CAMP LEJEUNE, N.C. AREA STUDY



31 JANUARY 1985





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

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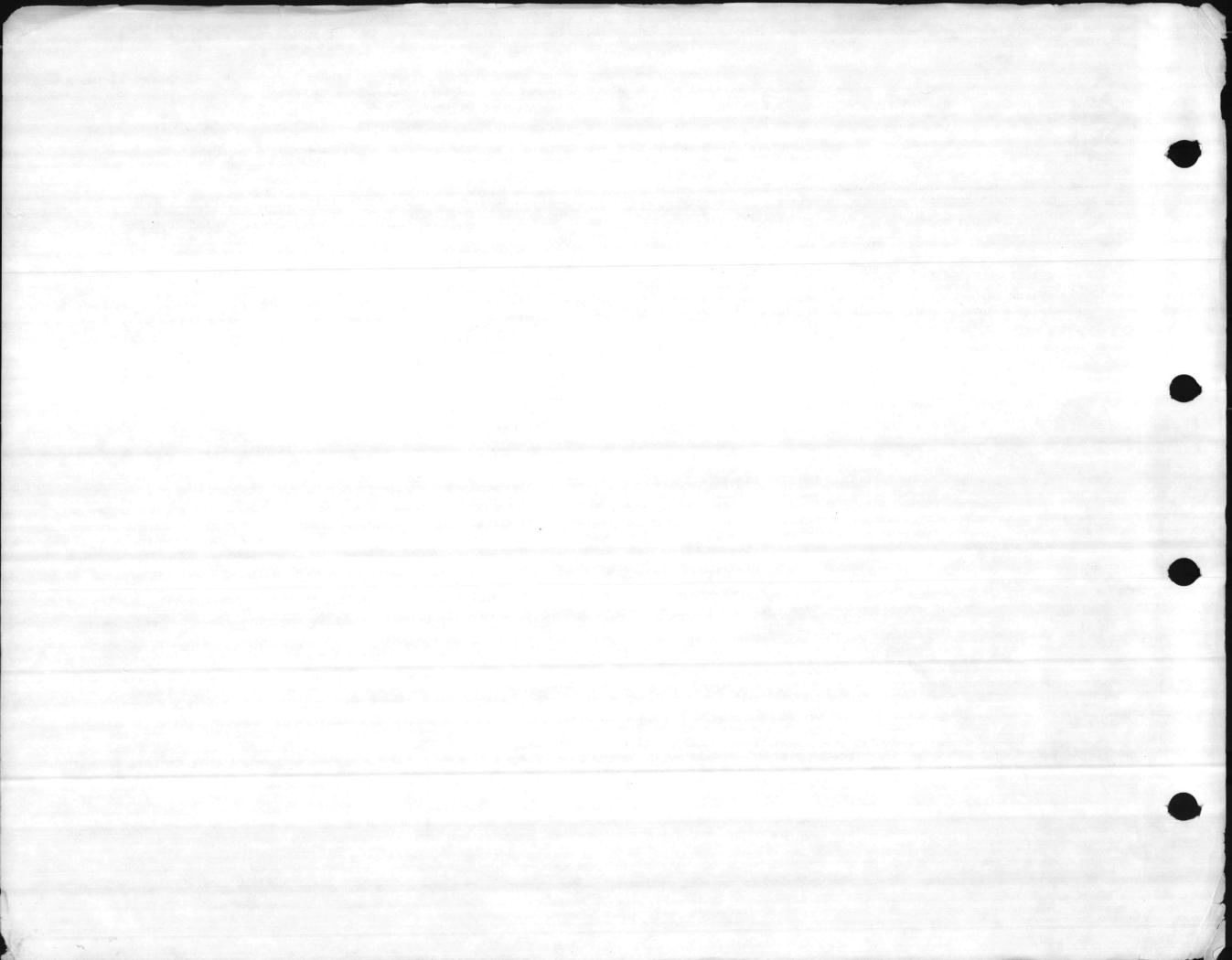


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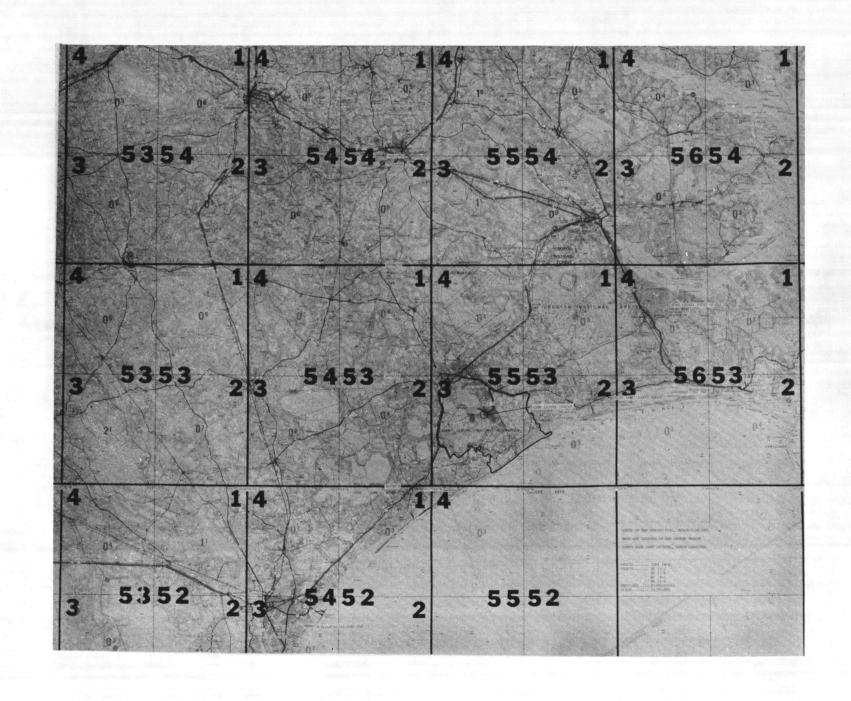
NOTE: SOFT B. E. NUMBERS AND FUNCTIONAL CLASSIFICATION CODES HAVE BEEN ASSIGNED TO GRAPHICS WITHIN THIS STUDY.

ALL PERSONNEL SHOULD LEARN TO REFER TO THESE ITEMS TO ENHANCE THEIR UNDERSTANDING OF THERE USAGE.

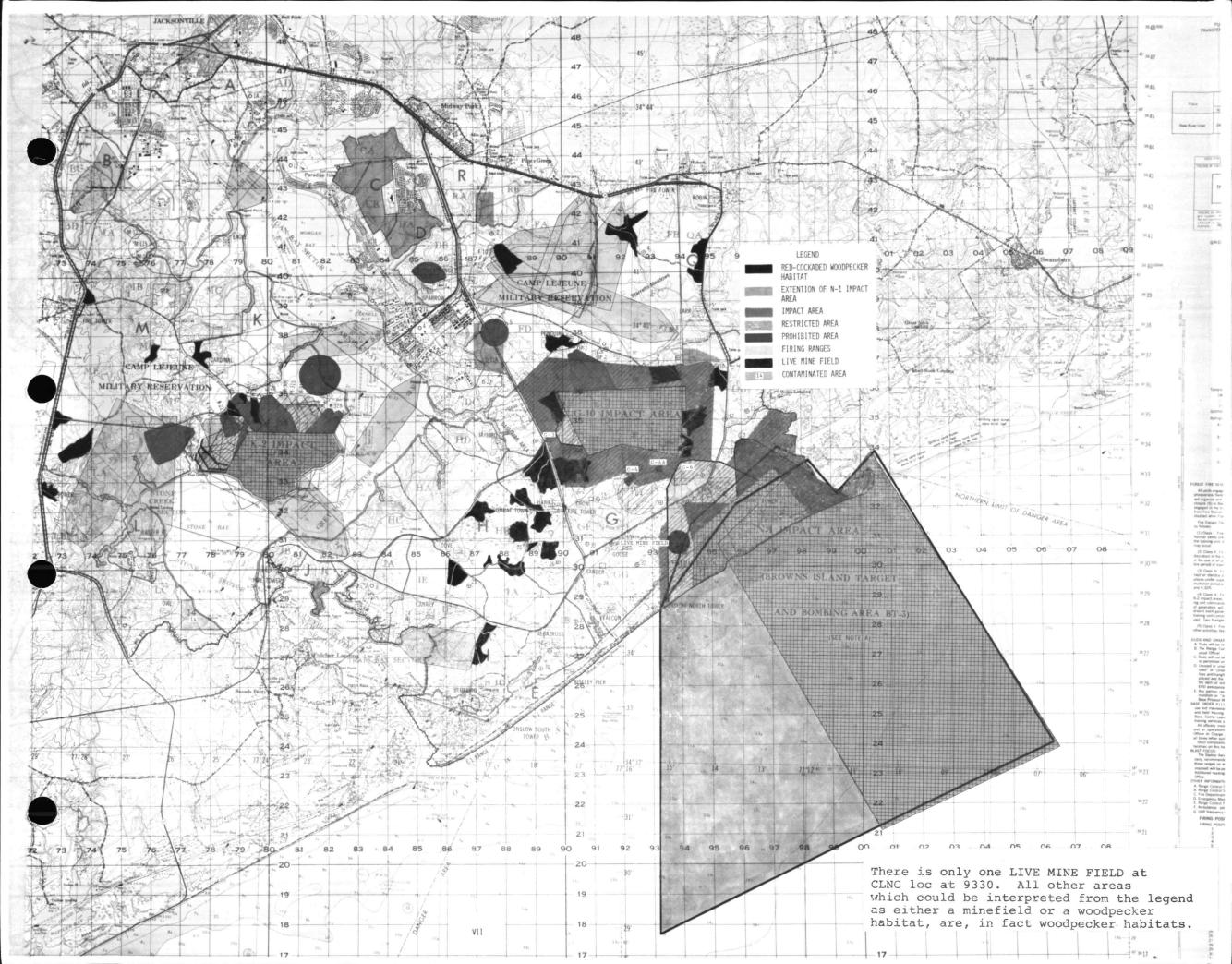
DURING A REAL WORLD CONTINGENCY A MARINE WILL NOT HAVE THE LUXURY OF HAVING A NAME ONLY TO REFER TO REAL WORLD LOCATIONS. HE WILL SEE B. E. NUMBERS, FUNCTIONAL CLASSIFIED CODES AND GEOGRAPHIC COORDINATES.

WITH THIS IN MIND, MARINES SHOULD ADAPT THIS IN THEIR EVERYDAY TRAINING EFFORTS.

INDEX TO 1:50,000 MAPS AROUND CAMP LEJEUNE N.C.



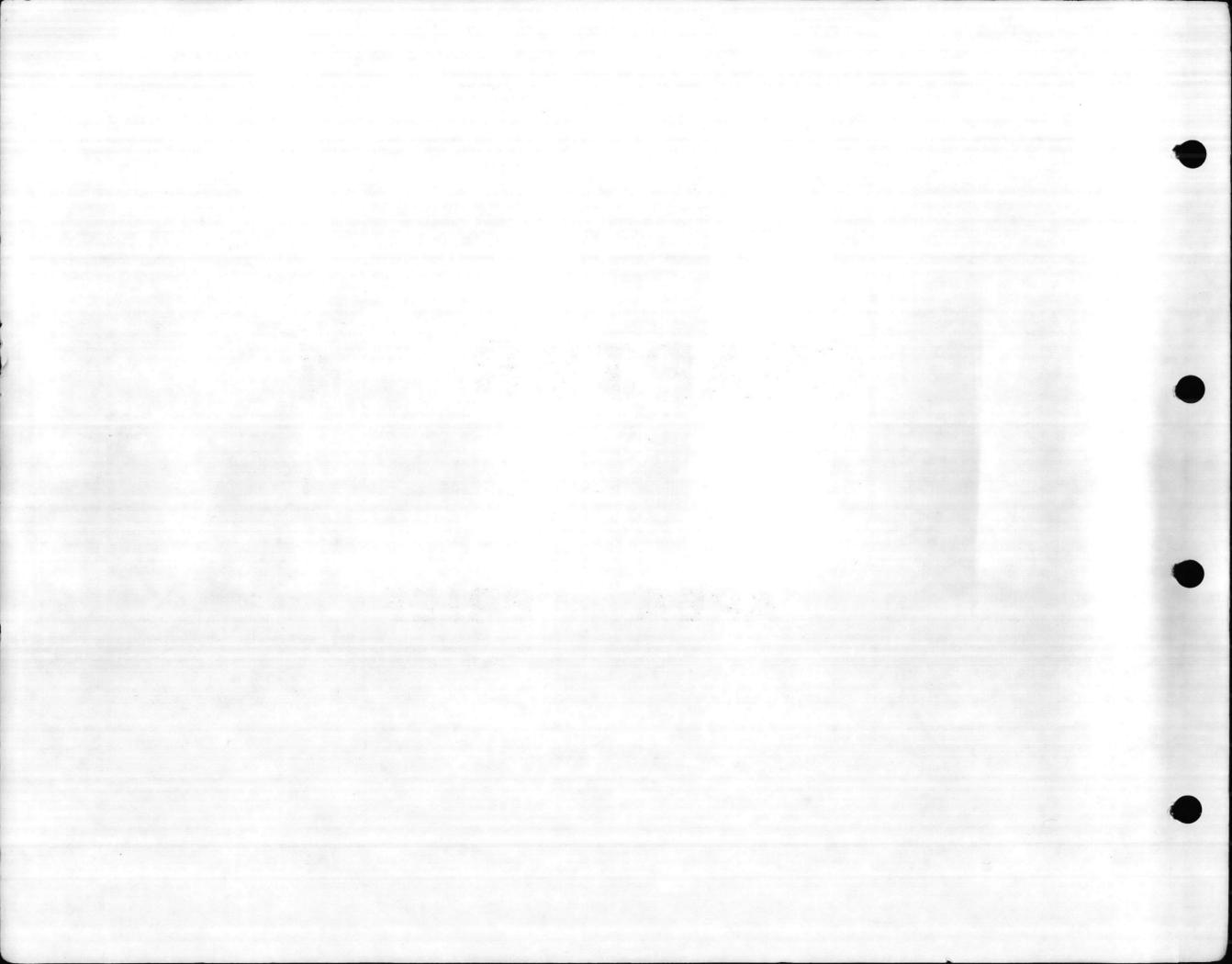
All information depicted on the following Camp Lejeune Special Map is based on data submitted by units of Camp Lejeune during June and July 1984. This data is currently under question by using units and is being revised. The 2d Topographic Platoon, Camp Lejeune is the focal point and producer of an updated revision of the Camp Lejeune Special Map. This new revision is not expected to be completed prior to FY 86. With this in mind, units are requested to contact Range Control on matters that may concern limits, restrictions, movements and any other questions that unit commanders may ask on training.





CHAPTER 1

AREA BRIEF



AREA STUDY OF MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
"THE WORLD'S MOST COMPLETE AMPHIBIOUS TRAINING BASE"

1. PURPOSE AND LIMITING CONSIDERATIONS

- A. PURPOSE. THE PRIMARY PURPOSE OF THIS AREA STUDY IS TO COMPILE A DETAILED, CONCISE ANALYSIS OF MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA AND ITS
 TRAINING AREAS, TO BE UTILIZED BY COMMANDS AND UNITS IN THE PLANNING AND DEVELOPMENT OF TRAINING PROGRAMS OR FIELD EXERCISES TO ENHANCE AMPHIBIOUS OPERATIONS AND
 TACTICS.
- B. LIMITING CONSIDERATIONS. INFORMATION PRESENTED IN THIS STUDY IS BASED ON DATA DERIVED FROM AERIAL IMAGERY COLLECTED DURING 1983 AND 1984, UPDATED MAPS, AND DOCUMENTS PRODUCED PRIOR TO AUGUST 1984. CURRENT CONSTRUCTION WITHIN CAMP LEJEUNE MAY ALTER AREAS OF CONCERN, AND INFORMATION PRESENTED HEREIN SHOULD BE VERIFIED WITH RANGE CONTROL OR BASE FACILITIES DIVISION.

