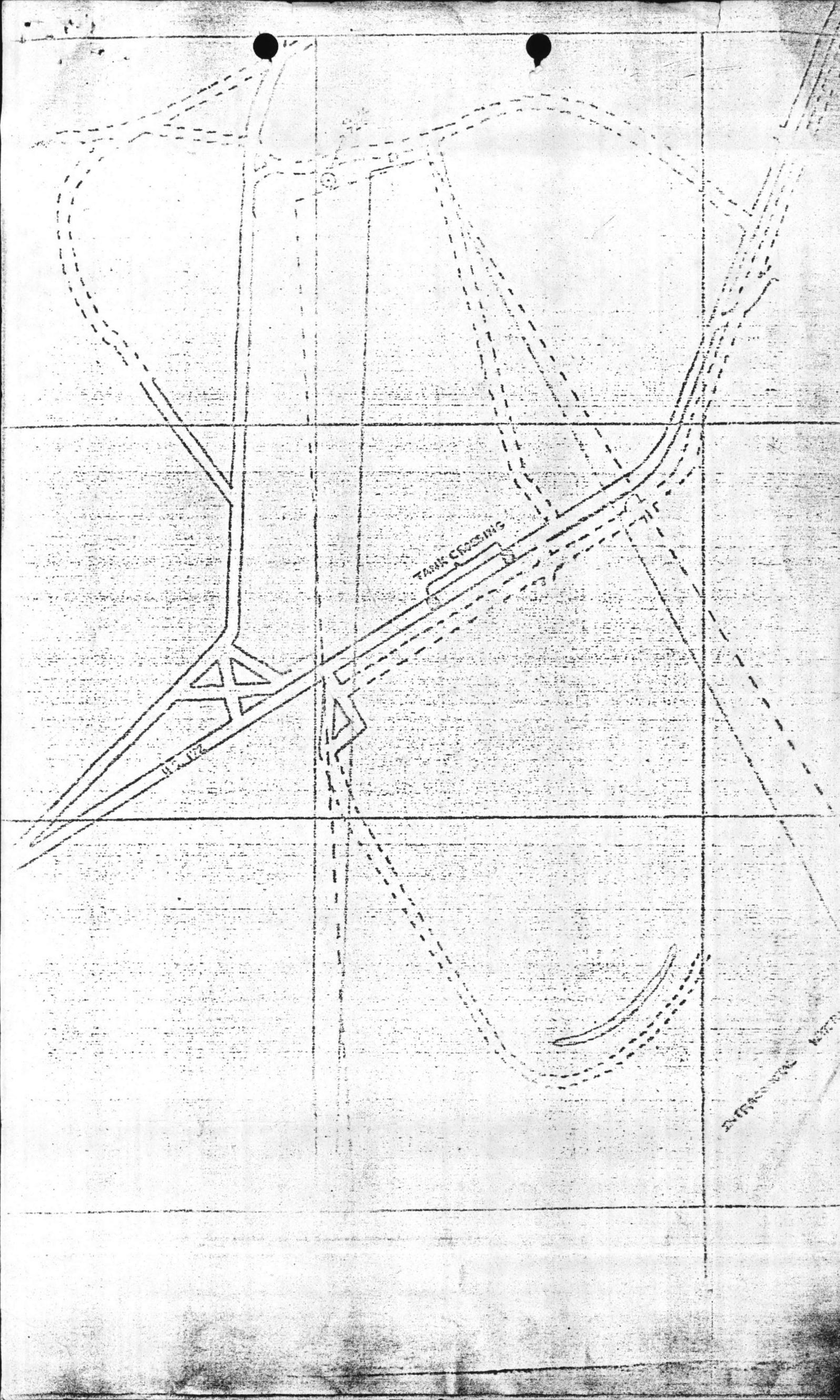
D. How does the proposed action impact on other base functions and missions.

1. The proposed range modification will enhance, the training that the G-6 and G-5/G-5A ranges were created to provide, without effecting other ranges or restricted areas however, HWY 172 traffic must be detoured via Lyman and Sneads Ferry roads while the proposed modified range is in use.

2. Consistency with the Base Master Plan. This proposed range modification was discussed with the Base Training Facilities Officer. The Training Facilities Officer indicated that this proposal is consistent with present and proposed future Base Master Plans.

JAMES L. COOPER





TANK CROSSING

45-172

INTERNATIONAL



TAB PLACEMENT HERE

DESCRIPTION:

HA, HC, & HD

TACTICAL MOVEMENT RANGE

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SUMMARY OF MEETING BETWEEN AC/S, TRAINING AND AC/S, FACILITIES  
ON RANGE TRAINING PROJECTS

1. The following personnel were in attendance at a meeting held on 18 November, 1400, Bldg 1 Conference Room, to determine validity and priority of projects listed in the enclosure.

Col McElroy, AC/S, Training  
Col Lilley, AC/S, Facilities  
LtCol Weidner, Dep AC/S, Training  
LtCol Zitz, Training Facilities Officer  
Maj Barnetson, Fac Maint Mgt Officer  
Mr. Bob Alexander, Env Engr  
→ Mr. Julian Wooten, Dir, NREAD  
WO Walczyk, Range Maint Officer

2. The following projects were reviewed and action is indicated.

a. .50 Caliber Machine Gun Range at Onslow North Tower: It was agreed that this project has been completed.

b. MCES Bridge Training Site Relocation: Completed.

c. Duck Creek LZ: Completed.

d. Power Line to OP-2: Completed.

e. TWSEAS Field Training Site: Completed.

f. Modify Airspace Restricted Areas 5306 D&E and Establish Area 5306 F: Status was unknown. LtCol Zitz recalled that it was sent to Cherry Pt and FAA. He will check on the status.

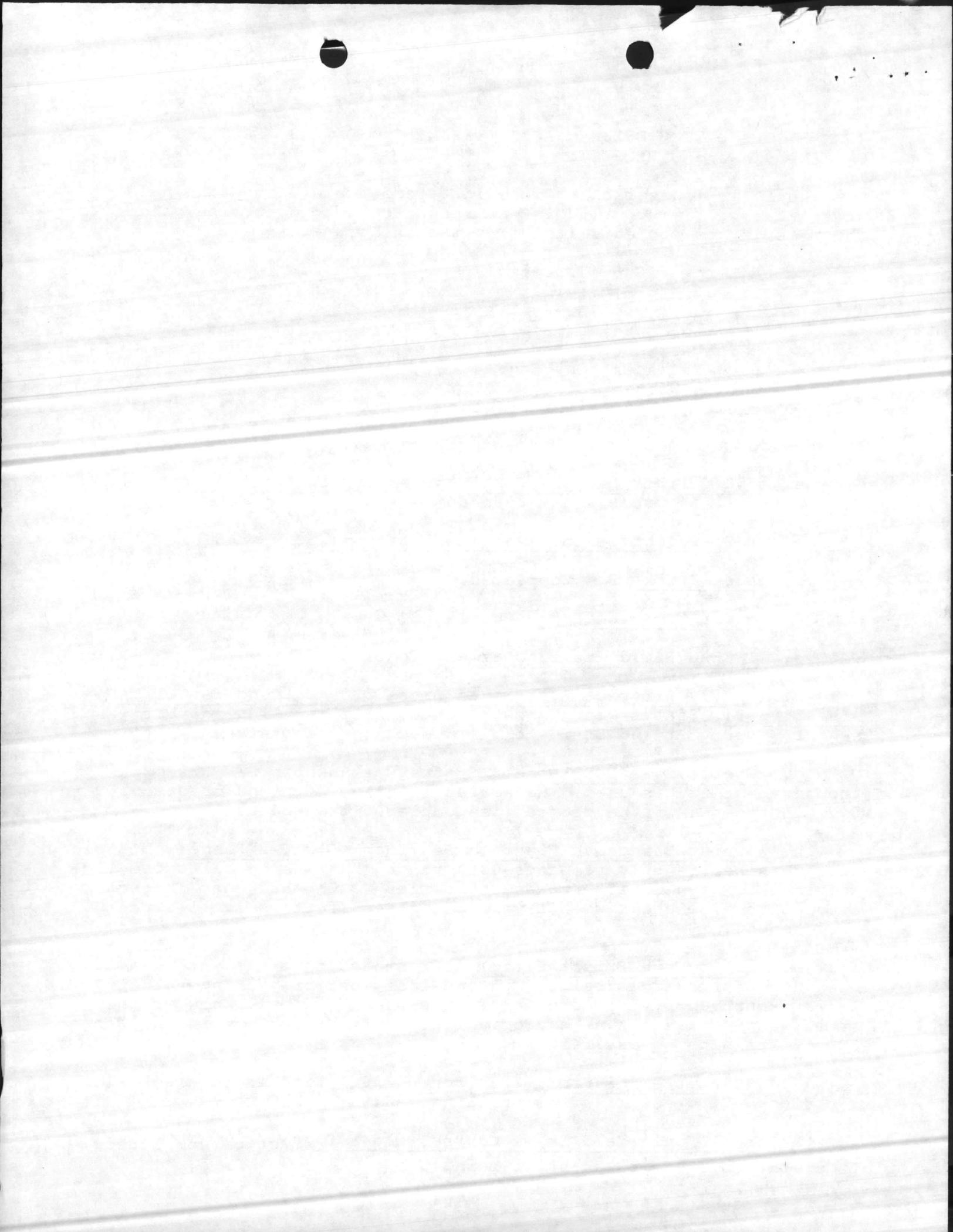
g. Create G-4A EOD Range: Status was unknown. WO Walczyk thought that it was used. He agreed to drive down and check out with Division to see if the project is completed or needed.

h. Soviet Defensive Fighting Position, Old G-2 Range: WO Walczyk stated there are only remnants of a range that was there at one time. Nothing has been done. It was unknown as to who had that project. LtCol Zitz will check with Division and see if it is still a valid requirement.

i. Ellis Cove Bridge Site: Alex stated that the site had not been used for bridge training in the last year or year and a half. It was approved by the Corps of Engineers. He didn't know if they still wanted it shown as an active site. It can be put in the Range SOP if Training so desires.

j. Assault Air Strip; LZ Falcon: LtCol Zitz is to check with Division G-3 to see if it is still needed.

k. Bulk Fuel Field Skill Course, Old FAD: Action completed. LtCol Zitz stated it was still being used.



1. TAFDS Field Training Site for 2d MAW at TLZ Bluebird: Concern exists over the historical site there and at Jarrett's Point. WO Walczyk stated that the demolition bombing is getting closer and closer. Project is completed except for the problem about the historical site. Col. Lilley is to call Mr. Acock at HQMC and try to expedite it.

m. TWSEAS Field Training Site: Completed.

n. Stream Crossing Training Facility: Completed.

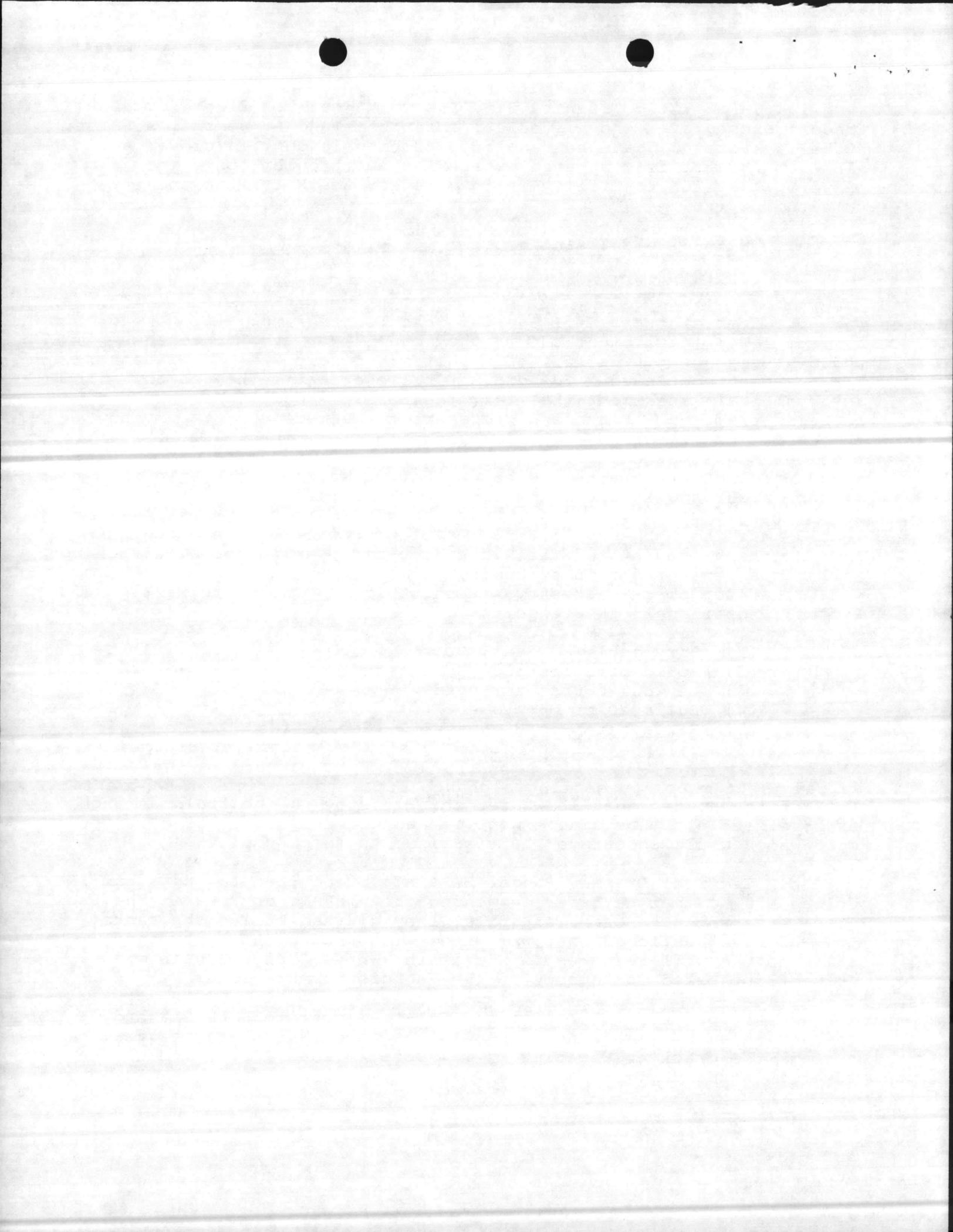
o. Combining G-5/G-5A and G-6 into Single Range: CG wanted maximum troop involvement but if they can't keep up, Maintenance would have to help. 2d FSSG said they would help starting 1 January. PEA has been completed. SJA did not believe that we needed an Environmental Assessment that left the Base. A Soil Sediment Plan is being prepared. Plans and specs are to be made up for burying the cable; no milestones--will do by contract. Timber must be identified that can be harvested. Need to get EOD to go out and see if we have a dud problem. We are to the point that we have to look at our line of sight and insure tanks can see the target. The monorail will not be used the way it was designed to be; it is 25' lower. Berms--should have that done by 15 Feb. LtCol Zitz will talk to the Tank Bn. Maj Barnetson stated that tanks couldn't get in there. Training will get an answer for us on Monday, 21 Nov. LtCol Zitz is to also get with Peter Black, Forestry, to show him what needs to be cleared. Projects entailed in the range:

- (1) Bury cable.
- (2) Build pits for pop-up targets
- (3) Lay out course for road
- (4) Build 20 or 30' tower.
- (5) Range gates on Highway 172 (Facilities)
- (6) Telephone line extending back to safety platform.

Julian is to check on getting a change order to the timber contract. Col McElroy stated that he wanted this to stay in the field as much as possible; e.g., he didn't want it washing away or getting it too good which would encourage VIP visiting; no ammo dump.

p. Tactical Driving Range, HA & HC: Pertained to tanks and AMTRACs. Julian stated that he had recommended they make a dry run in the Duck Creek area which has similar soils; they did and buried the tanks. Col McElroy questioned what was wrong with what we have now and said that he will research to see if they have changed their minds. (Col McElroy asked for a copy of the background material.)

q. 1,000 Yard Sniper Range: Col Lilley stated that he had checked this out to see how we could get it done faster; it "fell through the crack". Clearing is 99% done. Final inspection on the tower is Wednesday.



r. MECHEX & Relocate G-4 to Rifle Range: Extent of project demands HQMC approval. LtCol Zitz stated that it was used one time and dropped after Col Dietmyer left and is known as "Dietmyer's Folly". Col McElroy recommended leaving G-4 where it is, and eliminate G-10.

s. G-7 Tank Boresight Range Maintenance: WO Walczyk advised there is a potential dud hazard. Timber removal is necessary also. Col Lilley asked LtCol Zitz and Maj Barnetson to check on G-7 at the same time when they go out on Monday and develop a scope of work (Training).

t. F-4 Range and F-12, Concrete Target Pits: WO Walczyk explained his rationale for using concrete. The question was posed as to whether or not treated timber could be used instead of concrete, considering the expense involved. Mr. Walczyk stated that the timber gets shot up and decays rapidly, also, concrete is resistant to erosion. He felt he could get it done as a troop project. Col Lilley will get the materials issued and try to get Maintenance to build the concrete forms. Col McElroy agreed unless they get to where they don't have enough troops, then they will come back to Facilities for assistance.

u. F-12 Range: Needs clearing and needs some blade work. Maj Barnetson will arrange for the blade work.

v. L-5 Live Fire and Maneuver Range: The soil is sandy and if a trench is dug it will have to be lined with timber. The expense involved will require that it be a minor construction project. LtCol Zitz will talk to LtCol Anderson about it and see if it is necessary.

LtCol Zitz stated they had started firing .50 calibers this morning. Col Lilley informed him that he was in violation of the MCO and had previously been told that a PEA was necessary and we needed to harvest the timber before firing started.

w. K-304 Aerial Gunnery Range: The use of shellrock was questioned. LtCol Zitz said Maintenance wanted to add on several 'nice to have' items; that he had gone in with a bare-bones project to cut trees.

x. Expand TLZ Bluebird: WO Walczyk explained that it was similar to F-12; just push back vegetation. Maj Barnetson/LtCol Zitz are to also look at this on Monday.

y. Maintenance Clearing of TLZ Albatross: Group consensus was that the area doesn't exist; it is all overgrown. Training is to check with Pete Black and get the use of their drum chopper.

z. Clearing TLZ Falcon: Same as above; take a look at.

Look at  
NOTE BOOK  
on dates  
21-29  
November  
1983



aa. G-10 Vegetation Control: This project was inadvertently left off the enclosure. Purpose is to improve artillery observation; develop feasibility study with PEA and contract documents. The initial PEA was tabled pending selection of method of clearing; Oct - 83, CG, MCB requested a study by LANTDIV; site visit is set for 7-9 Dec 83. Alex stated that we are still waiting on a question of cost.

bb. D-6 Indoor Range: Col Lilley stated that the project was not validated during the last review by HQMC. The question had been posed previously about the use of lead-free ammo but it was not feasible. Col Lilley suggested we try to get it validated as a supplemental project. LtCol Zitz felt that all that was necessary was the installation of two fans above the target area and build a false wall so that when firing is taking place, the fumes would be pulled up and out. Col Lilley stated that he wanted to see NIOSH standards worked up. Col McElroy questioned the priority of the project considering other projects that are needed much worse.

cc. Clearing F-3 Right Flank: LtCol Zitz explained that they are shifting the fan by about 20°; didn't see any need to do blade work; trees will be killed by bullets.

dd. DZ Condor: LtCol Zitz stated this was an ANGLICO project. They want to get it certified as a drop zone by the Air Force and as it is now the AF won't certify; Bluebird is the only certified drop zone. Col McElroy felt it should be a "back burner" item and that we should go to the Army and AF bases for such training where they are already set up for it. He will check on it.

ee. F-18 Artillery Subcaliber Range: Tank crossing trails need to be taken care of.

3. Projects deemed to have priority now are: G-5, Sniper Range and F-18.

4. LtCol Zitz stated that fill was needed at K-303 because of heavy use. Also, he has initiated a letter on K-305 (another heavily used range) to move the range about 80 meters down from the present one. Alex stated there should be no environmental effects.

5. Points of contact for each department were established to get projects moving: Facilities - Maj Barnettson/Col Lilley; and Training - LtCol Zitz, Lt Redmond or WO Walczyk. This is for establishing direction only.

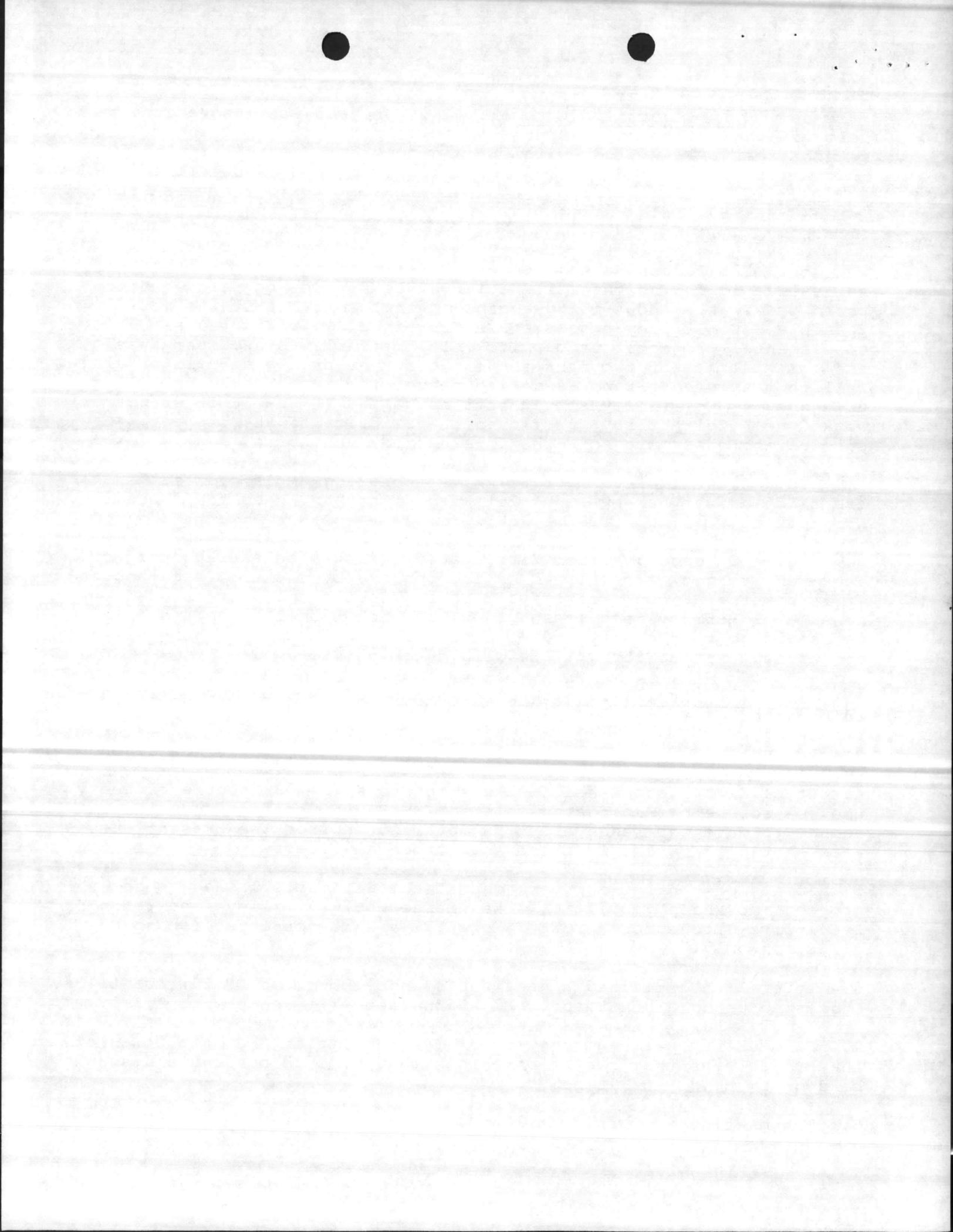
6. LtCol Zitz explained a need for standby power at OP-2. Col Lilley suggested using a generator. Maj Barnettson will check on.

7. Col McElroy said that he would give Facilities the priorities of the projects as they see it on things that have to be done and should be done by Monday or Tuesday.

8. The meeting adjourned at 1545.

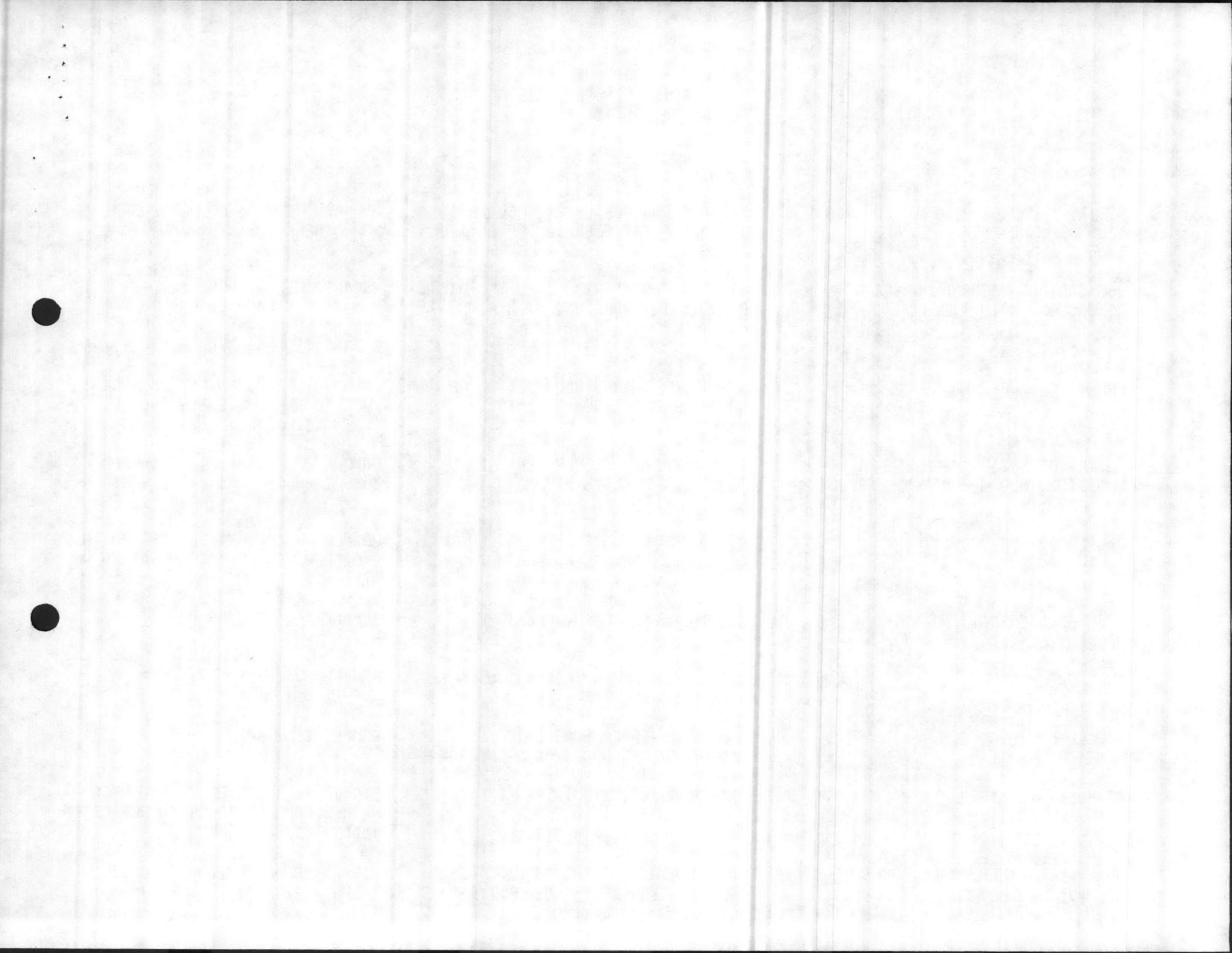
*Hazel Foster*  
HAZEL FOSTER  
Recorder

Copy to:



SUMMARY OF  
RANGE AND TRAINING FACILITIES PROJECTS AND PROPOSALS  
NOVEMBER 1980 TO PRESENT

<u>LOCATION/TITLE</u>	<u>PURPOSE</u>	<u>PROGRESS</u>
MODIFY AIRSPACE RESTRICTED AREAS 5306 D&E AND ESTABLISH AREA 5306 F	INCREASE CONTROL BY CG, MCB FOR AIRSPACE AREAS CLEARED FOR ARTILLERY FIRING	UNKNOWN; EIR BOARD AGREED EA WOULD BE NEEDED - 11/80
✓ .50 CALIBER MACHINE GUN RANGE AT ONSLOW NORTH TOWER	ESTABLISH FOR FIRING INTO THE OCEAN TO AVOID INTERFERENCE WITH AIWW	ESTABLISHED BY BO 11102.1J; USAGE IS 5 DAYS/18 MOS.; EIR BOARD AGREED SINCE BROWNS ISLAND EIS WAS UNDERWAY - 11/80
CREATE G-4A EOD RANGE	DEMOLITION RANGE, REQUIRED CLEARING AND GRADING AN AREA 500' IN DIAMETER	UNKNOWN; APPROVED BY EIR BOARD; TO BE CONSTRUCTED BY TROOP TRAINING PROJECT - 11/80
SOVIET DEFENSIVE FIGHTING POSITION, OLD G-2 RANGE	STATE DISPLAY: TRENCH, TANK POSI- TIONS, CP; NO LIVE FIRING OR CLEARING INVOLVED	UNKOWN; APPROVED BY EIR BOARD 2D CBT ENR BN PROJECT - 6/81
ELLIS COVE BRIDGE SITE	BRIDGE TRAINING SITE; TRNG SOP TO BE AMENDED FOR PRECAUTIONS	UNKNOWN - APPROVAL BY EIR BOARD PROVIDED COE PERMITS OBTAINED - 8/81
MCES BRIDGE TRAINING SITE RELOCATION	MOVE TO CREELS POINT DUE TO UEPH PROJECT	COMPLETE; COE APPROVED - 1/82
DUCK CREEK LZ	CH-53 ASSIST IN BRIDGE TRAINING; MINOR CLEARING	COMPLETE - 1/82
POWERLINE TO OP-2	COMMERCIAL POWER SOURCE TO FSCC/ DASC WHICH WAS UNDER CONSTRUCTION	COMPLETE - 4/82
ASSAULT AIR STRIP	FIXED WING LZ, SIGNIF. LAND CLEARING	EIR BOARD REVIEWED EA AND RECOM- MENDED FORWARD TO CMC - NO ACTION TAKEN - 4/82
BULK FUEL FIELD SKILL COURSE, OLD FAD	FIELD TRAINING SITE; PUMPING WATER FROM EXISTING WELL; BUILD BERMS	EIR BOARD APPROVED - NO ACTION TAKEN - 4/82



TAFDS FIELD TRAINING SITE FOR  
2D MAW AT TLZ BLUEBIRD

CLEARING LEVELING, WATER POINT,  
AM2 MATTING

DEFERRED BY BOARD FOR REVIEW  
BY AC/S, TRNG & MEETING WITH  
NREAD TO RESOLVE PROBLEMS -  
NO ACTION TAKEN - 8/82

TWSEAS FIELD TRAINING SITE

SITE PREP FRO 70'x85' CONCRET PAD  
FOR VANS, BUILD PRIVY, ELECTRIC  
POWER OMITTED

APPROVED BY BOARD - TROOP TRNG  
PROJECT (?) - 8/82

STREAM CROSSING TRAINING  
FACILITY, 2D RECON BN

ROPE BRIDGE FACILITY NEAR RAPPELLING  
TOWER; SITE PREP, 6 ELEC. POLES

APPROVED BY BOARD - NO ACTION  
TAKEN - 8/82

COMBINING G-5/G-5A and G-6  
INTO SINGLE RANGE

TANK GUNNERY RANGE; BURIAL OF ELECT  
POWER LINES; BUILD TRAFFIC GATES ON  
NC 172; CLEARING; BUILD ONE TOWER

INITIAL PEA WAS TABLED PENDING  
SELECTION OF METHOD OF CLEANING;  
OCT 83 - CG, MCB REQUESTED STUDY  
BY LANTDIV; SITE VISIT SET FOR  
7-9 DEC 83

TACTICAL DRIVING RANGE, HA&HC

1800 ACRE TIMBER HARVEST WITH  
VEGETATION CONTROL TO KNEE HEIGHT;  
TRAFFICABILITY WAS UNCERTAIN

EIR BOARD TABLED PENDING TEST  
RUN & STUDY OF ALTERNATIVE SITES -  
8/82

1000 YD SNIPER RANGE

8 SNIPER POSITIONS, FIRING PLATFORM,  
BURIAL OF UTILITY LINES, EXTENDING  
TELEPHONE WERE IN MINOR CONSTR PROJ

FIRING TOWER CONSTRUCTION NEARING  
COMPLETION; OTHER ITEMS UNCERTAIN

MECHEX & RELOCATE G-4 TO RIFLE  
RANGE

LIVE FIRE TRAINING COURSE REQUIRED  
CLOSURE OF G-4 & MOVE DEMO PIT,  
RIGGING & BRIDGING AND OTHER TRAIN-  
ING

REQUEST FOR MORE DETAILS ON  
CLASSROOMS, ADMIN & BILLETING  
REQUESTED OF DIV G-1 - NO RESPONSE  
TO DATE

G-7 TANK BONESIGHT RANGE  
MAINTENANCE

REBUILD 150' OF BERM, REPLACE  
DECAYED TRACK OF RAILWAY MOVING  
TARGET SYSTEM

FAC RESPONSE DUE

F-4 RANGE

CONSTRUCT 10 CONCRETE TARGET PITS;  
3'x2'x2'

