

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

5420/2  
FAC  
11 JUL 1986

From: Chairman, Environmental Enhancement/Impact Review Board  
Subj: MEETING OF ENVIRONMENTAL ENHANCEMENT/IMPACT REVIEW BOARD  
Ref: (a) BO 11015.2G  
(b) BO 11000.1B  
Encl: (1) Proposed Expansion of G-10 Impact Area  
(2) Detailed Concept Plan for Mechanized Maneuver Course  
(MMC)

1. In accordance with the provisions of references (a) and (b), a meeting of the subject Board is scheduled in the Conference Room of Building 1 at 1400, 17 July 1986. Advisors to the Board are also invited to attend.

2. The Board will review the enclosures and provide guidance to 2d Marine Division as the action sponsor. Enclosure (1) describes numerous environmental issues to be addressed in the proposed G-10 expansion, which requires preparation of an Environmental Assessment (EA). Further, enclosure (2) provides a detailed MMC plan as requested by the Board at the 30 January meeting. The MMC plan also requires an EA.

3. At the Board meeting, preparation of an EA for both projects by a team of Base and 2d Marine Division personnel will be discussed. Members and advisors knowing of other agenda items should notify the Chairman at extension 3034 as soon as possible prior to the meeting.

  
T. J. DALZELL

DISTRIBUTION:

(Members)

Rep, 2d MarDiv (G-4)

Rep, 2d FSSG (G-4)

Rep, 6th MAB (G-4)

Rep, MCAS, NR (S-4)

TFACO

MAIN

PWO

(Advisors)

Dir, NREA

SupvEcologist

BWildlifeMgr

BGame Protector, PMO

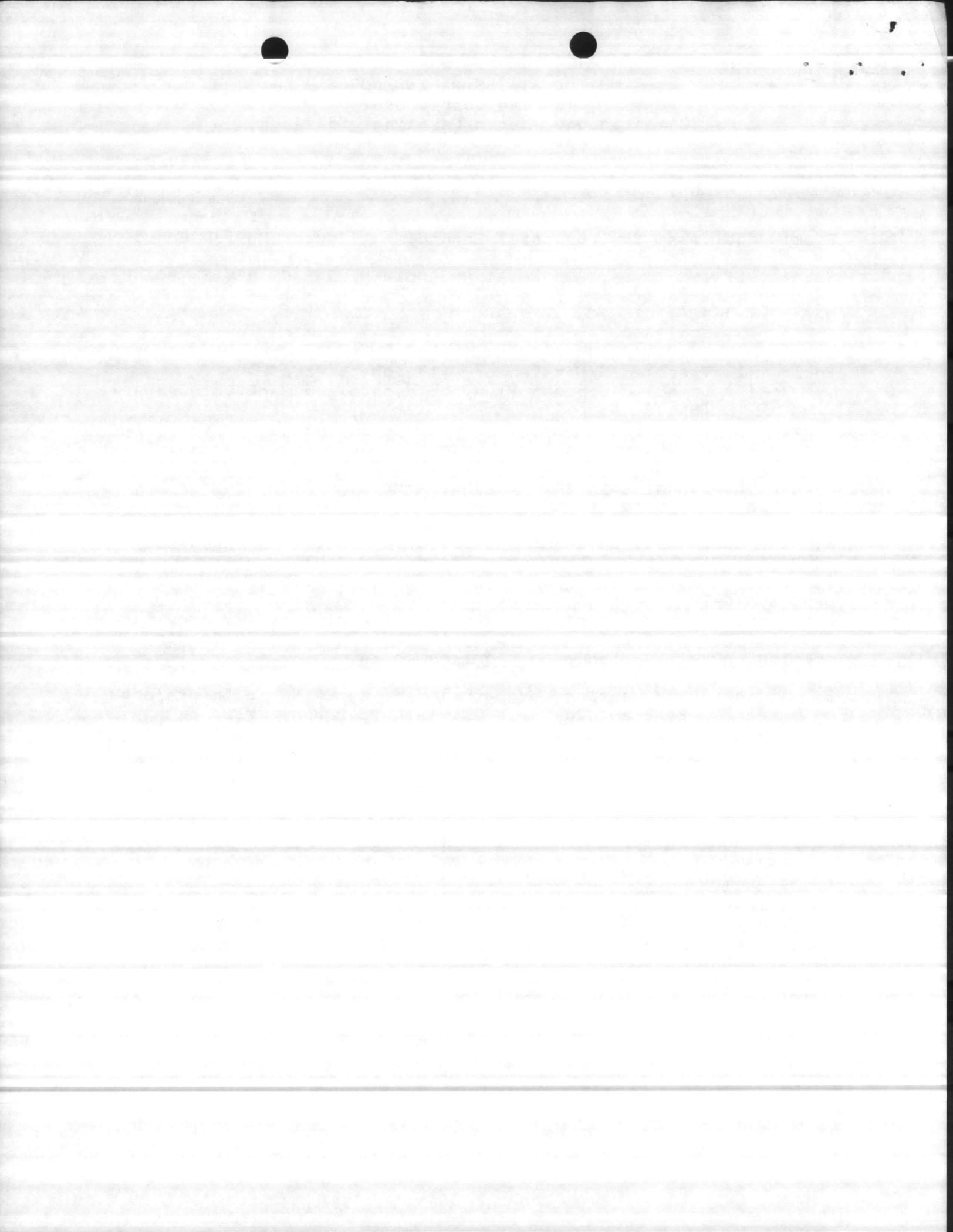
SAFD

SJA

DRMO

Ch, VetMed Svc, NH

Ch, Occup/PrevMed, NH





**UNITED STATES MARINE CORPS**  
10th Marines, 2d Marine Division, FMF  
Camp Lejeune, North Carolina 28542-5515

IN REPLY REFER TO  
11020  
CO  
29 May 86

From: Commanding Officer, 10th Marines  
To: Commanding General, 2d Marine Division, FMF (Attn: DivEngr)

Subj: REQUEST FOR ENVIRONMENTAL IMPACT REVIEW: G-10 EXPANSION/MOBILE  
OBSERVATION CIRCUIT COURSE

Ref: (a) PhonCon 10th Marines (Capt Matthews)/2d Marine Division (LtCol  
Marapoti) of 23 May 86  
(b) Base Order 11000.1B  
(c) CO, 10th Mar ltr 11102 CO 28 Feb 86  
(d) Meeting of 4 Feb 86 between 10th Marines, Range Control Off, EOD  
Off, and Base Environmental Engineer  
(e) CO, 10th Mar ltr 11019 CO of 15 Jan 86

Encl: (1) Proposed Expansion of G-10 Impact Area  
(2) Mobile OP Circuit Course  
(3) Initial Rough Environmental Disturbance of Affected Area Expansion  
(4) Factors for Enlargement of G-10 Impact Area

1. Pursuant to references (a) and (b) this request is submitted to commence the Environmental Impact Review of the G-10 Expansion/OP Circuit Course as initially proposed in enclosures (1) and (2).