2. PHYSICAL DESCRIPTION, TRANSPORTATION/LINES OF COMMUNICATION AND USE

- A. PHYSICAL DESCRIPTION. MARINE CORPS BASE, CAMP LEJEUNE IS LOCATED ON THE COASTAL PLAIN REGION OF EASTERN NORTH CAROLINA WITHIN ONSLOW COUNTY. THE BASE EXTENDS FROM THE CITY OF JACKSONVILLE APPROXIMATELY 15 MILES EAST IN AN IRREGULAR SHAPE TO BORDER THE ATLANTIC OCEAN ALONG A 14 MILE OCEAN FRONTAGE PARALLELING THE INTRACOASTAL WATERWAY (ICW). THE OCEANFRONT EXTENDS FROM BEAR INLET AT THE NORTHEAST TO NEW RIVER INLET IN THE WEST SOUTHWEST, WITH BOTH INLETS DRAINING INTO THE ATLANTIC OCEAN. CAMP LEJEUNE IS THE WORLD'S LARGEST AMPHIBIOUS TRAINING BASE, COVERING APPROXIMATELY 83,585 ACRES OF LAND AND 26,000 ACRES OF WATER FOR A TOTAL OF APPROXIMATELY 109,585 ACRES. MARINE CORPS AIR STATION (HELICOPTER), NEW RIVER IS CONTAINED WITHIN THE BOUNDARIES OF CAMP LEJEUNE, OCCUPYING AN AREA OF APPROXIMATELY 3,728 ACRES WHICH IS NOT INCLUDED IN THE TOTAL LAND AREA OF CAMP LEJEUNE.
- B. TRANSPORTATION/LINES OF COMMUNICATION. CAMP LEJEUNE IS SERVICED BY FIVE MAJOR HARD SURFACE, ALL WEATHER, 2 TO 4 LANE ROADWAYS, WHICH ARE DESIGNATED AS

- U. S. HIGHWAY 17 AND NORTH CAROLINA ROUTES 24, 258, 172 AND 210. RAIL SERVICE IS PROVIDED BY NORFOLK SOUTHERN AND SEABOARD COAST LINE BRANCHES WHICH CONNECTS CAMP LEJEUNE WITH THE URBAN AREA OF WILMINGTON (184 RAIL MILES SOUTHWEST VIA NEW BERN AND GOLDSBORO). THE CAMP LEJEUNE RAILROAD BRANCH TRAVELS TO MARINE CORPS AIR STATION, CHERRY POINT, 32 MILES EAST NORTHEAST AND THEN ON TO MOREHEAD CITY. THERE ARE TWO DEEP WATER PORTS AVAILABLE TO CAMP LEJEUNE, WHICH ARE LOCATED AT WILMINGTON AND MOREHEAD CITY, THE LATTER BEING 46 MILES NORTHEAST ALONG NC ROUTE 24. THE ICW EXTENDS ALONG THE 14 MILES OF HURST/ONSLOW BEACH WHICH FORMS THE CAMP LEJEUNE SOUTHEAST BOUNDRY. MOVEMENT ACROSS THE WATERWAY IS CHANNELIZED TO THE ONSLOW BEACH DRAWBRIDGE AND SELECTED RIVER CROSSING SITES. TERRAIN WITHIN THE BASE IS GENERALLY FLAT AND SANDY WITH SWAMPLAND/MARSH AREAS ALONG THE STREAMS, RIVERS AND BAYS. CROSS-COUNTRY TRAFFICABILITY VARIES ACCORDINGLY. COMMUNICATIONS INLAND WITHIN THE STUDY AREA ARE CONSIDERED VERY GOOD TO EXCELLENT. SEE CHAPTER 5 (BEACH STUDIES)
- C. CONDITIONS FOR USE. CONDITIONS FOR CONDUCTING FIELD TRAINING

 EXERCISES WITHIN CAMP LEJEUNE ARE CONSIDERED FAVORABLE THROUGHOUT THE

 YEAR. HOWEVER, THE MARCH THROUGH JUNE PERIOD PROVIDES THE MOST FAVORABLE

 HYDROGRAPHIC CONDITIONS FOR AMPHIBIOUS OPERATIONS ACROSS ONSLOW BEACH AND THE

 ICW. SEE CHAPTER 5 (BEACH STUDIES) FOR DETAILED INFORMATION. NATURAL

 OBSTACLES TO AMPHIBIOUS OPERATIONS AND MOVEMENT INLAND ARE THE ICW, NEW RIVER

 INLET, BROWNS INLET, BEAR INLET, SMALL STREAMS WITHIN THE STUDY AREA AND SWAMP/

 MARSHLANDS. MAN-MADE OBSTACLES ARE CONSTRUCTED FOR SPECICIC TRAINING/EXERCISE

 PURPOSES AND ARE REQUIRED TO BE DISASSEMBLED AFTER TRAINING IS COMPLETED. A

 SYSTEMATIC CHECK OF THE AREA TO BE UTILIZED SHOULD BE ACCOMPLISHED PRIOR TO

 ANY COMMENCEMENT OF TRAINING. SEE CHAPTER 2 (TRAINING AREAS) FOR INFORMATION

 ON NATURAL AND PERMANENT MAN-MADE OBSTACLES. PRECIPITATION MAY HAMPER CROSS
 COUNTRY MOVEMENT (CCM) WITHIN THE CAMP LEJEUNE TRAINING AREAS. SEE CHAPTER 7

(CLIMATOLOGY) FOR INFOMATION ON PRECIPITATION AVERAGES.

3. WEATHER/CLIMATOLOGY AND VISIBILITY

- A. WEATHER/CLIMATOLOGY. WEATHER AND CLIMATE STATISTICS PROVIDED IN THIS STUDY ARE DERIVED FROM A PERCENTAGE OCCURENCE PATTERN AND WILL BE AFFECTED BY EXTREMES. THE CLIMATE OF CAMP LEJEUNE IS CONSIDERED FAVORABLE FOR AMPHIBIOUS OPERATIONS THROUGHOUT THE YEAR. OPERATIONS MAY BE RESTRICTED BY SUDDEN TROPICAL STORMS AND HURRICANES. THESE ADVERSE WEATHER CONDITIONS USUALLY OCCUR BETWEEN JULY AND LATE OCTOBER. SEE CHAPTER 7 (CLIMATOLOGY) FOR SPECIFIC WEATHER INFORMATION.
- B. <u>VISIBILITY</u>. LOW CEILING CLOUDS AND FOG CAN BE EXPECTED IN THE FALL AND WINTER MONTHS WITH THE PASSING OF WARM FRONTS FROM THE NORTHEAST. THESE CONDITIONS ARE USUALLY OF SHORT DURATION AND IN MOST CASES OF NO MAJOR CONSEQUENCE TO OPERATIONS IN THE AREA.

4. TOPOGRAPHY

- A. <u>RELIEF</u>. TERRAIN WITHIN THIS STUDY EXTENDS FROM SEA LEVEL TO A MAXIMUM ELEVATION OF 72 FEET, WITH THE MAJORITY OF THE SURFACE BEING FLAT. SEE CHAPTER 1 (RELIEF OVERLAY).
- B. <u>DRAINAGE</u>. THE AREA WITHIN THIS STUDY IS DRAINED BY SMALL CREEKS AND STREAMS EMPTYING INTO THE NEW RIVER. LAND BORDERING WATERWAYS IS GENERALLY SWAMPY AND NOT CAPABLE OF SUPPORTING VEHICULAR TRAFFIC WITHOUT MATTING OR BUILD UP. THE NEW RIVER AND ICW BOTH ARE NAVIGABLE TO WATERCRAFT, WITH CHANNELS DREDGED TO A REPORTED MEAN LOW WATER DEPTH OF 6 AND 12 FEET RESPECTIVELY. SEE CHAPTER 1 (DRAINAGE OVERLAY)
- C. <u>VEGETATION</u>. DENSE GROWTHS OF A VARIETY OF PINES (I.E., LOBLOLLY, LONGLEAF, SLASH), HARDWOODS (I. E., NATTALL OAK, WATER OAK, AMERICAN SYCAMORE) AND UNERGROWTHS OF SCRUBS AND VINES ARE SPREAD THROUGHOUT THE STUDY AREA. TERRAIN BORDERING WATERWAYS IS MOSTLY SWAMPY AND IS VEGETATED PREDOMINATELY WITH MARSH GRASS, AND SCRUBS. TREES RANGE FROM 10 TO 90 FEET IN HEIGHT AND THE GRASS, SCRUBS AND VINES RANGE FROM 3 TO 12 FEET EXCEPT FOR CLEARED AREAS.

CROSS-COUNTRY MOVEMENT IS CHANNELIZED AND CONTROLLED BY VEGETATION. SEE CHAPTER 1 (VEGETATION OVERLAY, PENDING).

- D. SURFACE MATERIAL. SOIL COMPOSITION IS PRIMARILY SAND, LOAM, SILT, CLAY AND VARIOUS COMBINATIONS THEREOF. A MORE DETAILED ANALYSIS OF SURFACE MATERIAL IS FOUND WITHIN CHAPTER 2 (TRAINING AREAS). SWAMP AND MARSH AREAS ARE NUMEROUS AND NORMALLY LOCATED NEAR SWALES, GULIES AND ALONG WATERWAYS. THE STUDY AREA IS GENERALLY FOUND TO BE POORLY SUITED FOR AGRICULTURAL USE.

 5. MAN-MADE FEATURES. MAN-MADE FEATURES INCLUDE ROADS, BRIDGES, RAILWAYS, DEVELOPED AREAS AND CAMP/TRAINING AREAS. THE FOLLOWING PARAGRAPHS SUMMARIZE SIGNIFICANT CULTURAL FEATURES. SEE CHAPTER 3 (LINES OF COMMUNICATION) FOR MORE SPECIFIC LOC INFORMATION.
- A. ROADWAYS. ROADWAYS WITHIN THE CAMP LEJEUNE AREA RANGE FROM HARD-SURFACE (HEAVY DUTY), FOUR LANE HIGHWAYS TO UNIMPROVED-SURFACE (DRY WEATHER), SINGLE LANE VEHILCE TRACKS AND TRAILS.
- B. RAILWAYS. RAILWAYS SERVICING CAMP LEJEUNE ARE OF STANDARD GAGE AND, CONNECT THE BASE WITH LINE ACCESS TO WILMINGTON, NEW BERN, MCAS CHERRY POINT AND MOREHEAD GITY, NORTH CAROLINA.
- C. <u>BRIDGES</u>. BRIDGES ALONG PRIMARY ROADWAYS WITHIN THE AREA ARE CAPABLE OF SUPPORTING 40 TO 60 TONS. TANKS, AMPHIBIOUS TRACKED VEHICLES AND HEAVY EQUIPMENT ARE RESTRICTED BY BASE REGULATION TO TANK TRAILS, TANK CROSSING PADS, AND OTHER DESIGNATED ROADWAY CROSSING SITES ABOARD THE BASE. (SEE CHAPTER 3, LOC OVERLAY.)
- D. <u>DEVELOPMENT</u>, TRAINING AND CAMP AREAS. MCAS (H), NEW RIVER IS SITUATED ON THE WEST BANK OF THE NEW RIVER AND NORMALLY SUPPORTS HELICOPTER AND TRANSPORT TYPE AIRCRAFT OPERATIONS. THE AIRFIELD HAS A HARD-SURFACE RUNWAY OF 5,000 FEET. BASE BUILT UP AREAS ARE OF PERMANENT STRUCTURAL DESIGN.

 TRAINING AREAS MAY HAVE TEMPORARY STRUCTURES ERECTED TO FACILITATE TRAINING OBJECTIVES.

6. MILITARY ASPECTS OF THE STUDY AREA

A. TACTICAL ASPECTS OF THE TERRAIN.

- (1) OBSERVATION: FIELDS OF OBSERVATION WITHIN TRAINING AREAS ARE RESTRICTED DUE TO VEGETATION DURING SPRING AND SUMMER MONTHS. DURING FALL AND WINTER, OBSERVATION IS ENHANCED BY THE LOSS OF ANNUAL FOLIAGE.
- (2) FIELDS OF FIRE: FIELDS OF FIRE ARE RESTRICTED BY BUILT UP AREAS AND ARE CONTROLLED BY THE BASE RANGE OFFICE. ALL RANGE AND IMPACT AREAS ARE WELL MARKED WITHIN THE STUDY AREA. SEE CHAPTER 2 (TRAINING AREAS) FOR MORE INFORMATION ON FIRING CONSIDERATIONS AND RESTRICTIONS.
- (3) COVER AND CONCEALMENT: ALTHOUGH THE TERRAIN RELIEF IS GENERALLY FLAT THROUGHOUT THE BASE, COVER AND CONCEALMENT IS GOOD TO EXCELLENT DUE TO HEAVY VEGETATION AND UNDERGROWTH.
- (4) OBSTACLES: NATURAL OBSTACLES IN THE AREA INCLUDE RIVERS, STREAMS/
 CREEKS, SWAMPS AND DENSE VEGETATION. MAN-MADE OBSTACLES ARE BUILT UP AREAS
 (WHICH ARE RESTRICTED TO MANEUVERS BY BASE REGULATIONS) AND THOSE OBSTACLES
 CONSTRUCTED IN TRAINING AREAS TO ENHANCE MILITARY TRAINING/EXERCISES.
- (5) TRACKED VEHICLES: TANKS, AMPHIBIOUS TRACKED VEHICLES AND HEAVY EQUIPMENT ARE RESTRICTED FROM MOVEMENT ALONG PRIMARY ROADS BY BASE REGULATIONS. TANK TRAILS AND ACCESS ROADS PROVIDE AMPLE CROSS-BASE MOVEMENT ROUTES FOR THESE VEHICLES. CROSS-COUNTRY MOVEMENT OF TROOPS WILL BE INHIBITED BY SWAMPS, PONDS, SMALL STREAMS AND DENSE VEGETATION.
- (6) KEY TERRAIN FEATURES: THE NEW RIVER BISECTS CAMP LEJEUNE AND OCCUPIES APPROXIMATELY 26,000 ACRES OF THE TOTAL SURFACE AREA OF THE BASE.

 NEW RIVER INLET, BROWNS INLET AND BEAR INLET DISSECT THE COASTLINE OF ONSLOW BEACH. NUMEROUS STREAMS AND CREEK SUBSIDIARIES TO THE NEW RIVER EXTEND THROUGHOUT THE BASE AND ARE OFTEN DETERMINING TERRAIN FEATURES. THE MAN-MADE INTRACOASTAL WATERWAY IS ESPECIALLY SIGNIFICANT FOR EXERCISE/OPERATIONAL PLANNERS.

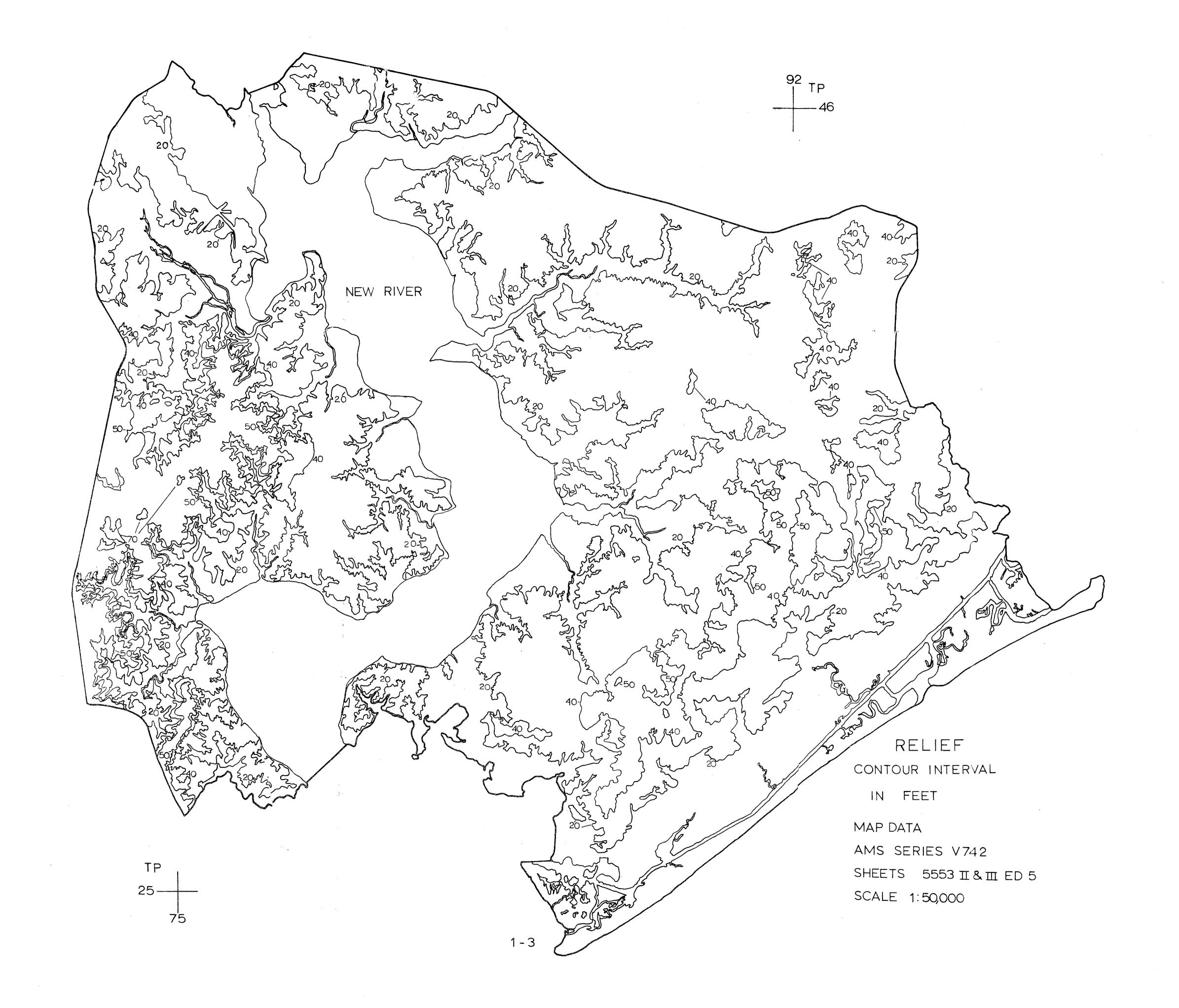
B. ENGINEERING ASPECTS OF THE TERRAIN. SOIL MOISTURE CONTENT AND AREAS OFSTANDING WATER COMPLICATE CONSTRUCTION EFFORTS WITHIN THE BASE. THE USE OF PILINGS AND PLACING OF A GROUND BASE IS REQUIRED PRIOR TO CONSTRUCTION ON DEVELOPMENT SITES.