FAC RESPONSE DUE; USE OF SMAW WILL  
AFFECT

F-12 RANGE

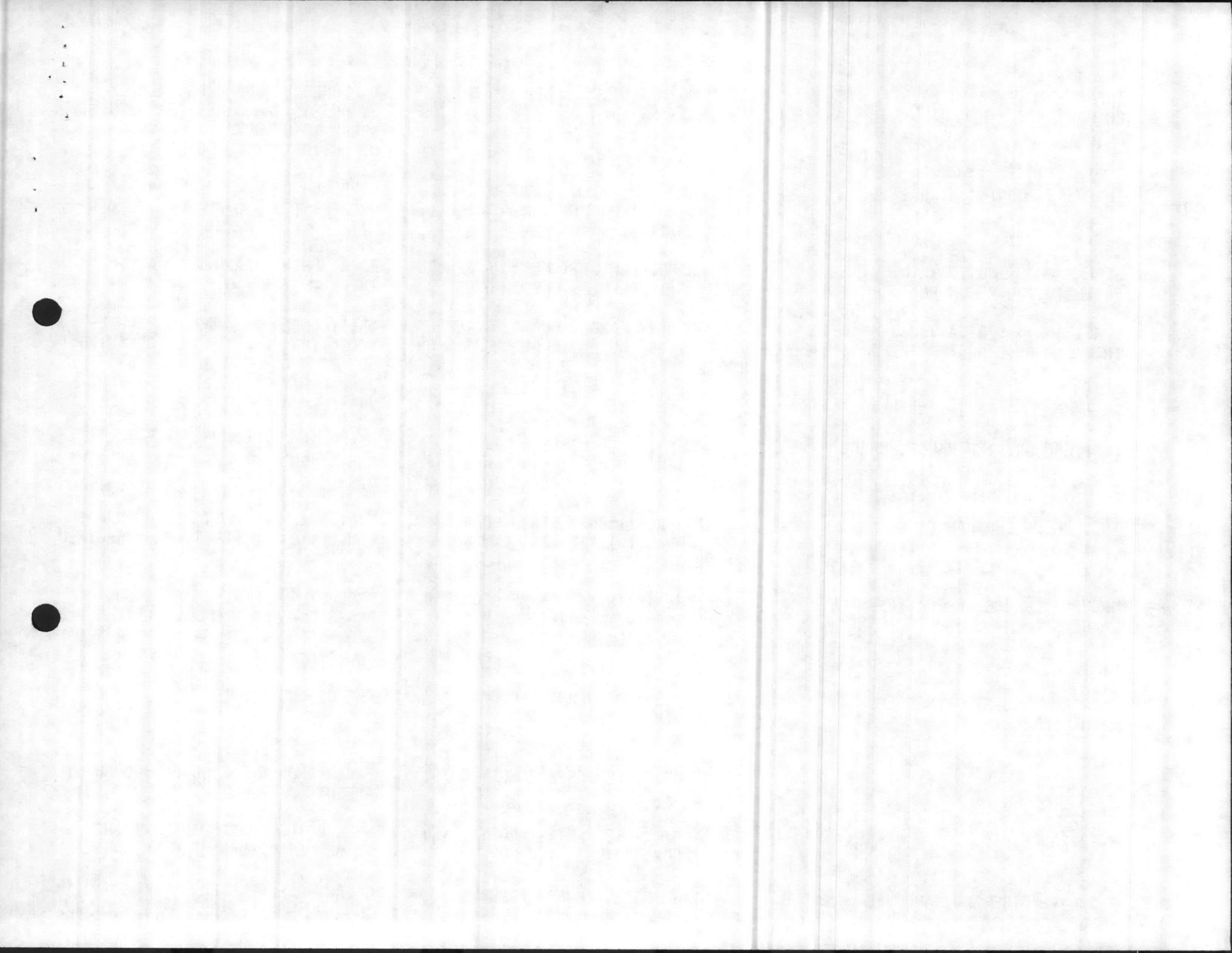
CONSTRUCT 14 CONCRETE TARGET PITS;  
CLEAR 200x100 YDS

SIZE OF POWER REQUIREMENTS NEEDS  
TO BE DETERMINED; FAC RESPONSE DUE

L-5 LIVE FIRE AND MANUEVER  
RANGE

CLEARING, ACCESS ROAD RE-BUILD,  
BERM, TRENCH

CLEARING COMPLETED; PEA/EA REQUIRED  
FOR .50 CAL FIRING; SEDIMENT CONTROL  
PLAN TO BE DEVELOPED WITH RE-SEEDING



K-304 AERIAL GUNNERY RANGE	'CLEARING, PLACEMENT OF SHELLROCK FOR LANDING PAD	'PEA BEING WRITTEN BY TRNG
EXPAND TLZ BLUEBIRD	CLEARING 200x50 YDS ON NORTHERN PERIMETER	FAC RESPONSE DUE
MAINTENANCE CLEARING OF TLZ ALBATRISS	CLEARING SMALL PINES IN AREA 200x450 YDS	FAC RESPONSE DUE
CLEARING TLZ FALCON	AREA = 100x150 YDS	FAC RESPONSE DUE
CLEARING F-3 RIGHT FLANK	AREA = 200x1000 M	FAC RESPONSE DUE
D-6 INDOOR RANGE	INITIAL VENTILATION	MINOR CONSTRUCTION PROJECT PLANNED FOR FY-85; SHOULD BE PUSHED TO FY-84
DZ CONDOR	ANGLICO UNIT DROP ZONE: INITIAL SITE AT VERONA WAS REVISED FOR FALCON/GOOSE/GANDER; ENGINEERING ESTIMATE REQUESTED; SCOPE OF AREA WAS REDUCED DURING JOINT MEETING	FAC RESPONSE DUE; EA WILL LIKELY BE NEEDED
F-18 ARTY SUBCALIBER RANGE	INDIRECT FIRE SUPPORT COORDINATION	SITE PREP AND BERM COMPLETED; NEEDS RE-SEEDING, TARGETS; REVISED RANGE SOP, TANK CROSSING ON SNEADS FERRY RD.; EST COMPLETION DATE 1 MAR 84





UNITED STATES MARINE CORP  
 Range Control  
 Marine Corps Base  
 Camp Lejeune, North Carolina 28542

*Dawson*  
*Block*  
*C. Peterson*  
*J DW*  
*2-23-84*

IN REPLY REFER TO:  
 RCTL/HBR/ves  
 5100  
 17 Feb 1984

From: Range Control Officer  
 To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542  
 Via: Assistant Chief of Staff, Training  
 Subj: Tracked Vehicle Operations - Camp Lejeune, North Carolina

1. On 16 February 1984, at 1330, a conference was held to discuss the subject topic. The following personnel were in attendance:

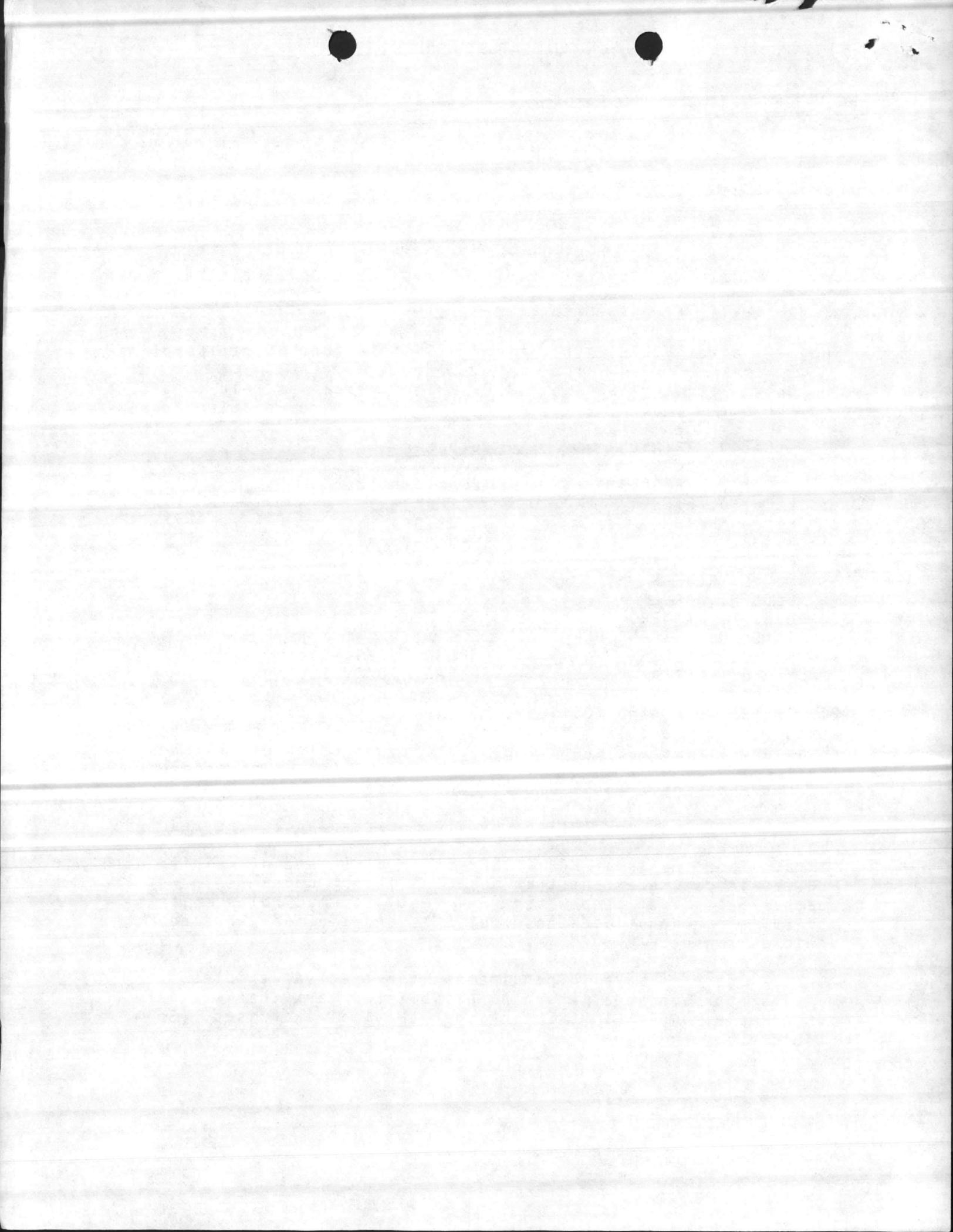
LtCol J. BRINSON	6th Mar
LtCol R. NEAL	5/10
LtCol T. SADDLER	2dAsltPhibBn
LtCol D. STEEL	2d Mar
Maj N. BAKER	G-3 Trng
Maj R. ELUK	S-3 AAV Bn
Maj R. HUCK	6th Mar
Maj L. ROGERS	5/10
Capt H. AGRUE	Tkbn Rear
Capt T. TANNER	8th Mar
1stLt K. FEIERBACHER	2/4
Mr. C. PETERSON	NREAD, AC/S, Fac
Mr. J. WOOTEN	NREAD, AC/S, Fac

2. The Range Control Officer, MCB, explained to those in attendance the problem of tracked vehicles causing damage to roadside right-of-ways and the necessity of using established tank trails as well as complying with check in/out procedures for entrance and transit of TA's and MA's.

3. The following conclusions by all in attendance were reached:

a. Tank trails at MCB, CLNC are in dire need of maintenance and repair to the extent that most trails are unusable in wet weather because of deep water (3-4 feet) and mud holes. Tanks and LVT's can negotiate these but SP's and tactical wheeled vehicles cannot.

b. There is a valid requirement for tracked vehicles to maneuver through areas where no established tank trails exist, for example, during a MCRES or other tactical exercises, (Solid Shield etc.).



c. Tracked vehicles can maneuver anywhere they are required to as long as they avoid endangered species areas and historical sites.

d. In the future, care will be taken to avoid damaging the environment and roadside right-of-ways when in transit from one area to another, but it is understood that we must train for war like we are going to fight in a war, and if it necessitates going along an existing hard-surface or improved road, it is the Commander's prerogative to do so.

e. Tracked vehicles and other units using TA's/MA's will check in/out those areas by phone (3064) or radio "BLACKBURN" FM 38.60 (old squelch), this will ensure safety and give Range Control positive control over units in the field.

f. BO P11102.1J Para 206.12 was questioned. Mr. WOOTEN stated that NREAD did not put that paragraph in the order. He further stated there was no prohibition as far as NREAD was concerned about tracked vehicles knocking over trees while training. The Range Control Officer informed all in attendance that the revision of the Base Order does not have that restriction - it has been deleted.

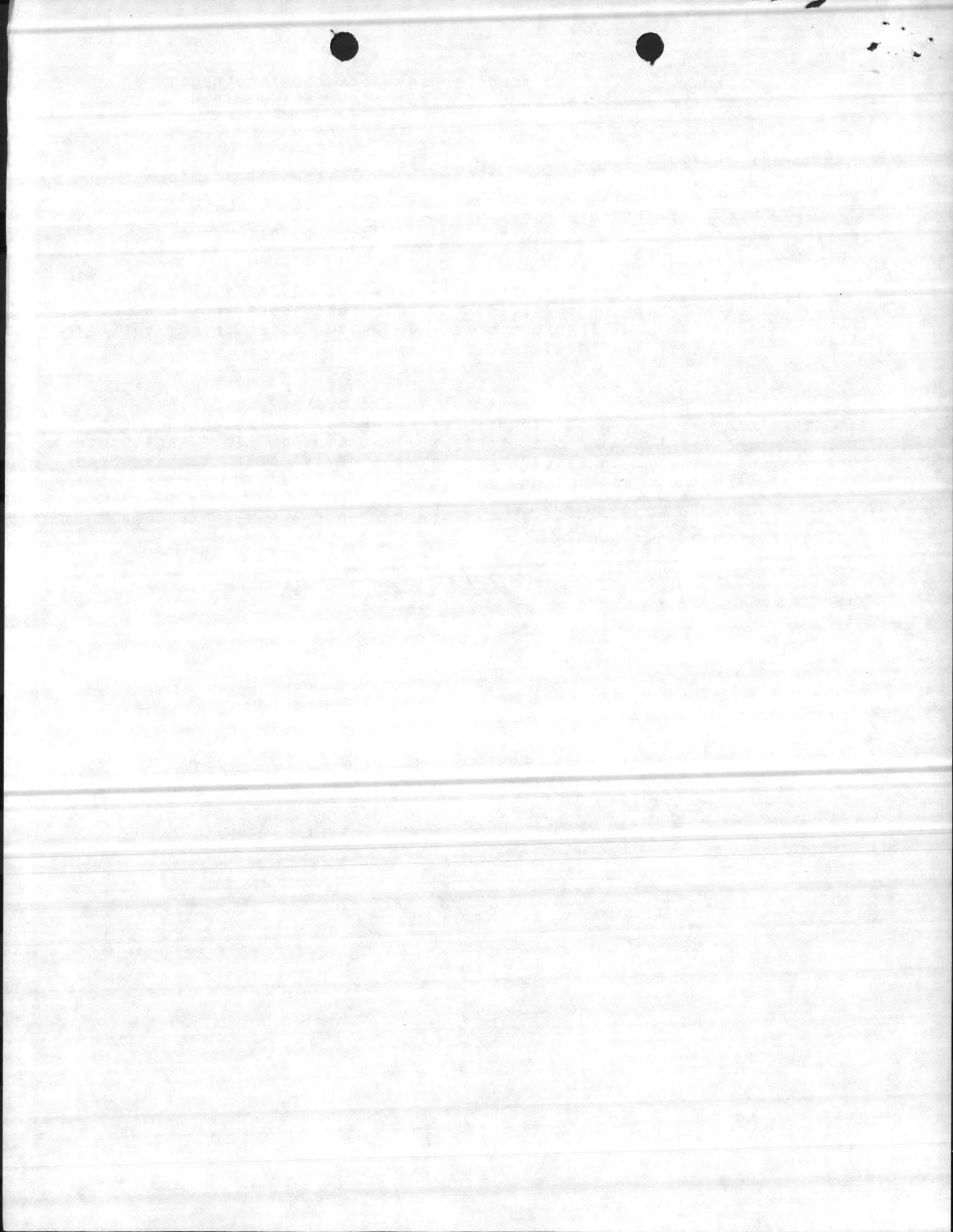
4. Overall, the conference allowed everyone to present their case and discuss problems openly.

  
K. W. ZITZ

Copy to:  
CG, 2D MarDiv  
AC/S, Fac  
Ea Attendee

Poorly stated in this letter  
DDS

This could really lead to a degradation of the heavily used areas. This gives them the official OK





UNITED STATES MARINE CORPS  
Training Facilities Division  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO  
RCTL/KWZ/ves  
4720  
19 October 1983

From: Range Control Officer  
To: Base Maintenance Officer

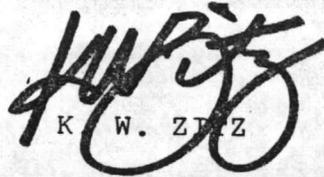
Subj: Range Maintenance Requirements

Ref: (a) Meeting at Base Maintenance on 12 Oct 83

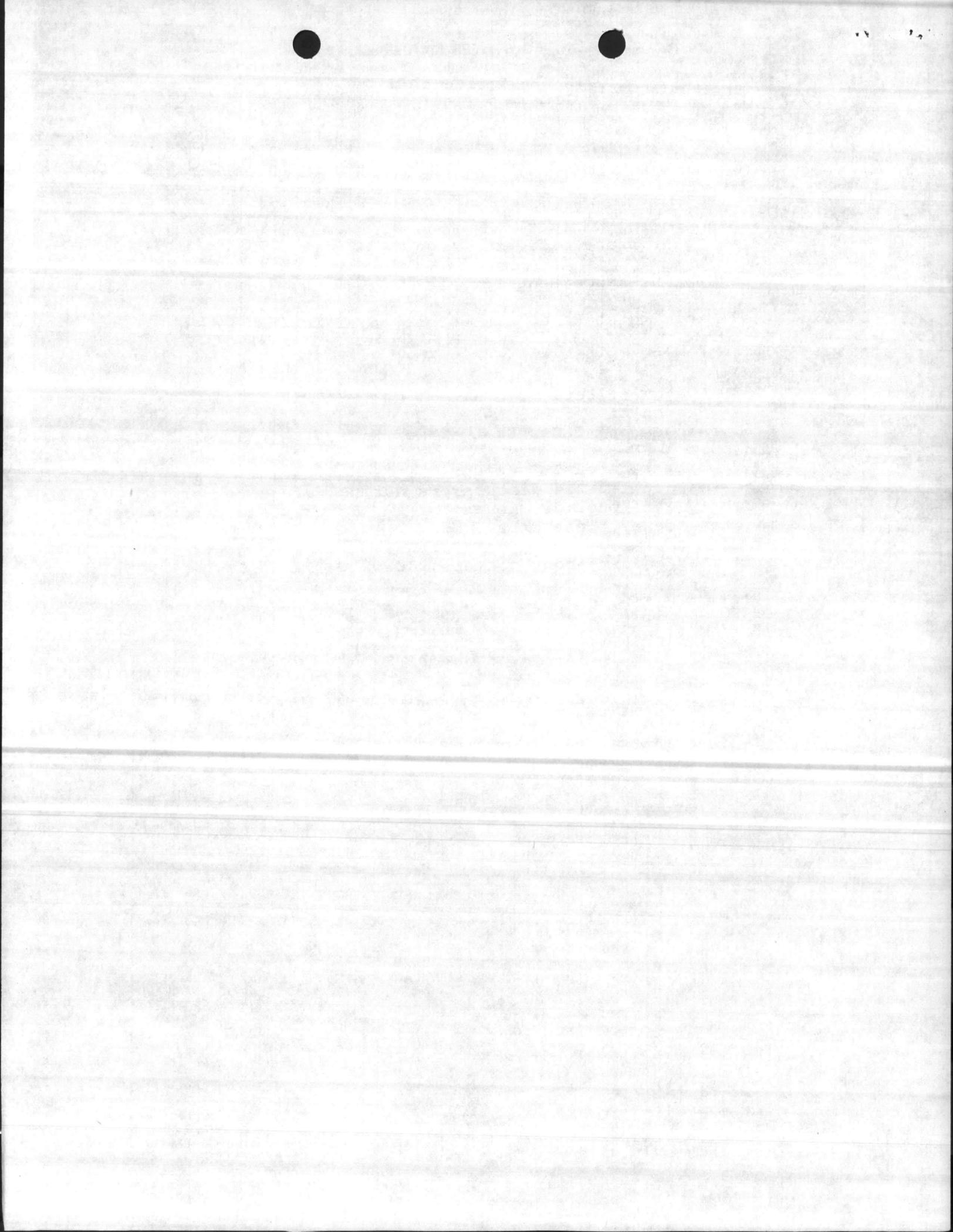
Encl: (1) L-5 Range Maintenance Requirements  
(2) Map of L-5  
(3) Sketch of Berm, L-5  
(4) Sketch of Trench, L-5  
(5) Ranges and TLZ's East of New River  
(6) Range D-6  
(7) Expansion of TLZ Condor

1. In accordance with the discussions during reference (a), enclosures (1) through (7) are provided to assist in planning and conduct of range maintenance of these areas.

2. For further information, contact: CWO2 H. A. WALCZYK or MSgt B. J. MOSES, ext 5211.

  
K W. ZITZ

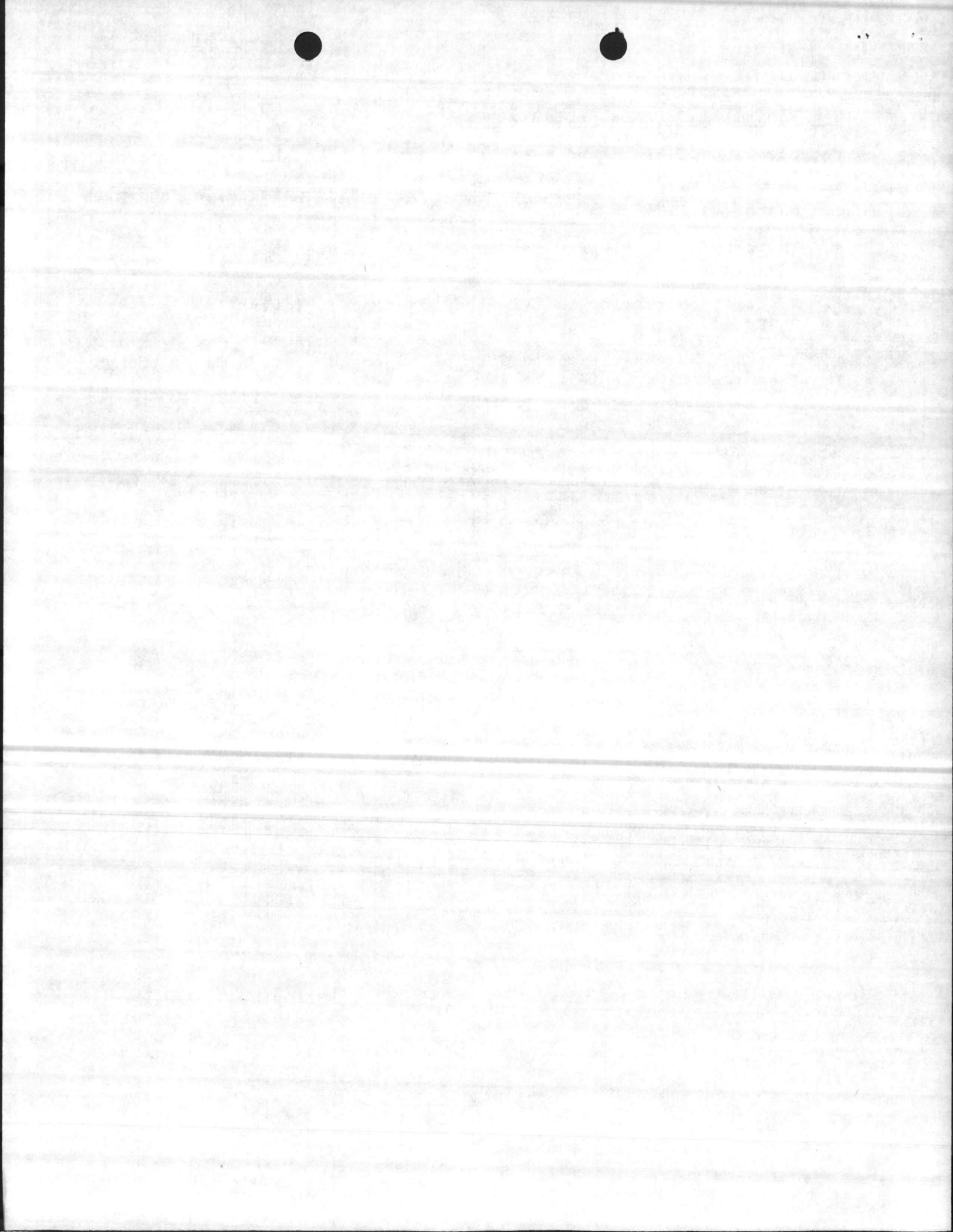
Copy to:  
AC/S, Fac  
AC/S, Trng



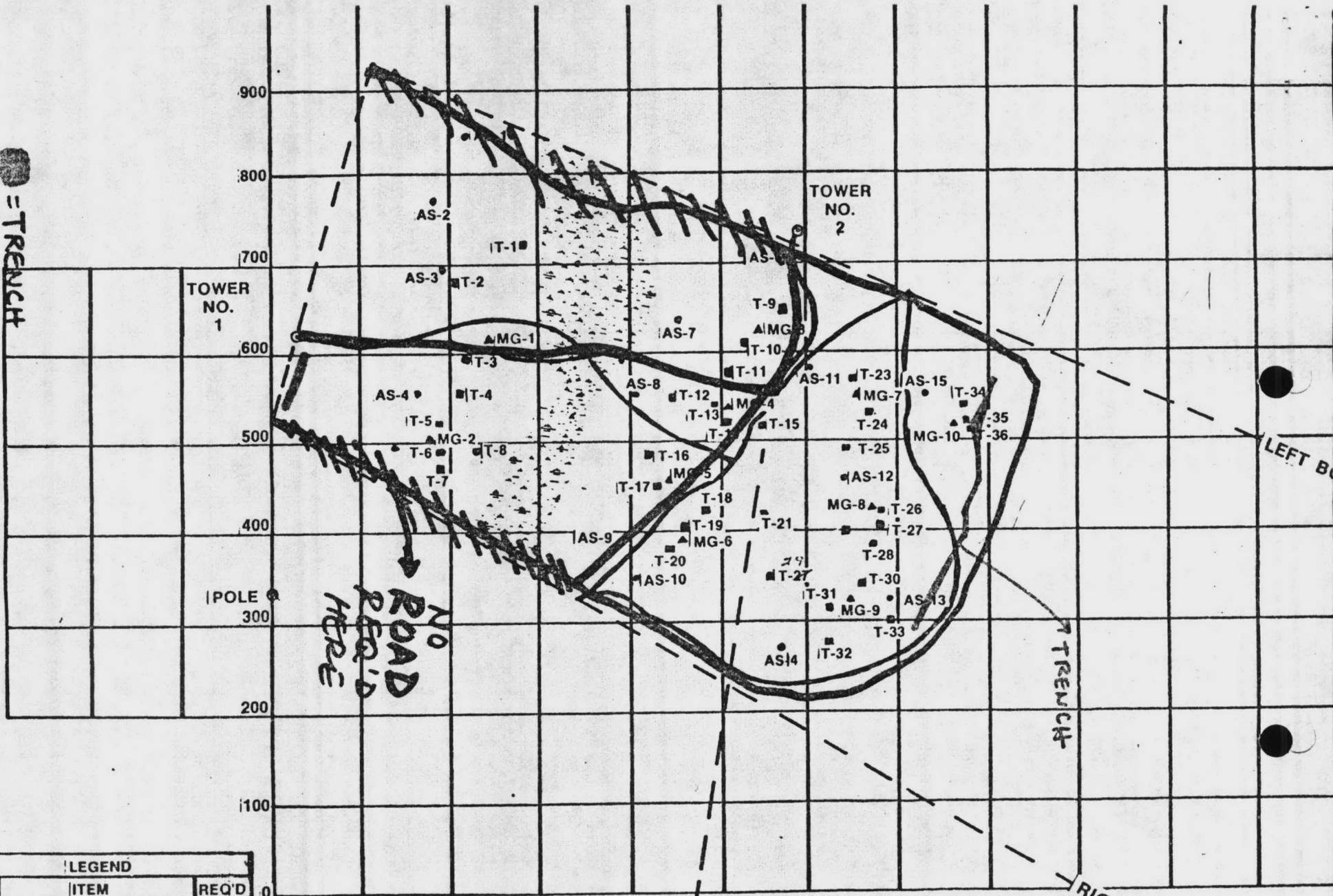
L-5 RANGE MAINTENANCE REQUIREMENTS

1. Clearing of brush and trees on range in area shown on enclosure (2).
2. An access road be constructed of all season material as shown on enclosure (2).
3. The range area cleared be dressed up and seeded to prevent erosion.
4. A firing berm being constructed adjacent to Tower #1 as shown on enclosure (3).
5. A trench be excavated and dirt piled to the west side of trench as shown in enclosure (4).

Enclosure (1)



= ROAD  
 = TRENCH



LEGEND		
SYM	ITEM	REQ'D
	CONTROL TOWER	2
	MACH. GUN SIMULATOR	10
	ARTILLERY SIMULATOR	15
	POP-UP TARGET	36

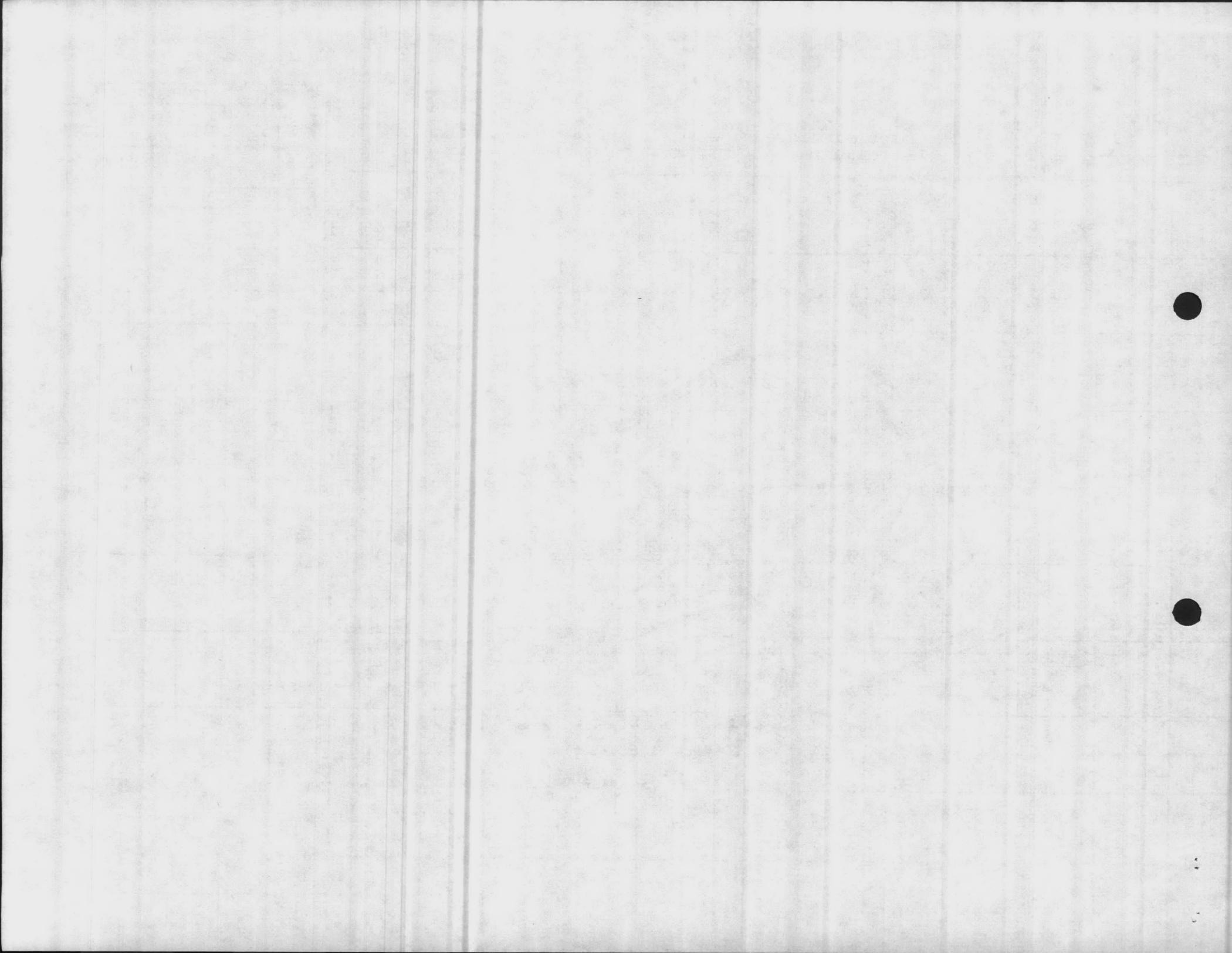
OBJECTIVE 1 AND 2 AREA  
CONTROLLED BY TOWER NO. 1

OBJECTIVE 3 AREA  
CONTROLLED BY TOWER NO. 2

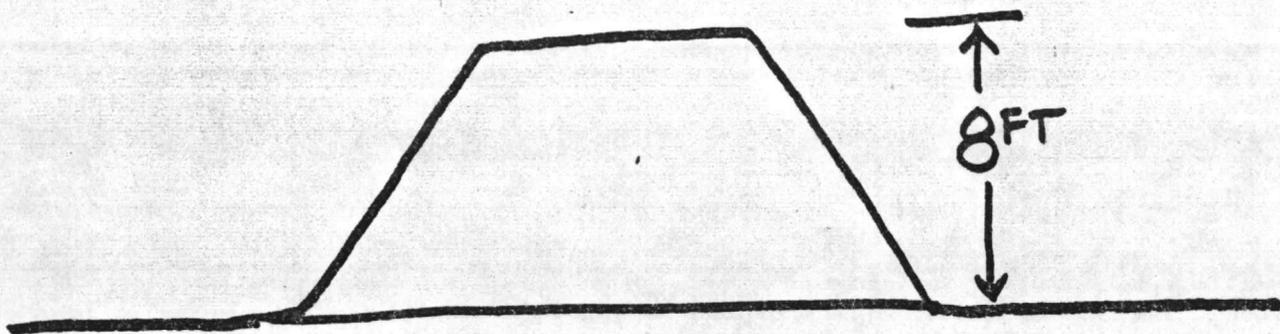
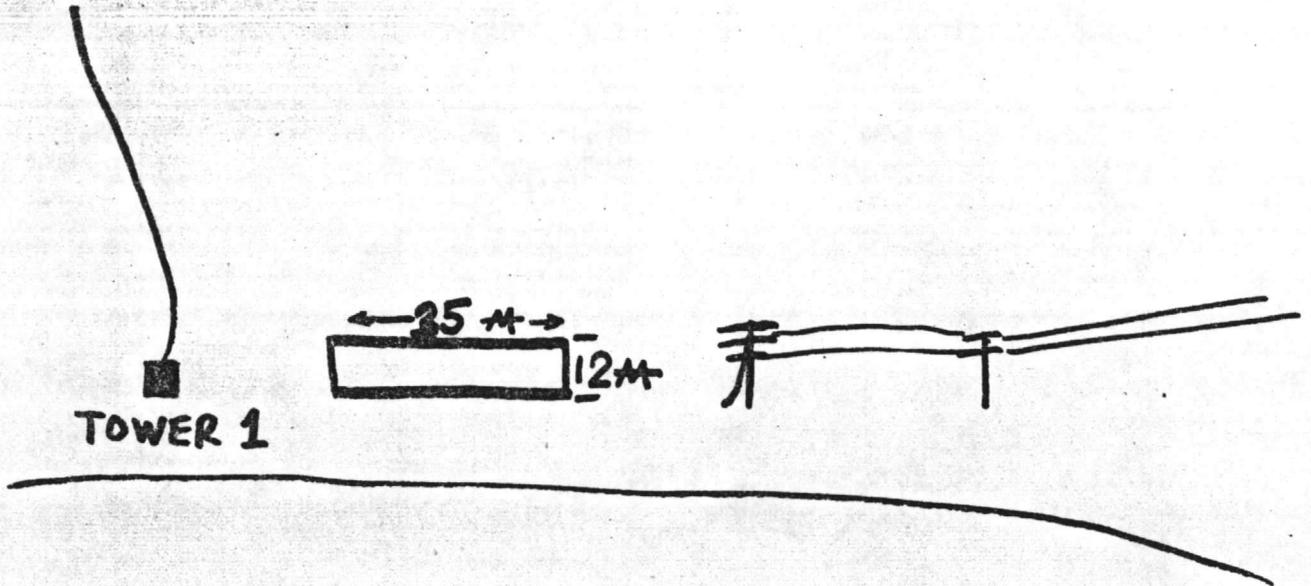
RIGHT BOUNDARY