2. The expansion of the G-10 Impact Area is considered necessary to enhance the capabilities of the G-10 Range, (references (c) and (e)), with respect to absorption of the effects from current and future fragmenting munitions. The proposed expansion of G-10 will afford greater flexibility for artillery, as the long axis of the G-10 Impact Area will be along the trajectories for a significant number of gun positions to the South and North. The Mobile OP Circuit Course will lend realism to F.O. training vice the static positioning that is currently used.

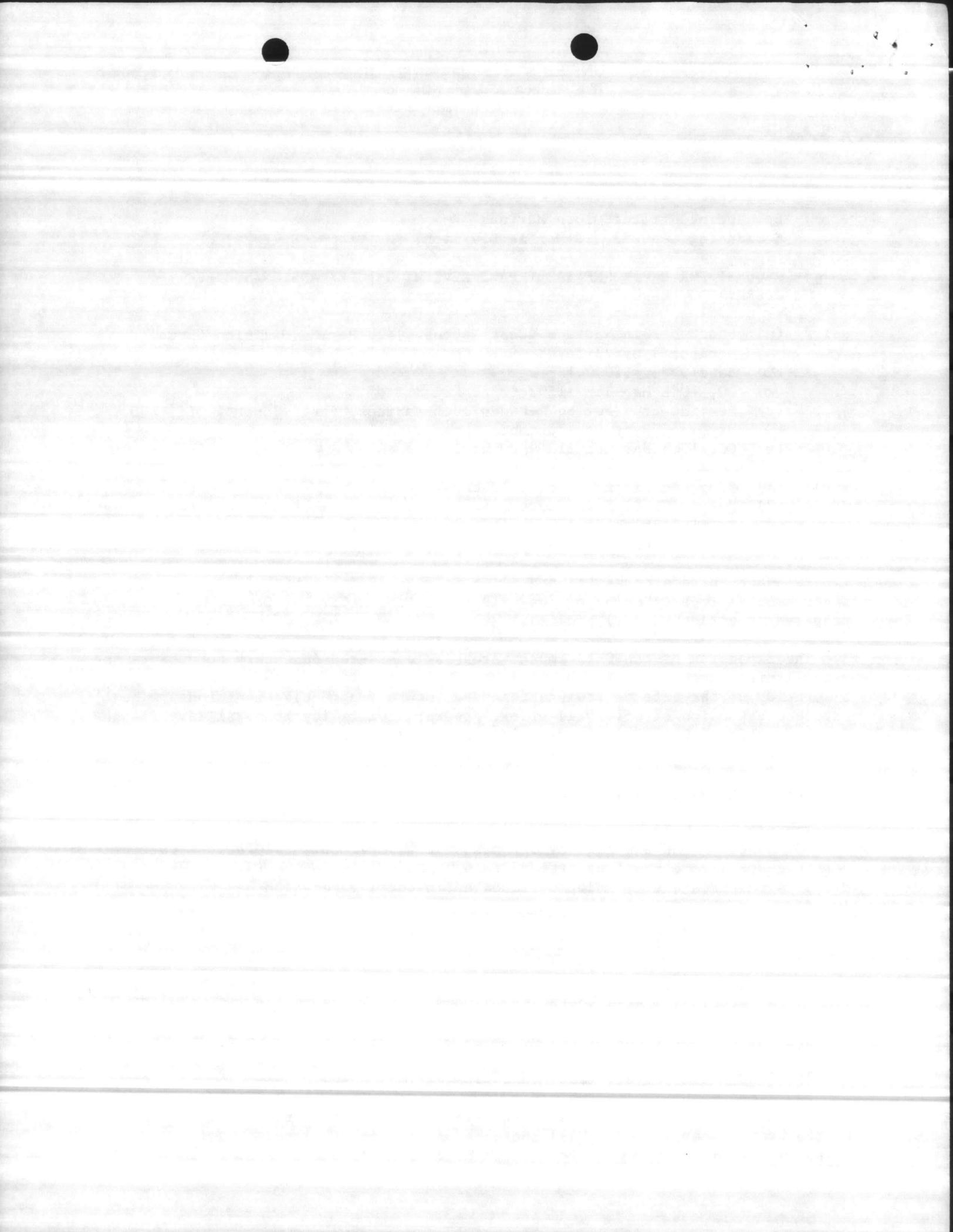
3. The parameters of future expansion of G-10 to the South towards the junction of Sneads Ferry Road and Highway 172 has several environmental factors to consider that are beyond the expertise of this command. Enclosure (3) graphically displays the area and by color outlines the natural vegetation/habitat that will be affected.