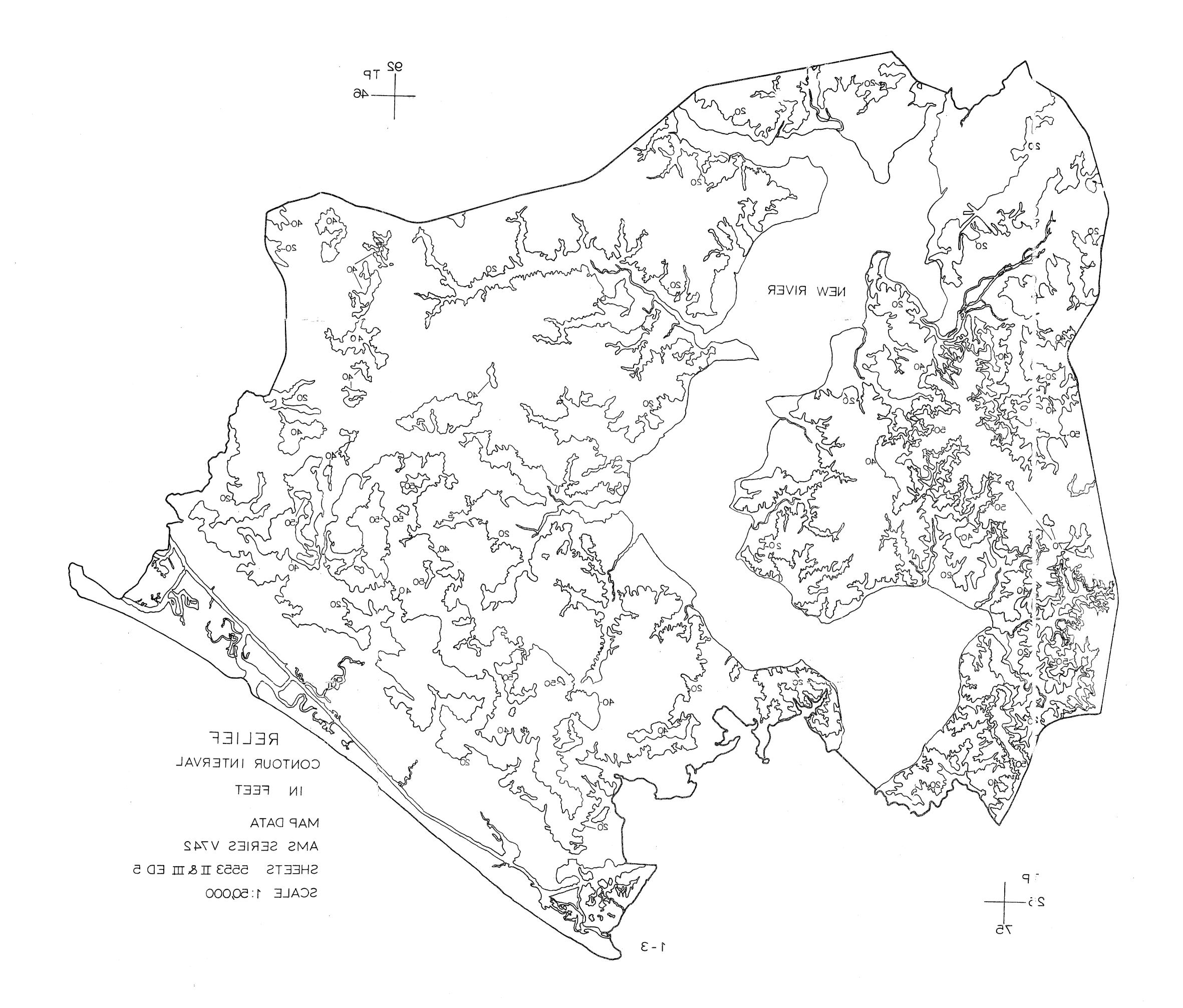
OVERLAYS

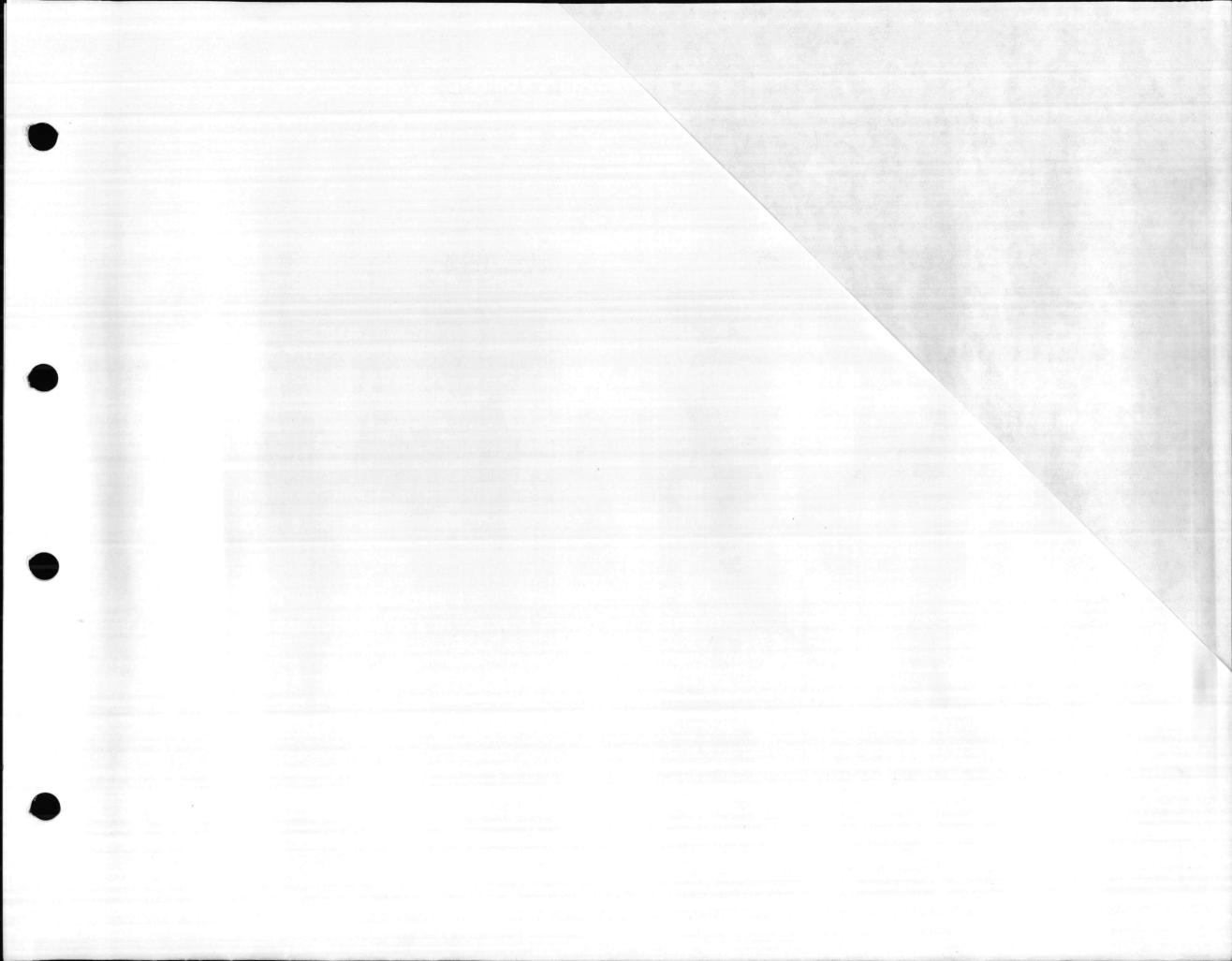
I. RELIEF

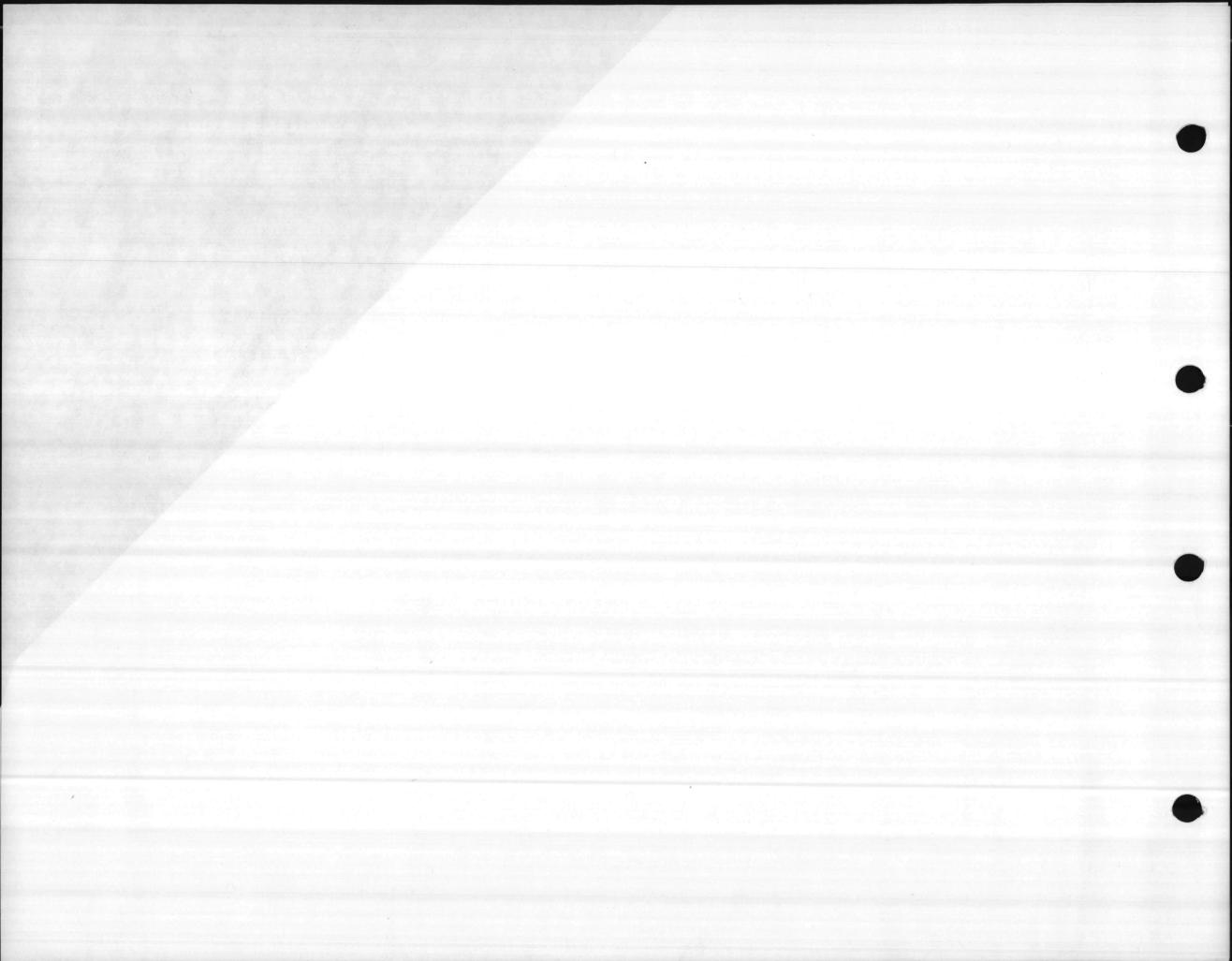
2. VEGETATION

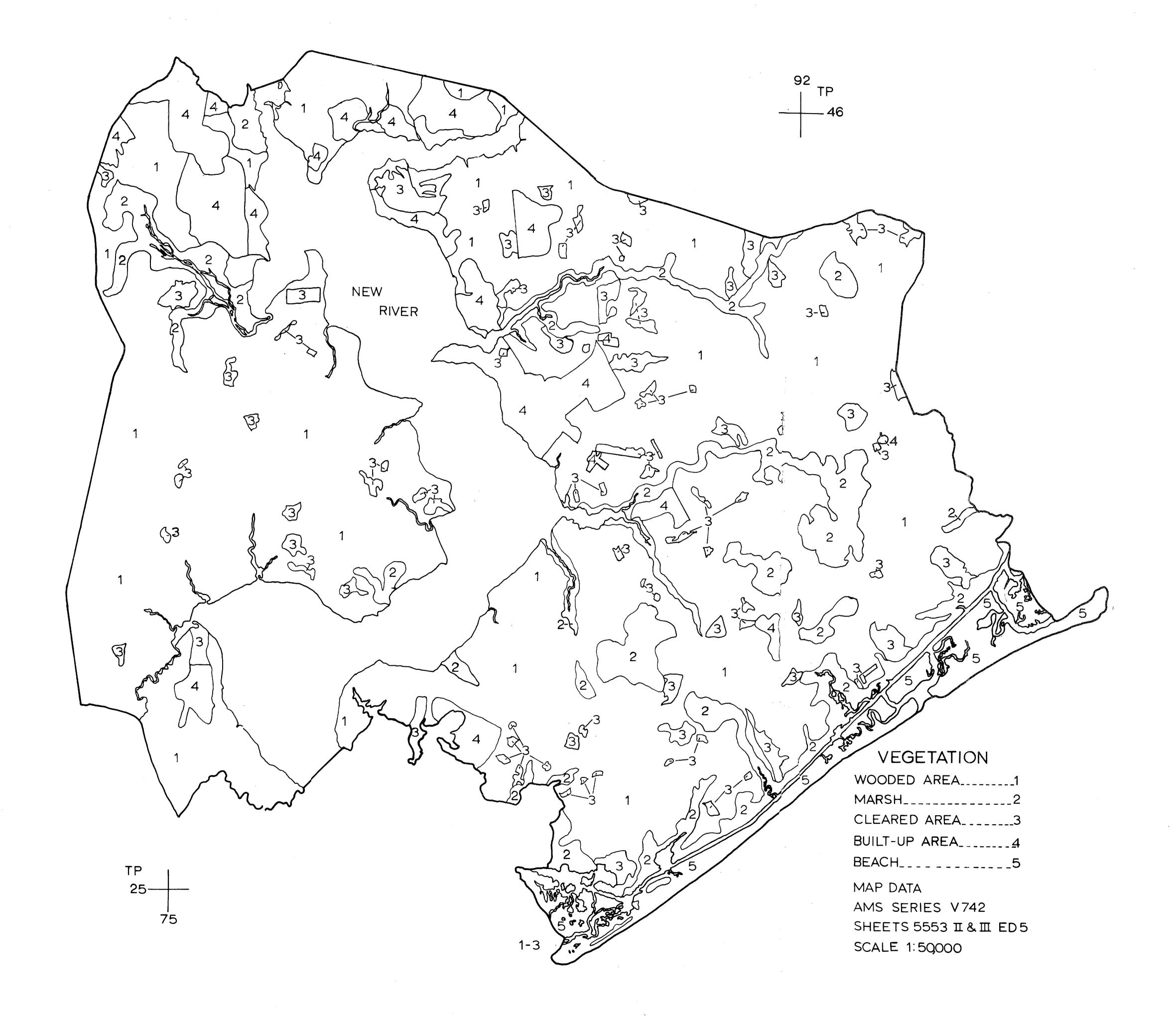
3. DRAINAGE

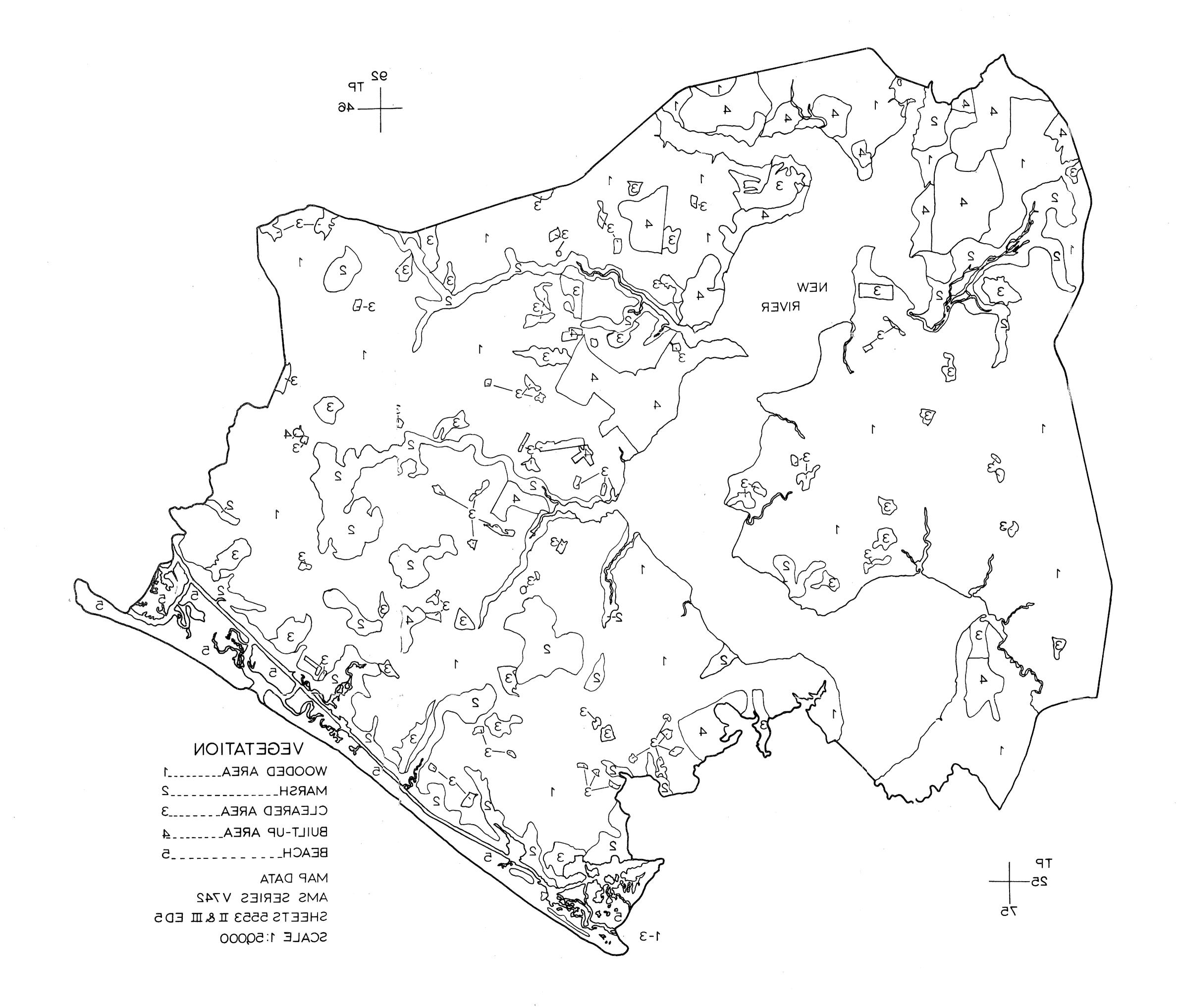


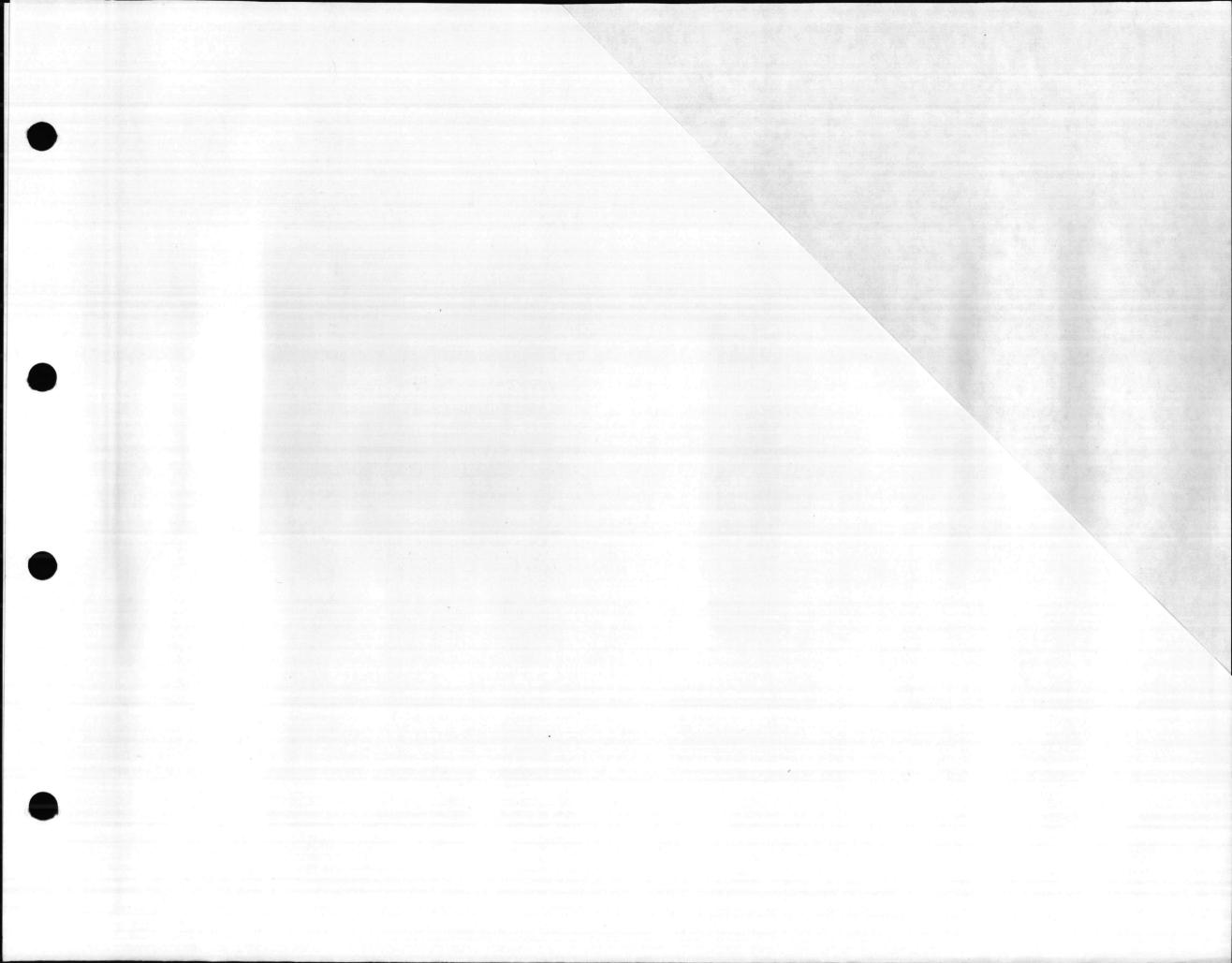




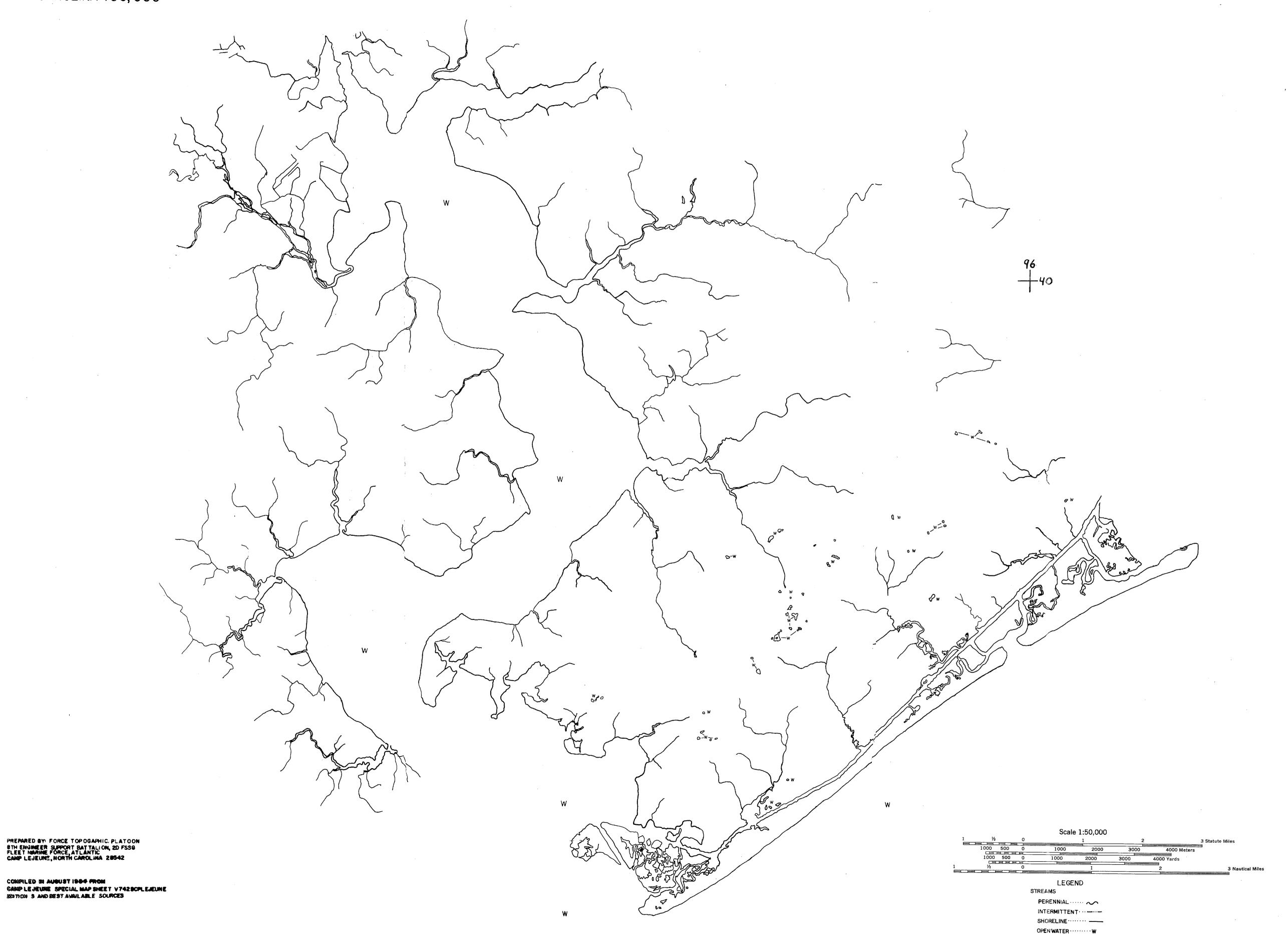




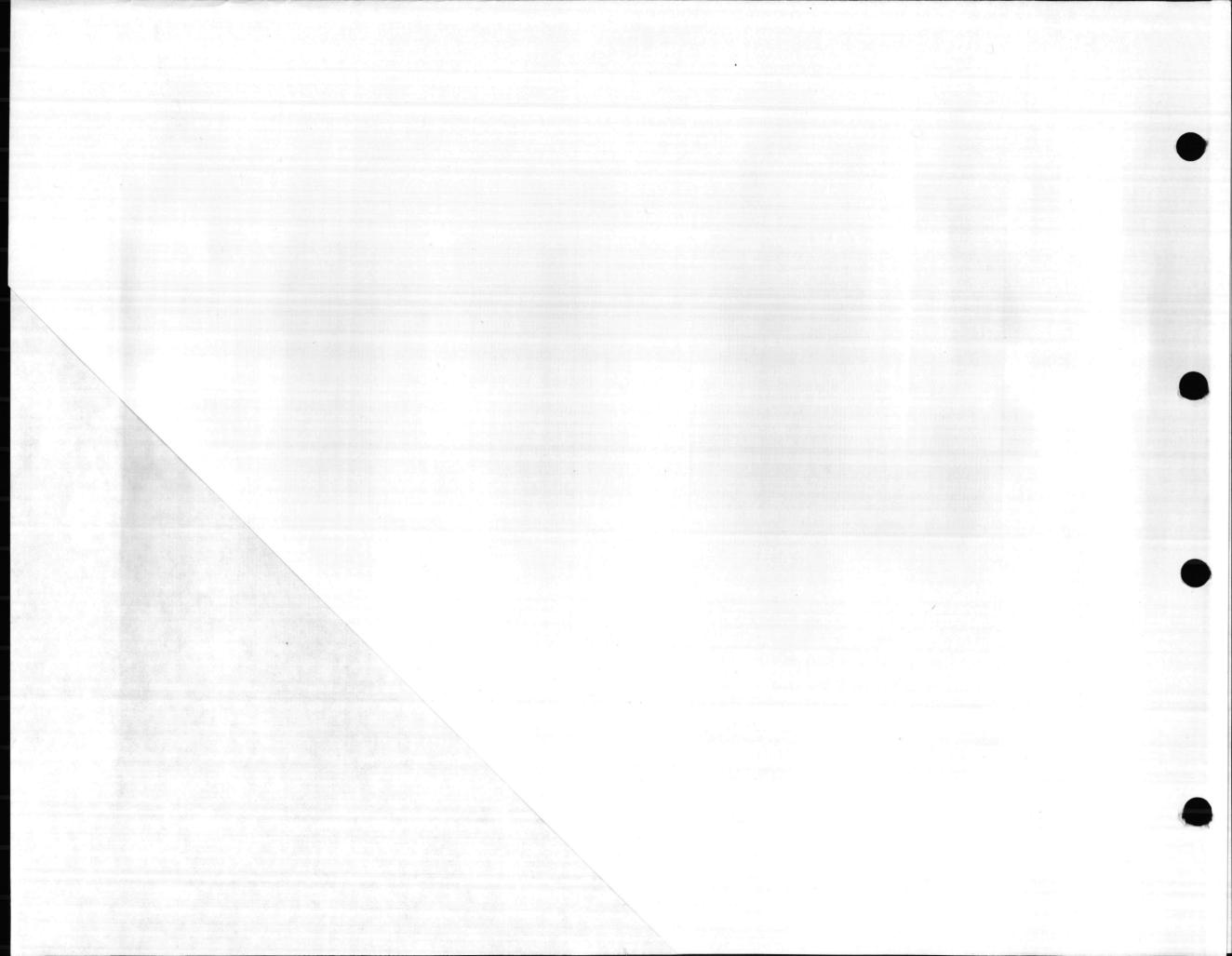


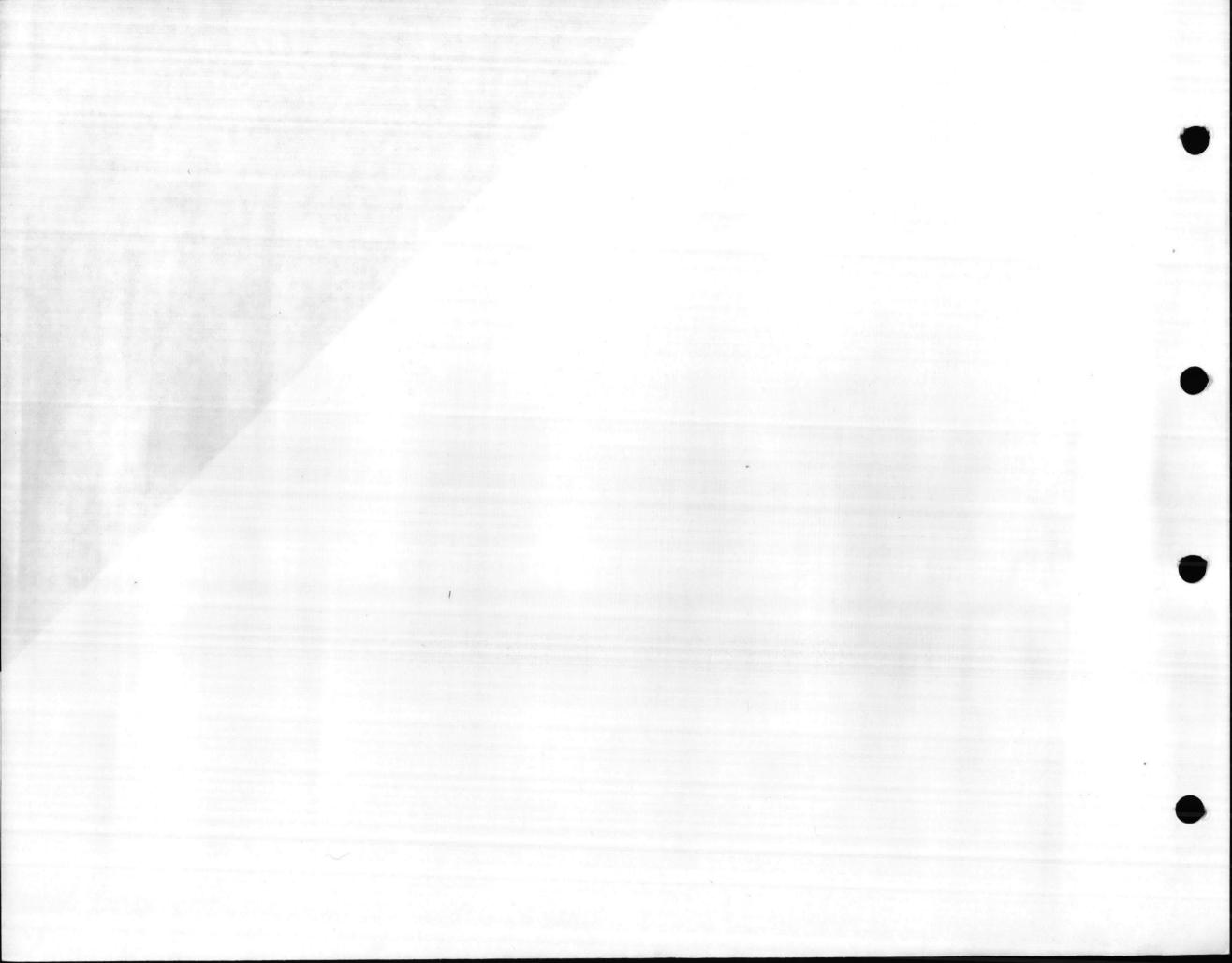




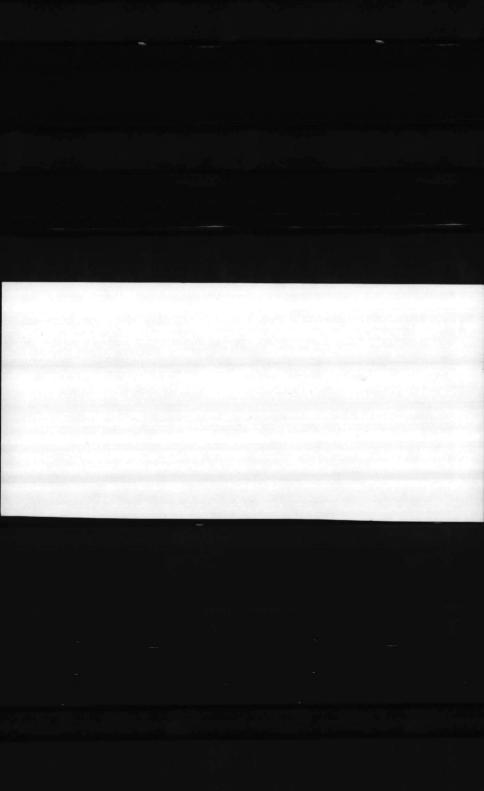






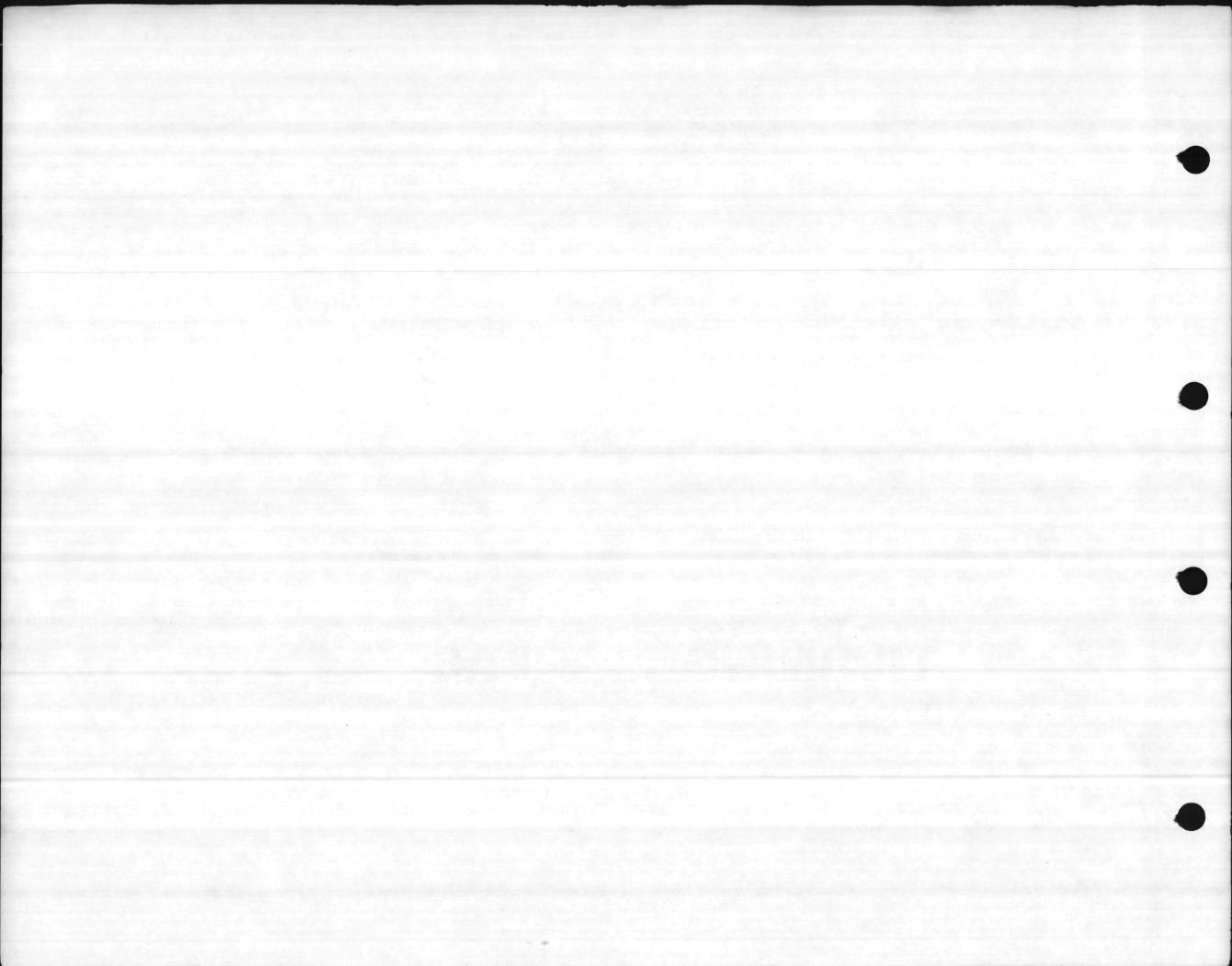


TLZ/DZ Pheasant 668237 TLZ KITE 816295 TLZ VULTURE @ Stru Bay.



CHAPTER 2

TRAINING AREAS



1. GENERAL. MARINE CORPS BASE CAMP LEJEUNE IS DIVIDED INTO SEVENTEEN
ALPHABETICALLY DESIGNATED TRAINING AREAS TO FACILITATE TRAINING COORDINATION
AND MANAGEMENT. THE FOLLOWING ACTIVITIES ARE RESPONSIBLE FOR TRAINING FACILITIES MANAGEMENT, MAINTENANCE AND SAFETY/EMERGENCY SERVICES. (FOR EMERGENCY
MEDEVAC, CONTACT THE RANGE CONTROL DUTY OFFICER AT THE EXTENSION/FREQUENCY
LISTED BELOW.)

ACTIVITY/CALL SIGN TELEPHONE/FREQUENCY RANGE CONTROL OFFICER 3065/3066 RANGE CONTROL DUTY OFFICER/BLACKBURN 3064/325.0 UHF OR 38.60 FM (OLD SQUELCH) RANGE MAINTENANCE OFFICER 5211/3542 ENVIRONMENTAL AFFAIRS DIVISION 5003 EXPLOSIVE ORDNANCE DISPOSAL (EOD) 0558/0382(DWH) 2526/2527 (CDO-AWH) FIRE DEPARTMENT 3333 PROVOST MARSHAL 2555/2556/2557

- 2. PURPOSE THE PURPOSE OF THIS CHAPTER IS TO ASSIST COMMANDERS AND OPERATIONS PERSONNEL IN PLANNING TRAINING ACTIVITIES AT THE SMALL UNIT LEVEL. BASE ORDER P11102.1 (SOP FOR RANGE CONTROL OPERATIONS) PROMULGATES SPECIFIC INFORMATION PERTAINING TO TRAINING AREA CHARACTERISTICS, OPERATIONS AND RANGE REGULATIONS. (FOR FURTHER INFORMATION REGARDING TRAINING AREA AND RANGE USE OR RESERVATION PROCEDURES, CONTACT THE RANGE CONTROL OFFICER AT EXTENSIONS 3065/3066.)
- 3. TRAINING AREA DESCRIPTIONS.

(NOTE: ALL COORDINATES ARE GRID ZONE/100,000 METER SQUARE 18STP UNLESS OTHERWISE INDICATED.)

A. AREA A

- (1) LOCATION. AREA A, ALTERNATELY REFERRED TO AS MUMFORD POINT, MONTFORD POINT OR THE CAMP JOHNSON AREA, IS LOCATED IN THE NORTHERN PORTION OF CAMP LEJEUNE. IT IS BOUNDED ON THE NORTH BY NC HIGHWAY 24 (786478 TO 808472), FROM WEST-NORTHWEST TO NORTH-NORTHWEST BY THE CITY OF JACKSONVILLE, NC (781468 TO 786478), TO THE EAST BY SCALES CREEK (801454 TO 809471), AND TO THE SOUTH AND WEST BY THE NEW RIVER FROM SCALES CREEK AT THE SOUTHEAST TO WILSON BAY AT THE WEST-NORTHWEST.
- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 3400 METERS NORTH TO SOUTH AND 3380 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, SWEET GUM AND MAPLE), VINES AND SCRUBS. SWAMP GRASS MAY BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA A IS DIVIDED INTO FIVE SECTIONS: AA, AB, AC, AD AND AE. SECTIONS AA, AB AND AC ARE MODERATELY TO DENSELY VEGETATED AND DISSECTED BY NUMEROUS TRAILS AND ACCESS ROADS (IMPROVED AND UNIMPROVED)

 AD AND AE CONTAIN NUMEROUS BUILDINGS UTILIZED AS CLASSROOMS AND BARRACKS.
- (7) PRIMARY USE. THE AREA IS USED FOR CONDUCTING FORMAL MILITARY SCHOOLS, BARRACKS AREAS AND SMALL ARMS (PISTOL AND SHOTGUN) TRAINING.
- (8) <u>FIRING RANGES</u>. THERE IS ONE LIVE FIRE RANGE (A-1) LOCATED AT THE SOUTHERN TIP OF MUMFORD POINT (789440).
- (9) RANGE USE. LIVE FIRING AT RANGE A-1 IS LIMITED TO SMALL ARMS (PISTOL AND SHOTGUN) TRAINING.
- (10) <u>SPECIAL INFORMATION</u>. UNITS WILL REMAIN CLEAR OF ALL FOOD PLOTS.

 B. AREA B
- (1) LOCATION. AREA B IS LOCATED IN THE NORTHWEST CORNER OF CAMP LEJEUNE. THE AREA IS BOUNDED TO THE NORTH BY CAMP GEIGER (744466 TO

TO 755450), TO THE EAST BY MCAS (H), NEW RIVER (755450 TO 744425), TO THE SOUTH BY HICKS RUN (STREAM) (730412 TO 744425) AND TO THE WEST BY U. S. ROUTE 17 (730412 TO 744466).

- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 5300 METERS NORTH TO SOUTH AND 2100 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND, LOAM, AND MUCK.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, SWEET GUM, POPLAR, ASH, COTTONWOOD AND TUPELO), VINES AND SCRUBS. SWAMP GRASS

 MAY BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA B IS DIVIDED INTO THREE SECTIONS: BB, BC AND BD. ALL THREE SECTIONS CONTAIN LARGE CLEARED AREAS. AN ACCESS ROAD EXTENDS THROUGH EACH OF THESE SECTIONS.
- (7) PRIMARY USE. THE AREA IS USED FOR CONDUCTING INFANTRY UNIT MANEUVERS AND BIVOUAC.
- (8) <u>FIRING RANGES</u>. THERE ARE TWO LIVE FIRE RANGES: B-012 WITHIN BC SECTION AND B-014 ON WHICH FIRING IS CONDUCTED FROM BD SECTION INTO BC SECTION.