LEFT BOUNDARY

NO ROAD REQ'D HERE



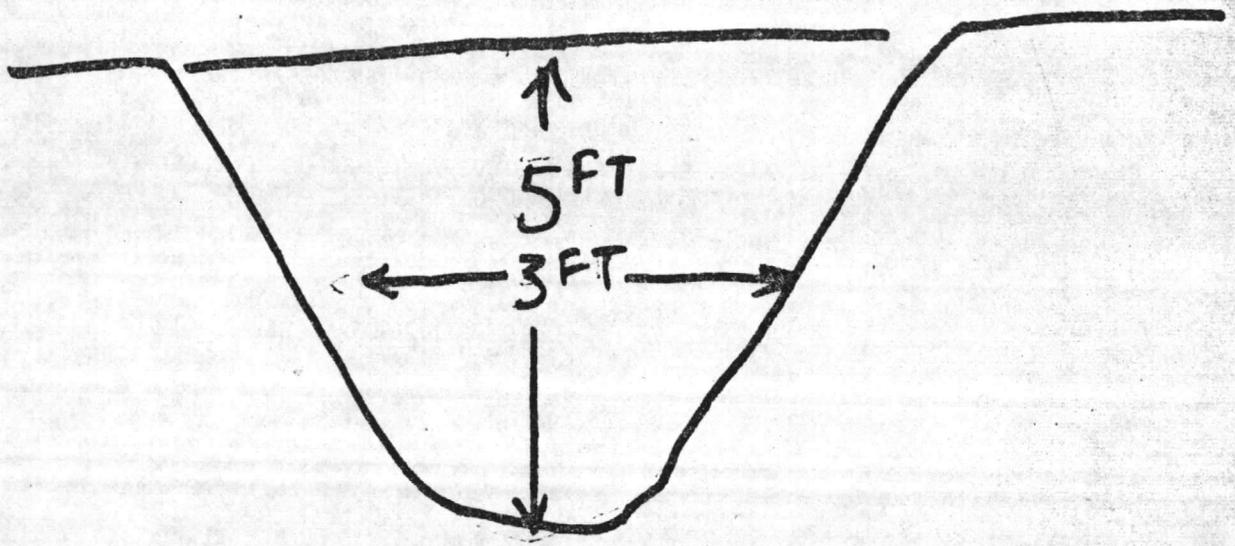
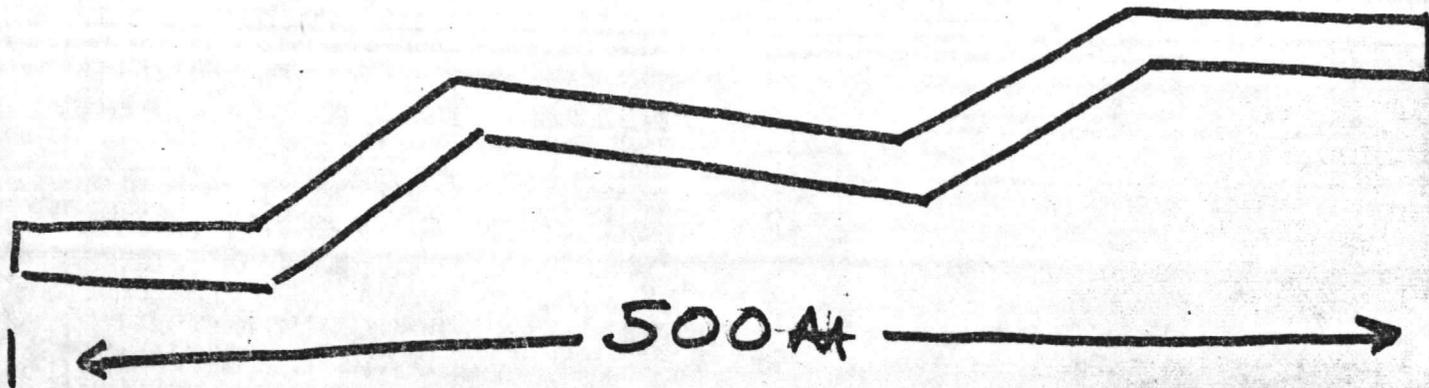
SKETCH OF BERM, L-5



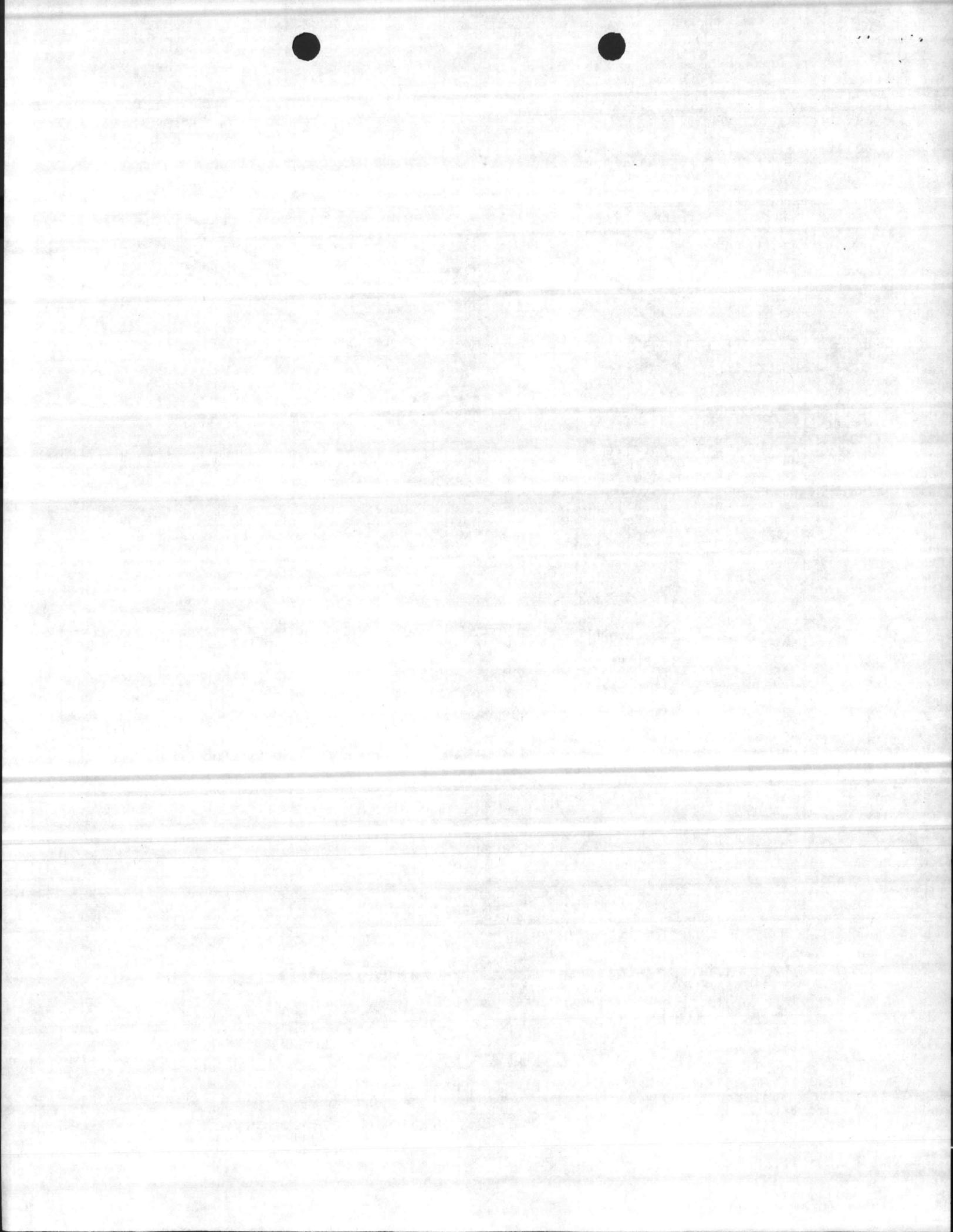
SIDE VIEW



SKETCH OF SOVIET TRENCH, L-5

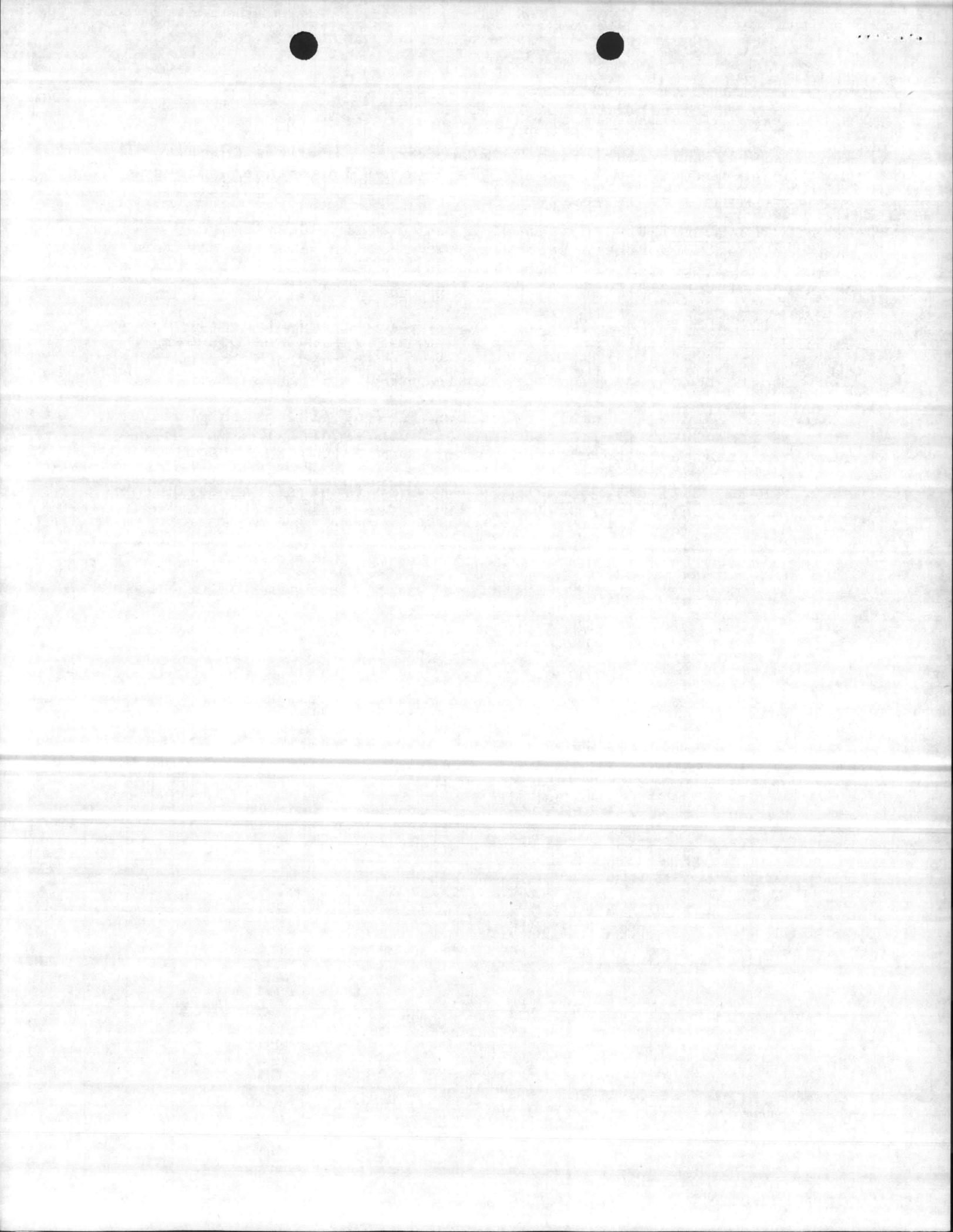


RANGE MAINT O & DIV, G-3T WILL  
LAY OUT ON-SITE W/ STAKES  
ACTUAL LOCATION



RANGES AND TLZ'S EAST OF NEW RIVER

- a. F-12, Individual Fire Team and Squad Assault Range - An area of approximately 200 x 100 yds located down range and overgrown by pine trees.
- b. TLZ BLUEBIRD - An area of approximately 200 x 50 yds adjacent to the northern perimeter of the TLZ, plus two smaller areas toward the center of the TLZ. They are sufficiently removed from the historic site located in the area.
- c. TLZ ALBATROSS - Approximately half of the entire TLZ has to be cleared from small pine trees overgrowing it. The boundary of the TLZ is clearly defined by a perimeter road and large trees. The area to be cleared is approximately 200 x 150 yds.
- d. TLZ FALCON - Densely overgrown area by pine trees that vary in size from 10-15 ft located in the north side of the TLZ. The size of the area to be cleared is approximately 150 x 100 yds.
- e. F-3. Bull doze down trees on right flank of range 200 m x 1,000 m. Range Control will mark trees for this operation.

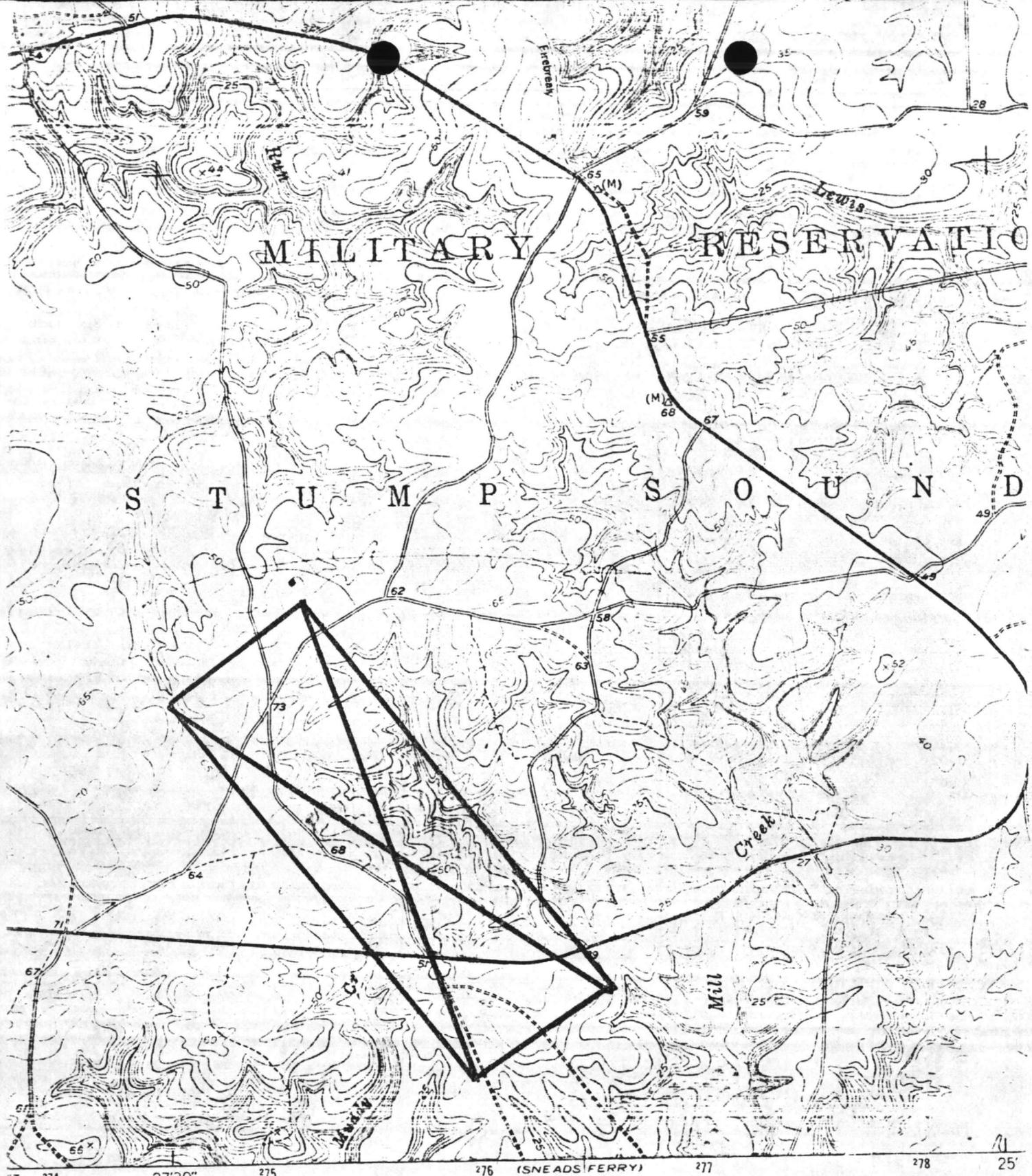


RANGE D-6 (INDOOR PISTOL RANGE)

Work: Install 2 exhaust fans above target area or side walls.  
CWO WALCZYK will coordinate.

Justification: To ensure lead fumes are properly evacuated.





CURRENT



PROPOSED EXPANSION



1000

Ken

ITEM: EOD Sweep of Unimproved Road Through GA, EB Portion of Buffer Zone, North of G-10 Impact Area.

DISCUSSION:

Inquiries with EOD on the feasibility of a 50-100 meter wide sweep, with the unimproved road as the axis, indicate a need for additional personnel to conduct such a sweep. This sweep would result in an EOD clearance of 50% surface clear and an unknown sub-surface clearance. EOD indicates this cannot be done short term. (As in August 1982).

RECOMMENDATION:

As a short term solution, consider clearing the road & "shoulders" only. Clear several selected firing positions for AT weapons, along the unimproved road. This will prevent a lengthy range sweep yet allow unit to accomplish the bulk of the proposed training. As a short term solution, require troops to remain embarked while traversing G-10, with the exception of the LAW/ DRAGON Gunners/A-Gunners at pre-selected sites.

Long term planning should task EOD with providing figures concerning the following:

1. Number of personnel required to conduct a sweep 100m wide with road as axis.
2. Cost in dollars of such a sweep, including per diem/TAD pay for augmentees, travel pay etc.
3. Earliest time frame such a sweep could be accomplished.

The cost and time involved in conjunction with such a sweep may require tailoring proposed training to exclude extensive preparations. G-10 would need to be secured to conduct sweep, and remain secured until training was conducted, thereby consuming valuable training space/time of all Division units.

It should be noted that tracked vehicles use the proposed route now.



|

ITEM: Anti-Tank Fire into G-10 Impact Area. Anti-Tank Weapons Defined as M-72 LAW, M-47 DRAGON, M-220 TOW Missile.

DISCUSSION:

Base regulations do not address the firing of AT weapons into G-10, with the exception of the TOW missile from OP-5 only. M-72 LAW's are currently fired at the G-9 range, with the impact area being a portion of the GA area Buffer Zone. M-72/M-47 firing into G-10 would involve dismounted troops establishing firing positions on/near the unimproved road, or firing the M-47/M-220 from the Universal Mount from atop an AAV. Depending on the visibility of impact area or available targets, this may or may not be feasible. Proposed "Safety Zone" for operations into G-10 is 100m wide. Backblast area for M-72 is 40m deep by 25m wide, M-47 is 50m deep by 75m wide. This would require firing before/after the maneuvering column passes, or halting the column and establishing firing points, with an adequate safety fan.

The M-220 TOW weapon system has a backblast area 75m deep by 100m wide, posing the same firing position/target problem as the M-72 and M-47. Range Control currently requires G-10 be "Cold" when firing AT missiles to eliminate the possibility of a break in the wire command link by exploding ordnance, and causing a "Lost" round.

RECOMMENDATION:

The establishment of firing positions at pre-selected sites along the unimproved road should satisfy the needs of this training evolution. These sites could be selected at points offering good visibility of the impact area and minimum EOD work. Clearly marked, cleared areas, would allow gunners to move off road to acquire/shoot. Backblast areas for all weapons would require the column be halted, with sufficient break between vehicles to allow for applicable backblast safety area.

To prevent the loss of an AT missile by indirect fire interference, it is recommended that one of three proposals be adopted.

1. Providing that firing points are established, a "Gun-Target" line for AT weapons could be coordinated with supporting battery, to ensure artillery unit engaged targets/coordinates that would minimize the possibility of interference with AT missiles.
2. Unit firing AT weapons coordinate with firing battery to shoot "front door-back door" type missions, to prevent simultaneous impact into G-10.
3. Check fire all units while AT weapons are firing into G-10. Proposals are listed in order of desirability.



ITEM: Small Arms Fire into G-10 Impact Area. Small Arms Defined as .50 Cal Machine Gun, M60 Machine Gun, M16 Rifle, M203 Grenade Launcher.

DISCUSSION:

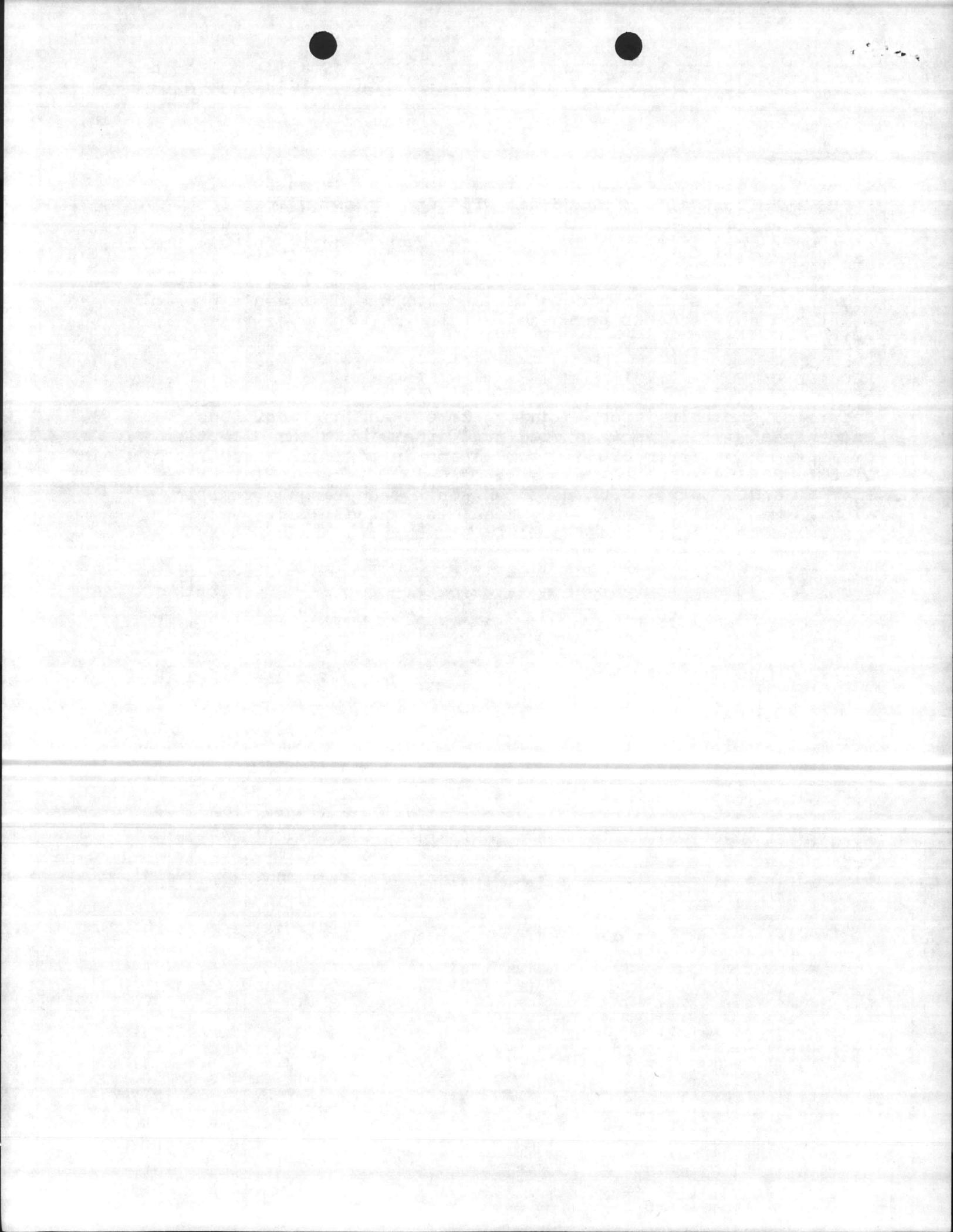
Current range regulations do not address small arms fire into G-10. The .50 caliber range fan will encompass an area from north/south grid line 89 to north/south grid line 95, south to east/west grid line 30. This is more than adequate for all small arms.

The M203 grenade launcher poses a problem in that it leaves a "sensative", small, hard to see dud. These duds would present a future hazard to EOD personnel working for whatever reason in G-10.

RECOMMENDATION:

Secure all training areas, landing zones, and gun positions encompassed by the above stated grid lines, with the exception of Marines road from 890337 to OP-5 and Sneads Ferry road from OP-5 to 890350. On the west side of G-10. Secure all traffic from triangle outpost intersection south, and reroute traffic along Lyman Road, Sneads Ferry Road, to Marines Road. Secure Onslow Beach Road to traffic during time firing is being conducted into G-10.

Determine with EOD personnel what type rounds could be fired from the M203 without creating a threat to future EOD operations in G-10, and probably exclude HE.



ITEM: Anti-Tank/Small Arms Weapons Fire into G-7, G-5A and G-5 Ranges.

DISCUSSION:

Machine Guns and tank main guns are cleared for fire on G-5 and G-7, Tank main guns on G-5A.

The firing of Anti-Tank weapons on these ranges will require special consideration for tower guards and boat crews in the event of a "Lost" missile.

On G-5 range, HE rounds are to be fired at Browns Island only, beyond maximum range of M-47 DRAGON.

G-5 and G-5A cannot be hot concurrently.

There is a lack of adequate targets within range of M203/M72 launchers. The short maximum range of these weapons could result in damage to target moving systems and also a "close-in" dud problem on all ranges.

Firing wire command weapons over water could possibly create a problem.

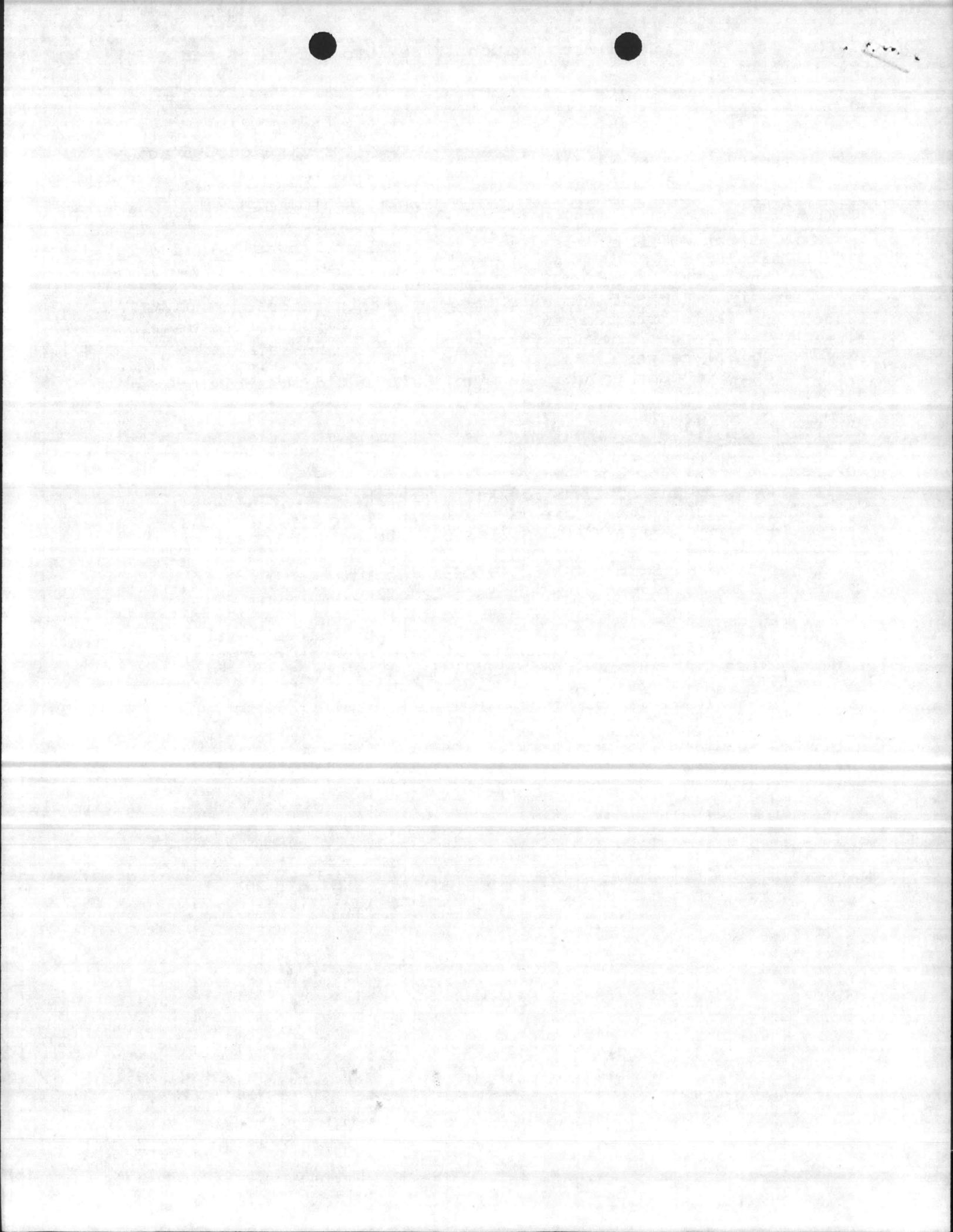
RECOMMENDATION:

To ensure safety for boat crews and tower guards, establish definitive azimuths of fire for Anti-Tank weapons. Exclude M-72/M203 launches from fire on these ranges.

On G-5 range, fire TOW missiles only to ensure impact on Brown Island.

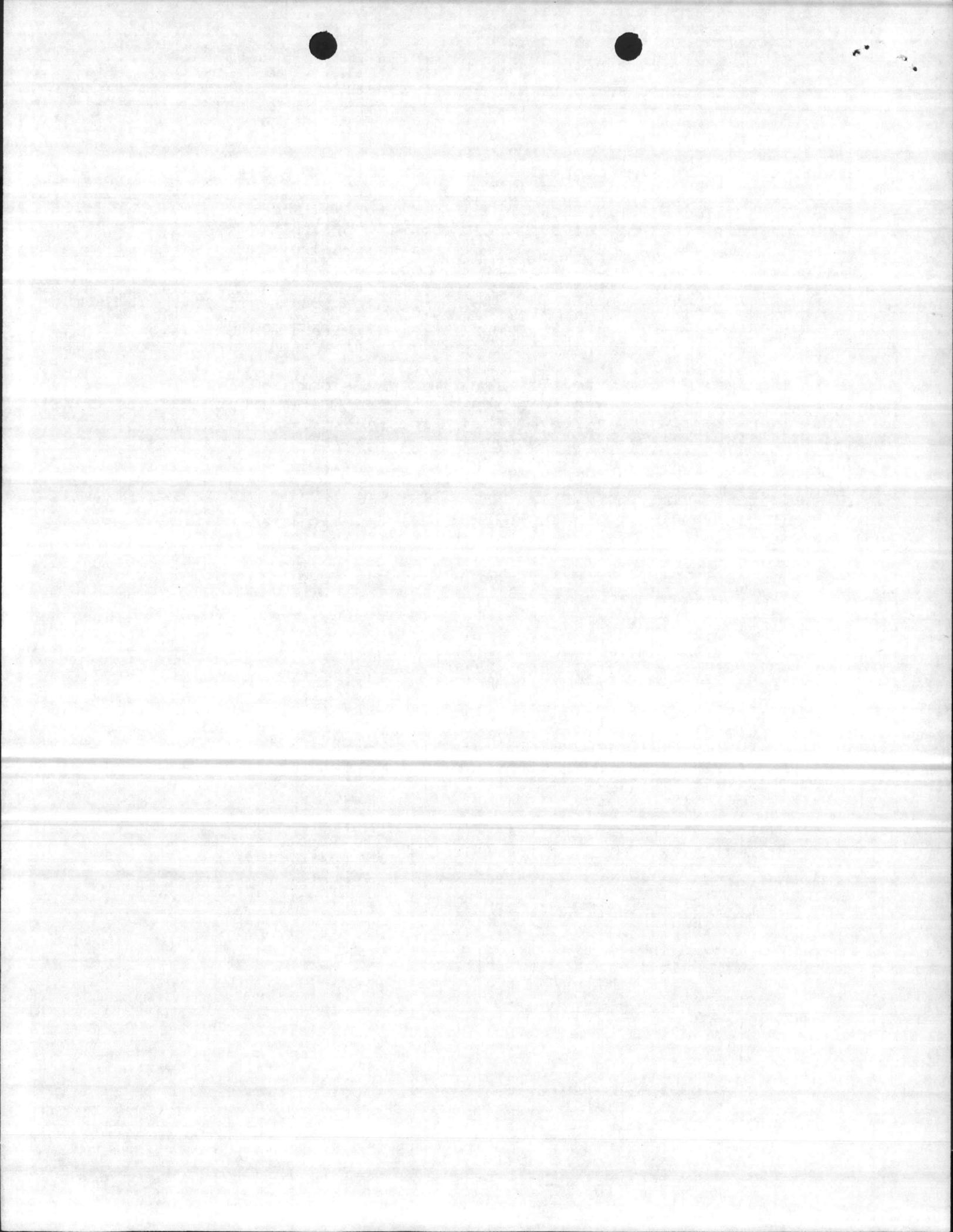
To achieve maximum use of G-5/G-5A, coordinate fires to clear head of column hot on G-5 as rear of column goes cold on G-5A.