4. The Potential Environmental Impact/Considerations that must be addressed as required by reference (b) are as follows:

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

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

Encl (1)



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

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

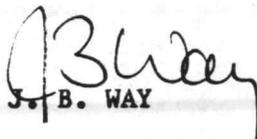
e. Natural Resources: Will there be a loss of forest land? YES. Will public access for hunting, boating, fishing, etc., be restricted? YES. Is there a change in land use from what is presently shown in Base Master Plan? YES. Will removal of existing vegetation be required? YES. Are there any known effects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

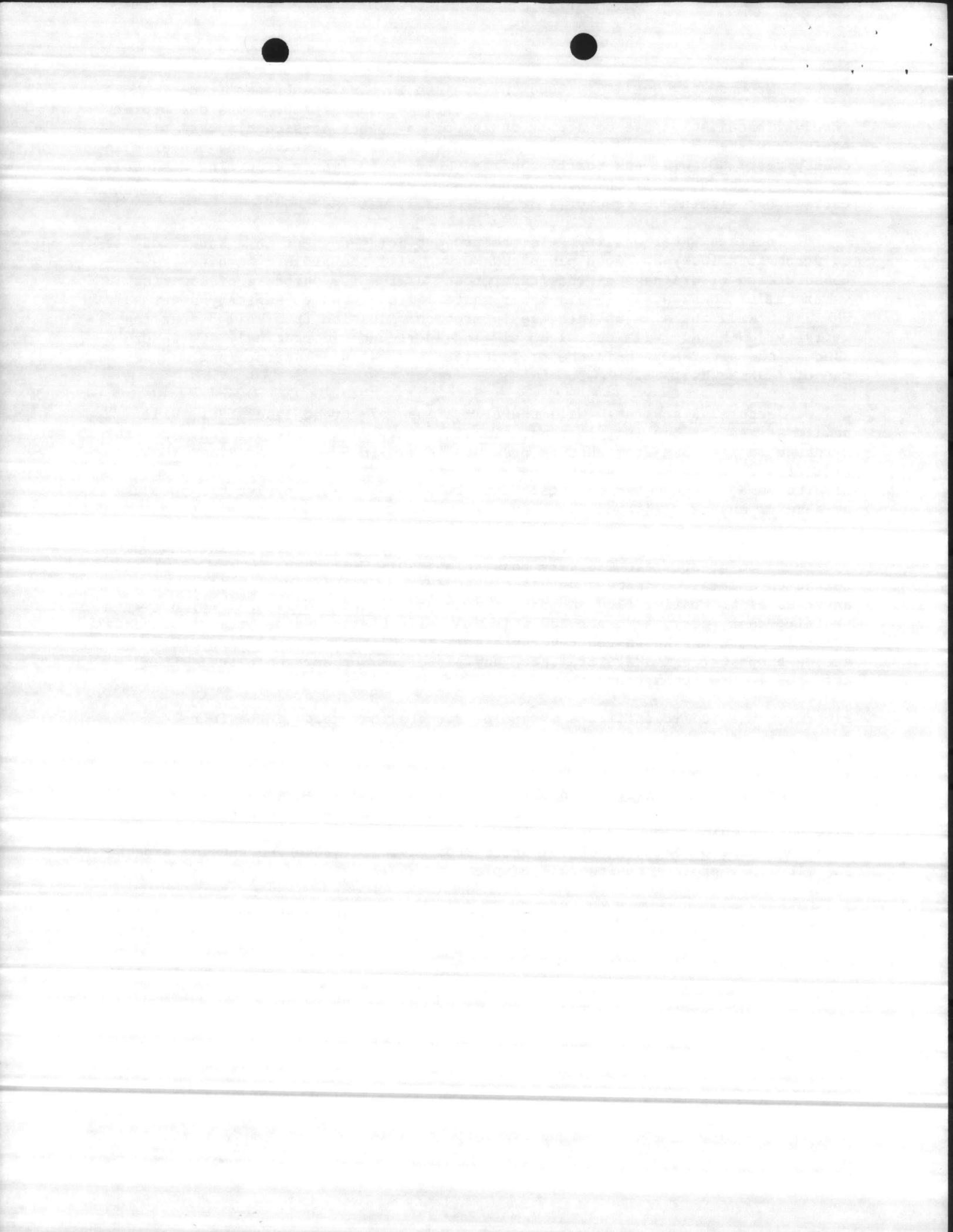
f. Socio-Economic Considerations: Will the project cause an increase/decrease in on or off-base military population? NO. Will there be any increased demand on a local or state government to provide services? NO. Will there be any changes to traffic flow and patterns on or off-base? NO. Will any noise,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

5. Reference (d) identified a myriad of factors that must be considered to bring this project on line. These factors are submitted as enclosure (4) and were used to answer many of the questions addressed in paragraph 4 above.

6. Based on the significant environmental issues addressed in enclosure (4), it is obvious that many issues remain to be resolved that require expertise external to this command's capabilities. The scope of impact on the environment will require the mustering of resources from Division, Base and outside experts to bring this project to its full completion.