- (9) RANGE USE. B-012 IS USED FOR SMALL ARMS TRAINING (PISTOL AND SHOTGUN). RANGE B-014 IS USED FOR SERVICE RIFLE, M-60 MACHINE GUNS, M-72 ROCKET LAUNCHER AND M-203 GRENADE LAUNCHER FIRING.
- (10) <u>SPECIAL INFORMATION</u>. DRINKING WATER OBTAINED FROM STREAMS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

C. AREA C

(1) LOCATION. AREA C IS LOCATED IN THE NORTHERN PORTION OF CAMP LEJEUNE, BETWEEN THE RESIDENTIAL AREAS OF BERKELEY MANOR AND PARADISE POINT. IT IS BORDERED TO THE NORTH BY NORTHEAST CREEK (825447 TO 843452), TO THE EAST BY A LOW-LYING AREA (EXTENDING FROM 843452 TO 849440) AND STONE ROAD (849440 TO 840413), TO THE SOUTH BY THE CONFLUENCE OF BEAVERDAM, BEARHEAD

AND WALLACE CREEKS (844420 TO 840414) AND TO THE WEST BY THE RESIDENTIAL AREA OF PARADISE ISLE (840414 TO 825438).

- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 3200 METERS NORTH TO SOUTH AND METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. THE SOIL COMPOSITION CONSISTS OF FINE SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, TUPELO, BLACK GUM, SWEET GUM, ASH, COTTONWOOD, POPLAR AND CYPRESS), VINES AND SCRUBS. SWAMP GRASS MAY BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA C IS DIVIDED INTO TWO SECTIONS: CA AND CB.
 BOTH SECTIONS ARE ADJACENT TO BASE RESIDENTIAL AREAS.
 - (7) PRIMARY USE. NONE (RESTRICTED AREA)
 - (8) FIRING RANGES. NONE
 - (9) RANGE USE. NONE
- (10) <u>SPECIAL INFORMATION</u>. MILITARY UNIT TRAINING IS RESTRICTED IN AREA C.

D. AREA D

(1) LOCATION. AREA D IS LOCATED SOUTH OF BERKELEY MANOR RESIDENTIAL AREA AND IS BISECTED BY THE MAINSIDE DEVELOPMENT AREA OF CAMP LEJEUNE. THE NORTHERN HALF OF AREA D IS BORDERED TO THE NORTH BY BERKELEY MANOR RESIDENTIAL AREA (844421 TO 853427 AND 853427 TO 864416), TO THE EAST BY HOLCOMB BOULEVARD (864416 TO 858390) AND TO THE SOUTH AND WEST BY BEAVERDAM CREEK (858390 TO 843402) WHICH EMPTIES INTO WALLACE CREEK. THE SOUTHERN PORTION OF AREA D IS DEFINED TO THE NORTH ALONG A LINE EXTENDING FROM 854365 TO 873384. IT IS BOUNDED TO THE EAST BY SNEADS FERRY ROAD (873384 TO 884362), TO THE SOUTH BY COWHEAD AND FRENCHS CREEK (884362 TO 857355) AND

TO THE WEST BY THE NEW RIVER (857355 TO 855363).