In the event a AT missile were lost in the water, without detonation, conduct cursory search of general area by range boat. A check with TOW company indicated a missile would almost certainly sink, causing no problem for boaters.



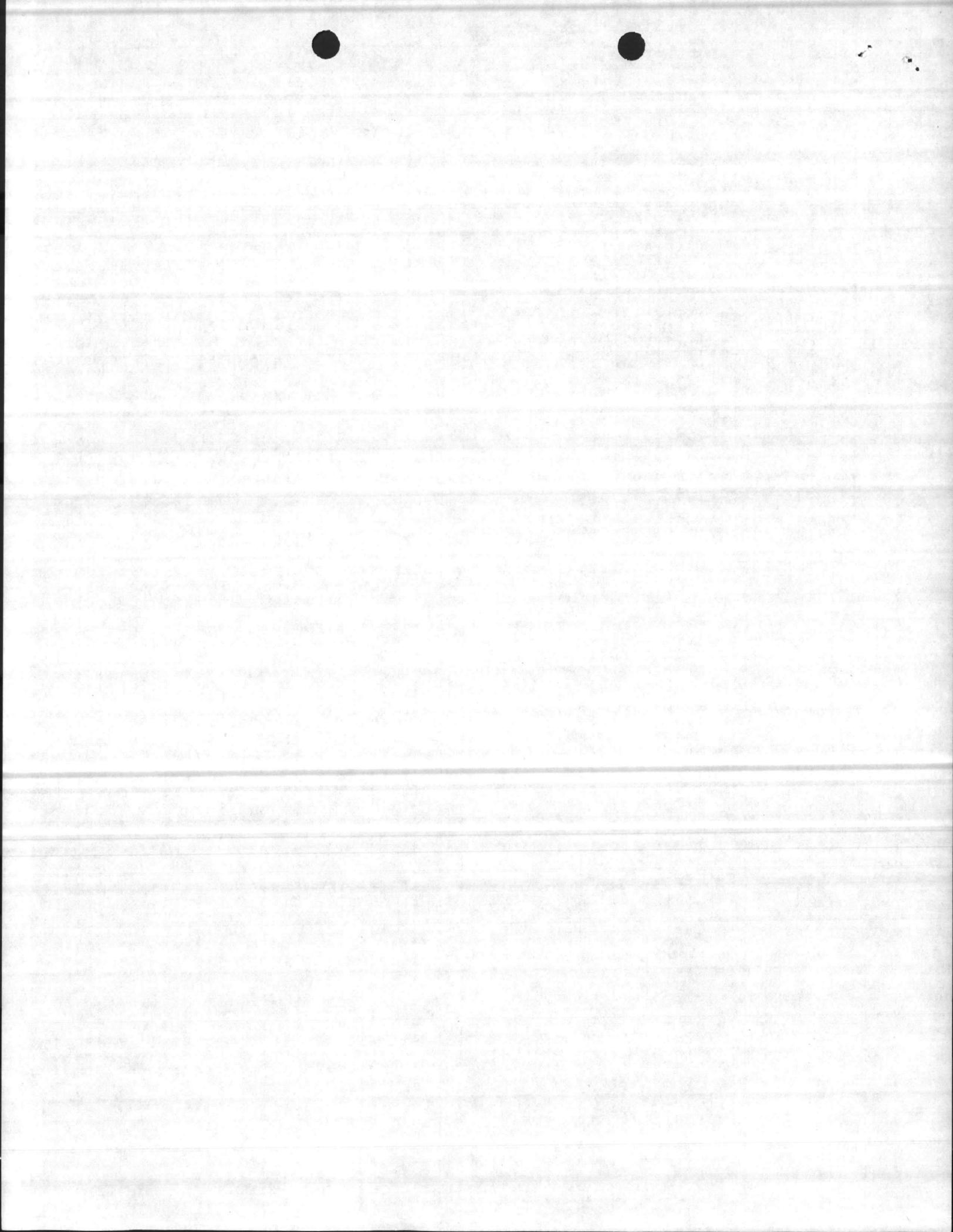
CONFLICTS FOR LIVE FIRE RANGES

1. Maneuver through buffer zone will require range sweep.
2. Range regulations do not currently address small arms or Dragon fire into G-10 impact area. M203's may present a problem, duds are hard to find, and would present a hazard to IOD personnel doing future sweeps of the impact area.
3. F-3 range presents no problem as envisioned. If small arms fire from maneuvering LV's is a consideration, this could be a problem.
4. G-7 range regulations do not allow for the shooting of AT weapons (currently). A consideration for firing AT weapons at all "C" ranges is the location of Boat Crews and tower guards. Strict guidelines would have to be set to allow for lost missiles in vicinity of guards.
5. G5-A does not currently allow for small arms or AT weapons. Range regulations require that G-5 be secured while G-5A is firing, and vice versa.
6. G-5 does not currently allow for AT weapons fire; and either G-5 can be active but not both 5 and 5a.
7. Range Fan's for .50 cal would require rerouting of 172 traffic up Marines roads to Sheads Ferry road to 24. unless 172 road could be secured only long enough to allow maneuvering elements crossing time. Exit from Onslow Beach would need to be restricted.
8. Currently G-10 fires are totally checked during TCG shoots to prevent lost missiles due to command link breakage by Artillery/Mortar fire. How will this effect a combined shoot?



FIRE AND MANEUVER RANGEG-10 IMPACT AREA

<u>WEAPON</u>	<u>UNIT</u>	<u>DISTANCE</u>
M16A1 Rifle		2800m
M203 40mm Grenade Lchr		400m
M72 LAW		250m
M60 Machine Gun		3800m
M1911A1 .45 Pistol		1650m
M47 Dragon		2070m
M220 TOW		4400m
M85 .50 Cal Machine Gun		6800m
M60E2 Coax .50 Cal MG		3800m
M60D		3800m
60mm Mortar		N/A
81mm Mortar		N/A
105mm How		N/A
155mm How		N/A
20mm Cannon		N/A
2.75" FFAR		N/A
5" FFAR		N/A



9. TOW and DRAGON fired into BT-3. leave their wire across the Inter Coastal Water Way. It will be necessary to retrieve these wires in order to minimize subsequent hazard and potential damage to civilian craft moving on the Waterway.

10. It will be necessary to confirm the zero of tank main gun prior to commencing live fire of main gun in a mechanized mode.

11. The safest sequence of training for all personnel will be to brief, then conduct a Sand Table Exercise, then conduct a rehearsal of the actual movement with all hands without live fire being authorized, and finally to conduct the live fire movement. This will probably mean dedicating one day to each half of the proposed live fire mechanized exercise.

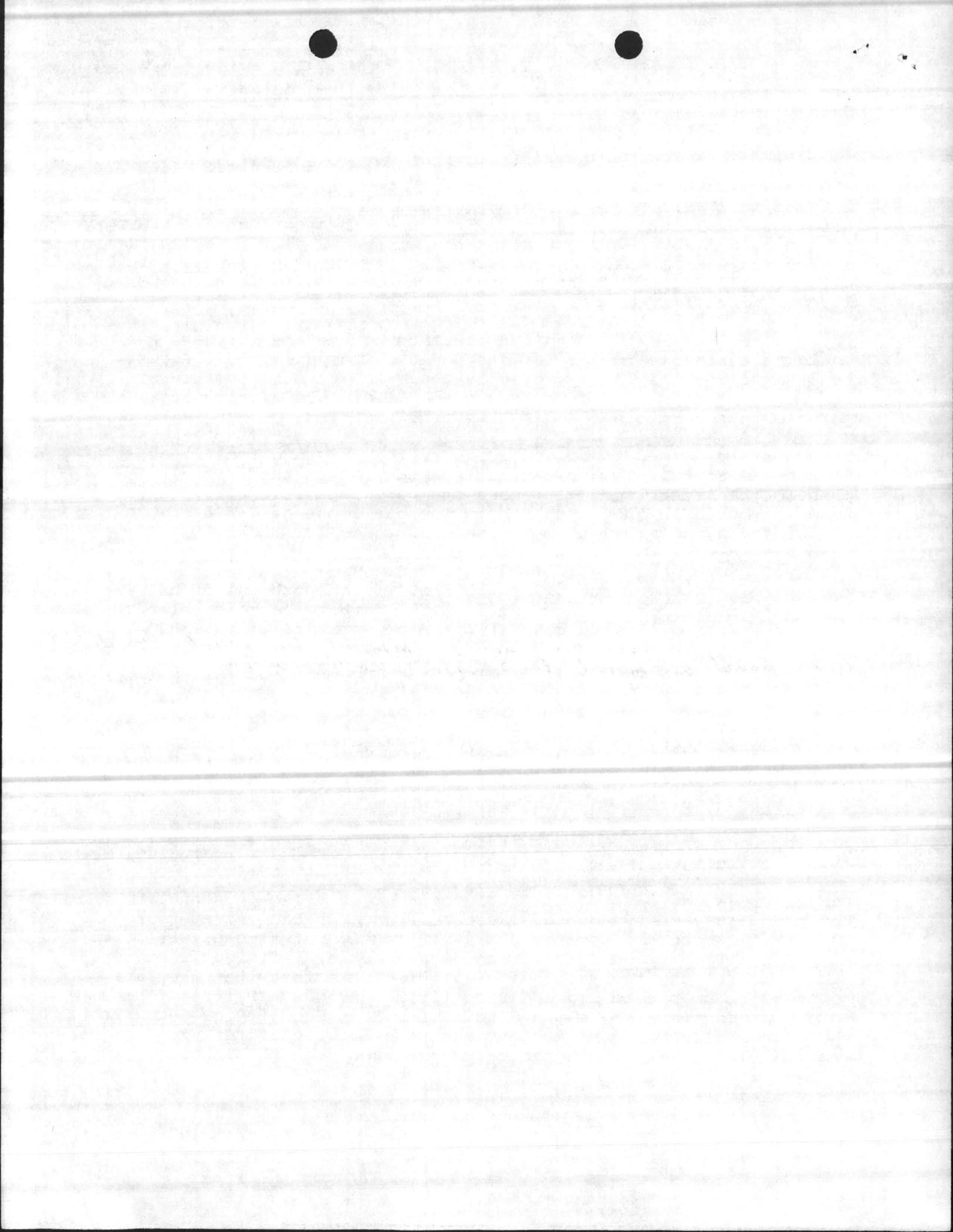
12. The earliest dates when the elements of the 6th Marines would be available to participate would be the week of 30 August to 3 September. This is viewed as a pre-CAX training period by the Regiment and would give much needed live fire opportunity for elements participating in this fall's CAX's.

13. There is a need to be sensitive to the existing facilities at the G-4 range. If 50cal fires are to stay in the initial phase of the exercise (G-10) then the buildings at G-4 will have to be hardened on the north side. The buildings at G-4 are at 919327 and also fall within the safe distance for the M-60 machine-gun.

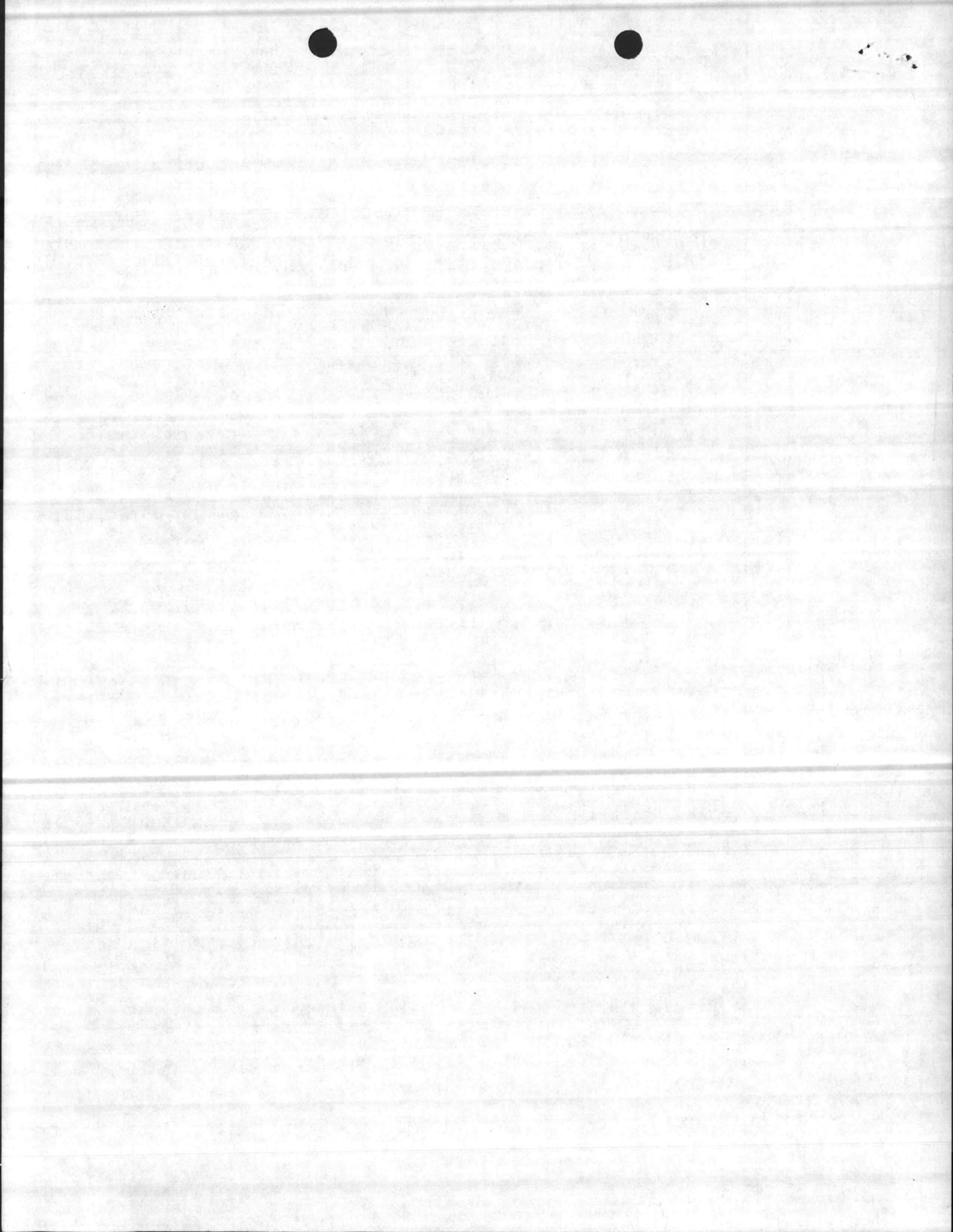
14. There is a tower at 901321 which is within both cal 50 and 7.62 safe distances. Determination will have to be made relating to whether this facility can withstand potential impacts from these rounds. *A tower could not be manned for forest fire detection. It should be moved to a safe "new" location*

15. The conduct of the second phase of the live fire exercise will necessitate the closing of the Inter Coastal Waterway for periods of two to three hours. This can be accomplished through a notice Mariners, however, there is a general feeling that there is a need for additional control boats in the waterway and a tight handle on movement in this area in order to ensure that no civilian casualties to persons or property occur.

16. The conduct of the first phase of the live fire exercise (G-10) will require the blocking of the bridge to keep people and automobiles out of the area south of the G-10 within the unsafe down range distances. Essentially this means that those personnel on the beach stay on the beach. Reconnaissance Bn has agreed that this can be accomplished for their personnel, but a means will have to be identified to notify dependents and other individuals who are making use of the recreation facilities of the fact that they are going to be unable to leave during firing periods. Further from a safety standpoint either the Special Services Facility or Recon Bn should guard range control's frequency in the event there is a requirement to conduct an actual medical evacuation from that area.



17. Realistic tactical control as close to what would exist in a combat environment will have to exist to exercise the Battalion command element. It would be possible to conduct this live fire exercise in either phase in conjunction with a fire support coordination exercise, or as a portion of the mech-counter mech package, provided that the controlling Battalion headquarters is able to provide time separation between these events and other portions of either of those evolutions. It is not felt that this live fire exercise can be properly supervised as a concurrent evolution with the other portions of either of these training packages going on as they are currently being conducted. OP-2 Bunker facility should be used in conjunction with both phases of this exercise



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MAR 31 00 26z79

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FM CMC WASHINGTON DC

TO RUHQHQA/CG FMFPAQ

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RUEBJMA/CG MCDEC QUANTICO VA

RUCLWAB/CG MCLB ALBANY GA

RUCLFVA/CG FOURTH MAW MARTI

RUWDSAA/CG MCRD SAN DIEGO CA

RUCLNRA/CG MCRD PARRIS ISLAND SC

RUWJDFC/CG MCB CAMP PENDLETON CA

RUCLFVA/CG FOURTH MARDIV

RUWJFAA/CG MCLB BARSTOW CA

RUEOAI2/COMCABEAST CHERRY PT NC

RUCLERA/CG MCB CAMP LEJEUNE NC

RUWJNKA/CG MARCORAIRDCBTEN TWENTYNINE PALMS CA

BT

UNCLAS //N03501//

CIVILIAN ENCROACHMENT ON MILITARY TRAINING AREAS (CODE OTTU)

A. CNO 290057Z MAR 79 (PASEP)

PRIORITY

PAGE 2 RUEACMC0377 UNCLAS //N03501//

1. REF A IS CNO REQ FOR INPUT UPON WHICH TO BASE REPLY TO CONGRESSIONAL INQUIRY ON CIVILIAN ENCROACHMENT ON MILITARY TRAINING AREAS.
2. REQ ADEES COMMENT ON QUESTIONS ADDRESSED IN REF A. ADDITIONALLY, ANY INFO CONCERNING ENCROACHMENT PRECIPITATED AS A RESULT OF ENVIRONMENTAL PROTECTION MEASURES AND/OR ENDANGERED SPECIES ARE ALSO INVITED.

3. REQ RESPONSE BY 16 APR 1979. NEGATIVE REPORTS REQUIRED. POC HQMC IS COL F. RINEY (CODE OTTU), AVN 224-1968/2032.

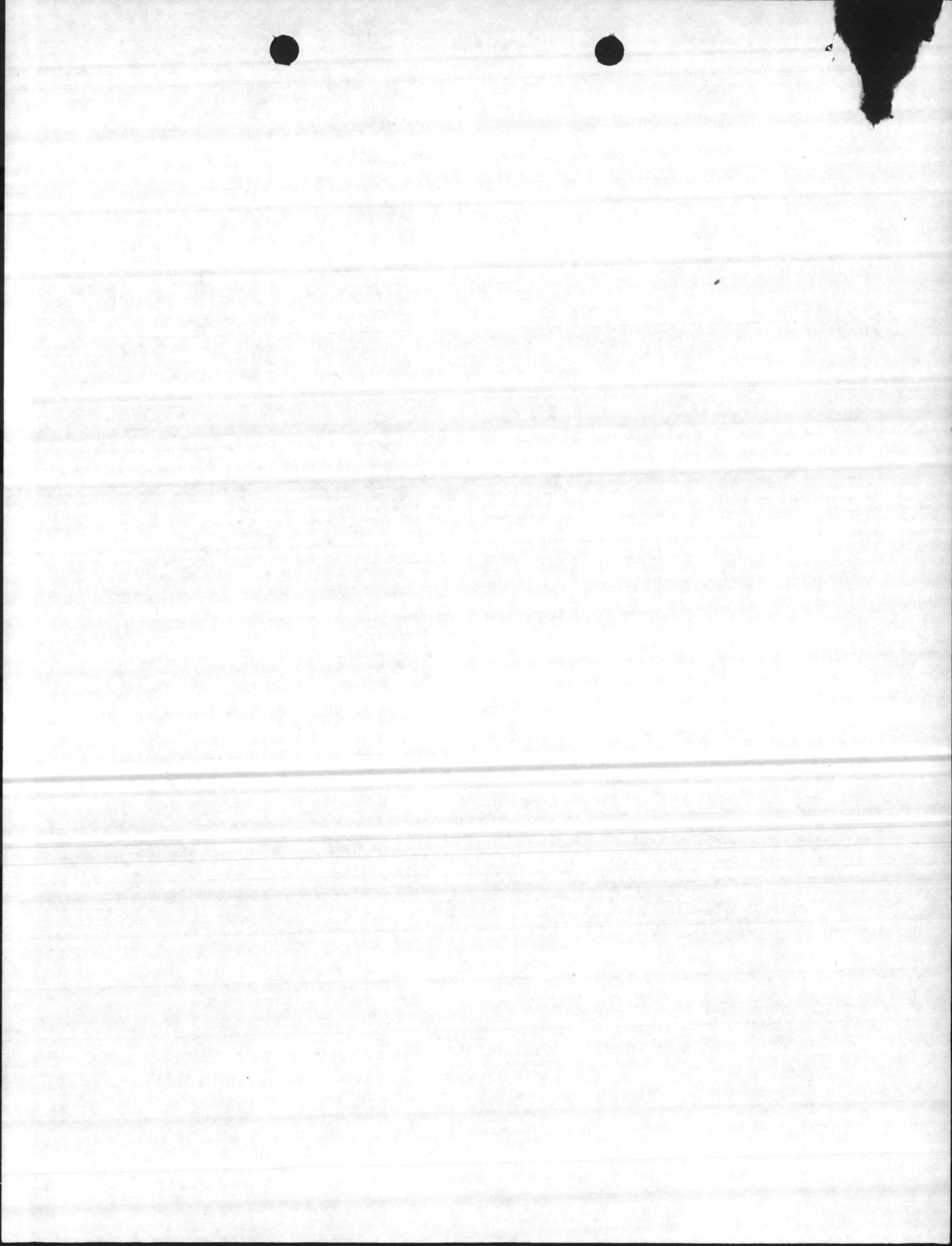
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ACT: TRNG

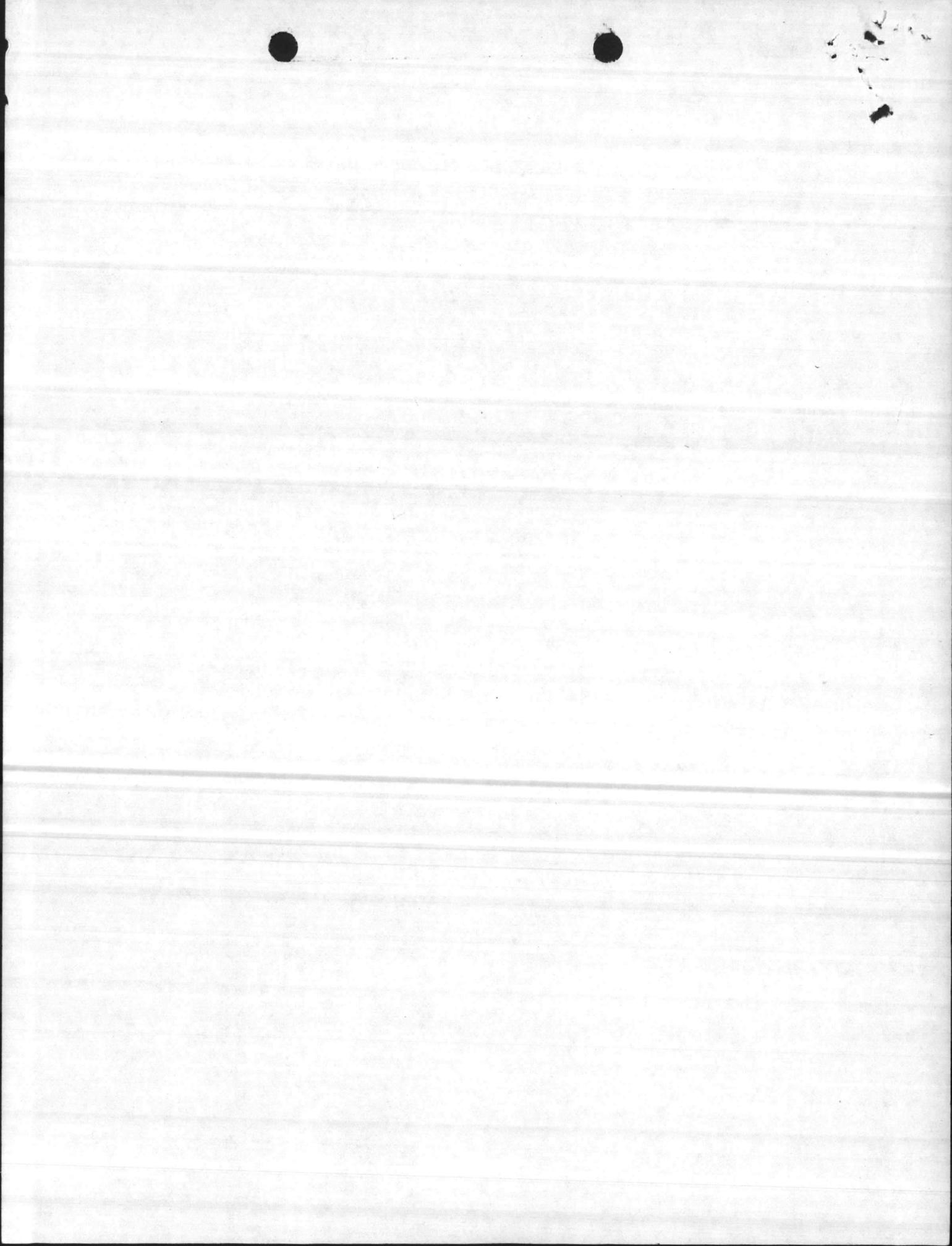
NNNN











APR 1 1979

ACTION

INFO

INITIAL

BMO			
ABMO		✓	OK
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF	✓		
SECRETARY			
F&A BRANCH			
UMACS			
MME			

Julian,  
 The only two areas ~~of~~ of which  
 I am aware are Turtles  
 & Woodpeckers. Do you know  
 of others? Need answers  
 soonest. OK



Faint, illegible handwriting at the bottom of the page, possibly including the words "The end of the world" and "I am sure our children".

ASSISTANT CHIEF OF STAFF, FACILITIES  
HEADQUARTERS, MARINE CORPS BASE

DATE 790411

TO:

[ BASE MAINT 0 ]

DIR, QUARTERS & HOUSING

PUBLIC WORKS 0

DIR, BOQ/BSQ

COMM-ELECT 0

BASE FIRE CHIEF

MOTOR TRANSPORT 0

ATTN: \_\_\_\_\_

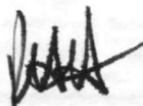
① Attached is forwarded for ~~info~~ action.

*SJA Comments attached.*

② Please ~~initial~~, or comment, and return all papers to this office.

*Response to CMC msg 302343Z Mar  
due ASAP. This is 2<sup>d</sup> request.*

3. Your file copy.



"LET'S THINK OF A FEW REASONS  
WHY IT CAN BE DONE"



11/10/11

11/10/11

11/10/11

MAIN/JIW/th  
11000  
12 Apr 1979

Base Maintenance Officer

Assistant Chief of Staff, Facilities

Civilian Encroachment on Military Training Areas

Ref: (a) CMC msg 302343Z Mar 79

1. Reference (a) has been reviewed by Natural Resources and Environmental Affairs Division and it has been concluded that only two environmental encroachment situations exist; namely the Red-cockaded Woodpecker and the Atlantic Loggerhead Sea Turtle.

B. W. ELSTON  
Acting



5420/2  
FAC

From: Chairman, Environmental Enhancement/Impact Review Board  
Subj: ENVIRONMENTAL ENHANCEMENT/IMPACT REVIEW BOARD; MINUTES OF  
14 AUGUST 1984

Ref: (a) BO 11015.2G

Encl: (1) Dir, NREA ltr 11000/4 NREAD of 23 Jul 84  
(2) EOD Off ltr 11000 EOD of 26 Jul 84  
(3) USACOE ltr SAWCO-EP of 6 Aug 84  
(4) PEA - Improvement of K-2 Impact Area (Amended)  
(5) PEA - 8th Engineer Support Battalion Parking Lot

1. In accordance with the reference, a meeting of the subject Board took place at 1430, 14 August 1984, in the Conference Room of Building 1. The following personnel were in attendance:

Col M. G. Lilley, AC/S, Fac	Chairman
Col J. A. Speicher, AC/S, Trng	Guest
LtCol K. Steen, 10th Mar	Member(rep 2d MarDiv)
Maj R. G. Duvall, 2d LAVBn	Guest
Capt D. Cerveny, 2d FSSG(G-4)	Member
Capt M. D. Doman, OSJA	Guest
1stLt S. D. Glass, BFac	Guest
1stLt B. Redmond, RgContro	Member
CWO-2 J. W. Howington, 8th Engr	Guest
MSgt D. L. Lecher, BEOB	Guest
Mr. R. E. Alexander, EnvEngr	Advisor
Mr. F. Cone, A/BMaintO	Member
Mr. C. D. Peterson, BWildlifeMgr	Advisor
Mr. E. L. Rouse, PubWks	Member
Mr. D. Sharpe, BEcologist	Advisor
Mr. E. P. Smith, BSaf	Advisor
Mr. J. Wooten, Dir, NREA	Advisor

2. Enclosures (1) and (2) were distributed for review by Board members. The Preliminary Environmental Assessments (PEA) listed in enclosures (4) and (5) were reviewed with disposition as follows.

a. PEA - Improvement of K-2 Impact Area. The proposed project was identified on an area map. Necessity for the project and proposed modifications were provided by LtCol Steen and Lt Redmond. Clearing the impact area will enable tactical units to gain maximum training on their weapons whereas now they are handicapped by limited visual observation. The project now covers approximately 900-1,000 acres which is larger than the project concurred with by the Environmental Board on 12 April 1984 and approved by the Commanding General. Consequently,

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Subj: ENVIRONMENTAL ENHANCEMENT/IMPACT REVIEW BOARD; MINUTES OF  
14 AUGUST 1984

enclosure (4) contains an amended PEA to reflect the larger project. The Board agreed to further amend enclosure (4) by these minutes to state that a 200-foot wide strip would be left undisturbed along the river shoreline to act as a screen for exploding ordnance, to ensure preservation of the river's edge, maintain the aesthetics along the river, and to reduce the potential of controversy. The option to later remove trees from this strip will require another PEA and be handled as a separate project. Additionally, the buffer is to be extended along the tributaries feeding into New River. The sale of timber was discussed and was not considered an environmental issue, therefore it will be settled separately. The following environmental issues were discussed:

(1) Erosion Control: Permanent grasses will be established to control erosion. Drainage ditches are planned to enable future maintenance by controlled burning. The U.S. Army Corps of Engineers representatives visited the base on 18 July 1984 to review the proposed clearing and drainage involved. By enclosure (3) the Corps of Engineers advised the project can proceed because the planned drainage is covered under a nationwide permit. Mr. Sharpe expressed concern for the effect that clearing the area and felling trees will have on stormwater runoff. Several miles of open ditches concerned him in that the ditches going across are on fairly steep land and will erode, thereby potentially discharging sediment into the sound. Further, he stated approval of a Sediment Control Plan by the State of North Carolina was required. Capt Doman stated he felt it was a matter of interpretation; the jurisdiction of the State Sediment Control Act excludes uniquely military projects and there is no requirement for approval by the State for a Sedimentation Control Plan.

(2) Endangered Species: The American Alligator is present in Whitehurst Creek and a Red-Cockaded Woodpecker nesting site has been found nearby on Range K-303, but outside boundaries of this proposed project. Mr. Wooten stated his position is that the presence of these endangered species requires formal consultation with the U.S. Fish and Wildlife Service. Mr. Wooten further stated no mention was made in the PEA of other game animals in that area and predicted the issue would become controversial. Col Speicher and Mr. Alexander disagreed. Capt Doman's legal opinion is the Endangered Species Act only requires consultation when "critical habitat" of an endangered species is affected. Because the Red-Cockaded Woodpecker habitat is outside the project area and has not been designated as critical habitat, the SJA advised the Base is not required to enter consultation.



Subj: ENVIRONMENTAL ENHANCEMENT/IMPACT REVIEW BOARD; MINUTES OF  
14 AUGUST 1984

(3) Archaeological: Mr. Wooten recommended the State be consulted since the project area was shown as being part of an archaeologically sensitive area based on computer predictions from a 1981 survey. The PEA states if evidence of historical significance/interest is found, construction will be suspended immediately pending further study.

Following a summation of issues by the Chairman, the Board agreed with the conclusion of the PEA that the proposed improvements for the K-2 Impact Area will not result in significant environmental impact provided the measures described herein are followed and a 200-foot strip along the river shoreline is left undisturbed. Further, the project is not considered controversial, thus, preparation of an Environmental Assessment per MCO 6280.5 is not required. The Board recommended approval of enclosure (4) as modified herein.

b. 8th Engineer Support Battalion Parking Lot: Additional parking space is urgently needed to store medium girder bridge components. Most of the area to be cleared, adjacent to FC-816, has only small scrub trees but there is a possibility of letting a contract to harvest the timber. The Board recommended approval of the project with the stipulation as many trees as possible be left as a buffer zone for future construction in that area. The project will not result in significant environmental impact, is not considered controversial, and an Environmental Assessment is not required. The Board recommended approval by the Commanding General.

3. The following correction should be made to the Environmental Board minutes of 6 August 1984. The cover sheet for enclosure (1), Construction of Tracked Vehicle Trail from Rhodes Point to TLZ Cardinal, gives the Natural Resources and Environmental Affairs Division (NREAD) credit for preparation of the PEA, which is incorrect. NREAD provided information for the PEA but did not prepare it. Also, the cover sheet makes reference to MCO P11000.8A which has been superseded by MCO P11000.8B.