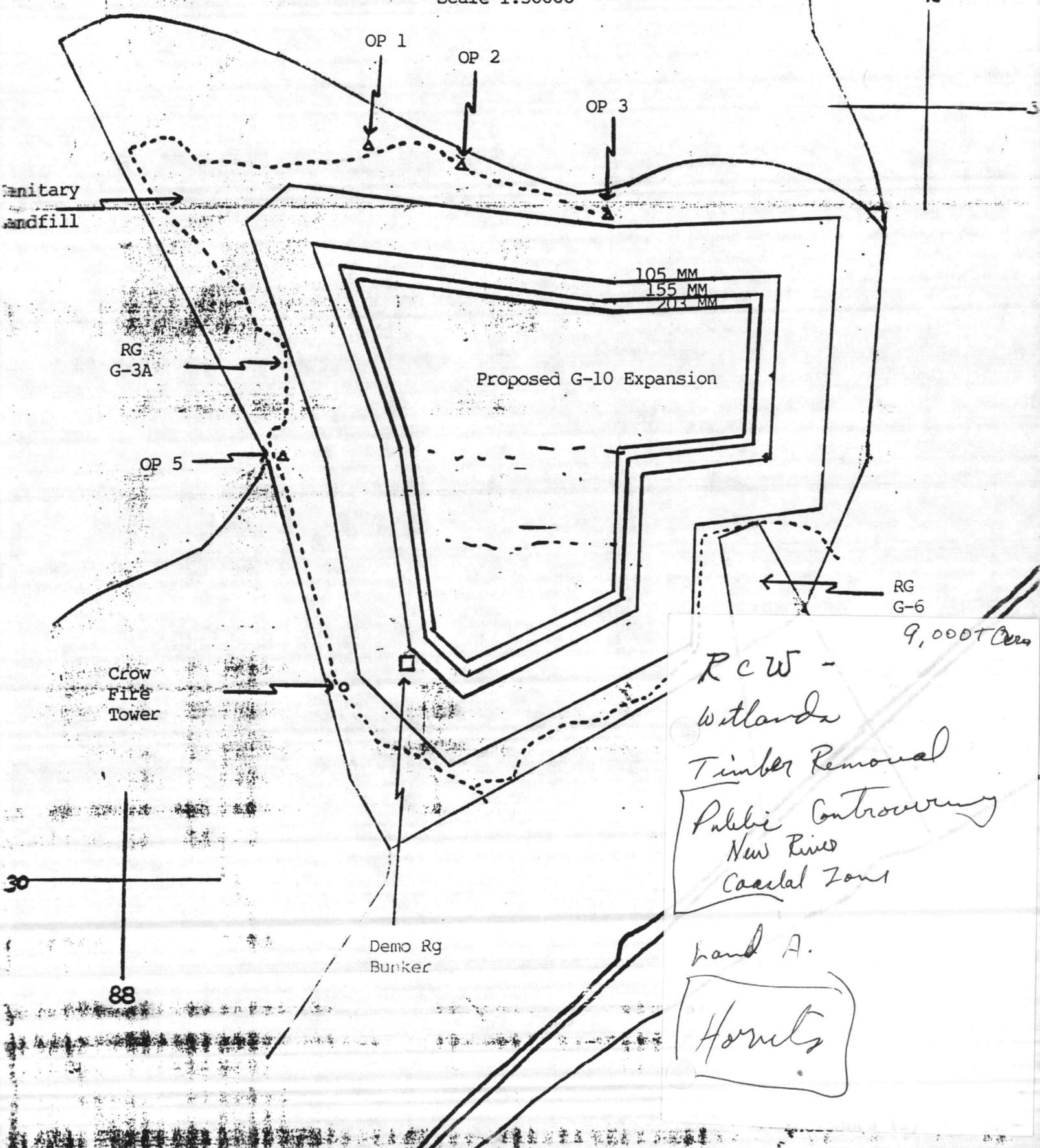
7. Captain P.J. Matthews is the point of contact for this subject and may be reached at either 5527 or 1640.