- (2) SIZE. THE NORTHERN PORTION OF AREA D IS APPROXIMATELY 3600 METERS NORTH TO SOUTH AND 2100 METERS EAST TO WEST. THE SOUTHERN PORTION OF AREA D IS APPROXIMATELY 2900 METERS NORTH TO SOUTH AND 3000 METERS EAST TO WEST. (WIDTH DIMENSIONS FOR AREA D ARE GIVEN FOR THE WIDEST POINTS OF BOTH THE NORTH AND SOUTH PORTIONS.)
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION WITHIN THE AREA CONSISTS OF TREES (PINE, OAK, ASH, SWEET GUM AND COTTONWOOD), VINES AND SCRUBS. SWAMP GRASS MAY BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA D IS DIVIDED INTO THREE SECTIONS: DA, DB
 AND DC. ALL THREE SECTIONS ARE DISSECTED BY A NUMBER OF UNIMPROVED ROADS.
 - (7) PRIMARY USE. THE AREA IS USED FOR INFANTRY UNIT MANEUVERS.
- (8) <u>FIRING RANGES</u>. THERE ARE FIVE LIVE FIRE RANGES CONTAINED WITHIN AREA D: D-9, D-11A, D-27, D-29 AND D-30.
- (9) RANGE USE. RANGE D-9 IS THE BASE SPECIAL SERVICES SKEET RANGE.

 D-11A, NORTH OF THE MAIN SERVICE ROAD IN GRID SQUARES 8736 AND 8737, IS

 UTILIZED BY THE SECOND TANK BATTALION. D-27 IS AN ASSAULT OF A FORTIFIED

 POSITION RANGE ON WHICH SERVICE RIFLES, M-60 MACHINE GUNS AND M-72 ROCKET

 LAUNCHERS CAN BE EMPLOYED. D-29 AND D-30 ARE USED FOR SMALL ARMS TRAINING

 (RIFLE AND PISTOLS).
- (10) <u>SPECIAL INFORMATION</u>. THE FOLLOWING SECTIONS WITHIN AREA D ARE RESTRICTED FOR MILITARY UNIT TRAINING: SECTION DA, RANGE D-11A AND SECTION DC. SKEET RANGE D-9 LOCATED IN SECTION DB, IS ALSO RESTRICTED.

 E. <u>AREA E</u>
- (1) LOCATION. AREA E, MORE COMMONLY REFERRED TO AS ONSLOW BEACH, IS LOCATED IN THE EXTREME SOUTHEASTERN PORTION OF CAMP LEJEUNE. IT IS

BORDERED TO THE NORTH BY THE INTRACOASTAL WATERWAY (ICW) (844257 TO 932293), TO THE EAST BY THE N-1 IMPACT AREA (932293 TO 933285), TO THE SOUTH BY THE ATLANTIC OCEAN (858233 TO 933285) AND TO THE WEST BY NEW RIVER INLET (858233 TO 844257).

- (2) SIZE. THE AREA IS APPROXIMATELY 800 METERS NORTH TO SOUTH AND 9800 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND.
- (4) <u>VEGETATION</u>. ONSLOW BEACH IS VOID OF VEGETATION SEAWARD OF THE HIGHWATER MARK. IMMEDIATELY INLAND, PATCHES OF SCRUB AND DWARF PINE WILL BE ENCOUNTERED. SWAMP GRASS EXISTS IN MARSHY/SWAMPY AREAS AND ALONG THE ICW.
- (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 10 PERCENT. (SLOPE RANGE VARIES DUE TO SAND SHIFTING IN REACTION TO COASTAL WINDS.)
 - (6) AREA SUBDIVISION. NONE
- (7) PRIMARY USE. THE AREA IS USED BY INFANTRY UNITS FOR AMPHIBIOUS OP-ERATIONS AND TRACKED VEHICLE RIVER CROSSING OPERATIONS.
- (8) <u>FIRING RANGES</u>. THERE IS ONE LIVE FIRE RANGE (E-1), EXTENDING FROM GRID SQUARE 8824 NORTHEAST ALONG ONSLOW BEACH TO GRID SQUARE 8925.
- (9) RANGE USE. HAWK AND REDEYE SURFACE TO AIR MISSILE LIVE FIRING IS CONDUCTED AT RANGE E-1.
- (10) SPECIAL INFORMATION. A RESTRICTED AREA EXTENDS FROM RISELEY
 PIER (903263) NORTHEAST TO THE BORDER OF TRAINING/IMPACT AREA N-1. DURING
 THE MONTHS OF MAY THROUGH OCTOBER, CERTAIN AREAS ALONG ONSLOW BEACH WILL BE
 LIMITED FOR TRAINING DUE TO NESTING ACTIVITIES OF LOGGERHEAD TURTLES.
 THE DISTURBANCE OF THESE BEACH AREAS (TO INCLUDE VEHICULAR TRAFFIC AND THE
 CONSTRUCTION OF TANK TRAPS) IS PROHIBITED. USE OF DESIGNATED INGRESS AND
 EGRESS ROUTES FOR THIS AREA IS MANDATORY.

F. AREA F

(1) LOCATION. AREA F IS LOCATED IN THE NORTHEASTERN PORTION OF CAMP

LEJEUNE. THE AREA IS BORDERED TO THE NORTH BY U. S. HIGHWAY 24 (896432 TO 940433), TO THE EAST BY TRAINING AREA Q (940433 TO 941369), TO THE SOUTH BY TRAINING AREA G (941369 TO 885362) AND TO THE SOUTHWEST, WEST AND NORTHWEST BY SNEADS FERRY ROAD, HOLCOMB BOULEVARD AND TRAINING AREA R (885362 TO 866399, 866399 TO 864416 AND 864416 TO 896432).

- (2) SIZE. THE AREA IS APPROXIMATELY 5500 METERS NORTH TO SOUTH ALONG GRID LINE 90 AND APPROXIMATELY 7400 METERS EAST TO WEST ALONG GRID LINE 40.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND, LOAM AND MUCK.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, SWEET GUM, TUPELO, POPLAR, CYPRESS AND CEDAR), VINES AND SCRUBS. SWAMP GRASS MAY BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA F IS DIVIDED INTO FOUR SECTIONS: FA, FB, FC AND FD. ROADS AND TRAILS EXTEND THROUGHOUT ALL FOUR SECTIONS AND SEVERAL STREAMS/CREEKS DISSECT THE AREA.
- (7) PRIMARY USE. THE AREA IS USED BY MILITARY UNITS FOR MANEUVERS, BIVOUAC AND WEAPONS TRAINING.
- (8) FIRING RANGES. THERE ARE TEN LIVE FIRE RANGES LOCATED WITHIN AREA F: F-2, F-3, F-4, F-5, F-6, F-9, F-10, F-11, F-12 AND F-18.
- (9) RANGE USE. AREA F RANGES ARE AUTHORIZED FOR SPECIFIC USES. F-2: SMALL ARMS. F-3: CREW-SERVED WEAPONS. F-4: SMALL ARMS. F-5: SMALL ARMS AND M-60 MACHINE GUNS. F-6: HAND GRENADES. F-9: SERVICE PISTOL. F-10: SMALL ARMS AND M-60 MACHINE GUNS. F-11: RIFLE AND PISTOL. F-12: RIFLE AND M-60 MACHINE GUNS. F-18: RIFLE AND THE 14.5 MM SUB CALIBER ARTILLERY ROUNDS.
- (10) SPECIAL INFORMATION. THE CAMP LEJEUNE SPECIAL MAP INDICATES

 THAT RANGE F-13 IS NO LONGER USED FOR LIVE FIRING. RESTRICTED AREAS

 WITHIN AREA F INCLUDE THAT PORTION OF THE FAD AREA THAT EXTENDS FROM AREA

R INTO AREA F IN GRID SQUARE 8742 AND THOSE AREAS CONSPICUOUSLY MARKED AS RED COCKADED WOODPECKER HABITAT SITES (WHICH ARE OFF LIMITS TO TRACKED VEHICLES). WHEN LIVE FIRING IS BEING CONDUCTED ON ANY RANGE, THE REMAINDER OF AREA F IS RESTRICTED TO ALL OTHER PERSONNEL/ACTIVITY. DRINKING WATER OBTAINED FROM STREAMS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

G. AREA G

- (1) LOCATION. AREA G IS LOCATED IN THE SOUTHEAST CORNER OF CAMP LEJEUNE. THE AREA IS BORDERED TO THE NORTH BY TRAINING AREAS F AND Q, AND MILL CREEK (885362 TO 941369, 941369 TO 967355 AND 967355 TO 978353), TO THE EAST BY TRAINING AREA Q AND BEAR CREEK (951369 TO 967355 AND 979352 TO 978345), TO THE SOUTH BY THE INTRACOASTAL WATERWAY AND THE N-1 TRAINING/IMPACT AREA (911274 TO 944306 AND 944306 TO 979343), AND TO THE WEST BY SNEADS FERRY ROAD AND TRAINING AREAS H AND I (885362 TO 901291 TO 911274).
- (2) SIZE. THE AREA IS APPROXIMATELY 8500 METERS NORTH TO SOUTH ALONG GRID LINE 92 AND APPROXIMATELY 8800 METERS EAST TO WEST ALONG GRID LINE 35. THERE IS A BREAK OF APPROXIMATELY 1300 METERS ALONG GRID LINE 35 THAT LIES WITHIN THE BOUNDARY OF TRAINING AREA Q.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND, LOAM AND MUCK.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, SWEET GUM, TUPELO, CEDAR, ASH, OAK, COTTONWOOD AND POPLAR), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA G IS DIVIDED INTO NINE SECTIONS: GA, GB, GC, GD, GE, GF, GG, GH AND GI.
- (7) PRIMARY USE. THE AREA IS DEVOTED PRIMARILY TO LIVE FIRING AND IMPACT ZONES FOR MILITARY WEAPONS (SEE RANGE USE).
 - (8) FIRING RANGES. THERE ARE ELEVEN LIVE FIRE/EOD RANGES LOCATED

- WITHIN AREA G. THEY ARE: G-3, G-4, G-4A, G-5, G-6, G-7, G-8, G-9, ONSLOW BEACH NORTH TOWER (SECTION G-H), G-10 IMPACT AREA AND G-10A.
- (9) RANGE USE. SPECIFIC AREA G RANGES ARE AUTHORIZED FOR THE FOLLOWING WEAPONS/ORDNANCE EMPLOYMENT; RANGE G-3: ALL INFANTRY WEAPONS EXCEPT .50

 CALIBER MACHINE GUN, 106MM RECOILLESS RIFLE AND HAND GRENADES. G-4: DEMOLITION RANGE, LINEAR ROCKETS, M68A1 (INERT) CHARGES AND LAND MINES. G-4A: EOD RANGE. G-5: MECHANIZED TANK GUNNERY RANGE, 105MM TANK MAIN GUN, MACHINE GUN, M-16, 106MM RECOILLESS RIFLE AND ARTILLERY (DIRECT FIRE). G-6: TANK GUNNERY RANGE FOR TABLES 1 THROUGH 8 (MODIFIED TABLE 9), 105MM TANK MAIN GUN, ARTILLERY (DIRECT FIRE), MACHINE GUN, M-16 AND 105MM RECOILLESS RIFLE. G-7: 105MM TANK MAIN GUN, FIELD ARTILLERY (DIRECT FIRE), MACHINE GUN, M-16 AND 106MM RECOILLESS RIFLE. G-8: M-203 GRENADE LAUNCHER RANGE. G-9: LAAW RANGE FOR M-72 ROCKET LAUNCHER. ONSLOW BEACH NORTH TOWER: ASSAULT AMPHIBIAN VEHICLE MACHINE GUN RANGE FOR M-60 AND M-85 MACHINE GUNS (MOUNTED ON LVTP-7). G-10 IMPACT AREA: BOMBING AND TARGET RANGE FOR AIRCRAFT ORDNANCE (NOT TO EXCEED NET EXPLOSIVE WEIGHT OF 250 LBS TNT EQUIVALENCY), ARTILLERY, MORTAR AND TOW (HEAT AND PRACTICE). G-10A: EOD DISPOSAL SITE.
- (10) SPECIAL INFORMATION. RESTRICTED AREAS WITHIN AREA G ARE CONSPICUOUSLY MARKED FOR THE RED COCKADED WOODPECKER HABITAT SITES (WHICH ARE OFFLIMITS TO TRACKED VEHICLES). PROHIBITED AREAS INCLUDE THE LIVE MINEFIELD
 (936310 TO 939306 TO 943309 TO 943313), THE G-4A AND THE G-10 HIGH EXPLOSIVE
 IMPACT AREAS. EOD PERSONNEL ARE REQUIRED TO BE PRESENT DURING DOWN RANGE
 MOVEMENTS ON RANGES G-5, G-7, G-8 AND G-9. DRINKING WATER OBTAINED FROM
 STREAMS WITHIN AREA G MUST BE PURIFIED PRIOR TO CONSUMPTION.

H. AREA H

(1) LOCATION. AREA H IS LOCATED IN THE EASTERN PORTION OF CAMP LEJEUNE ALONG THE NEW RIVER. THE AREA IS BORDERED TO THE NORTH BY FRENCHS CREEK AND THE BASE MAGAZINE AREA (856352 TO 882341 AND 882341 TO 894344), TO THE EAST BY

SNEADS FERRY ROAD (894344 TO 901292), TO THE SOUTH BY TRAINING AREAS I AND J (901292 TO 849312 AND 849312 TO 825303) AND TO THE WEST BY TRAINING AREA I AND THE NEW RIVER (825303 TO 824312 AND 824312 TO 856352).

- (2) SIZE. THE AREA IS APPROXIMATELY 5100 METERS NORTH TO SOUTH ALONG GRID LINE 87 AND 6900 METERS EAST TO WEST ALONG GRID LINE 32.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, SWEET GUM, OAK, TUPELO, ASH, POPLAR, BLACK GUM, COTTONWOOD, CYPRESS AND CEDAR), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED IN THE EASTERN HALF OF AREA H AND ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
- (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 2 TO 5 PERCENT WITH GENTLY ROLLING TERRAIN.
- (6) AREA SUBDIVISION. AREA H IS DIVIDED INTO SIX SECTIONS: HA, HB, HC, HD, HE AND HF, ALL WHICH ARE DISSECTED BY IMPROVED AND UNIMPROVED ROADS. THERE EXIST NUMEROUS AREAS OF STANDING WATER THAT WILL REQUIRE MATTING TO ACCOMMODATE WHEELED TRAFFIC.
- (7) PRIMARY USE. THE AREA IS USED BY MILITARY UNITS FOR MANEUVERS AND BIVOUAC.
 - (8) FIRING RANGES. NONE
 - (9) RANGE USE. NONE
- (10) <u>SPECIAL INFORMATION</u>. DRINKING WATER OBTAINED FROM STREAMS/CREEKS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION. NO BIVOUACKING IS PERMITTED WITHIN COMBAT TOWN, WHICH IS LOCATED IN THE NORTH NORTHWEST PORTION OF SECTION HF.

I. AREA I

(1) LOCATION. AREA I IS LOCATED IN THE SOUTHERN PORTION OF CAMP
LEJEUNE. IT IS BOUNDED TO THE NORTH BY MARINES ROAD AND TRAINING AREA H

(849310 TO 856310 AND 856310 TO 901292), TO THE EAST BY TRAINING AREA G (901292 TO 911274), TO THE SOUTH BY THE INTRACOASTAL WATERWAY (911274 TO 852258) AND TO THE WEST BY THE NEW RIVER, HARVEYS POINT AREA AND TRAINING AREA J (852258 TO 840275, 840275 TO 845292 AND 845292 TO 849312).