4. The meeting adjourned at 1605. The next meeting will be held at the call of the Chairman.

M. G. LILLEY

1960

the board of directors  
of the corporation  
has approved the  
following resolution

Resolved, that the  
board of directors  
of the corporation  
do hereby authorize

the president of the  
corporation to execute  
and deliver to the  
proper authorities  
all such documents  
and instruments as  
may be required  
in connection with  
the above

in witness whereof  
I have hereunto  
set my hand and  
the seal of the  
corporation this  
first day of

January, 1960

at New York, New York

John Doe, President

Subj: ENVIRONMENTAL ENHANCEMENT/IMPACT REVIEW BOARD; MINUTES OF  
14 AUGUST 1984

DISTRIBUTION:

(Members)

Rep, 2d MarDiv(G-4)  
Rep, 2d FSSG(G-4)  
Rep, 6th MAB(G-4)  
Rep, MCAS(H),NR(S-4)  
TFACO  
BMO  
PWO

(Advisors)

Dir, NREA  
BEcologist  
BWildlifeMgr  
BGameProtector  
SAFD  
SJA  
DPDO  
Ch, VetMedSvc  
Ch, Occup/PrevMed

-----  
- APPROVED

DISAPPROVED

CHIEF OF STAFF'S ACTION:

K-2 Impact Area

\_\_\_\_\_

\_\_\_\_\_

8th EngrSptBn Parking Lot

\_\_\_\_\_

\_\_\_\_\_

COMMANDING GENERAL'S ACTION:

K-2 Impact Area

\_\_\_\_\_

\_\_\_\_\_

8th EngrSptBn Parking Lot

\_\_\_\_\_

\_\_\_\_\_

Drafters: H. Foster/B. Alexander/Col Lilley  
Typist: H. Foster FAC



10-1-77

REVERSE SIDE

A G E N D A

ENVIRONMENTAL ENHANCEMENT/IMPACT REVIEW BOARD  
Marine Corps Base  
Camp Lejeune, NC

2 August 1984

I. Call to order

II. Review of Preliminary Environmental Assessments (PEA)

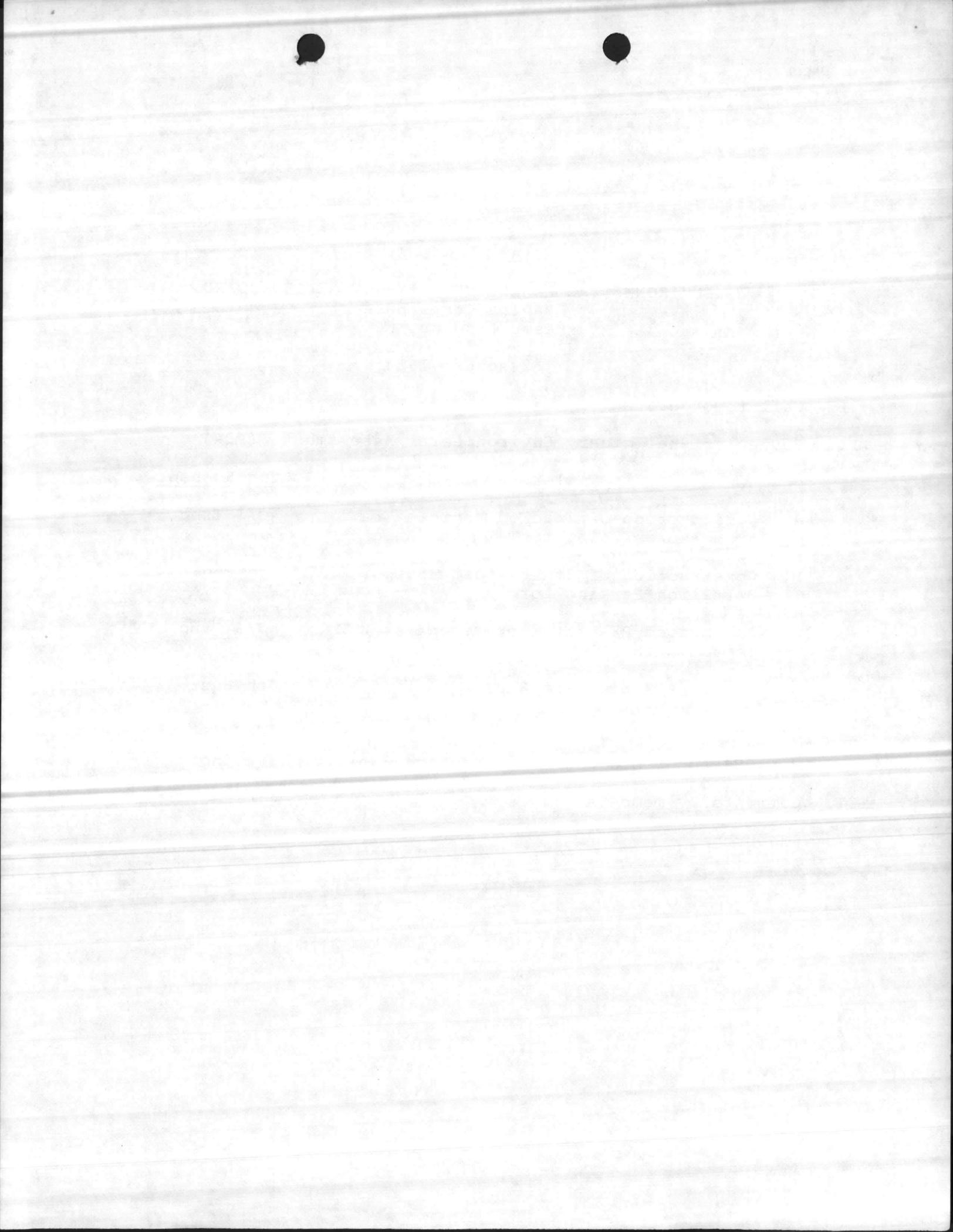
	<u>Title</u>	<u>Action Sponsor</u>
OK	A. Construction of Tracked Vehicle Trail from Rhodes Point to TLZ Cardinal	AC/S Trng
N	* B. Construction of 8th Engineer Support Battalion Parking Lot	8th Engr
	* C. An amended PEA for Improvement of K-2 Impact Area	AC/S Trng
OK	D. PEA for LZ Bluebird Repair	8th Engr
OK	E. PEA for LAV Crew Training	2d LAV Bn
	* F. PEA for Storage and Maintenance Facility	8th Engr

*14 AUG. MEETING WITH ARCH HISTORICAL PERSONNEL*

III. Comments by members

IV. Adjournment

*\* NOT DISCUSSED, POSTPONED UNTIL NEXT MEETING*





**UNITED STATES MARINE CORPS**  
Natural Resources and Environmental Affairs Division  
Marine Corps Base  
Camp Lejeune, North-Carolina 28542

IN REPLY REFER TO:  
11000/3  
NREAD  
27 July 1984

From: Director  
To: Memorandum for the Record

Subj: MEETING/DISCUSSION of PEA

Ref: (a) Mtg btwn Col Lilley, AC/S FAC, and J. Wooten, NREAD,  
at approximately 1730 hours on 23 July 1984  
(b) NREAD ltr 11000/4 NREAD of 23 July 1984  
(c) Chairman, EIRB ltr 5420/2 FAC of 18 July 1984

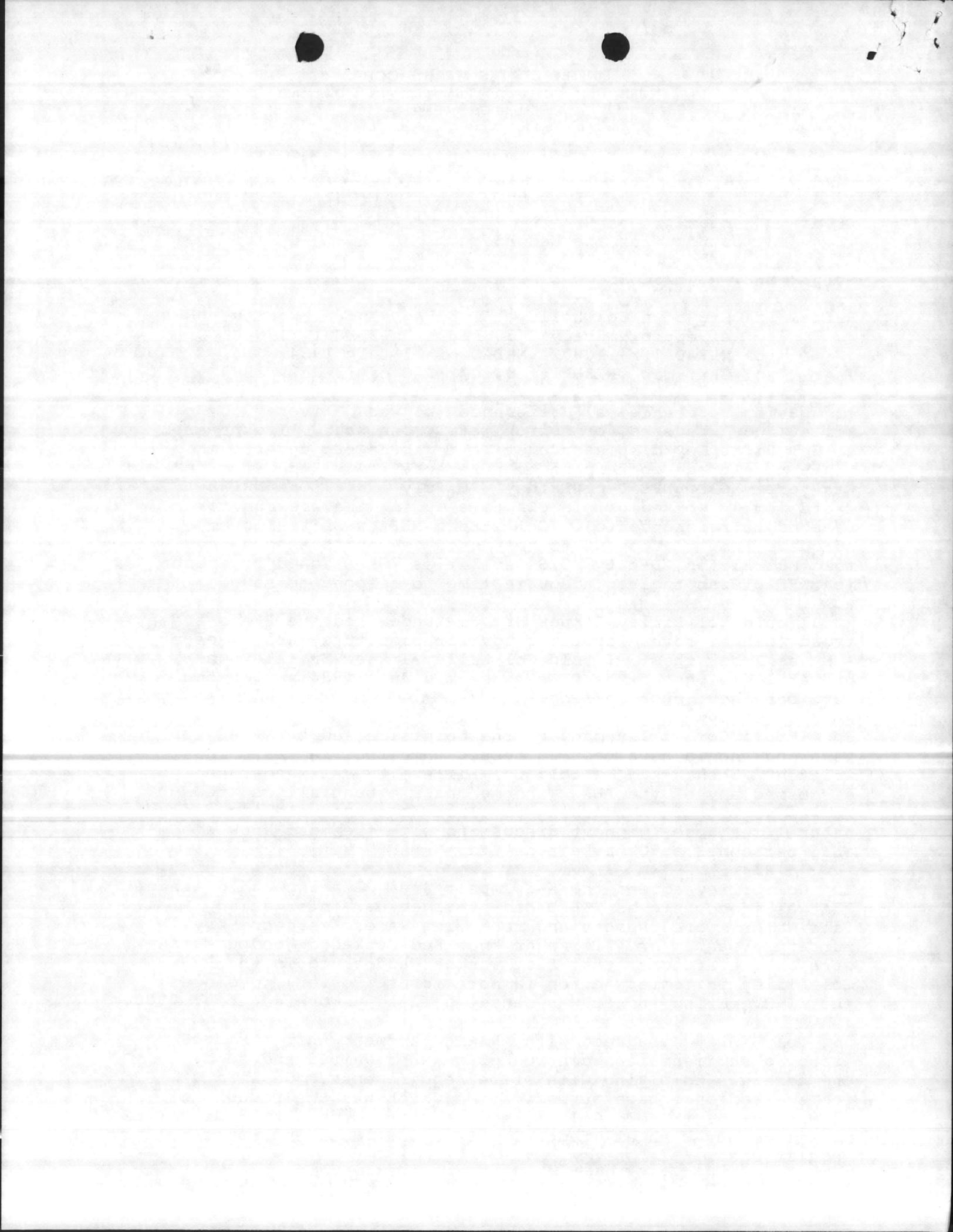
1. During reference (a), reference (b) was delivered to Col Lilley and discussed for approximately one hour. I expressed to Col Lilley my displeasure of having been put under such a tight time frame to respond to reference (c). Reference (c) was received by NREAD on Friday, 20 July 1984. One NREAD staff member worked on his own time during the weekend to respond to reference (c). Col agreed NREA wasn't allowed adequate time to respond to reference (c) and stated he had told Mr. Elston, Deputy AC/S Facilities (who signed reference (c) NREAD wasn't given adequate time to respond to same.

2. I told Col Lilley I knew Mr. Alexander had the PEA's and a typed (final) cover letter ready for signature early Tuesday A.M. as I saw them. I told Col Lilley I knew Mr. Alexander had at least one of the PEAs since mid-June 1984 and it could have been sent much earlier.

3. I told Col Lilley many of the points raised by NREAD could have and should have been addressed when the PEA was being written. When asked, I told Col Lilley, Mr. Alexander had not discussed any of the PEAs with me and I essentially stated he was negligent in reaching conclusions about wildlife and natural resources without discussing with the most knowledgeable personnel at Camp Lejeune (the NREAD staff).

4. Col Lilley agreed the K-2 Impact Area clearing and drainage PEA was inaccurate as NREAD had provided new information (alligators were present and receiving waters were primary nursery areas). Mr. Alexander knew Red-Cockaded Woodpeckers were in the area but that fact was not addressed in the PEA. Col Lilley initiated action (a note to Ms. Foster) to cancel the EIRB meeting and it was canceled Tuesday morning about 0800.

5. Col Lilley disagreed with NREAD statement that a state approved sedimentation control plan was required and said the base was complying with state requirements. He said the state didn't have jurisdiction which was the reason for his position. I told Col Lilley Executive Order 12088 directed MCB to comply with all federal, state and local environmental regulations.



6. Col Lilley agreed that a state approved sedimentation control plan for LAV/Hoffman Forest Training was required. I told Col Lilley the PEA for LAV/Hoffman Forest was vague and difficult to comment on but if the vehicles operated during rainy-wet conditions, road damage and associated erosion/sedimentation could impact on protected wetlands and receiving streams (See 24 July 1984 update).

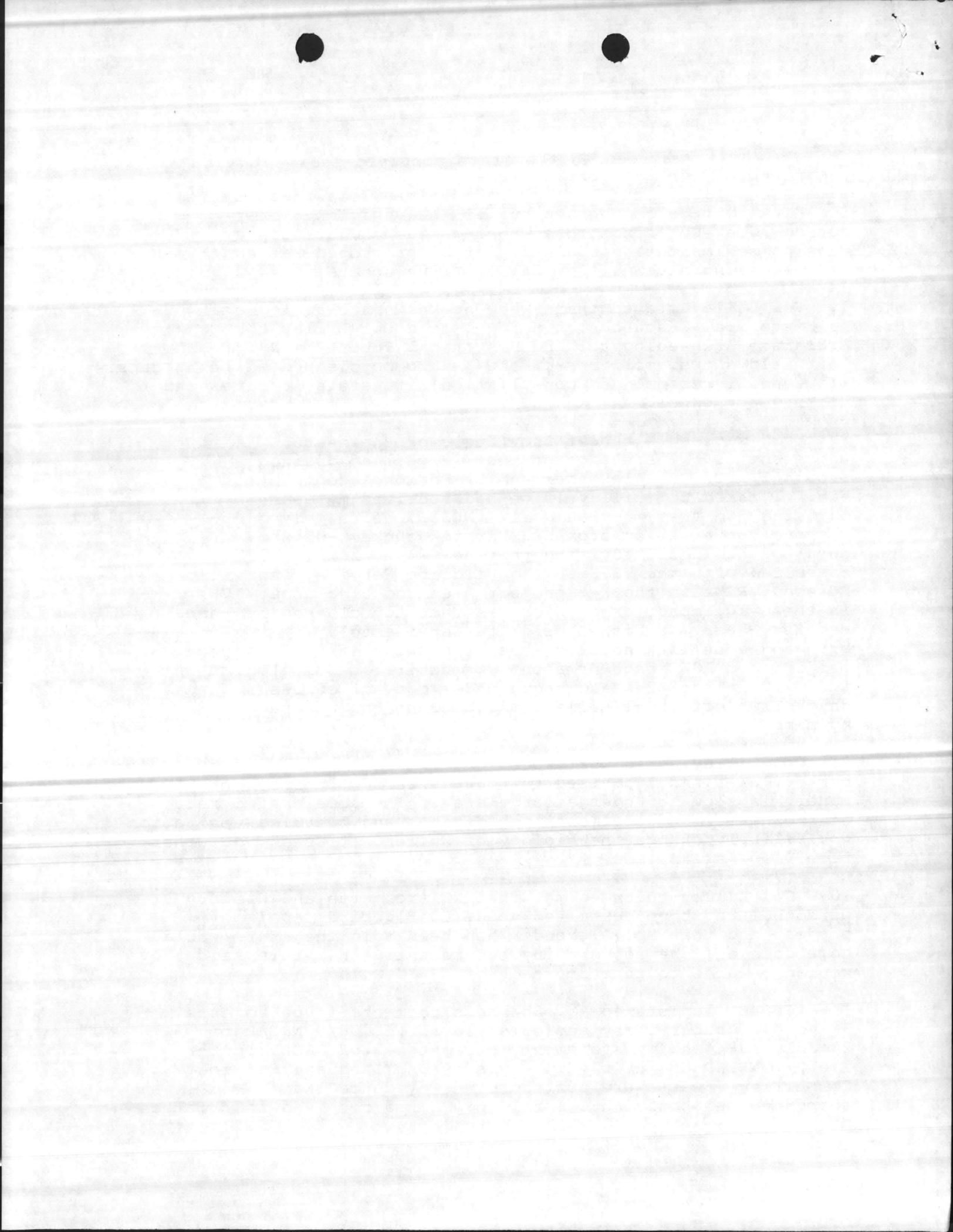
7. Col Lilley stated there were no known Archaeological or Historical Resources in K-2. I told Col Lilley the 1981 Base Archaeological and Historical Report by Dr. Loftfield showed portions of the K-2 to be cleared as being sensitive and I recommended consultation with state Archives and History personnel.

8. We discussed a recent Army Corps of Engineers representative inspection of the K-2 wetland drainage proposal with Mr. Alexander and Lt Redmond accompanying him. I asked Col Lilley if he had received my memo advising him that Mr. Ken Jolly (NREAD) had received a phone conversation from Mr. Earnie Jahnke), US Army Corps of Engineers advising that he (Mr. Jahnke) had consulted with the US Fish and Wildlife Service, Asheville, NC about RCWs in the K-2 project area and also about RCWs in the G-10 impact area which was recently cleared by Base. Mr. Gary Henry US Fish & Wildlife Service told Mr. Jahnke he knew nothing about the K-2 clearing/drainage project and RCW issue or about RCW habitat being cleared in the G-10 impact area and requested a copy of correspondence on the subject. Col Lilley indicated he had not received my memo.

9. Col Lilley asked what would the impact on the primary nursery area and I advised that water currently seeps or runoff is slow and over a large area. The accelerated rate of freshwater and sediment from ditches and clearing vegetation would likely change the biology of Whitehurst Creek and other receiving waters.

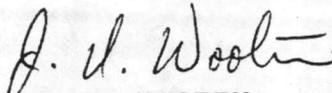
10. Col Lilley informed me that NC Archives and History personnel had been consulted about LZ Bluebird repair project and that Mr. Alexander had been told the state would come down and oversee grading but recently the state said they wouldn't agree to that approach.

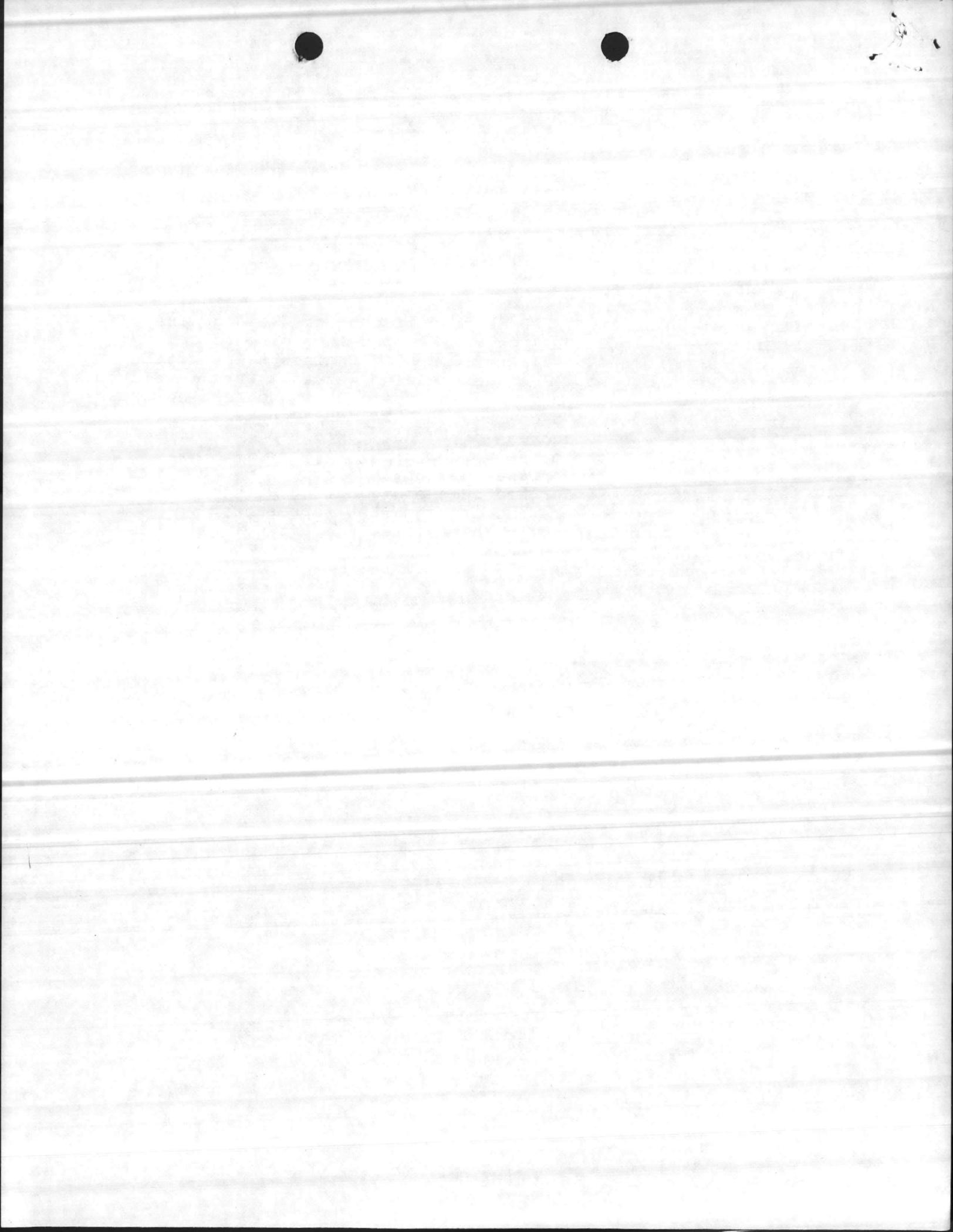
11. Col Lilley stated Mr. Sharpe's comments in paragraphs 3 and 4 of supervisory ecologist letter 11000/5 NREAD of 23 July 1984 and my statement, paragraph 5 of NREAD letter 11000/4 NREAD of 23 July 1984 was strong language. I told Col Lilley I was aware but there was evidence that supported our position. I told him I had received information



from SJA that supported my statement. I reminded Col Lilley of NREAD's written position that prior to any work beginning in the G-10 Impact Area clearing project approved PEA of 30 April 1984 was inaccurate. It should be noted the G-10 impact area clearing PEA stated there would not be any drainage of wetlands and there was no discussion with NREAD at any time or EIRB about drainage of protected wetlands the Army Corps of Engineers addressed officially on 21 June 1984 and pertaining to new tank trail on Jumping Run (made necessary by new G-3 Range) Mr. Alexander stated there was no wetlands involved because there was no marsh which was an inaccurate conclusion.

12. It was at this time NREAD learned of ongoing drainage in protected wetlands in G-10 which was stopped according to Col Lilley by MajGen Fulham until Army Corps of Engineers inspected the work. Again Mr. Bob Alexander said no wetlands were involved. After inspecting the Jump and Run tank trail site and ongoing drainage in the G-10 impact area on 12 June 1984, Mr. Jahnke told Col Lilley the base had "fucked up" by not consulting with the Corps of Engineers prior to the work beginning. Mr. Jahnke advised Col Lilley that a problem had arisen between the two agencies since Mr. Alexander had been coordinating with him. Mr. Jahnke requested the presence of an NREAD representative when he visited Camp Lejeune in the future. I left Col Lilley's office at approximately 1830 hours.

  
J. I. WOOTEN



11000/4  
NREAD  
23 July 1984

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

Subj: Environmental Enhancement/Impact Review Board Meeting  
Agenda for 24 July 1984; comments concerning

Ref: (a) AC/S FAC memo 5420/2 FAC of 18 July 1984

Encl: (1) Comments on Proposed K-2 Impact Area/Drainage and  
Clearing  
(2) Comments on Tracked Vehicle Trail  
(3) Comments on LAV Operations in Hoffman Forest  
(4) Comments on LZ Bluebird Repair Project

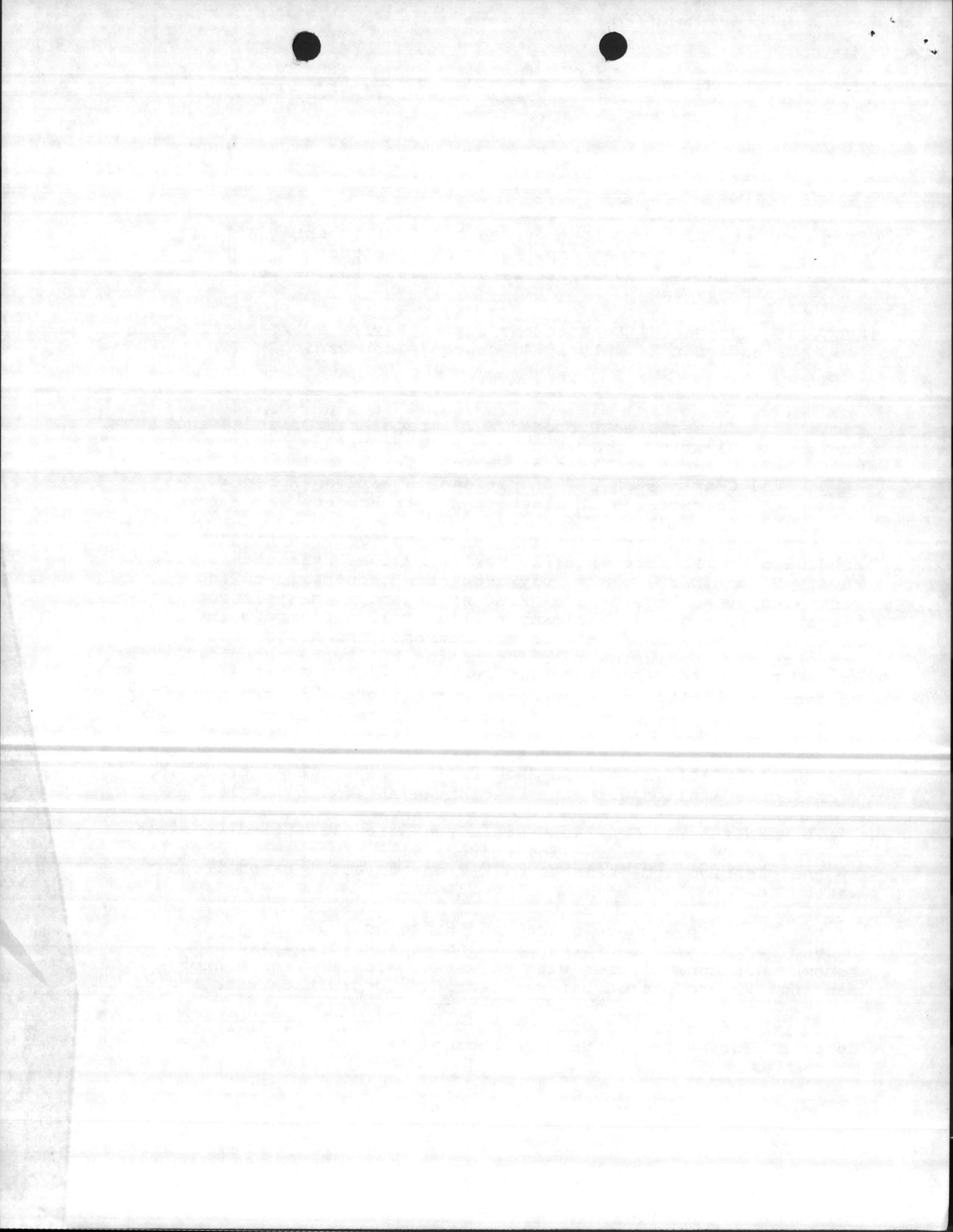
1. Preliminary Environmental Assessments (PEA) furnished and scheduled by the reference for review by the Environmental Impact Review Board (EIRB) on 24 July 1984 have been reviewed and discussed by members of the NREAD staff and comments/recommendations are provided as enclosures (1) - (4). Although there are some minor variations between Mr. Peterson and Mr. Sharpe's comments our conclusion relative to the PEA's are essentially the same. Pertaining to K-2 Impact Area Clearing and Drainage Project, the following issues are not addressed or are not adequately addressed or there are inaccurate statements, i.e.:

a. There are endangered species (Red-Cockaded Woodpeckers and American Alligators) in the proposed project area requiring formal consultation with the US Fish and Wildlife Service.

b. Whitehurst Creek and Mill Creek are classified by state as primary nursery area. These areas will probably be impacted by the clearing and drainage of K-2 due to accelerated fresh-water flow.

c. The Base Archaeological and Historical Survey of 1981 showed part of the K-2 area as being sensitive and it is recommended consultation with the state Archives and History personnel be completed before clearing and drainage work begins.

d. Drainage of K-2 area wetlands requires review by the Army Corps of Engineers before work begins.



Subj: Environmental Enhancement/Impact Review Board Meeting  
Agenda for 24 July 1984; comments concerning

e. File a Federal Consistency Statement with the NC Office of Coastal Management.

f. Submittal of a sedimentation control plan to the state prior to beginning the work in the K-2.

g. In my opinion, outside agencies may consider the K-2 project a major federal action because of impacts on endangered species, wetlands, primary nursery areas and archaeological and historical resources. In my opinion an Environmental Assessment (EA) is required by Headquarters Marine Corps because of both the environmental impact and the potential for controversy.

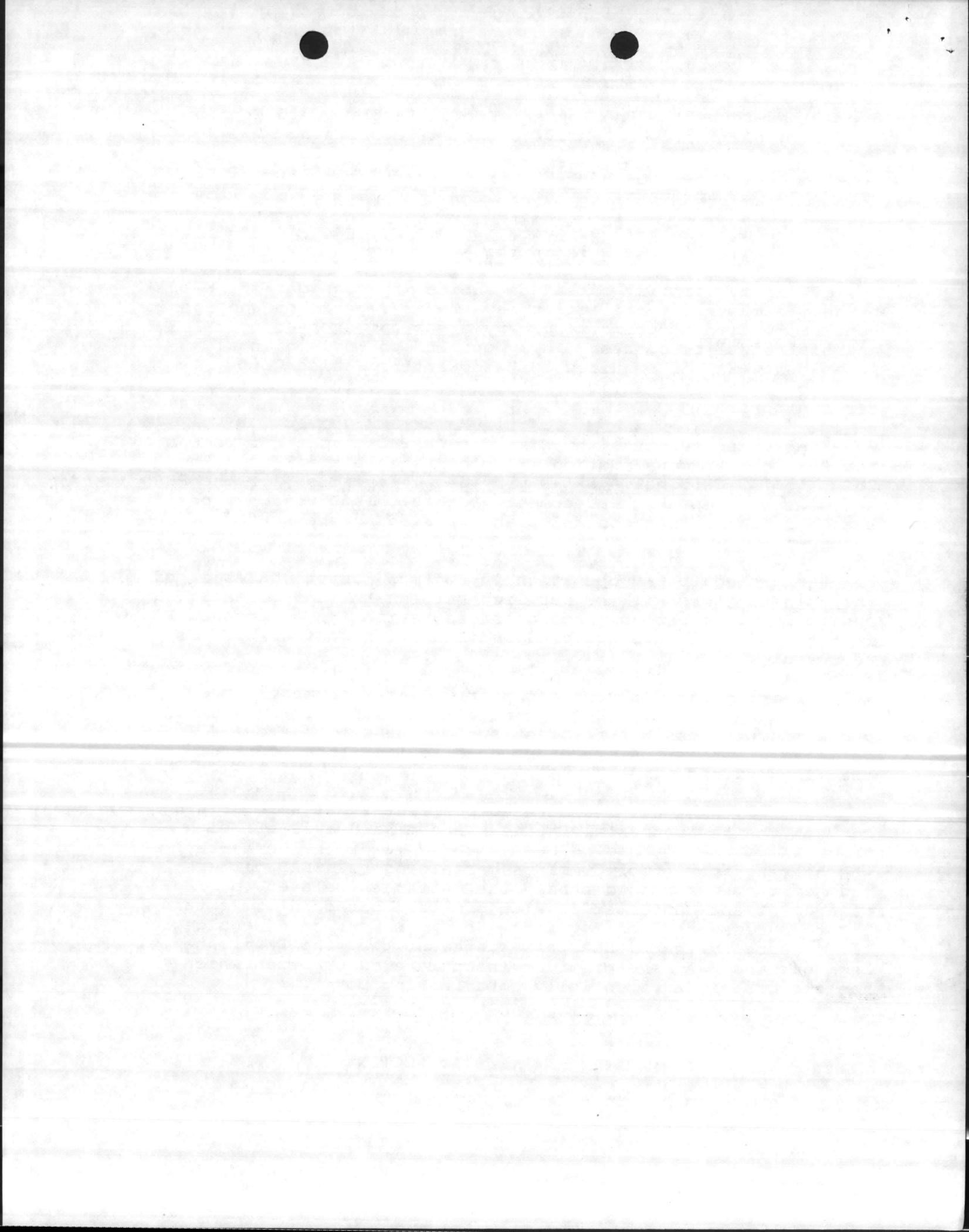
2. The reference gives the Director, NREAD credit for preparing the PEA for the construction of track vehicle trail from Rhodes Point to TLZ Cardinal. NREAD provided information for the PEA but did not prepare the document. It is this Division's position that a sedimentation control plan approved by the state is required.

3. Pertaining to LAV operation in Hoffman Forest, NREAD is of the opinion there will be conflict between LAV and general public use of the area. Headquarters Marine Corps approved EA is required. A state approved sedimentation control plan is required.

4. Pertaining to LZ Bluebird repair, it is recommended base consult with the State Department of Archives and History pertaining to possible artifacts under the matting, as well as adjacent areas. A state approved sedimentation control plan is required.

5. Earlier this year I discussed conflicts that were arising between the Environmental Engineer and me and my staff with you. Also, I expressed concern about some of the comments I was hearing from LtCol Cummings pertaining to NREAD matters and how the base should handle the matter as related to management and consultation with off base personnel. Pertaining to paragraphs 3 and 4 of Mr. Sharpe's portion of enclosure (1), I agree with Mr. Sharpe's statement that the Environmental Engineer and SJA have provided inaccurate information which has the base in a potentially embarrassing position.

J. I. WOOTEN



11000/5  
NREAD  
23 July 1984

From: Supervisory Ecologist  
To: Director, Natural Resources and Environmental Affairs  
Division

Subj: PROPOSED PROJECT TO CLEAR AND DRAIN THE K-2 IMPACT AREA

Ref: (a) Executive Order 11990  
(b) NCAC Title 15, Chap 4, Sedimentation Control  
(c) Endangered Species Act of 1973 as Amended  
(d) MCO P11000.8B  
(e) Chairman, EIRB ltr 5420/2 FAC of 18 July 1984

1. The subject project has the following significant environmental impact:

a. Will cause accelerated rates of discharge of freshwater and sediment to primary nursery areas (as identified by State fisheries regulations).

b. Alteration of several types of wetlands specifically protected by reference (a) by channelization/drainage.

c. Affects the habitat of the endangered species, *Dendrocopos borealis* (Red-Cockaded Woodpecker).

d. May affect the endangered species *Dionaea muscipula* (Venus Fly Trap); several species of *Sarracenia* (Pitcher Plants), and alligator *mississippiensis* (American Alligator).