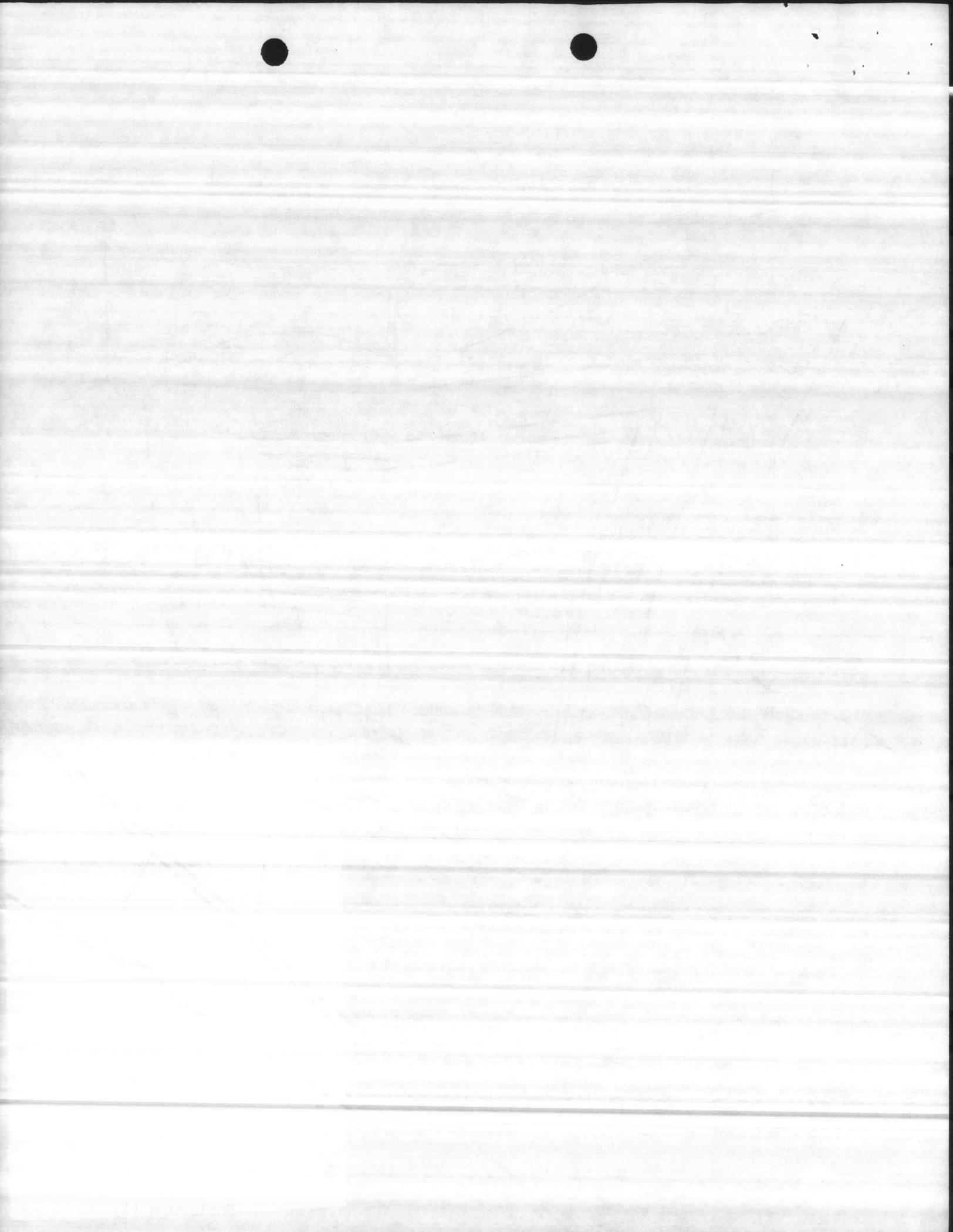
  
J. B. WAY



PROPOSED EXPANSION OF G-10 IMPACT AREA

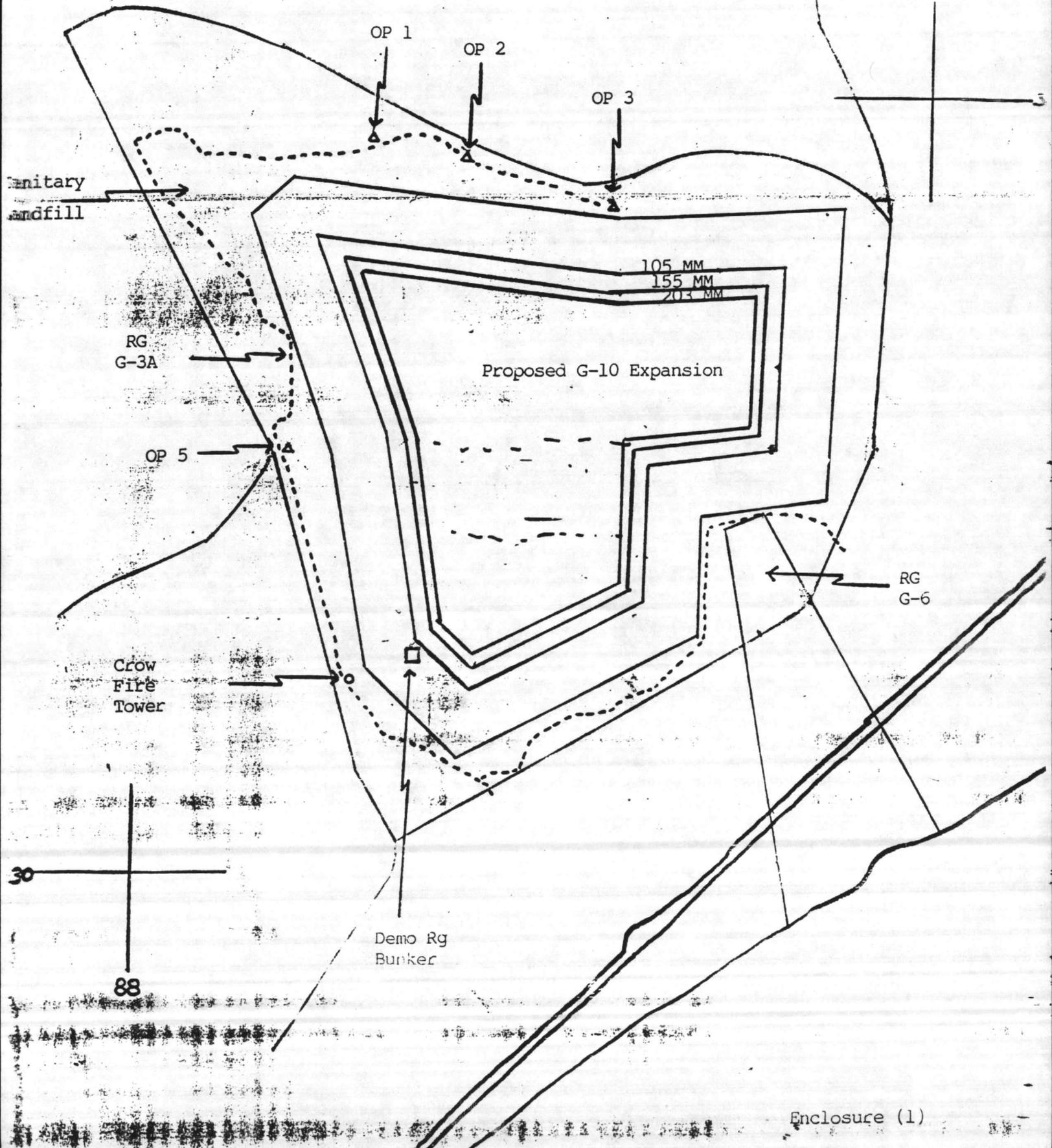