- (2) SIZE. THE AREA IS APPROXIMATELY 6600 METERS NORTH TO SOUTH AND 4700 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, CYPRESS, SWEET GUM, CEDAR, TUPELO, MAPLE, OAK, ASH AND COTTONWOOD), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA I IS DIVIDED INTO SIX SECTIONS: IA, IB, IC, ID, IE AND IF. ALL SECTIONS CONTAIN DISSECTING ROADS AND CLEARED AREAS.
- (7) PRIMARY USE. THE AREA IS USED FOR INFANTRY UNIT MANEUVERS, BIVOUAC AND SMALL ARMS TRAINING.
- (8) FIRING RANGES. THERE ARE TWO LIVE FIRE RANGES IN AREA I: I-1 (843276) AND I-2 (845282).
- (9) RANGE USE. LIVE FIRING AT RANGE I-1 IS LIMITED TO SMALL ARMS
 (PISTOL AND SHOTGUN) TRAINING AND RANGE I-2 IS USED FOR DEMOLITIONS,
 LINEAR ROCKETS, M68Al (INERT) AND LAND MINE TRAINING.
- (10) <u>SPECIAL INFORMATION</u>. DRINKING WATER OBTAINED FROM STREAMS WITH-IN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

J. AREA J

(1) LOCATION. AREA J IS LOCATED IN THE SOUTHERN PORTION OF CAMP
LEJEUNE ALONG THE EASTERN SIDE OF THE NEW RIVER. IT IS BORDERED TO THE
NORTH AND SOUTH BY THE NEW RIVER AND TRAINING AREA H (800309 TO 82331 AND

825303 TO 849312), TO THE EAST BY AREA I (849312 TO 797289) AND TO THE WEST BY STONE BAY (797289 TO 800309).

- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 2900 METERS NORTH TO SOUTH AND 5100 METERS EAST TO WEST AT ITS WIDEST POINTS WITH GENTLE ROLLING TERRAIN.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF FINE SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, ASH, SWEET GUM, COTTONWOOD, TUPELO AND CEDAR), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA J IS DIVIDED INTO FOUR SECTIONS: JA, JB, JC AND JD. ALL SECTIONS CONTAIN DISSECTING ROADS AND CLEARED AREAS.
- (7) PRIMARY USE. THE AREA IS USED FOR CONDUCTING FORMAL MILITARY SCHOOLS, BARRACKS AREAS AND AMTRACK MANEUVERS. IT IS ALSO USED BY INFANTRY UNITS FOR BIVOUAC AND MANEUVERS.
- (8) <u>FIRING RANGES</u>. THERE ARE TWO FIRING RANGES WITHIN AREA J, BOTH ARE DESIGNATED AS J-2. THE FIRING POSITIONS ARE LOCATED IN AREA H, SECTION HC (826305 TO 828306).
- (9) RANGE USE. LIVE FIRING AT RANGES J-2 ARE CONDUCTED BY TANKS, AMTRACKS AND LAV'S USING M-16 .22 CALIBER RIM-FIRING DEVICE AND THE BREWSTER DEVICE FOR 105MM TANK GUN.
- (10) SPECIAL INFORMATION. THE SOUTHERN PORTION OF SECTION JA (834280 TO 841281 TO 840275 TO 835276) IS RESTRICTED BY THE ENGINEER SCHOOL FOR DEMOLITIONS. SECTION JC SOUTH OF 810296 TO 820296 (JARRETT'S POINT), IS RESTRICTED TO INFANTRY TRAINING. JARRETT'S POINT IS ONLY USED TO CONDUCT HELICOPTER EXTERNAL LIFTS USING HST UNITS. THIS AREA IS DESIGNATED AS AN ARCHAEOLOGICAL/HISTORICAL SITE. ROAD GRADING AND ANY OTHER ENGINEER TRAINING WHICH WILL DISTURB THE SOIL IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE AC/S, TRAINING, MCB, CAMP LEJEUNE. UNITS WILL REMAIN CLEAR OF

OF ALL FOOD PLOTS. DRINKING WATER OBTAINED FROM STREAMS/CREEKS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

K. AREA K

- (1) LOCATION. AREA K IS LOCATED IN THE CENTRAL PORTION OF CAMP
 LEJEUNE ON THE WESTERN SIDE OF THE NEW RIVER. THE AREA IS BORDERED TO THE
 NORTH BY TRAINING AREA M, LEWIS CREEK AND THE NEW RIVER (MORGAN BAY SECTOR)
 (771378 TO 792389, 792389 TO 794402 AND 794402 TO 819382), TO THE EAST
 BY THE NEW RIVER (FARNELL BAY AND GREY POINT SECTORS) (819382 TO 826340),
 TO THE SOUTH BY THE NEW RIVER (GREY POINT SECTOR AND STONE BAY) (826340
 TO 776335) AND TO THE WEST BY MILL CREEK AND TRAINING AREA M (776335 TO
 T75352 AND 775352 TO 771378).
- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 7700 METERS NORTH TO SOUTH AND 5100 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF LOAM AND SAND.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, ASH, TUPELO, SWEET GUM, COTTONWOOD AND CYPRESS), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA K IS DIVIDED INTO TWO SECTIONS: K AND K-2 IMPACT AREA. NUMEROUS ROADS AND TRAILS DISSECT BOTH SECTIONS.
- (7) PRIMARY USE. THE AREA IS USED FOR CONDUCTING INFANTRY UNIT MANEUVERS AND AS A FIRING RANGE IMPACT AREA.
- (8) <u>FIRING RANGES</u>. AREA K CONTAINS TWENTY-TWO LIVE FIRING RANGES: K-2A, K-211, K-212, K-301, K-302, K-303, K-304, K-305, K-309, K-315, K-317, K-321, K-322, K-323, K-325, K-326, K-402, K-405, K-406A, K-406B, K-407 AND K-408.
- (9) RANGE USE. SPECIFIC AREA K RANGES ARE AUTHORIZED FOR THE FOLLOWING WEAPONS/ORDNANCE EMPLOYMENT; K-2A: EOD DISPOSAL SITE. K-211: M-203 AND

- MK-19 GRENADE LAUNCHERS. K-212: SERVICE WEAPONS. K-301: M-72, 60MM/81MM MORTARS. K-302: SERVICE RIFLES. K-303: SERVICE RIFLES, 60MM/81MM MORTARS, M-60 MACHINE GUNS AND M-203S. K-304: HELICOPTER DOOR GUNNERY RANGE.

 K-305: ALL INFANTRY WEAPONS EXCEPT .50 CALIBER MACHINE GUNS, 106MM

 RECOILLESS RIFLES AND HAND GRENADES. K-309: M-60 MACHINE GUN, M-72 ROCKET LAUNCHER, SERVICE RIFLES AND 60MM/81MM MORTARS. K-315: RIFLES, PISTOLS AND SHOTGUNS. K-317; RIFLES, PISTOLS AND SHOTGUNS. K-321: RIFLES, PISTOLS, SHOTGUNS AND 60MM/81MM MORTARS. K-322: RIFLES, PISTOLS AND SHOTGUNS.

 K-323: M-203 GRENADE LAUNCHERS. K-325: M-72 ROCKET LAUNCHER. K-326: EOD DISPOSAL SITE. K-402: RIFLES, M-60 MACHINE GUNS AND M-72 ROCKET LAUNCHERS.

 K-405: HAND GRENADES. K-406A: RIFLES, PISTOLS AND SHOTGUNS. K-406B: DEMOLITIONS AND CLAYMORE MINES. K-407: RIFLES AND PISTOLS. K-408: RIFLES, PISTOLS AND SHOTGUNS.
- (10) SPECIAL INFORMATION. NO TRAINING WILL BE SCHEDULED ON THE DOWN-RANGE PORTIONS OF RANGES K-211, K-301, K-303, K-305, K-323, K-325 AND K-405 UNLESS ACCOMPANIED BY EOD PERSONNEL. RANGE K-326 IS A HAZARDOUS HIGH-EXPLOSIVE AREA. UNITS WILL REMAIN CLEAR OF ALL FOOD PLOTS. DRINKING WATER OBTAINED FROM STREAMS/CREEKS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

L. AREA L

- (1) LOCATION. AREA L IS LOCATED IN THE SOUTHWEST PORTION OF CAMP LEJEUNE. IT IS BORDERED TO THE NORTH BY TRAINING AREA M (728352 TO 772351), TO THE EAST BY MILL CREEK AND THE NEW RIVER (772351 TO 774334 AND 774334 TO 786279), TO THE SOUTH BY EVERETT CREEK (786279 TO 752271) AND TO THE WEST BY NC ROUTE 210 AND U. S. ROUTE 17 (752271 TO 727301 AND 727301 TO 728352).
- (2) SIZE. THE AREA IS APPROXIMATELY 7800 METERS NORTH TO SOUTH AND 4000 METERS EAST TO WEST AT ITS WIDEST POINTS.

- (3) SOIL. SOIL COMPOSITION CONSISTS OF SAND, LOAM AND MUCK.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, ASH, SWEET GUM, COTTONWOOD, TUPELO AND CEDAR), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA L IS DIVIDED INTO THREE SECTIONS: LA, LB AND LC. ALL SECTIONS CONTAIN DISSECTING ROADS AND CLEARED AREAS.
- (7) PRIMARY USE. THE AREA IS USED FOR CONDUCTING FORMAL BASIC SERVICE RIFLE TRAINING AND OCCASIONAL INFANTRY UNIT MANEUVERS.
- (8) <u>FIRING RANGES</u>. THERE ARE TWO FIRING RANGES IN AREA L; L-5 AND THE BASE RIFLE RANGE.
- (9) RANGE USE. RANGE L-5 IS AUTHORIZED FOR ALL INFANTRY WEAPONS EXCEPT .50 CALIBER MACHINE GUNS AND 60MM/81MM MORTARS. THE BASE RIFLE RANGE IS LIMITED TO THE SERVICE RIFLE AND PISTOL.
- (10) SPECIAL INFORMATION. UNITS WILL REMAIN CLEAR OF ALL FOOD PLOTS.

 DRINKING WATER OBTAINED FROM STREAMS/CREEKS MUST BE PURIFIED PRIOR TO

 CONSUMPTION.

M. AREA M

- (1) LOCATION. AREA M IS LOCATED IN THE WESTERN PORTION OF CAMP LEJEUNE. IT IS BORDERED TO THE NORTH BY HICKS RUN CREEK, SOUTHWEST CREEK AND THE NEW RIVER (731411 TO 746424, 746424 TO 777405 AND 777405 TO 791422), TO THE WEST BY THE NEW RIVER AND TRAINING AREA K (791422 TO 793403 AND 793403 TO 792381), TO THE SOUTH BY TRAINING AREA K, MILL CREEK AND TRAINING AREA L (792381 TO 775353, 775353 TO 772352 AND 772352 TO 728352) AND TO THE WEST BY U. S. ROUTE 17 (728352 TO 731411).
- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 7100 METERS NORTH TO SOUTH AND APPROXIMATELY 5900 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF LOAM, SAND AND MUCK.

- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, ASH, SWEET GUM, MAPLE, COTTONWOOD, TUPELO AND CEDAR), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA M IS DIVIDED INTO SIX SECTIONS: MA, MB, MC, MD, ME AND MF. NUMEROUS STREAMS/CREEKS AND ROADS DISSECT THIS TRAINING AREA.
- (7) PRIMARY USE. THE AREA IS USED EXTENSIVELY FOR INFANTRY MANEUVERS AND TRAINING.
 - (8) FIRING RANGES. NONE
 - (9) RANGE USE. NONE
- (10) <u>SPECIAL INFORMATION</u>. UNITS WILL REMAIN CLEAR OF ALL FOOD PLOTS. DRINKING WATER OBTAINED FROM STREAMS/CREEKS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION. FIRING RANGES M-113, 115 AND 122 ARE NO LONGER IN USE.

N. AREA N-1

- (1) LOCATION. AREA N-1 IS LOCATED IN THE SOUTHEAST PORTION OF CAMP LEJEUNE. ALSO KNOWN AS BT-3, IT IS BORDERED TO THE NORTH BY TRAINING AREA G AND SAUNDERS CREEK (944311 TO 978343 AND 991324 TO 18STU003333), TO THE EAST BY BEAR CREEK AND BEAR INLET (978343 TO 991324 AND 18STU003333 TO 18STU004327), TO THE SOUTH BY THE ATLANTIC OCEAN (18STU004327 TO 944294) AND TO THE WEST BY TRAINING AREAS E AND G (944294 TO 944306 AND 944306 TO 944311).
- (2) SIZE. THE AREA IS APPROXIMATELY 2700 METERS NORTH TO SOUTH AND APPROXIMATELY 6900 METERS EAST NORTHEAST TO WEST SOUTHWEST AT ITS WIDEST POINTS.
- (3) SOIL. SOIL COMPOSITION CONSIST OF FINE SAND AND LOAM.

- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF PINE TREES, VINES AND SCRUED.

 THE AREA IS NEAR VOID OF VEGETATION DUE TO RANGE USE.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
 - (6) AREA SUBDIVISION. NONE
 - (7) PRIMARY USE. BOMBING AND TARGET RANGE.
- (8) FIRING RANGES. THERE IS ONLY ONE FIRING RANGE LOCATED IN AREA N-1; BT-3.
- (9) RANGE USE. AREA N-1 IS A HIGH EXPLOSIVE IMPACT AREA FOR USE BY AIRCRAFT (ORDNANCE IS NOT TO EXCEED 250 LBS OF THT EQUIVALENCY). ALL TYPES OF ARTILLERY, MORTAR, TANK, MACHINE GUN, 106MM RECOILLESS RIFLE, RIFLE AND TOW MISSILES (FIRED FROM ROTARY AIRCRAFT) ARE ALSO PERMITTED.
- (10) <u>SPECIAL INFORMATION</u>. THE N-1 IMPACT AREA IS PROHIBITED TO ALL PERSONNEL AND CAN ONLY BE ENTERED BY EOD PERSONNEL WITH THE PERMISSION OF THE RANGE CONTROL OFFICER (RCO).

O. AREA Q.

- (1) LOCATION. AREA Q IS LOCATED IN THE EASTERN PORTION OF CAMP LEJEUNE. IT IS BORDERED TO THE NORTH BY THE TOWN OF HUBERT (939433 TO 954428), TO THE EAST BY NC ROUTE 172 AND BEAR CREEK (954428 TO 962374 AND 962374 TO 968355), TO THE SOUTH BY TRAINING AREA G (968355 TO 947332) AND TO THE WEST BY TRAINING AREAS G (G-10 IMPACT AREA) AND AREA F (9473) 941369 AND 941369 TO 939433).
- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 10,100 METERS NORTH TO SOUTH AND APPROXIMATELY 1600 METERS EAST TO WEST AT ITS WIDEST POINTS.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF LOAM AND FINE SAND.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, SWEET GUM, MAPLE, ASH AND TUPELO), VINES AND SCRUBS. SWAMP GRASS WILL BE ENCOUNTERED ALONG STREAM/CREEK BEDS AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.

- (6) AREA SUBDIVISION. AREA Q IS DIVIDED INTO TWO SECTIONS: QA AND QB. NUMEROUS STREAMS AND ROADS DISSECT BOTH SECTIONS.
- (7) PRIMARY USE. THE AREA IS USED FOR CONDUCTING INFANTRY UNIT MANEUVERS AND BIYOUAC.
 - (8) FIRING RANGES. NONE
 - (9) RANGE USE. NONE
- (10) <u>SPECIAL INFORMATION</u>. UNITS WILL REMAIN CLEAR OF ALL FOOD PLOTS.