2. The subject project requires implementation of the following procedural requirements:

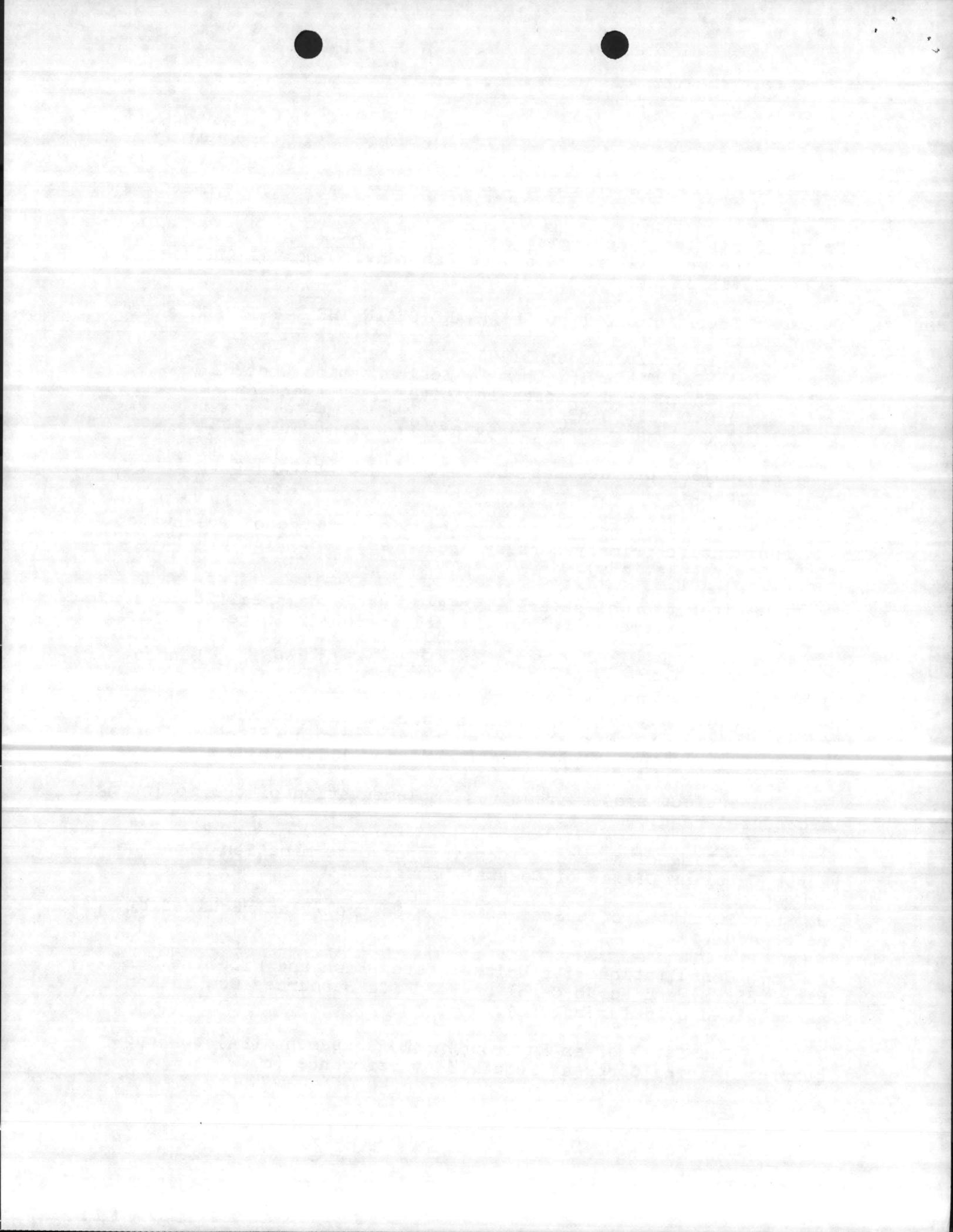
a. Filing of a Federal Consistency Determination with the North Carolina Office of Coastal Management.

b. Submittal of a Sedimentation Control Plan required by reference (b).

c. Consultation with United States Fish and Wildlife Service (USFWS) and North Carolina Wildlife Resources Commission as required by reference (c).

d. Submittal of an Environmental Assessment (EA) to Headquarters Marine Corps as required by reference (d).

ENCL (1)



Subj: PROPOSED PROJECT TO CLEAR AND DRAIN THE K-2 IMPACT AREA

3. The considerations listed in the foregoing are almost the same as those pointed out by NREAD during the Environmental review of the recently completed G-10 Impact Area clearing project. At that time the Environmental Engineer, AC/S Facilities and members of the Staff Judge Advocate's (SJA) office cooperated in refuting the NREAD position. In my opinion, inaccurate information was provided by the Environmental Engineer and SJA which resulted in possible violations of references (a), (b) and (c). It must be assumed that the Environmental Engineer and SJA will take the same position on the subject project. The approach used by the Environmental Engineer and SJA has, in my opinion, seriously harmed previously excellent working relationships between the Base and both the USFWS and the Wilmington District, U. S. Army Corps of Engineers.

4. It is recommended that K-2 Impact Clearing and Drainage Project PEA provided by reference (c) not be put before the Environmental Impact Review Board unless the board members are provided thorough background which includes all of NREAD's comments on both the K-2 and the G-10 project. The Board should also be advised that the Wilmington District U. S. Army Corps of Engineers has made the USFWS aware that the areas of Red-Cockaded Woodpecker habitat in the G-10 have been cleared and that habitat is also present in the K-2 Impact Area.

D. D. SHARPE

Writer: D. D. Sharpe, NREAD 5003  
Typist: J. Cross, 23Jul84, 5003



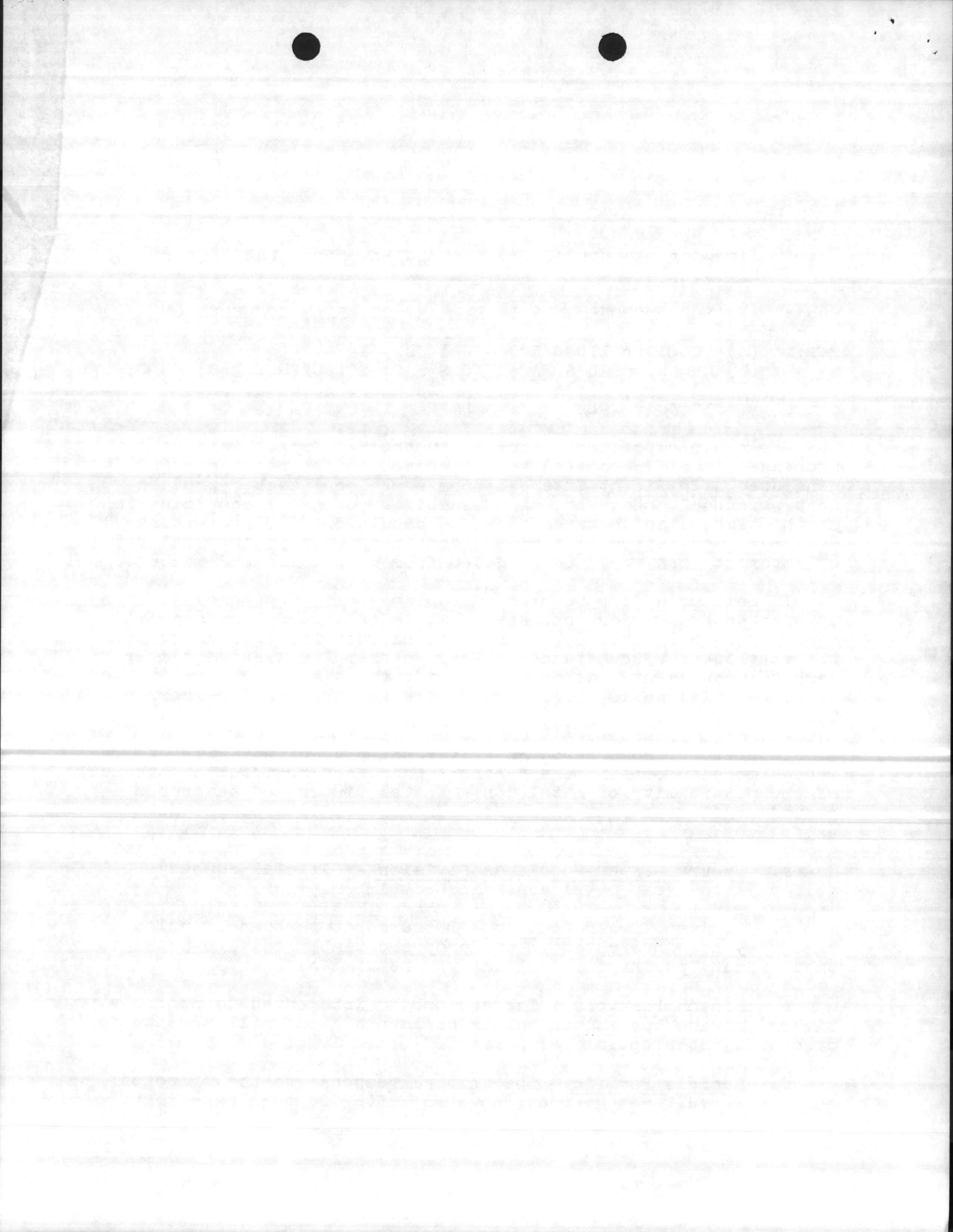
11000/2  
NREAD  
24 July 1984

From: Base Forester  
To: Director, Natural Resources and Environmental Affairs  
Division

Subj: PEA FOR IMPROVEMENTS OF K-2 IMPACT AREA; COMMENTS ON

Ref: (a) EODO ltr 11000 EOD of 11 July 1984  
(b) Mtg btwn AC/S FAC; DAC/S FAC; ROICC/PWO; TPO; EODO;  
EnvEngr; Dir NREAD, and AsstBase Forester on  
17 July 1984

1. The clearing of large acreage in the K-2 Impact Area as addressed in reference (a) and discussed during reference (b) generated significant interest from some local timber procurement personnel. However, the possibility of metal contamination in the timber, and hazardous ground conditions for harvesting equipment and personnel has resulted in a greatly lowered level of interest than would be expected from uncontaminated timber.
2. If maximum effort to clearcut an area of 1,000 acres is undertaken by a major contractor, it is estimated that approximately two months would be needed to harvest the area under the most ideal circumstances. Poor weather, suppressed timber markets, equipment breakdown or accidents at the logging site or at the mill would increase the time required for the completion of the job.
3. Interest by some representatives has been high, while others wanted more information, and others expressed no interest because of the possibility of metal contaminated timber and hazardous ground conditions from unexploded ordnance. Interest is noted as follows:
  - a. Federal Paper Woodlands Division - Official company policy is to avoid metal contaminated timber.
  - b. Squires Timber Company - Procurement personnel indicate that they are interested in the proposed timber salvage provided that primary purchasers will accept the timber.
  - c. Hinson Pulpwood - The company is interested in possible timber salvage operations but is concerned about mill acceptance or quotas interrupting the harvest.
  - d. Georgia Pacific - The initial response to the proposed salvage harvest was guarded; however, after further assessment



Subj: PEA FOR IMPROVEMENTS OF K-2 IMPACT AREA; COMMENTS ON

by the company's procurement personnel, this office was informed that the company felt it to be too risky.

e. Weyerhaeuser Company - The initial response solicited from procurement personnel is that the company may be interested in the proposed salvage. They will further assess the potential for utilization of metal contaminated timber and contact this office.

P. E. BLACK

Writer: P. E. Black, NREAD, 5003  
Typist: J. Cross, 24Ju84 - 5003



11015/1A  
NREAD  
23 July 1984

From: Base Wildlife Manager  
To: Director, Natural Resources and Environmental Affairs  
Division  
Subj: Clearing K-2 Impact Area

Ref: (a) Range Control Officer ltr 11000 EOD of 11 July 1984  
(b) Section 7 of the Endangered Species Act of 1973

Encl: (1) North Carolina Fisheries' Regulations

1. The amended preliminary environmental assessment contained in reference (a) has been reviewed as requested. Five previously unknown active cavity trees of the endangered Red-Cockaded Woodpecker have been located in the area which is proposed for clearing according to the Environmental Engineer. This apparently indicates that there is at least one colony of woodpeckers in the area. Any major clearing operation in this area would create a "may affect" situation requiring consultation with the U. S. Fish and Wildlife Service in accordance with reference (b).
2. The endangered American Alligator occurs along Whitehurst Creek which is in the area proposed for clearing. The alligator nests above the tidal zone well within the fire-line along the creek. Clearing the area would also create a "may affect" situation relative to the occurrence of alligators thereby requiring consultation.
3. Whitehurst Creek is a protected nursery area for young finfish and crustaceans as defined in the North Carolina Fisheries Regulations for coastal waters as contained in enclosure (1). Draining the wetlands of the area proposed for clearing into Whitehurst Creek and channelization of the creek would change the salinity of the water. This would impact on the productivity of the creek for saltwater fishes and crustaceans. Therefore, it is recommended that the North Carolina Department of Natural Resources and Community Development, Division of Commercial Fisheries, be contacted prior to initiating the clearing project.
4. The shorelines along Whitehurst Creek and New River proper where the proposed clearing is planned is identified as a sensitive area in the 1981 Archaeological and Historical Survey for Camp Lejeune. It is recommended that Dr. Thomas Loftfield, principal investigator for the survey, be contacted for expert advice relative to protecting archaeological and historical resources in the proposed area before initiating the clearing project. Additionally, it is recommended the North Carolina Division of Archives and History also be consulted before clearing is initiated.

C. D. PETERSON

Writer: C. D. Peterson, NREAD - 5003  
Typist: J. Cross, 23Jul84 - 5003



11000/5  
NREAD  
23 Jul 1984

From: Supervisory Ecologist  
To: Director, Natural Resources and Environmental Division  
Subj: CONSTRUCTION OF TRACKED VEHICLE TRAIL FROM RHODES POINT TO  
TLZ CARDINAL; PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA) OF  
Ref: (a) Chairman, EIRB ltr 5420/2 FAC 18 Jul 1984  
(b) SJA ltr 5800 CLO 5 Jul 1984  
(c) Director, NREAD ltr 5200 NREAD 20 Jun 1984  
(d) Director, NREAD ltr 11000/5 NREAD 20 Jun 1984  
(e) MCO.P11000.8B

1. The subject Preliminary Environmental Assessment (PEA) has been reviewed per your request and the following comments are provided. It should be noted that current base guidelines were not followed in the PEA format.
2. The title page of the subject PEA as provided by reference (a) is misleading. Natural Resources and Environmental Affairs Division (NREAD) has not prepared a PEA of the subject action. The subject document was not compiled by NREAD. NREAD comments incorporated into the subject document address only the section of new trail east of grid coordinates 802362.
3. Engineering support is recommended to design road bed, associated ditches and culverts, and erosion control structures. It should be noted that Staff Judge Advocate (SJA) opinion contained in reference (b) conflict with paragraph 2 of reference (c). Ref (c) is incorporated into the subject PEA. It is my opinion that submittal of a sediment control plan for the subject project to the State as discussed in reference (d) is required.
4. Provided that the sedimentation control requirements identified in reference (c) are satisfied, this project appears to meet the criteria contained in reference (e) for a categorically excluded action (i.e. submittal of an EA to Headquarters Marine Corps is not required).

D. D. SHARPE

ENCL (2)



11000/5  
NREAD  
23 Jul 1984

From: Supervisory Ecologist  
To: Director, Natural Resource and Environmental Affairs  
Division

Subj: PRELIMINARY ENVIRONMENTAL ASSESSMENT FOR LAV CREW TRAINING  
IN HOFFMAN FOREST

Ref: (a) Chairman, Environmental Impact Review Board ltr 5420/2  
Fac 18 Jul 1984  
(b) BO 11000.1B  
(c) MCO P11000.8B

1. The Preliminary Environmental Assessment (PEA) provided by reference (a) was prepared following current procedures in reference (b). The description is adequate for initial review. However, a map showing roads to be traveled should be incorporated into environmental impact assessment document. The following comments are provided relative to accuracy of section 5 of the subject PEA.

a. Air Quality: Agree

b. Land Quality: There will be soil disturbance to the forest roads even under excellent weather conditions. High levels of management and supervision of the operation will be required. Has potential to be controversial if public access to the forest is affected by road damage.

c. Groundwater Quality: Agree

d. Surface Water Quality: There will be some increase in erosion/siltation (highly dependent on supervision and maintenance). Sanitary waste disposal needs to be addressed.

e. Natural Resources: Many areas of Hoffman Forest are used for fox hunting. This citizens group is highly active with strong ties with state legislature. Any conflict with this group should be addressed carefully and thoroughly. These hunters frequent the area during the night time period proposed for LAV training. Road damage could affect public access unless timely maintenance provided. The area involved are public gamelands open to the hunting public.

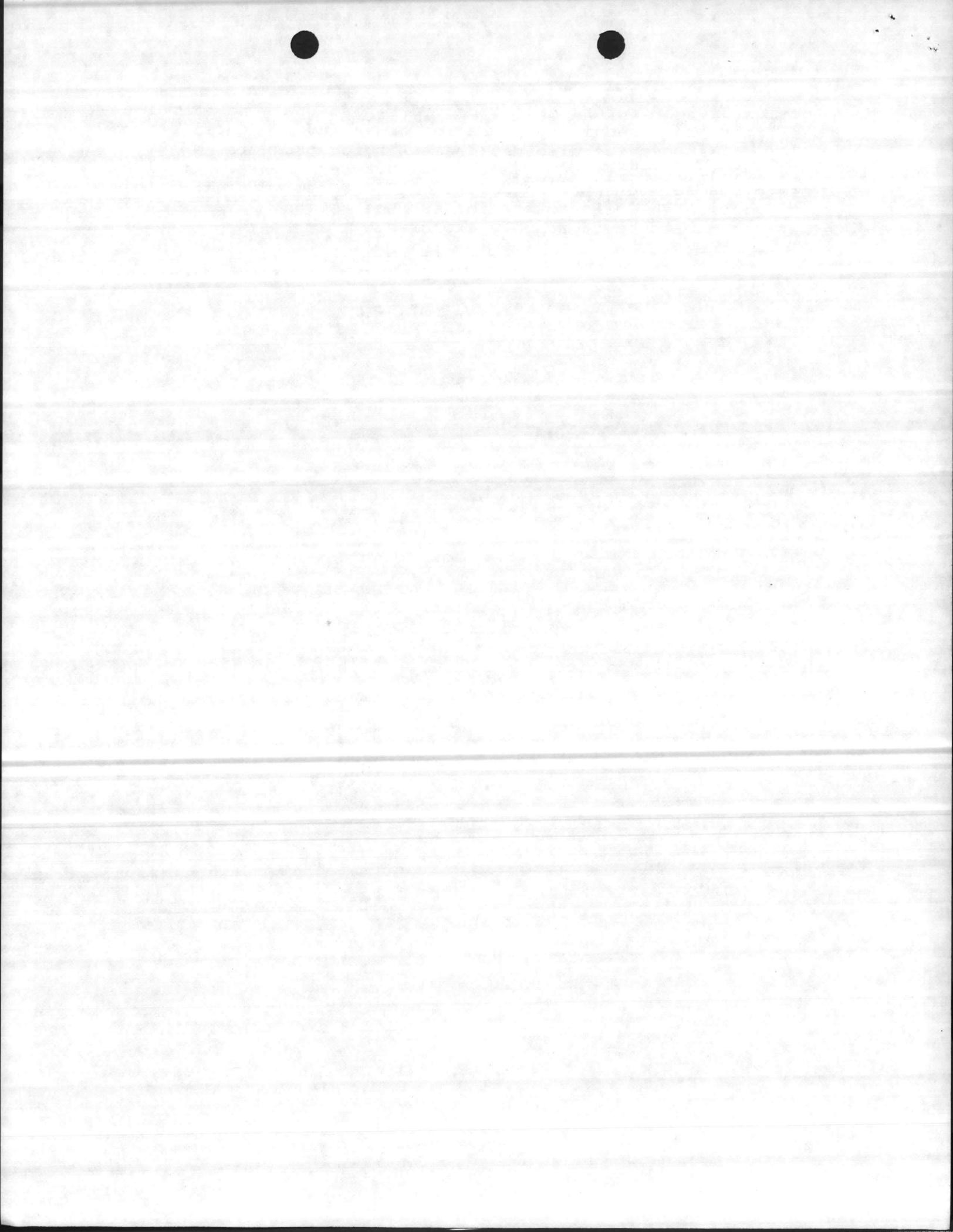
f. Socio-Economic Considerations: Off base persons and property will be affected at levels which could be perceived as significant by noise traffic impact and dust associated with vehicle. Public controversy should be anticipated and sufficient public education provided.

ENCL (3)



2. Section 3109 of reference (c) provides that training exercise in nonmilitary land require preparation of an environmental assessment (EA). This section also requires EA's for projects likely to cause public controversy. Section 3105.2 requires submittal of EA's to Headquarters Marine Corps. It is recommended that this course of action be followed for the subject action. Available alternatives should be thoroughly explored.

D. D. SHARPE



11000/2  
NREAD  
23 July 1984

From: Base Wildlife Manager  
To: Director, Natural Resources and Environmental Affairs  
Division

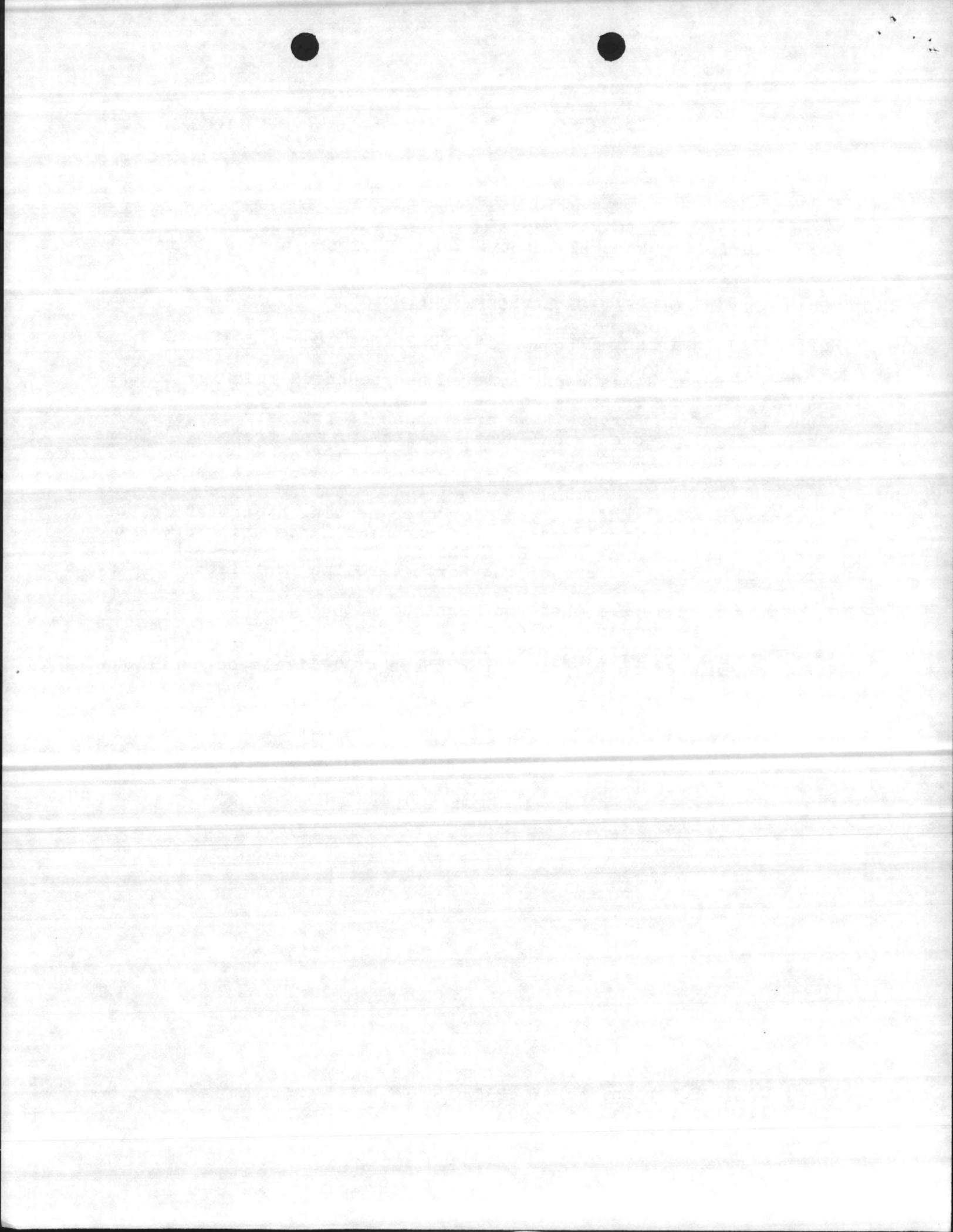
Subj: REVIEW OF PEA FOR LAV CREW TRAINING

Ref: (a) Chairman, EIRB ltr 5420/2 FAC of 18 Jul 1984

1. The reference has been reviewed as requested relative to the PEA for LAV Crew Training in the Hoffman Forest area of Onslow County. Hoffman Forest is an area which is extensively used by the public for recreational hunting, fishing and trapping. There is a tremendous amount of deer hunting from October through December each year, and fox hunting throughout the year.
2. Some of the land is leased for deer hunting by private clubs and the remainder includes the Hoffman Game Lands which are set aside for public hunting. Both the deer and fox hunters have strong ties with members of the North Carolina Legislature.
3. It is recommended that the North Carolina Wildlife Resources Commission, Department of Natural Resources and Community Development be contacted concerning the proposed use of LAV Crew Training in Hoffman Forest, since there will likely be conflicts with hunters in particular.

C. D. PETERSON

Writer: C. D. Peterson, NREAD, 23Jul84  
Typist: J. Cross, 23Jul 84 5003



11000/5  
NREAD  
23 July 1984

From: Base Wildlife Manager  
To: Director, Natural Resources and Environmental Affairs  
Division

Subj: REVIEW PEA FOR LZ BLUEBIRD REPAIR

Ref: (a) Chairman, EIRB ltr 5420/2 FAC of 18 Jul 1984  
(b) Volume I Archaeological and Historic Survey for MCB

1. In accordance with your request, the PEA for LZ Bluebird repair as contained in reference (a) has been reviewed. There is a possibility that a portion of Site ON<sup>V</sup> 138 contained in reference (b) remains intact under the existing AM2 matting material. Therefore it is recommended that the portion of the site be examined by a qualified archaeologist before grading and filling is initiated.

2. Contact with the North Carolina Department of Archives and History is additionally recommended before work on the proposed project is initiated.

C. D. PETERSON

Writer: C. D. Peterson, NREAD, 5003  
Typist: J. Cross, 23Jul84, 5003

ENCL (4)





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

IN REPLY REFER TO  
FAC/REA/hf  
5420/2  
1 Nov 1983

From: Chairman, Environmental Enhancement/Impact Review Board  
To: Distribution List

Subj: Environmental Enhancement/Impact Review Board; meeting of

Ref: (a) BO 11015.2G  
(b) BO 11000.1A  
(c) BO 11102.1J

Encl: (1) Draft BO 11000.1B  
(2) Proposed Change to BO 11102.1J

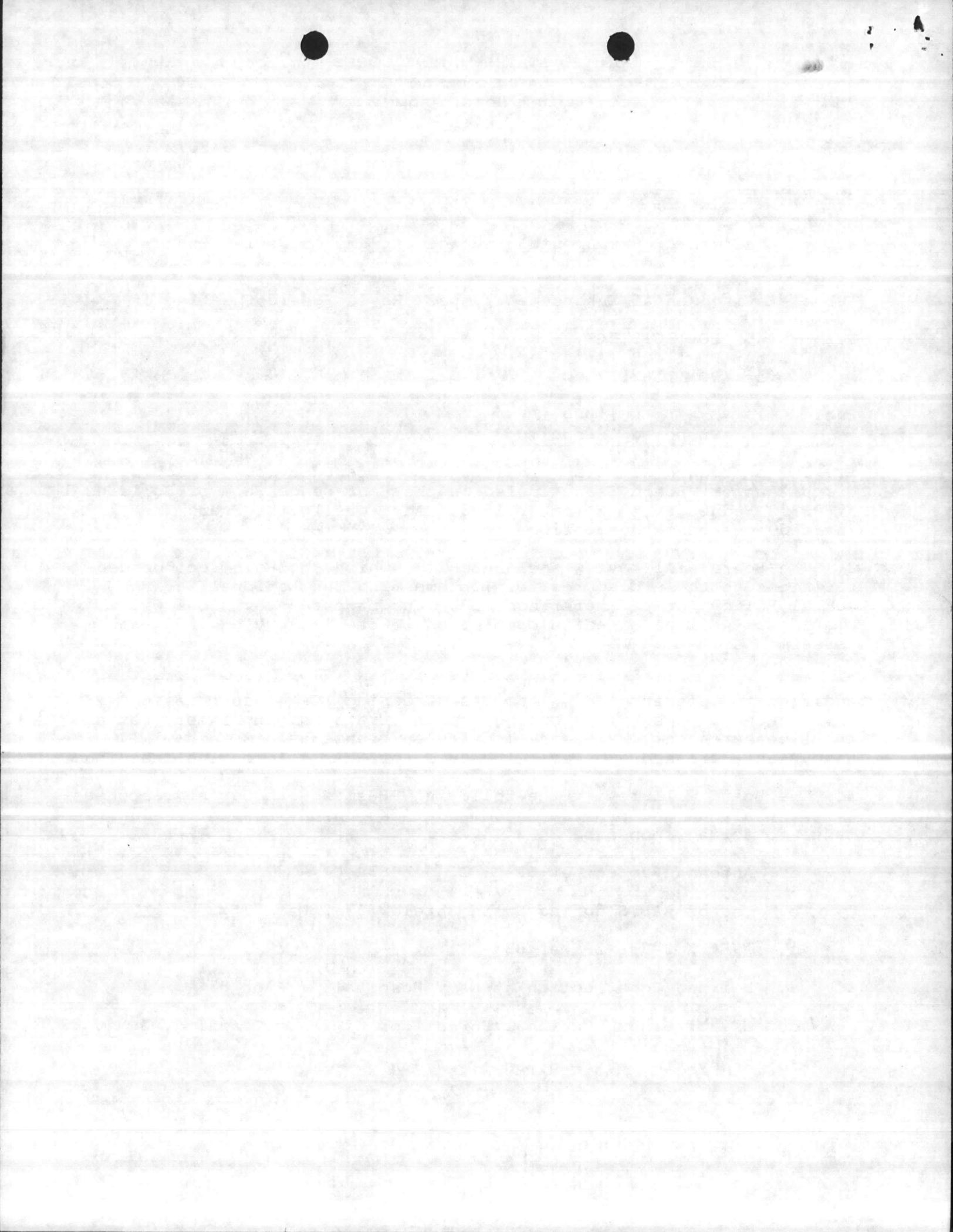
1. In accordance with the provisions of reference (a), a meeting of the subject Board is scheduled in the Conference Room of Building 1 at 0930, Wednesday, 9 November 1983. Advisors to the Board are invited to attend the meeting.

2. The Board will review enclosure (1), which includes recommended revisions to the procedures for implementing the National Environmental Policy Act per reference (b). The proposed revisions will clarify as well as expedite completion of preliminary environmental assessments (PEA).

3. The Board will also review enclosure (2), which is a recommended addition to reference (c), the "Base Training SOP" incorporating environmental precautions during routine training. By incorporating these measures into reference (c) the environmental impacts will have been addressed and limit the need for PEAs for routine training.

4. The Board will review the following PEAs and subsequent responses by the Chairman and provide recommendations on environmental significance to action sponsors.

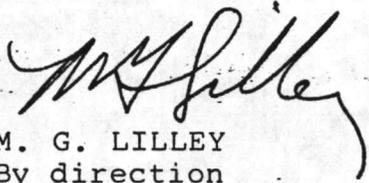
- a. Antenna Project at OP-2, 23 Feb 83
- b. Use of AABFS during Solid Shield 83, 9 Mar 83
- c. AVELEX 2-83, 29 Mar 83
- d. Helipad Construction at Navy Hospital, 21 Apr 83
- ✓ e. Use of Pisgah National Forest for Military Training, 2 May 83
- f. Renovation of F-18 Range, 24 Jun 83



- g. Reserve landing exercise Saber Slash, 28 Jun 83
- h. Reconfiguration of Harrier Ski-Jump at TLZ Bluebird, 18 Jul 83
- i. IHAWK Missile FIREX, 6 Sep 83
- j. G-5 Tank Gunnery Range Improvement

Copies of the PEAs are available in the Facilities office for review prior to the meeting.

5. Members and advisors knowing of other agenda items should notify the Chairman at ext. 3034/2544 as soon as possible prior to the meeting.