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PROPOSED EXPANSION OF G-10 IMPACT AREA

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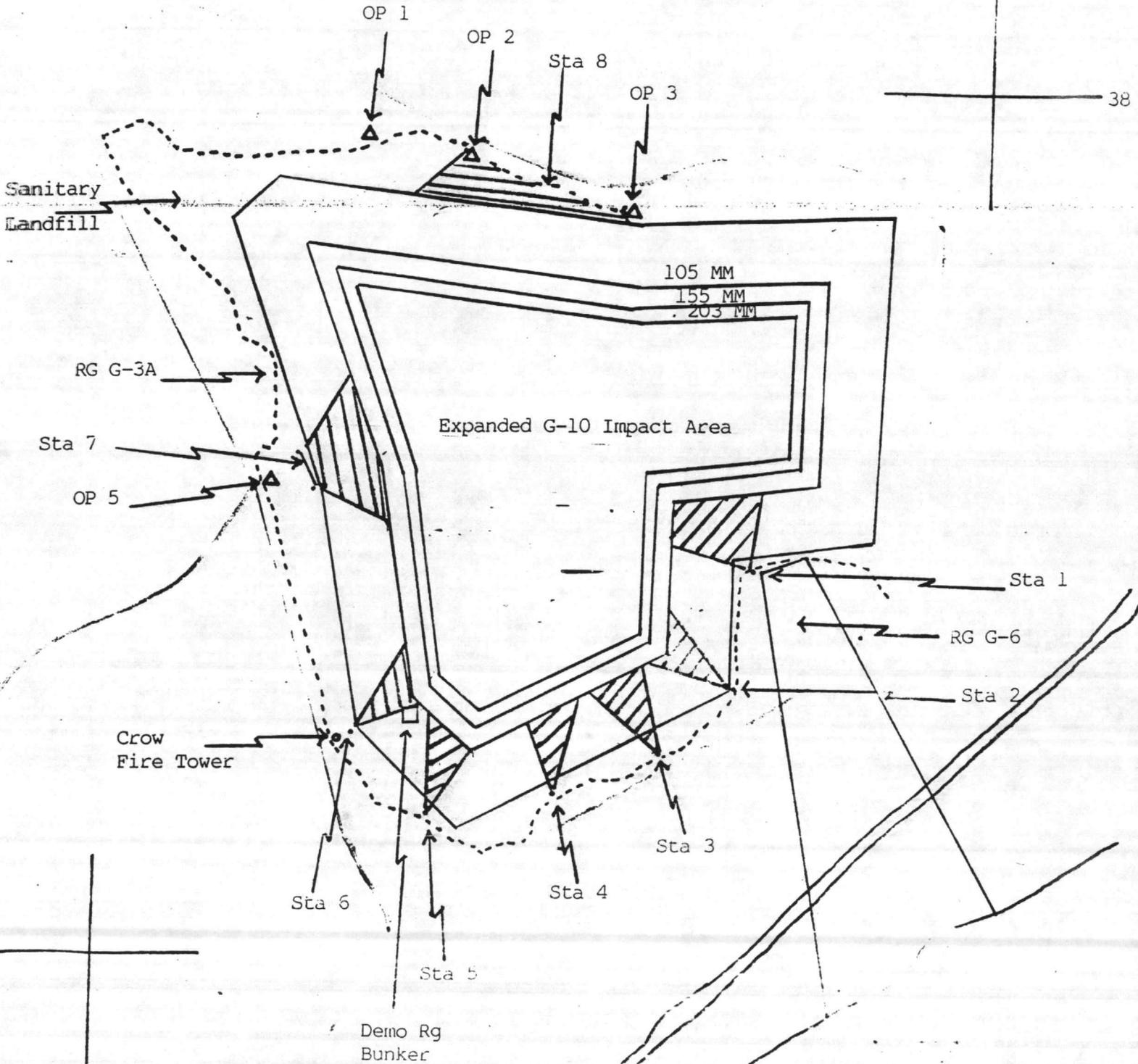