  
M. G. LILLEY  
By direction

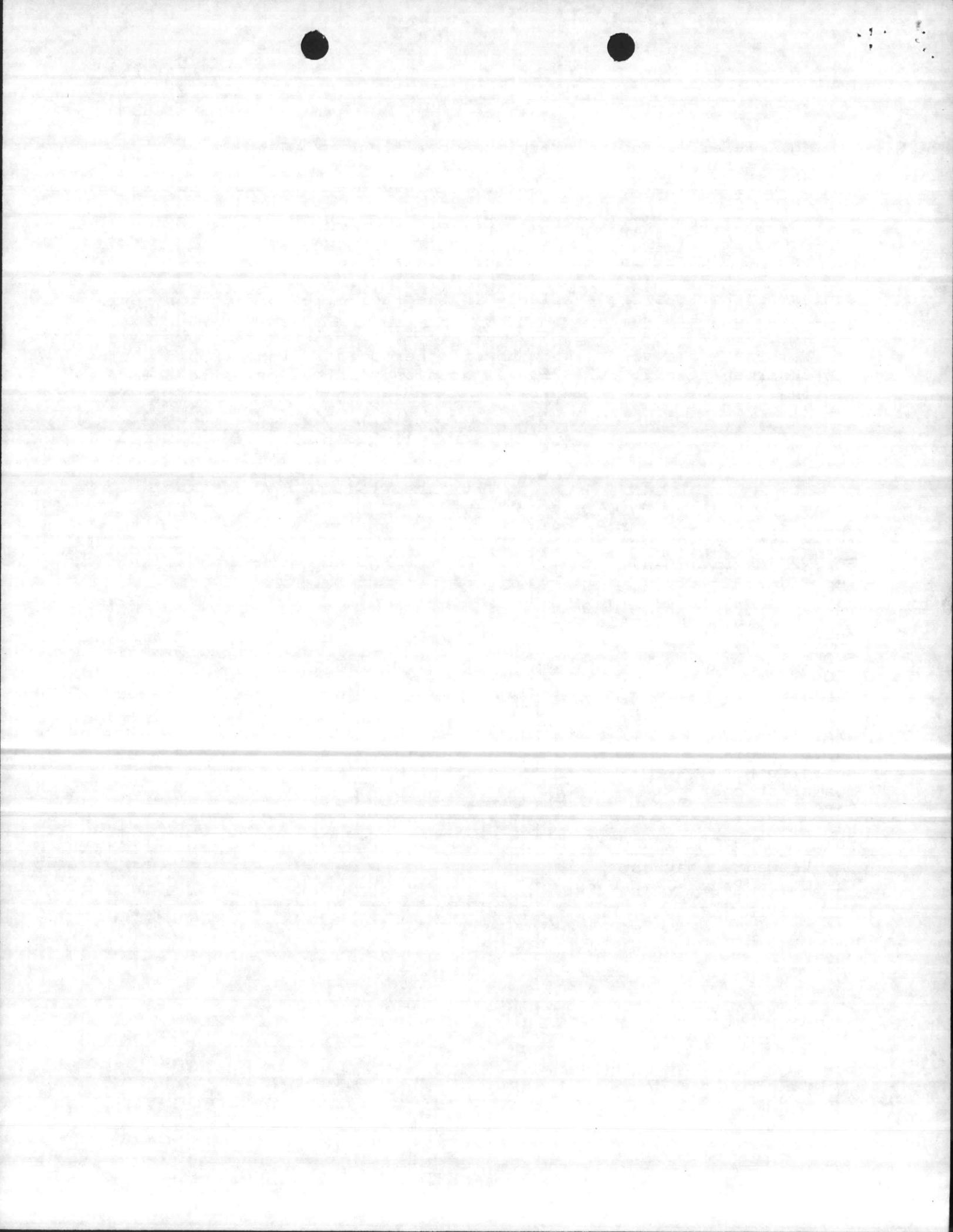
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TFACO  
BMO  
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(Advisors)

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BWildlifeMgr  
BGameProtector  
SAFD  
SJA  
DPDO  
Ch, VetMedSvc, NavHosp  
Ch, Occup/PrevMed, NavHosp



BASE ORDER 11000.1B

From: Commanding General  
To: Distribution List

Subj: Environmental Considerations in Marine Corps Actions;  
Camp Lejeune

Ref: (a) MCO P11000.8A  
(b) MCO 6280.5  
(c) BO 11015.2G  
(d) BO P11102.1J

Encl: - (1) Request for Environmental Impact Review; format and  
procedures for submission of

1. Purpose. To revise procedures and responsibilities for environ-  
mental planning and environmental impact assessment, as required  
to implement references (a) and (b).

2. Cancellation. BO 11000.1A

3. Policy. It is the continuing policy of the Commanding General  
that locally sponsored and/or approved actions shall be planned,  
programmed and implemented with adequate consideration of the  
action's impact on the natural environment and shall provide  
appropriate means and measures to avoid or minimize adverse effects  
upon the quality of the environment.

4. Background.

a. The National Environmental Policy Act (NEPA) requires  
federal agencies to use all practicable means and measures to con-  
duct their respective missions in concert with the environment.  
Reference (a) outlines the Marine Corps' natural resources and  
environmental management and protection program. Reference (b)  
provides specific guidance for implementation of NEPA regulations.



b. Reference (a) assigned responsibility for providing environmental and natural resource management staff to Marine Corps Base. Reference (c) established procedures for coordination of environmental and natural resource enhancement and protection activities by commands aboard the Camp Lejeune complex.

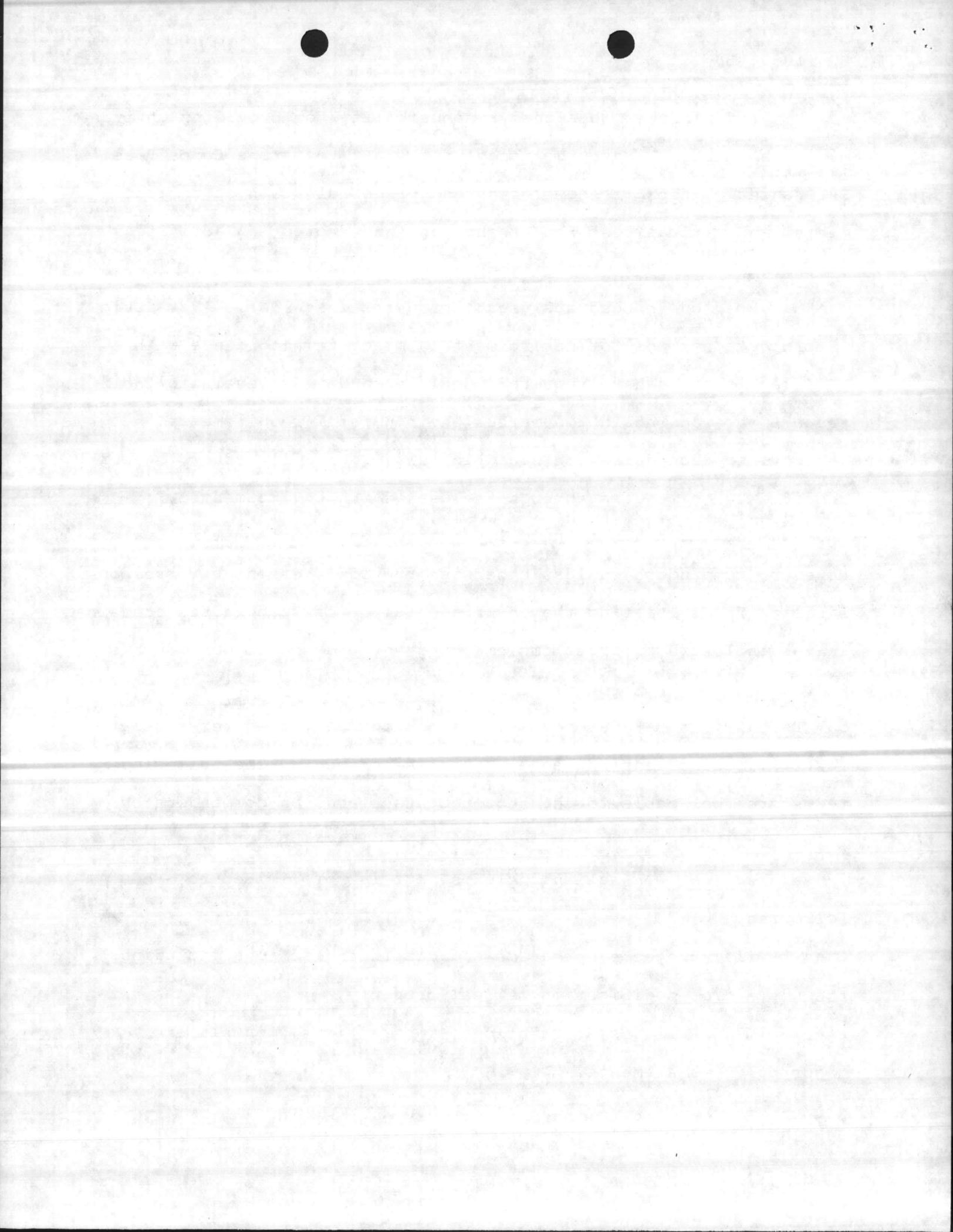
c. Previous procedures used aboard the installation for review of projects/actions for environmental impact in accordance with NEPA requirements have required local commanders to evaluate their proposed actions against numerous environmental requirements. The revised procedures contained in this Order will reduce the work required by commanders through the use of the environmental, engineering and other technical personnel on the base staff. However, commanders, unless otherwise provided herein, have responsibility for initiating the environmental review procedures contained in the enclosure prior to implementing any action subject to this Order.

5. Definitions. Reference (b) defines commonly used terms relative to NEPA required environmental impact assessment. The following terms are applicable to the requirements placed on commanders by this Order:

a. Action. An action includes, but is not limited to, the following:

(1) Projects, programs and continuing actions including the use and/or modification of real property.

(2) Policies, regulations, instructions, manuals or major policy statements.



(3) Recommendations or reports relating to legislation including those for appropriation.

An action does not include routine, recurrent training activities approved by AC/S Training in accordance with reference (d).

b. Action Sponsor. That individual or organization proposing an action.

c. Preliminary Environmental Assessment (PEA). The initial, internal Department of the Navy recorded process which identifies and evaluates any impact on the environment by a proposed action. The PEA document will consist of the enclosure plus a concise summary of comments and findings resulting from the review of the action in accordance with the review process described in attachment (a) of the enclosure. Each PEA document will contain a statement (determination) regarding whether or not further environmental review is required by reference (b).

6. Responsibilities.

a. Action Sponsor's will:

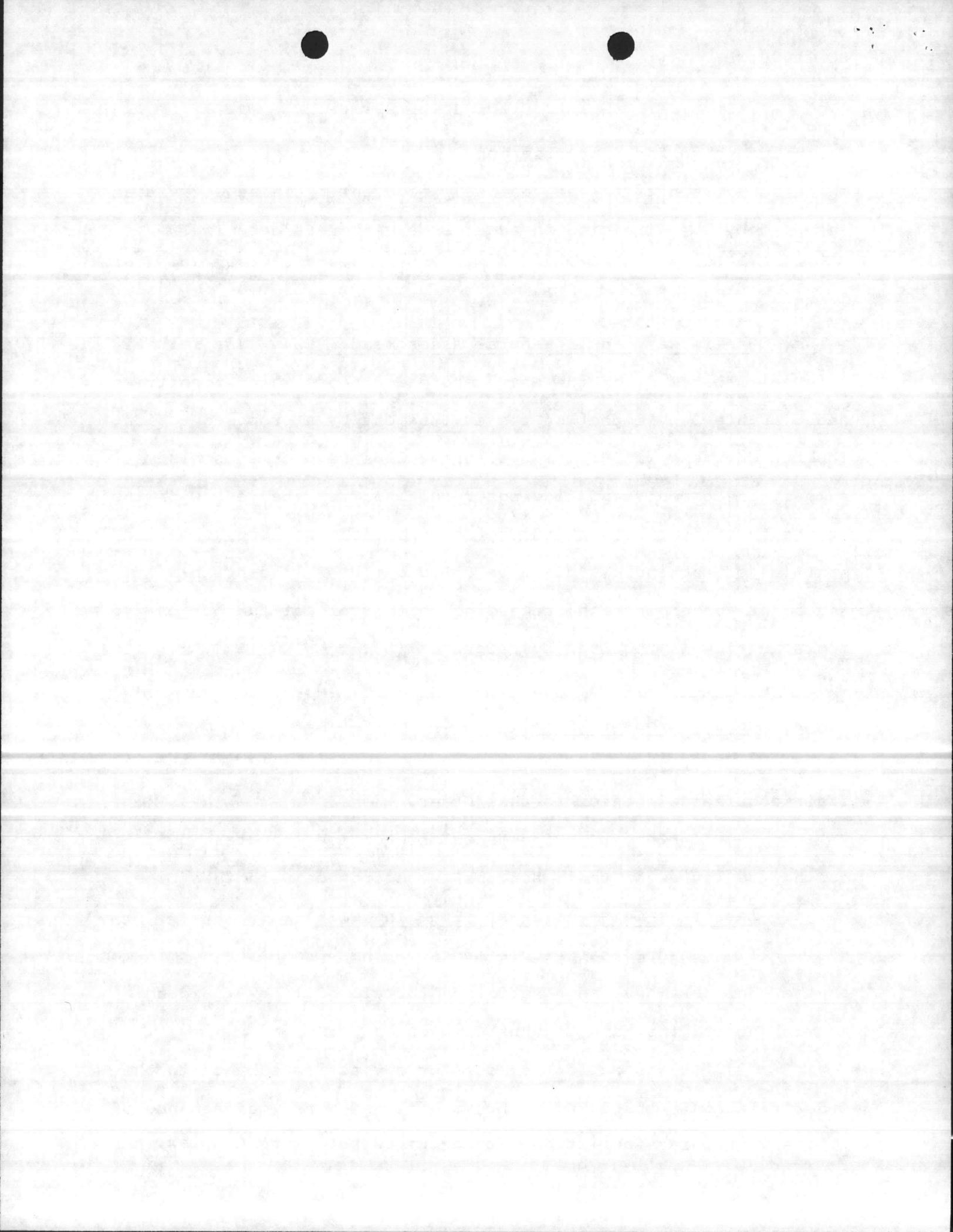
(1) Prepare and submit the enclosure for all actions under their cognizance subject to this Order.

(2) Implement environmental protection measures identified during the review of their actions in accordance with this Order.

b. Assistant Chief of Staff, Training will:

(1) Ensure that requirements of this Order for submission of the enclosure have been satisfied for all military training actions aboard the Camp Lejeune Complex.

(2) Act as action sponsor for any action subject to this Order related to the development, modification and maintenance of military training facilities within the Camp Lejeune Complex.



(3) Monitor the implementation of environmental protection measures during training exercises and initiate action to correct discrepancies related thereto.

(4) Revise and update reference (d) and other Base training regulations, as required, to implement environmental protection measures.

c. Assistant Chief of Staff, Facilities will:

(1) Serve as chairman of the Base Environmental Impact Review Board established in accordance with reference (c).

(2) Unless otherwise specified, provide a Command representative to attend routine meetings of local, state and federal land use and environmental regulatory boards, commissions, advisory groups and agencies.

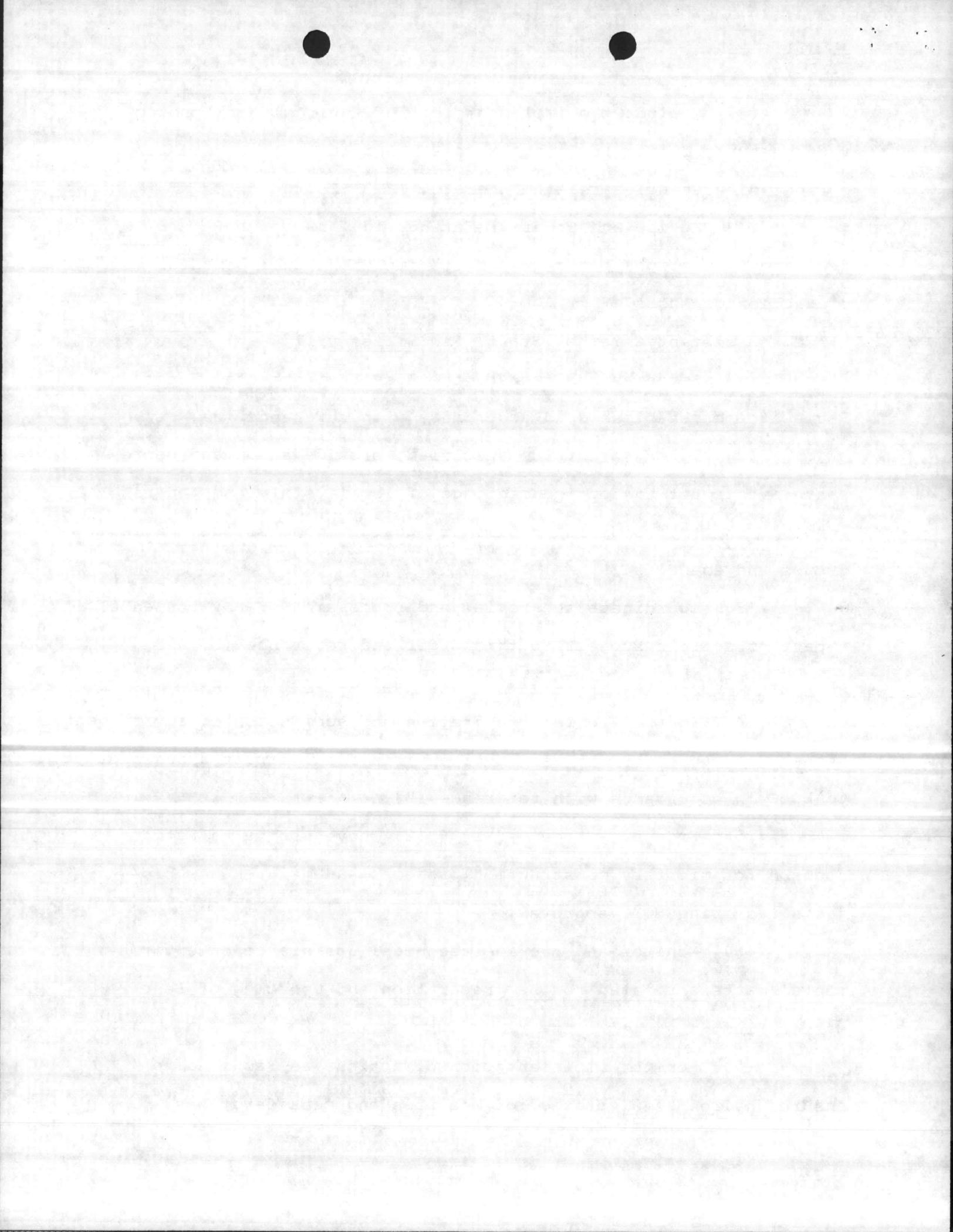
(3) Coordinate the review and processing of environmental impact of actions subject to this Order and reference (b) and prepare and maintain official files of PEA documentation.

(4) Coordinate the preparation and submission of environmental assessments and other higher level environmental impact assessment to HQMC in accordance with reference (b).

(5) Except as provided in 6b(2) above, serve as action sponsor for military construction projects and maintenance projects requiring HQMC approval.

(6) Monitor and provide technical assistance on environmental matters related to the preparation and updating of Base Master Plan.

(7) Monitor implementation of actions as required to ensure environmental protection measures and considerations



identified during implementation of this Order are properly carried out.

(8) Assemble available information and conduct studies and surveys required to provide action sponsors with data on soils, air quality, water quality, land use planning, forestry management, wildlife management, cultural and archaeological resources and other matters related to environmental regulations.

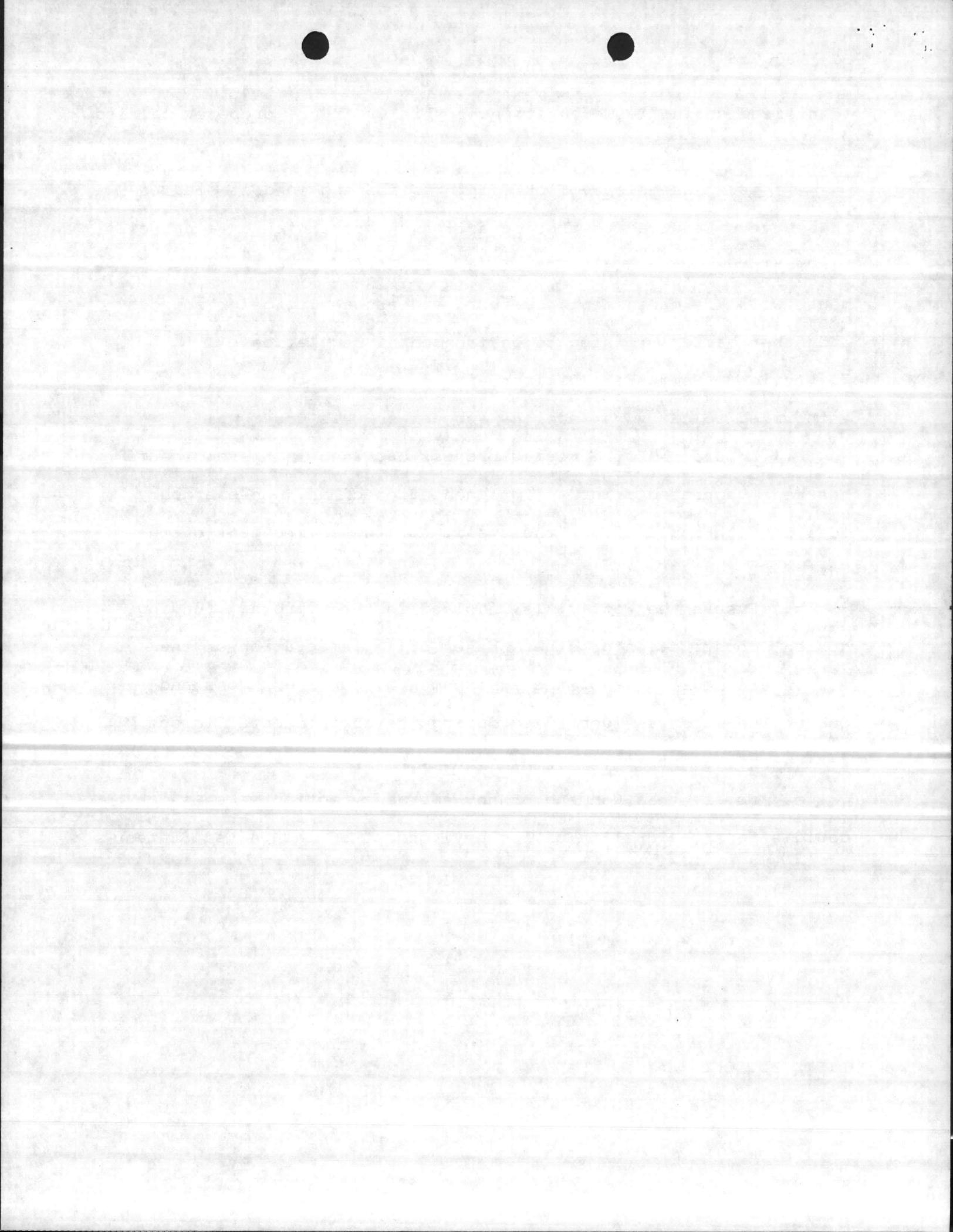
7. Action. Commanders/Officers-in-Charge and other officials authorized to carry out actions subject to this Order will:

a. Ensure that the review process outlined in the enclosure has been completed prior to implementation of any non-emergency action which could affect the quality of the environment of the United States.

b. Ensure that officials involved in the approval, funding, design, construction or other phases of implementation of the action are made aware of the environmental considerations and protection measures identified during the environmental impact review process provided by this Order.

c. Notify this Command of any emergency action taken which could affect the quality of the environment of the United States.

DISTRIBUTION:



REQUEST FOR ENVIRONMENTAL IMPACT REVIEW; FORMAT AND PROCEDURES  
FOR SUBMISSION OF

1. Action Sponsor: \_\_\_\_\_

2. Name, Address, Phone Number of Point of Contact: \_\_\_\_\_

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3. Title and Brief Description of Proposed Action (state purpose, when proposed action is to occur, and any proposed environmental protection measures):

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



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

a. Air Quality: Will there be any open burning associated with the project/action? \_\_\_\_ Will there be any new boilers, incinerators or fuel storage tanks (larger than 1,000 gallons) provided? \_\_\_\_ Will there be any paint booths, solvent vats, degreasers or other vapor producing industrial processes involved? \_\_\_\_ Will the project involve the use or disposal of asbestos? \_\_\_\_ Will project cause dust problems? \_\_\_\_

b. Land Quality: Will the action require use of significant amount of earthen fill material? \_\_\_\_ Will there be an increase in level of soil disturbance/damage to vegetation? \_\_\_\_ Will there be one acre or more of land cleared/disturbed? \_\_\_\_

c. Groundwater Quality: Does the project involve use of herbicides, insecticides or other pesticides in significant amounts? \_\_\_\_ Does the project involve installation/use of septic tanks, or any other onsite disposal of sanitary waste? \_\_\_\_ Will there be any wells dug or any excavations deeper than twenty feet? \_\_\_\_ Will there be any toxic or hazardous material/waste requiring disposal used or generated at/by the project? \_\_\_\_ Will there be a net increase of solid waste caused by implementing the project/action? \_\_\_\_ Will the project or action be carried out within 200 feet of a drinking water supply well? \_\_\_\_

d. Surface Water Quality: Is the project located on or in a water body or adjacent 100-year flood plain? \_\_\_\_ Will the project involve construction of drainage ditches/underground drains for purposes of lowering water table? \_\_\_\_ Will all wastewater be connected to sanitary sewer? \_\_\_\_ Will there be an increase in erosion/siltation from soil disturbing activity? \_\_\_\_ Will petroleum oil and lubricants be routinely stored or used at the site? \_\_\_\_

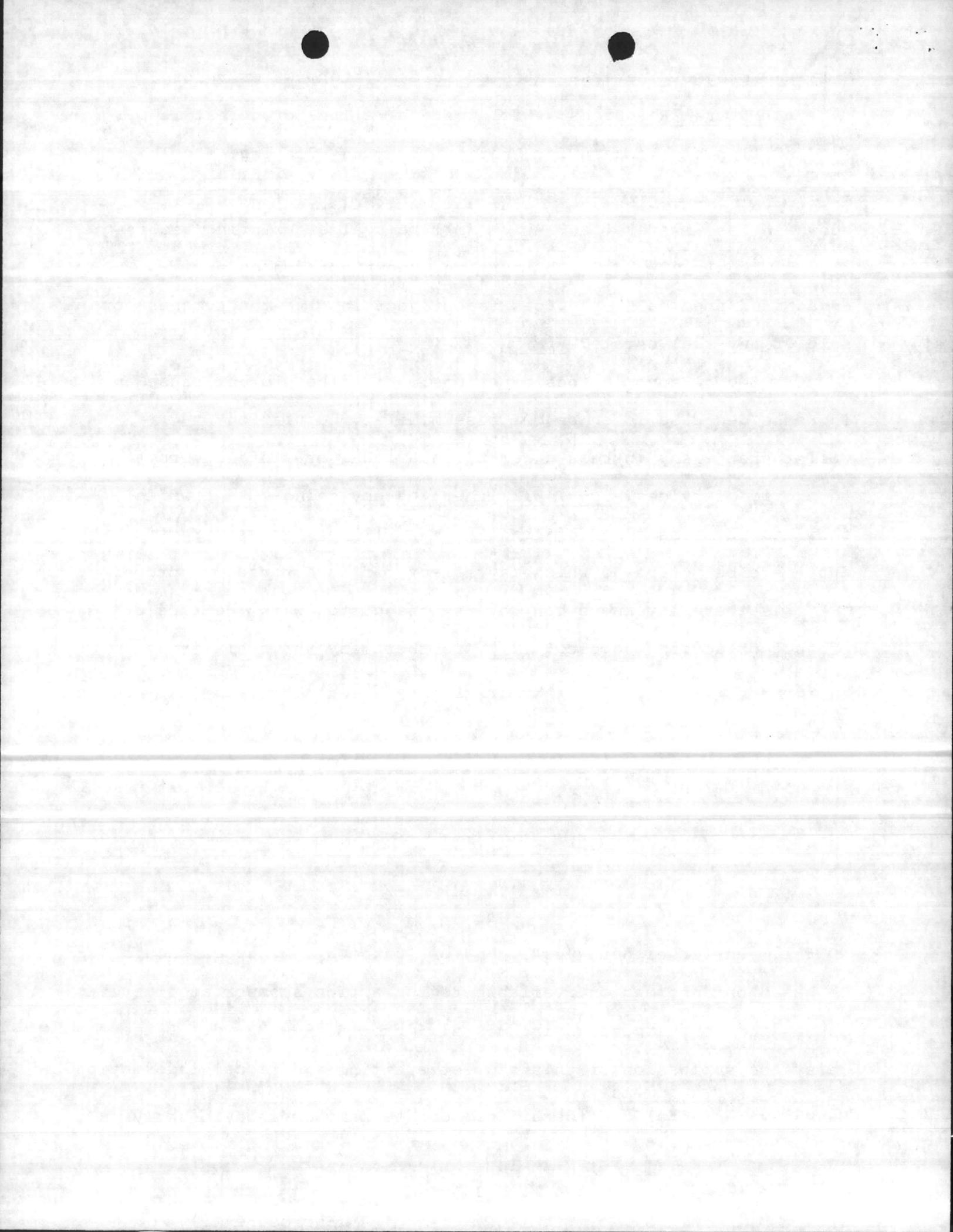


Will the project increase rates of surface/storm water runoff? \_\_\_\_\_

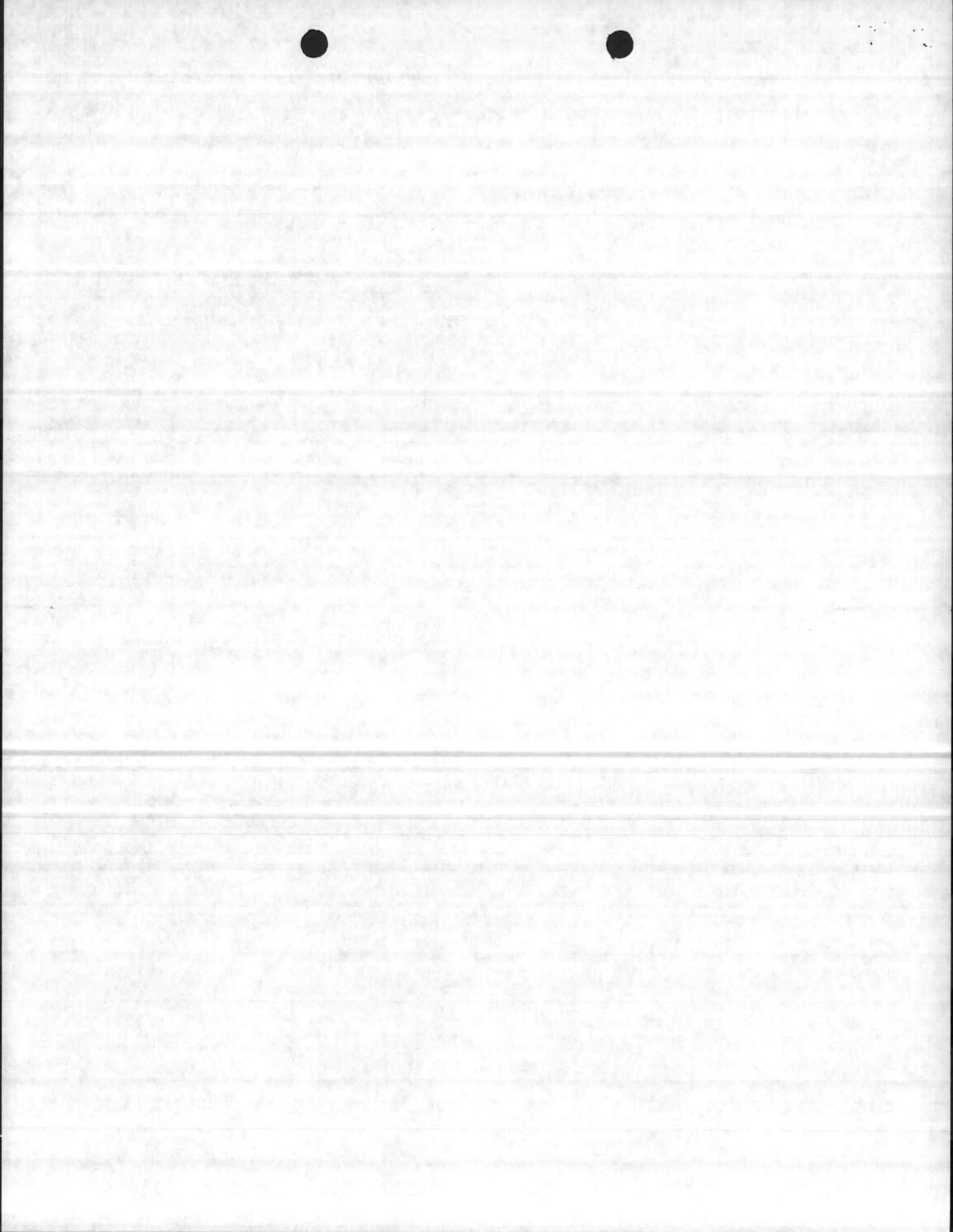
e. Natural Resources: Will there be a loss of forest land? \_\_\_\_\_ Will public access for hunting, boating, fishing, etc be restricted? \_\_\_\_\_ Is there a change in land use from what is presently shown in Base Master Plan? \_\_\_\_\_ Will removal of existing vegetation be required? \_\_\_\_\_ Are there any known effects on any endangered species? \_\_\_\_\_ Does the project involve the purchase or sale of any real estate? \_\_\_\_\_

f. Socio-Economic Considerations: Will the project cause an increase/decrease in on or off base military population? \_\_\_\_\_ Will there be any increased demand on a local or state government to provide services? \_\_\_\_\_ Will there be any changes to traffic flow and patterns on or off base? \_\_\_\_\_ Will any noise, traffic, dust, etc. be generated which may affect off base person or property? \_\_\_\_\_ Is there any known controversy associated with the type of project or action proposed? \_\_\_\_\_ Are there any known historical or archaeological sites affected by project/action? \_\_\_\_\_

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



planning stages. If additional information becomes available after submission, it should be forwarded to the EIRB.



STEPS IN PROCESSING REQUESTS FOR ENVIRONMENTAL IMPACT REVIEW

1. Action sponsor will complete request and forward via chain-of-command to Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune. It is recommended that the correspondence request be reviewed by the action sponsor's command representative to the base Environmental Impact Review Board (EIRB) prior to submission to the EIRB. Base Order 11015.2G pertains.

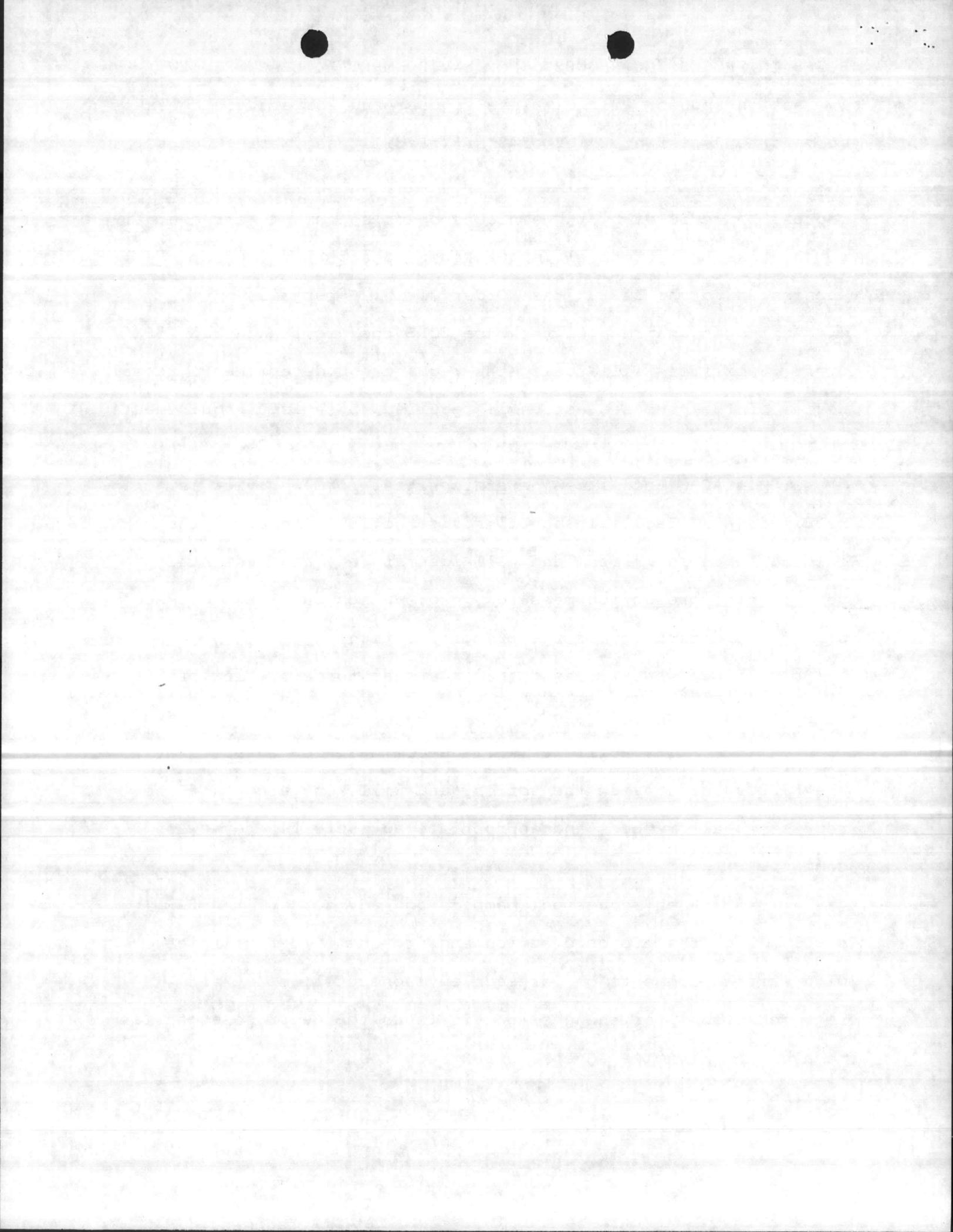
2. Acting as Chairman of the base EIRB the Assistant Chief of Staff, Facilities will review the request and determine if formal review of the proposed action is required to satisfy requirements of MCO 6280.5.

a. If AC/S Facilities determines that formal review is not required, AC/S Facilities shall advise action sponsor of the determination in writing and will identify any environmental constraints, protection measures, etc., which must be addressed during implementation of the proposed action.

b. If AC/S Facilities determines that formal review of the proposed action is required, the following steps will be taken:

(1) AC/S Facilities will determine which advisors of the EIRB should review the action, and will send a copy of the request to all members and appropriate advisors for review and comment.

(2) When requested, members and advisors of the EIRB shall review the proposed action and provide AC/S Facilities with written comments on foreseen environmental impact and recommendations for changes/modifications to the proposed action to avoid or minimize adverse effects on the quality of the environment.

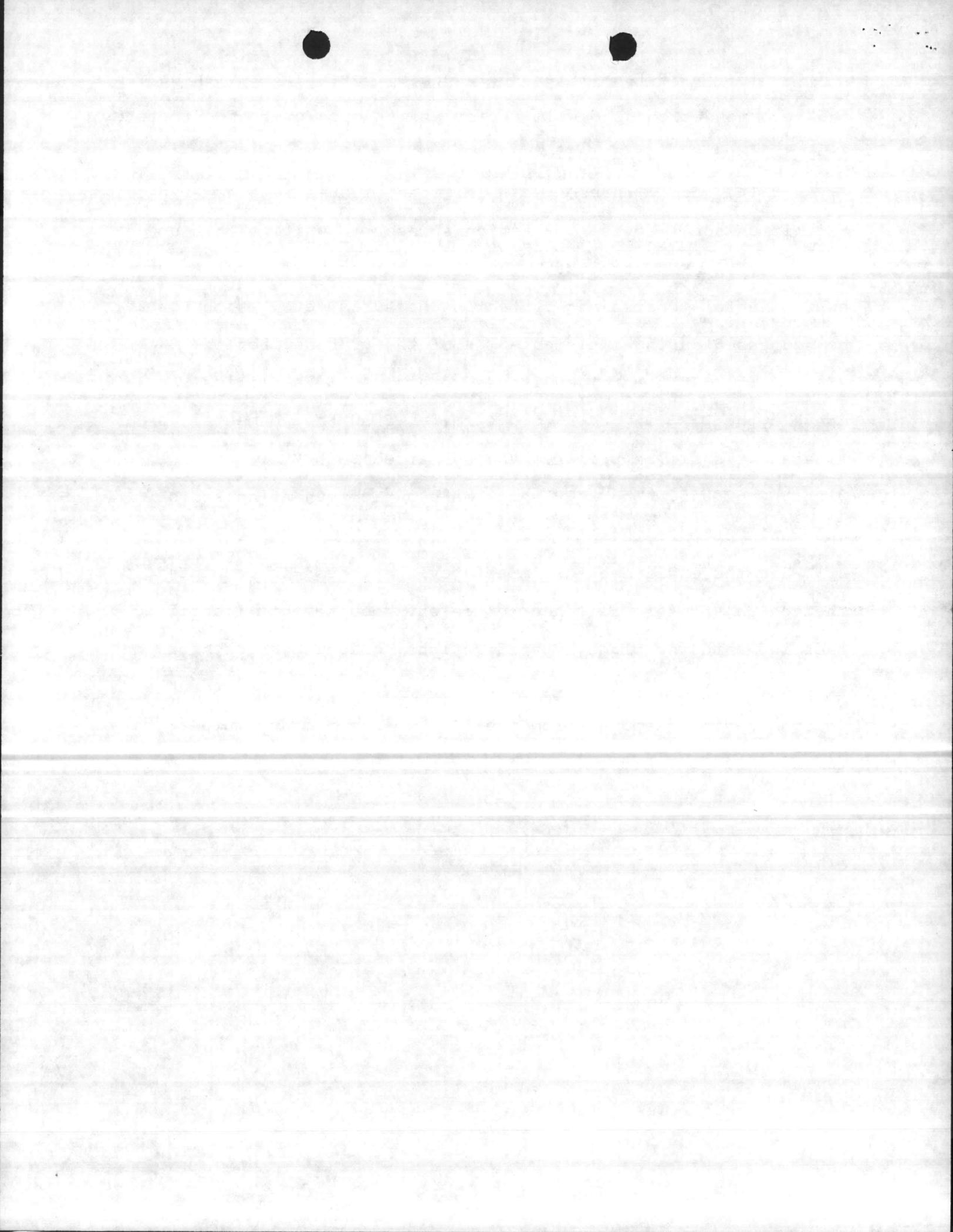


(3) AC/S Facilities shall consolidate EIRB review comments and recommendations and will assist action sponsor to incorporate changes into proposed action.

(4) If no unresolved significant issues remain, AC/S Facilities shall advise the action sponsor in writing that no further review is required. The notification will identify any environmental constraints protection measures, etc. which should be addressed during implementation of the proposed action.

(5) If unresolved issues remain, AC/S Facilities shall convene the EIRB in order to determine if an Environmental Assessment shall be prepared and submitted to HQMC in accordance with MCO 6280.5. The EIRB shall make a recommendation as to who shall prepare the EA.

4. When the environmental impact review process is completed, the action sponsor will incorporate any requirements identified therein, into the plans, specifications, guidelines, etc. for the proposed action. Action Sponsors are advised that a favorable recommendation/response from the EIRB does not constitute approval to carry out the action.



PROPOSED CHANGE TO BO P11102.1J

APPENDIX  
ENVIRONMENTAL PRECAUTIONS

1. References: (a) Base Order 11000.1A  
(b) Base Order 11015.6  
(c) Base Order 11090.1B  
(d) Base Order 6240.5

2. General [Reference (a)]

- a. Water sources in the field areas will not be used to wash vehicles; neither will liquid discharge or refuse disposal be permitted to drain into any water source.

- b. All refueling points will be at least 100 feet from water sources.

- c. Foxholes, gun emplacements, etc., may be dug on Camp Lejeune, however, the holes must be refilled and the area returned, as nearly as possible, to its natural state upon completion of the exercise.

- d. Use of the existing main roads and trails to the maximum extent feasible will reduce vehicular damages to wildlife, soils and vegetation.

- e. The red-cockaded woodpecker is an endangered species listed in the Federal Register of Endangered Species and is protected at Camp Lejeune. Reference (b) established guidelines and listed actions violating public law. Additionally, the reference identifies restricted areas and buffer zones.

3. Fire Prevention and Fire Fighting

- a. The burning of debris in the field is strictly prohibited.

- b. All units will organize fire fighting teams and vigorously implement fire prevention measures.

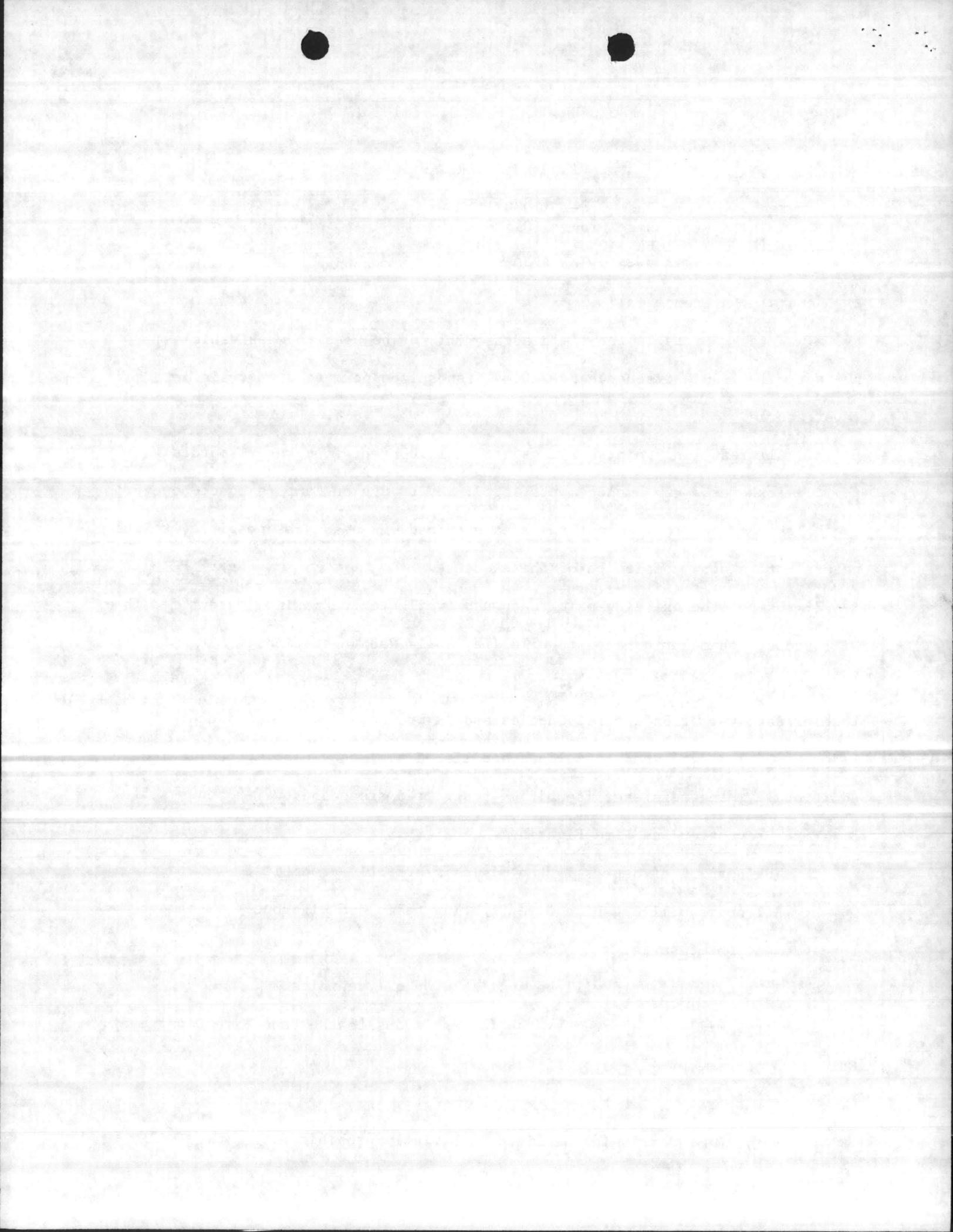
- c. Fire extinguishers will be available on all vehicles.

- d. Fires will be reported by the fastest means to the Base Fire Department.

Call 3333 on-base or 451-3333 off-base.

4. Waste Disposal

- a. Burying of debris in the field is strictly prohibited.



b. It is a unit responsibility to collect the debris generated in the unit area and haul it to the Base Landfill.

c. The following methods of disposal of waste water are required:

(1) Waste water from field mess operations will require a drainage pit, except for Onslow Beach mess operations. On Onslow Beach, waste water will be collected in a B2130 tank, fabric, 3000 gallon. Disposal will be accomplished by calling extension 3001/3002 for pumping of the tank by Base Maintenance. Two tanks should be dedicated to Food Service waste water.

(2) Field shower waste water will require a drainage pit. Site approval of shower facilities is required prior to operation. The Marine Corps Base Natural Resources and Environmental Affairs Division, ext. 5003/2195 will provide site approval.

#### 5. Sanitary Waste

a. Human waste will be disposed of via the use of port-a-johns throughout the duration of the exercise. For assistance or servicing of port-a-johns, call AC/S Logistics, MCB, ext. 5962/5520.

b. Range control office will provide guidance on the general locations permissible for establishing field sanitation facilities in the training area.

#### 6. Spill Prevention, Containment and Clean-up

a. Prevention of oil and hazardous material spills and the resulting environmental damage is the responsibility of all commanders.

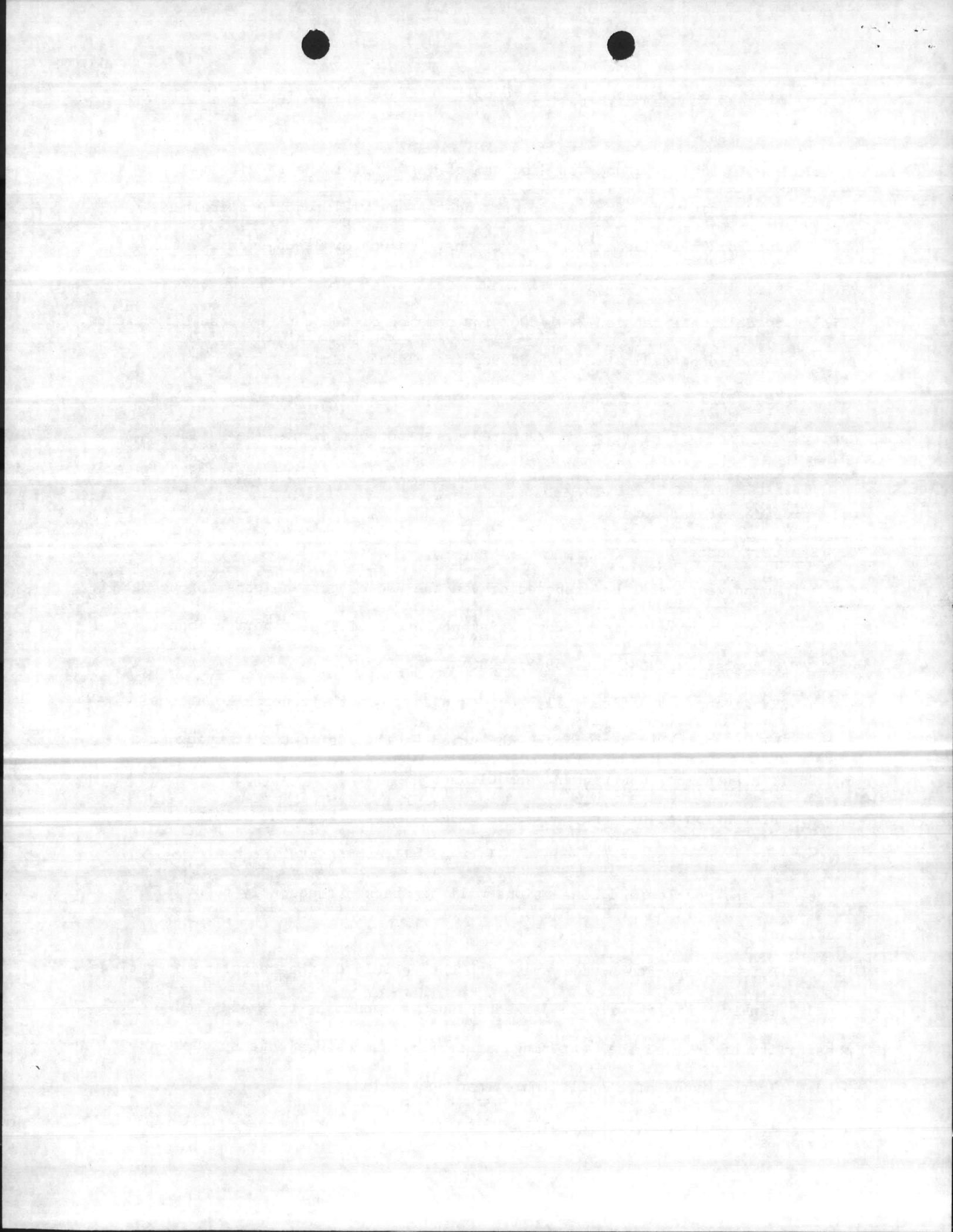
b. Hoses, nozzles and connections will be checked frequently to avoid leakage of fuel.

c. Refueler operators will stay with the vehicle during refueling operations.

d. Tanker vehicles will be parked in such a manner as to avoid the possibility of spilled fuel entering natural or manmade drainage systems.

e. In the event of a spill (more than one gallon):

(1) Call Base Fire Department--on-base, 3333, or off-base, 451-3333.



(2) Persons on-site shall attempt to erect a sand or earth dam around the perimeter of the spill.

(3) Keep unauthorized personnel out of the area.

(4) Provide personnel and equipment support for spill containment and cleanup as requested by Base Spill Response Coordinator.

f. Cleanup:

(1) Cleanup will be accomplished by personnel from unit having the spill.

(2) Cleanup procedures will be outlined by the Natural Resources and Environmental Affairs Division.

g. Reference (c) shall be reviewed by all units. Materials and equipment for oil spill containment are listed in the reference.

7. Field Servicing of Vehicles

a. All waste petroleum products generated during the exercise will be stored (55-gallon drums, etc.) and disposal instructions obtained from the Hazardous Materials Disposal Coordinator of the Command.

b. The use of drip pans and ground clothes are required during oil changing and fueling of equipment.

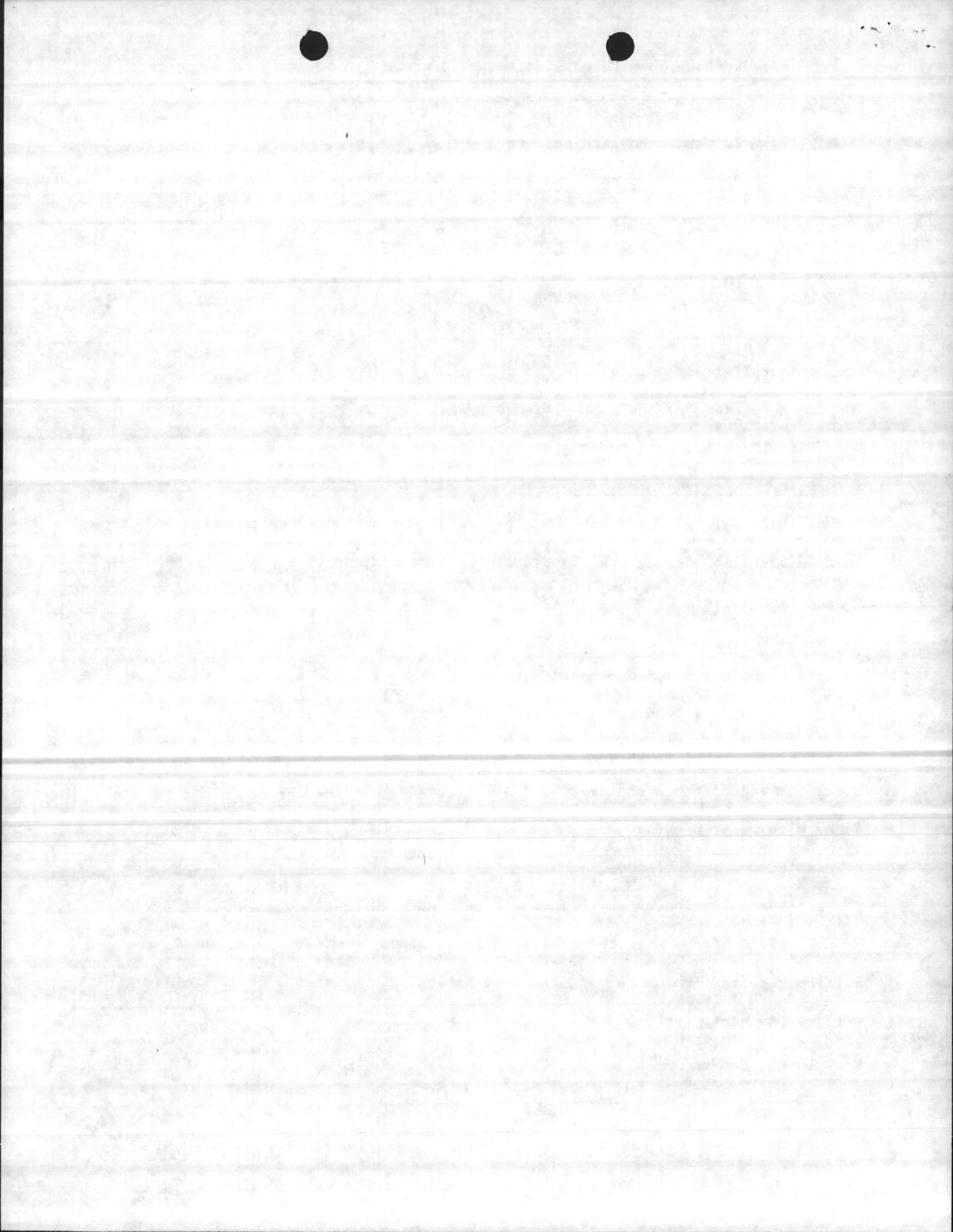
c. Cleaning solvents and cleaning agents are hazardous materials to the environment. These materials will be stored in suitable containers and stored until the end of the exercise. Disposal of these materials will be in accordance with reference (d).

8. Protection of Wetlands

a. The operation of earth moving equipment within wetlands shall be avoided.

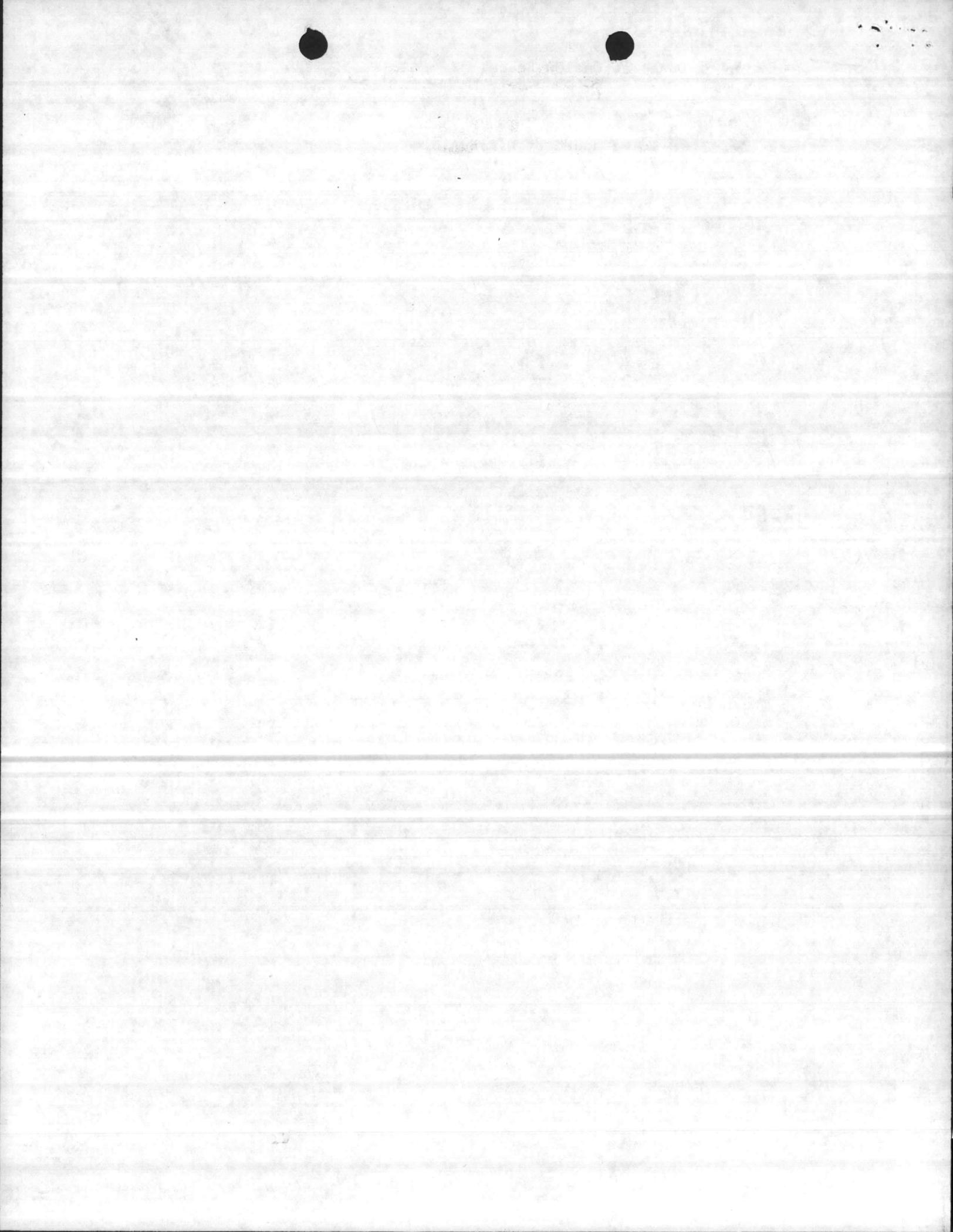
b. Spill of any material or liquid in wetlands regardless of quantity will be reported immediately to the Base Natural Resources and Environmental Affairs Division, ext. 5003.

9. Archaeological Sites



10. Protection of Dunes at Onslow Beach

- To be added by N.R.E.A.D. -



10 Aug 82

MAIN/JIW/th  
16475

From: Base Maintenance Officer  
To: Assistant Chief of Staff, Facilities

Subj: Environmental Enhancement/Impact Review Board; meeting of

Ref: (a) AC/S FAC memo FAC/JGF/hf 5420/3 of 4 Aug 1982  
(b) AC/S FAC memo of 27 Jul 1982  
(c) BO 11000.1A  
(d) MCO 6280.5  
(e) BO 11015.6

1. As requested by references (a) and (b), the following comments are submitted. The PEAs for projects P-282, P-451, P-133, P-358, TAFDS Field Training Site (Marine Corps Air Station (H), New River) and TWSEAS Minor Construction Project (2d Marine Division) were not forwarded to Base Maintenance Division for formal review/comments which has been standing operating procedure for the past several years.

2. PEAs for projects identified in paragraph 2 i, j, and k of reference (b) have been reviewed by Natural Resources and Environmental Affairs personnel for consistency with references (c) and (d) and the following comments are offered.

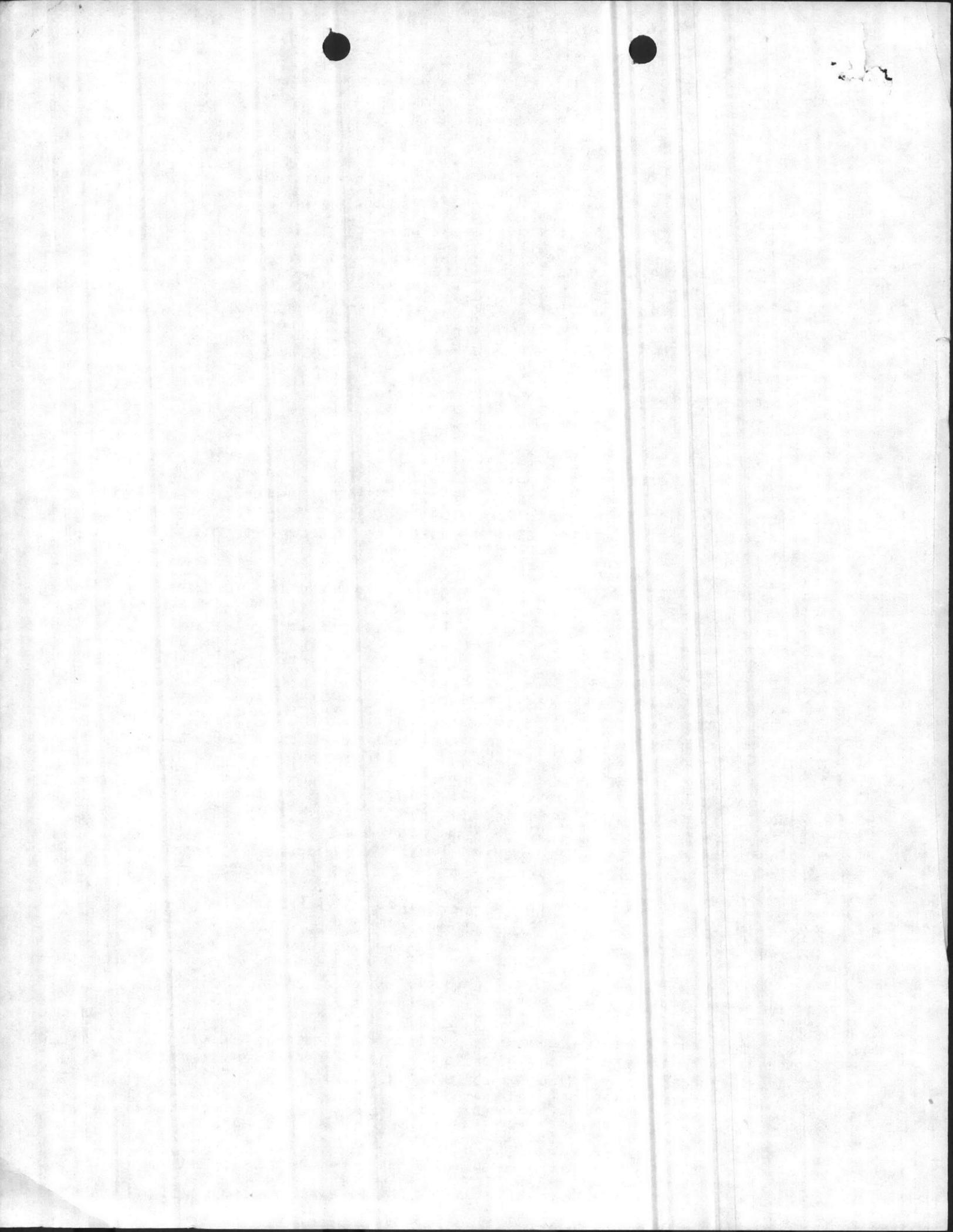
a. Combining the G-5/G-5A and G-6 Ranges into a single range for Tank, TOW and LVT firing (2d Marine Division) - No apparent environmental problem with the proposal if units abide by base red cockaded woodpecker guidelines contained in reference (e). Because of possible public controversy surrounding closing of Highway 172, the general public should be routinely made aware of training schedules requiring the closing of Highway 172.

b. Providing ground observation into the G-10 and K-2 impact areas by clearing excess trees in the buffer zone (2d Marine Division) - The attached map indicated red cockaded woodpecker habitat (including cavity trees) is within the proposed clearing zone. Formal consultation would be required.

(1) Large areas recommended for clearing in the K-2 and G-10 are protected wetlands. Clearing and grading should be coordinated with the U. S. Army Corps of Engineers.

(2) Use of chemicals for clearing and maintenance on this scale may have adverse impact and possible public controversy.

(3) Red cockaded woodpeckers, protected wetlands and the use of chemicals to remove vegetation necessitate an environmental assessment which requires Headquarters Marine Corps concurrence under reference (d).



Subj: Environmental Enhancement/Impact Review Board; meeting of

c. Creation of a Tactical Driving Range for Mechanized Units (2d Marine Division)

(1) It is estimated approximately 3,373 combined acres in the HA and HC areas of which approximately 1,800 acres are identified in forestry management as pine or pine hardwood forest. To conduct a timber harvest (thinning) would involve the removal of approximately 4½ million board feet of pine saw-timber and approximately 6,300 cords of pine pulpwood. A clearcut timber harvest would involve the removal of approximately twice as much timber products. Under ideal timber market and logging conditions, removal of the wood products would require several months. The current timber market is poor and the outlook for the next several months is also poor. Area sawmill companies are on a quota system with loggers operating only two or three days per week.

(2) The HA and HC areas are classified as wet due to soil types. If cleared and used as proposed, soil erosion and sedimentation will enter protected wetlands and state owned waters (i.e., Duck Creek, Goose Creek and New River). Engineering type structures to control soil erosion will be required as vegetative cover will not suffice. A coastal zone consistency statement will have to be filed with the state. Duck Creek, Goose Creek and New River waters and adjoining marsh and wetlands are inhabited by the endangered American Alligator which will require consultation ~~with~~ <sup>with</sup> the U. S. Fish and Wildlife Service.

(3) The base Prefinal Archaeological and Historical Study of Camp Lejeune identified four historic and one archaeological sites in the HC and HA areas which are eligible for listing in the National Register. Three additional sites are identified in the report as significant enough to warrant protection until further study can be accomplished by the base. Reference (d) states, "any activity proposed which would affect historical or cultural sites either now cited on the National Register of Historical Places or deemed eligible for inclusion on the National Register *requires an environmental assessment.*"

R. F. CALTA