MOBILE OP CIRCUIT COURSE FOR AAV/LAV/TANKS AND WALKING COURSE STATIONS

Scale 1:50000

96



38

Sta 1

RG G-6

Sta 2

Sta 3

Sta 4

Sta 5

Sta 6

Demo Rg Bunker

Crow Fire Tower

RG G-3A

Sta 7

OP 5

Sanitary Landfill

105 MM  
155 MM  
203 MM

Expanded G-10 Impact Area

Sta 8

OP 2

OP 1

OP 3

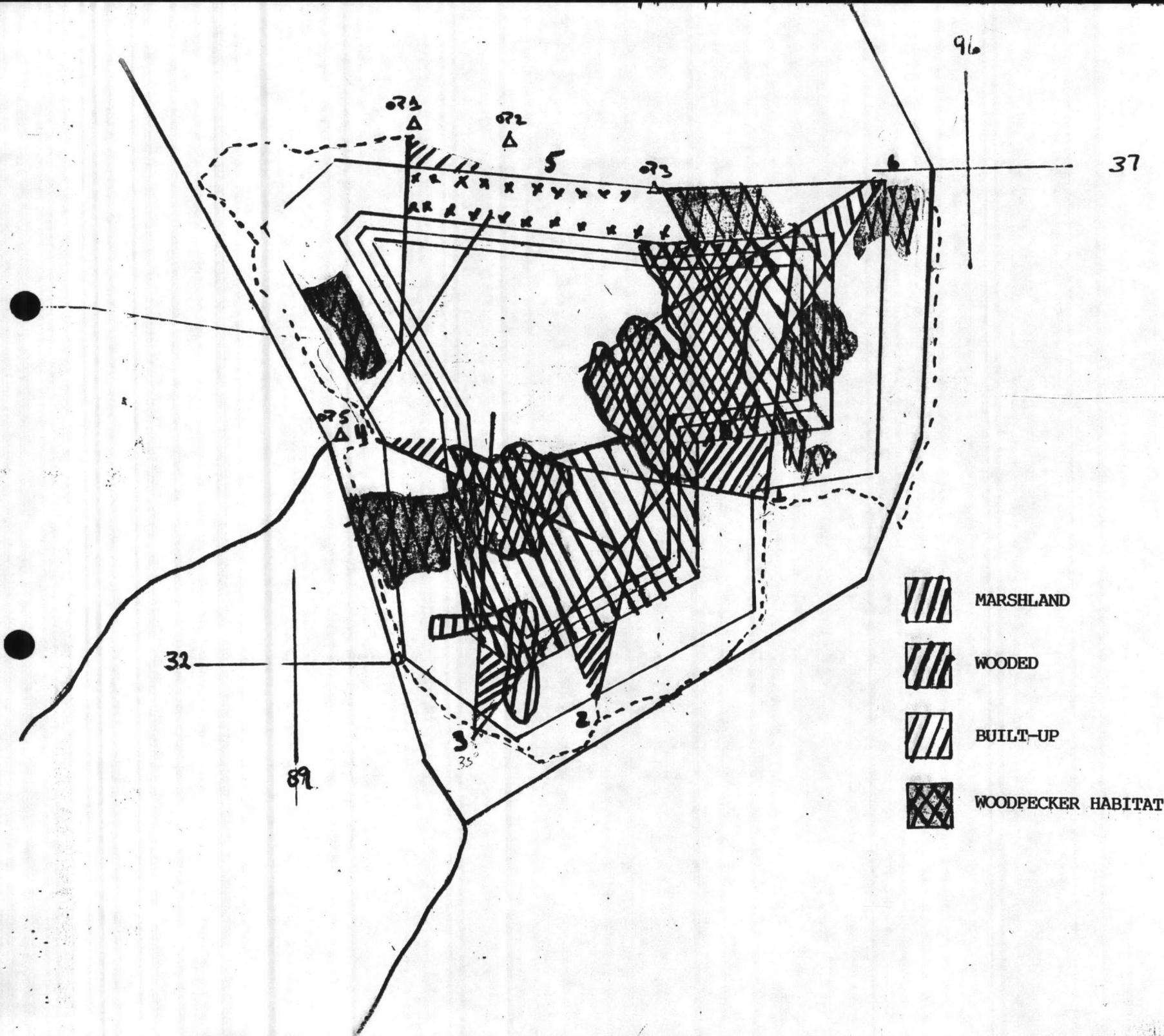
88

Mobile OP Course- Sta 1 to 8  
Walking Shoot - Sta 7 and 8

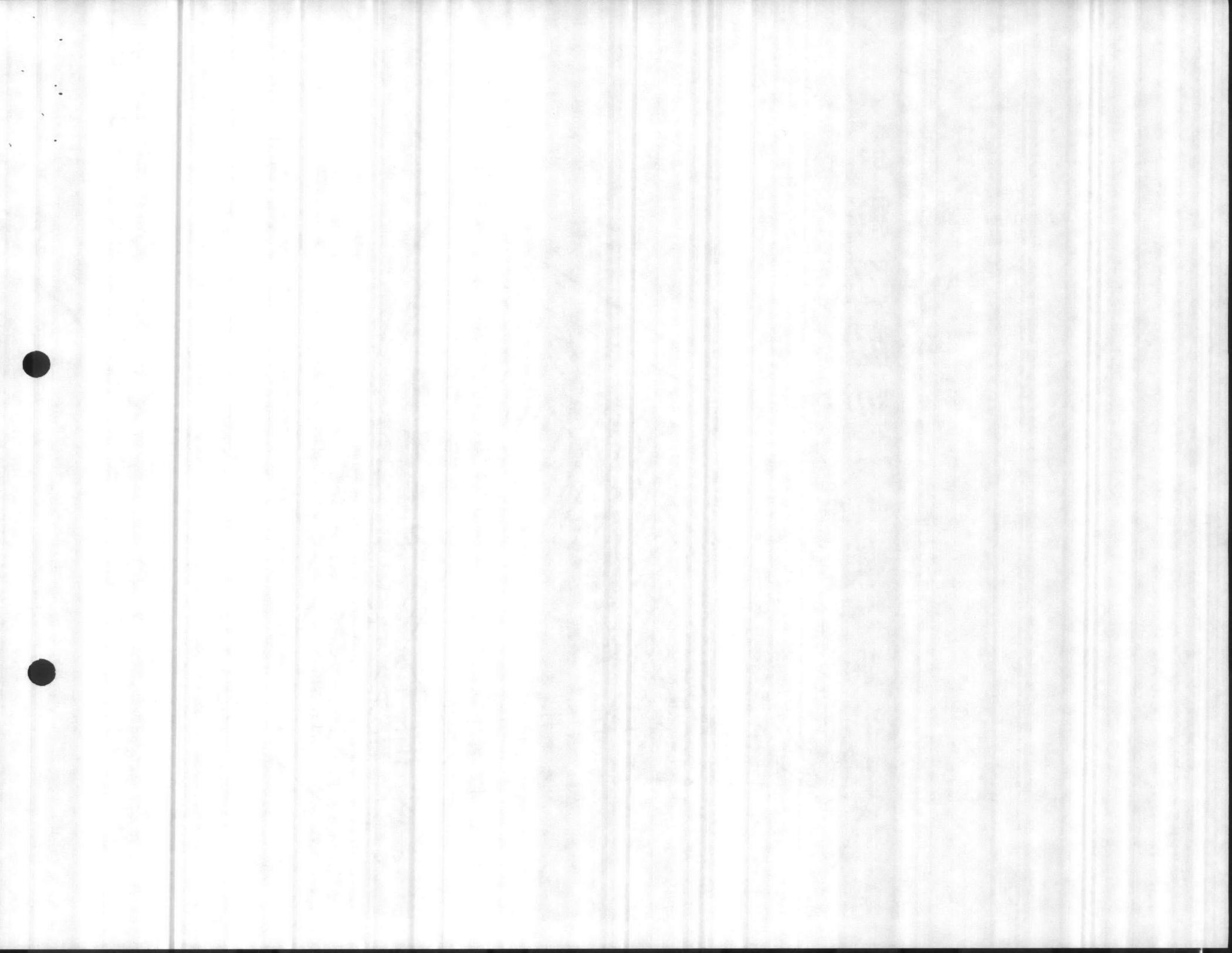
Mobile OP/Walking Course Station and Area of Observation to be Cleared ICW Defoliation of G-10 Impact Area

Enclosure (2)





ENCLOSURE (3)



\*

PROPOSED ENLARGEMENT OF G-10 IMPACT AREA

I. Factors to consider

- Personnel safety during artillery firing is a major concern driving the expansion.
- Encroachment on G-10 periphery by maneuver units and activities on firing ranges causes reduction by arty units of calculated boundary of target area.
- Firing certain types of arty ammunition (i.e., ICM) is currently prohibited due to inadequate size of impact area.
- Alignment of long axis of impact area with the direction of firing is needed to reduce restricted size of target area.
- Concurrent use of live firing ranges located on the periphery (G-3, G-3A, G-6) must be retained during arty firing into G-10.
- Relocated "F" ranges must also be compatible with use of G-10 as enlarged.
- Unrestricted use of Engineer Demo range vic TLZ Crow must be assured for firing line charge and cratering charges.
- Location of infantry mortar positions along G-10 periphery remains a requirement.
- Long-range arty trajectories into G-10 from <sup>most</sup> GP's west of New River are impeded by airspace restrictions and prohibitions on firing over inhabited areas and ammo dump.
- Maneuver warfare doctrine using mobile FO's in AAV's, LAV's and tanks can't be currently employed at MCB due to lack of visibility into G-10 from the periphery.
- Combined arms training using FO's with infantry can't be employed at MCB to dismount and conduct a "walking shoot" due to lack of visibility.
- The amount of off-base arty training <sup>of new GP's and improvements to</sup> is not reduced by only enlarging the G-10 IA; construction <sup>of new GP's and improvements to</sup> existing GP's would be needed to conduct all required arty training <sup>here</sup> ~~these~~, such as Regimental Firex's (using 27 GP's), vice Ft. Bragg.

\*

Draft comments from meeting b/w Range Control O,  
EOD O, 10th Mar Reg'l Safety O, & Env Engr, 4 Feb 86.



PROPOSED ENLARGEMENT OF G-10 IMPACT AREA (c'd)

I. Factors to consider (c'd)

- "Shoot-and-Scoot" arty training is not affected by the size of IA.
- MLRS (~~next~~ <sup>inert</sup> round) can't be fired here now because of small size of impact area (requires 7-8km-wide IA).
- Existing roads are adequate for target emplacement & maintenance.
- Obtaining visibility in some portions which can't be mechanically cleared may require use of chemical defoilants.

II. Environmental Issues Associated with Proposed Enlargement

- 1) Blast Noise: increased levels require documenting before-and after-levels affecting both on-base and off-base properties.
- 2) Endangered Species/Red-cockaded Woodpecker:
  - requires consultation with USFWS
  - addresses newly-found colony vic G-4
  - addresses impacts of clearing on existing colonies
  - uses data from 1985/86 population study
- 3) Wetlands
  - assumes minimal drainage improvements for area *requiring* maintenance by prescribed burning
  - uses data mapped by US Fish & Wildlife Service
  - clearing (and drainage improvements, if any) requires approval by USCOEngrs
- 4) Forest Management: *of*
  - requires mapping <sup>of</sup> areas to be harvested/cleared
  - needs estimate of volume of marketable timber affected
  - estimated long-term loss of revenue due to conversion to IA
  - *needs estimated schedule of harvesting program*
- 5) Wildlife Management:
  - define impact on Black Bear population
- 6) Coastal Management:
  - increased runoff into Freeman's Creek due to land clearing *should be addressed*
- 7) Arch/Historical Sites:
  - no known sites of significance



PROPOSED ENLARGEMENT OF G-10 IMPACT AREA

III. National Environmental Policy Act/MCO 11000.8B

- require Environmental Assessment (EA) for submission to the HQMC EIS Board *per MCO*
- recommend request LANTDIV develop EA





UNITED STATES MARINE CORPS  
2d Marine Division, Fleet Marine Force  
Camp Lejeune, North Carolina 28542-5500

IN REPLY REFER TO  
11000  
G-4 ENGR

25 MAR 1986

From: Commanding General, 2d Marine Division, FMF  
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina (Attn: AC/S Facilities Officer)

Subj: DETAILED CONCEPT PLANS FOR THE MECHANIZED MANEUVER COURSE

Ref: (a) CG 2d Mar Div ltr 11000, G-3 ENGR of 28 Jan 86  
(b) CG MCB ltr 5420/2 FAC of 11 Feb 86  
(c) Mtg btwn Div Engr; AC/S G-3T, 2d Mar Div; AC/S FacO and AC/S Trng/OPS, MCB, 13 Mar 86

Encl: (1) Map of Proposed Mechanized Maneuver Course

1. Reference (a) was a preliminary environmental assessment (PEA) on the subject course. Reference (b) requested a detailed concept plan for review by the next PEA Board. The plan is contained herein.

2. Overall Concept. The overall concept and description for the course is outlined in reference (a). Significantly, the course would provide the opportunity for Division units to fulfill much needed mechanized training which will enhance combat readiness. As proposed, the project would maximize the use of potential maneuver area real estate on the east side of the New River. The course is this command's highest priority project for FY-86/87. It is envisioned that the entire project would take 18-24 months and would principally involve the below activities:

-- Detailed Environmental Assessment:

Wetlands and Marshes  
Endangered Species  
Sediment Control  
Archeological

- Construct 5 additional tank crossing pads
- Construct approximately 4 miles of new tank trails (with log post borders within woodpecker habitats)
- Prepare three bridge sites for standard (tactical) bridging
- Prepare three new gun sites
- Improve five splash points for AAV, LAV and float bridging
- Construct a Soviet strong point (company (+) )

3. Time Table. Contingent upon approval by State environmental agencies, it is desired that the development of the maneuver course follow the below plan:

a. Phase I (1 Jun 1986 - 1 Jan 1987)

1. Partial completion of Mobility/ Counter Mobility Course, i.e., (20%) by 1 June 1986. This involves:

- Clearing/thinning of approximately 100x800 meters of the proposed course
- Excavation of 3 anti-tank ditches 5 meters (m) wide x 3 m deep x 100 m long

Encl (2)



2. Timber harvesting of 25-30% of identified areas within the battle area. Priority of effort starts at Soviet strong point working Southward.

3. Completion of 2 bridge sites  
-- 875273  
-- 862284

4. Completion of tank trail from 872268 to 881281

5. Prepare 2 new gun sites  
-- 877294  
-- 843320

6. Complete 25% of the Soviet strong point

b. Phase II (1 Jan 1987 - 1 July 1987)

1. Construct 3 tank crossing pads  
-- 881281  
-- 856290  
-- 838305

2. Complete 50-75% of timber harvest

3. Complete new tank trail from 881281 to 867304

4. Complete bridge site 867328

5. Prepare 1 new gun site  
-- 846330

6. Prepare 1 new splash point at 824312

7. Complete 75% of Soviet strong point

c. Phase III (1 July 1987 - 1 January 1988)

1. Construct 2 tank crossing pads  
-- 845293  
-- 865316

2. Complete 75-100% of timber harvest

3. Complete tank trail from 865316 to 866332

4. Prepare 3 new splash points  
-- 828315  
-- 836327  
-- 843336

5. Complete Soviet strong point

d. Phase IV (1 January 1988 - 30 September 1988)

1. Prepare 1 splash point @ 843343

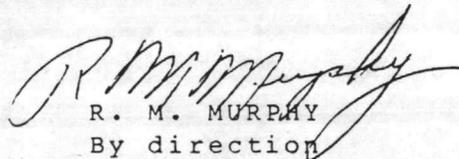


4. Environmental Assessment (EA). Reference C noted a potential delay of 4-6 months in accomplishing the EA. This command is prepared to assist in the completion of an EA in whatever capacity that will expedite the process. It is our intention as well as yours to meet the project goals and milestones.

5. Construction Plan. All construction, with the possible exception of the tank crossing pads, can be accomplished by troop training (active or reserve USMC or USN engineer units). The feasibility of Seabee units constructing the tank crossing pads will be explored with the FMFLant engineer by this command.

6. Funding. At the present time it appears that the principal source of funding will be minor construction funds. However, additional funding should be sought from higher headquarters such as FMFLant or CMC because of the training enhancements gained for current and planned mobility and firepower systems.

7. Points of contact at this headquarters are LtCol J. A. Marapoti, Division Engineer, extension 2302, for facilities and engineering issues and LtCol G. Humble, Division Training Officer, extension 3026.

  
R. M. MURPHY  
By direction

Copy to:

AC/S, G-3  
CO, 10th Mar  
CO, 2d AAV Bn  
CO, 2d LAV Bn  
CO, 2d CEB Bn