 SECTION QB IS RESTRICTED TO DIVISION TRAINING. DRINKING WATER OBTAINED

 FROM STREAMS/CREEKS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

P. AREA R

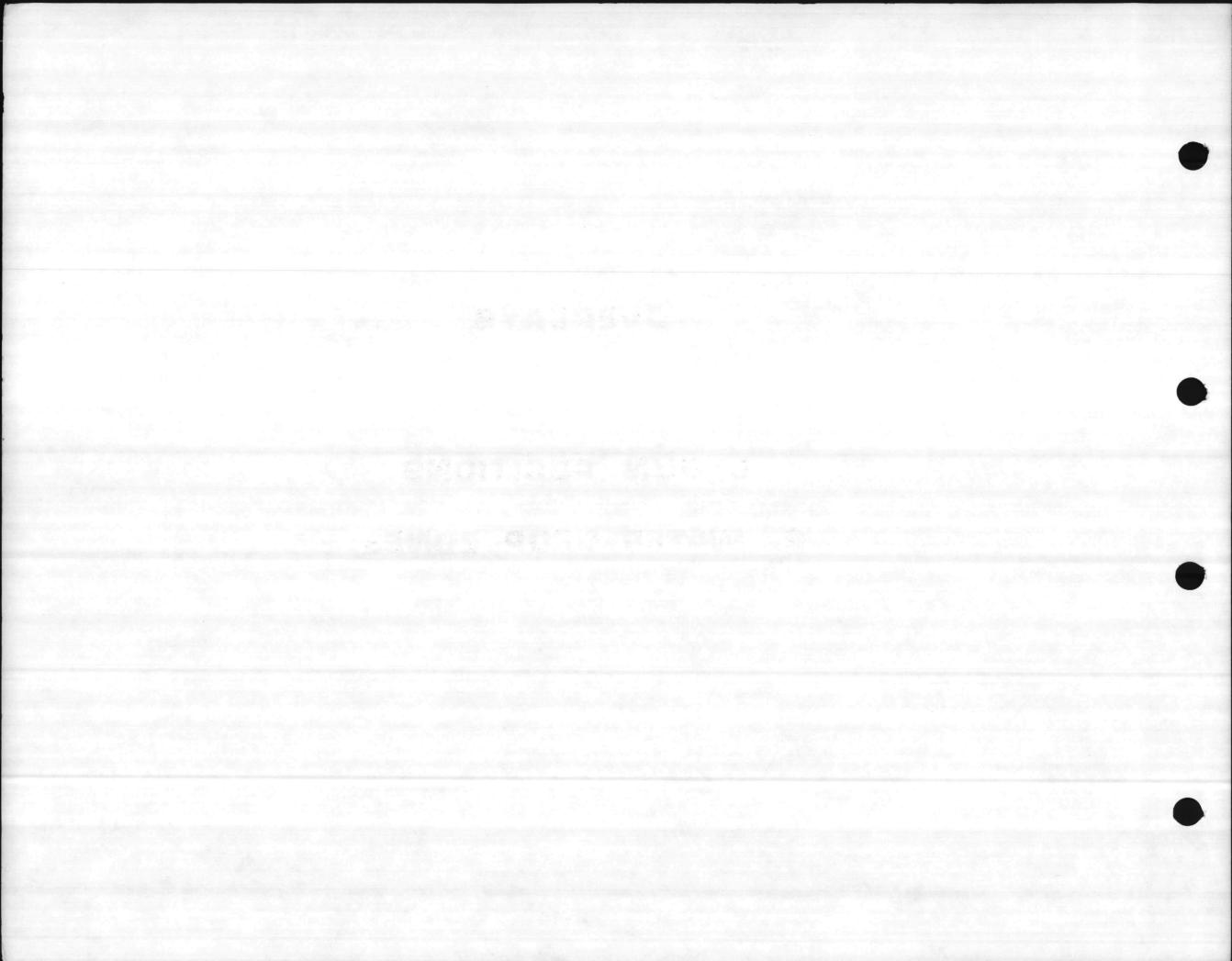
- (1) LOCATION. AREA R IS LOCATED IN THE NORTHERN PORTION OF CAMP LEJEUNE. IT IS BORDERED TO THE NORTH BY NC HIGHWAY 24 (853451 TO 897431), TO THE EAST BY TRAINING AREA F (897431 TO 883417), TO THE SOUTH BY WALLACE CREEK (883417 TO 864416) AND TO THE WEST BY THE CAMP LEJEUNE RAILROAD ADJACENT TO HOLCOMB BOULEVARD (864416 TO 853451).
- (2) <u>SIZE</u>. THE AREA IS APPROXIMATELY 1900 METERS NORTH TO SOUTH ALONG GRID LINE 87 AND 3700 METERS EAST TO WEST ALONG GRID LINE 43.
 - (3) SOIL. SOIL COMPOSITION CONSISTS OF SAND AND LOAM.
- (4) <u>VEGETATION</u>. VEGETATION CONSISTS OF TREES (PINE, OAK, SWEET GUM, ASH, COTTONWOOD AND TUPELO), VINES AND SCRUBS. SWAMP GRASS IS FOUND ALONG WALLACE CREEK AND AREAS OF STANDING WATER.
 - (5) SLOPE RANGE. THE AREA RANGES IN SLOPE FROM 0 TO 5 PERCENT.
- (6) AREA SUBDIVISION. AREA R IS DIVIDED INTO TWO SECTIONS; RA AND RB.
 BOTH ARE DISSECTED BY IMPROVED AND UNIMPROVED ROADS.
- (7) PRIMARY USE. THE AREA IS USED FOR INFANTRY UNIT MANEUVERS AND BIVOUAC.
 - (8) FIRING RANGES. NONE

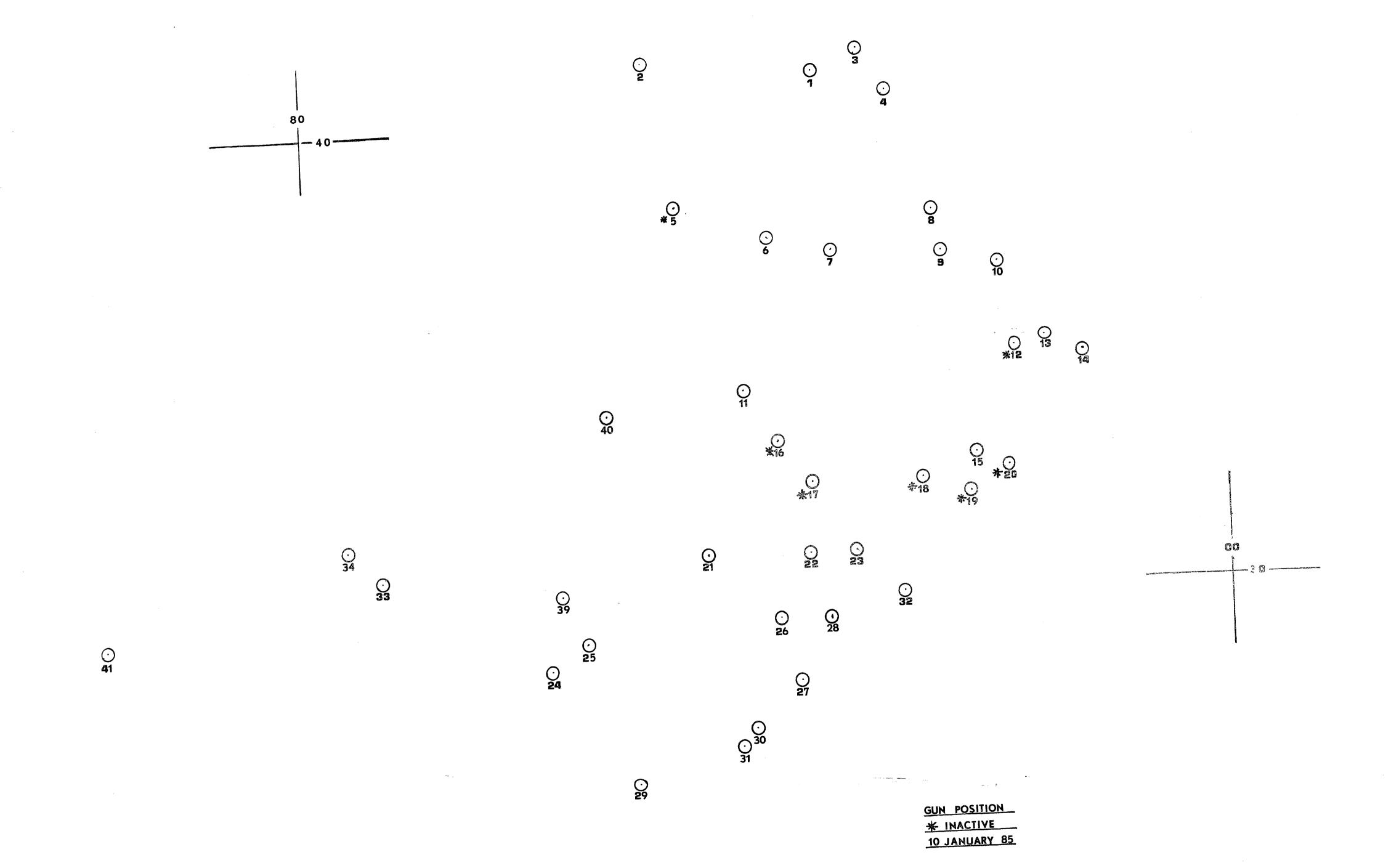
(9) RANGE USE. NONE

(10) SPECIAL INFORMATION. THE FAD AREA WITHIN GRID SQUARES 8742 AND 8743 IS RESTRICTED AND IS NOT AVAILABLE FOR TRAINING. UNITS WILL REMAIN CLEAR OF ALL FOOD PLOTS. DRINKING WATER OBTAINED FROM STREAMS/CREEKS WITHIN THIS AREA MUST BE PURIFIED PRIOR TO CONSUMPTION.

OVERLAYS

- 1. GUN POSITIONS
- 2. WATER DROP ZONES



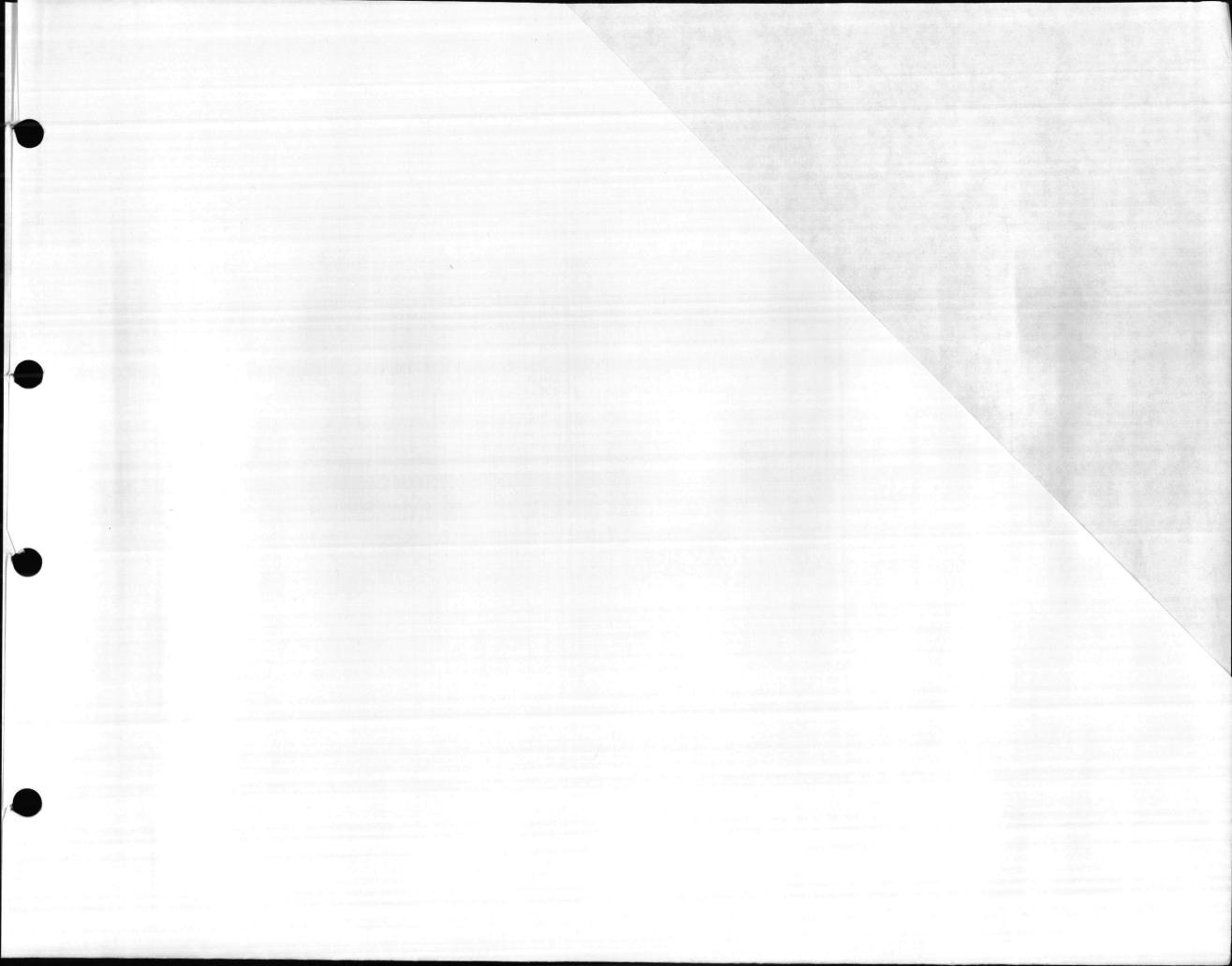


CAMP LEJEUNE SPECIAL MAP

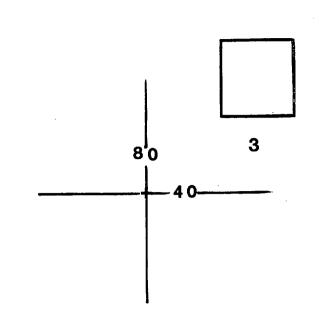
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GUN POSITION * INACTIVE 10 JANUARY 85

CAMP LEJEUNE SPECIAL MAP







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WATER DROP ZONES

1-STONE BAY
2-HICKS (SHARK)
3-MORGAN BAY
4-GATOR (RECON BEACH)
10 JANUARY 85

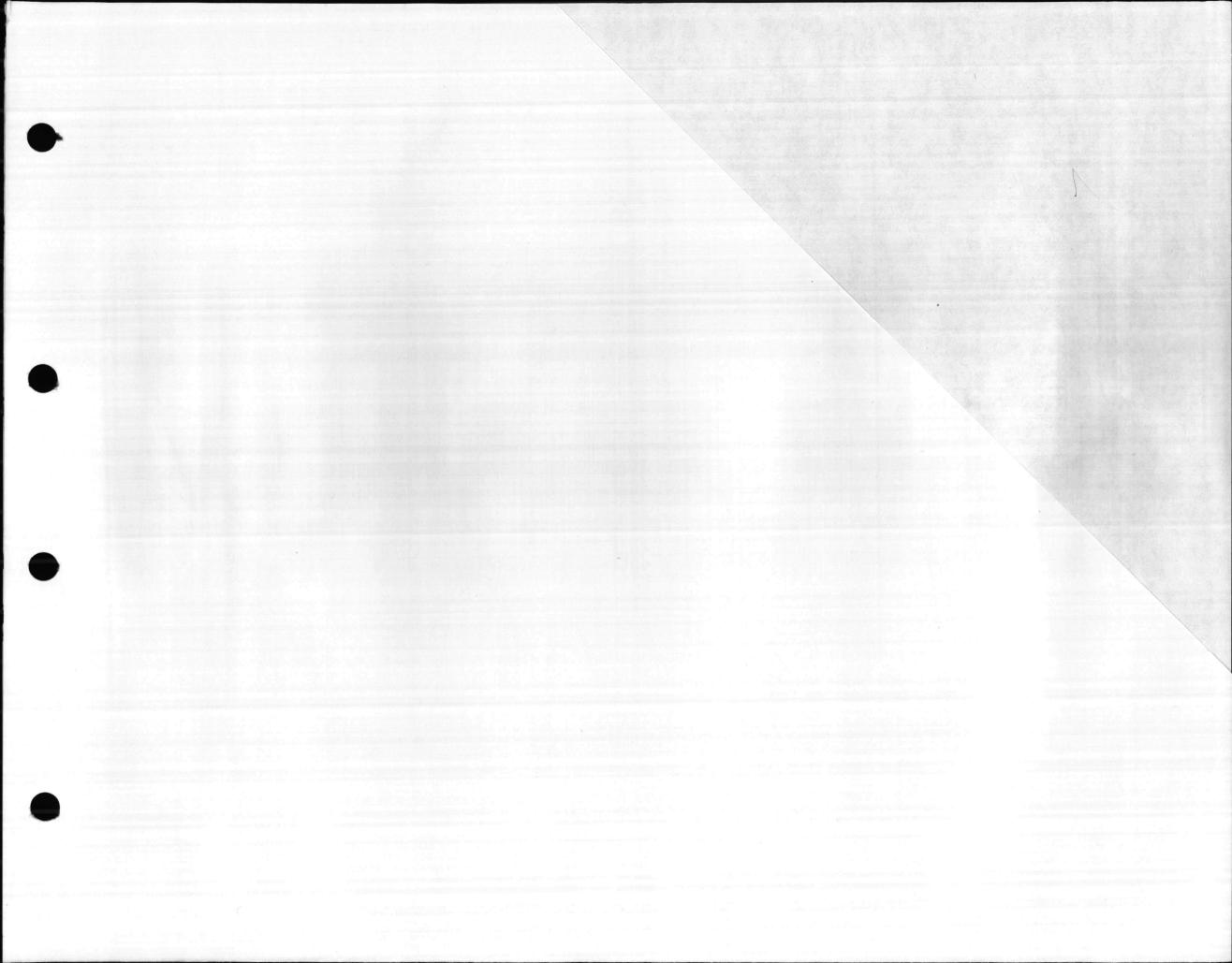
CAMP LEJEUNE SPECIAL MAP.

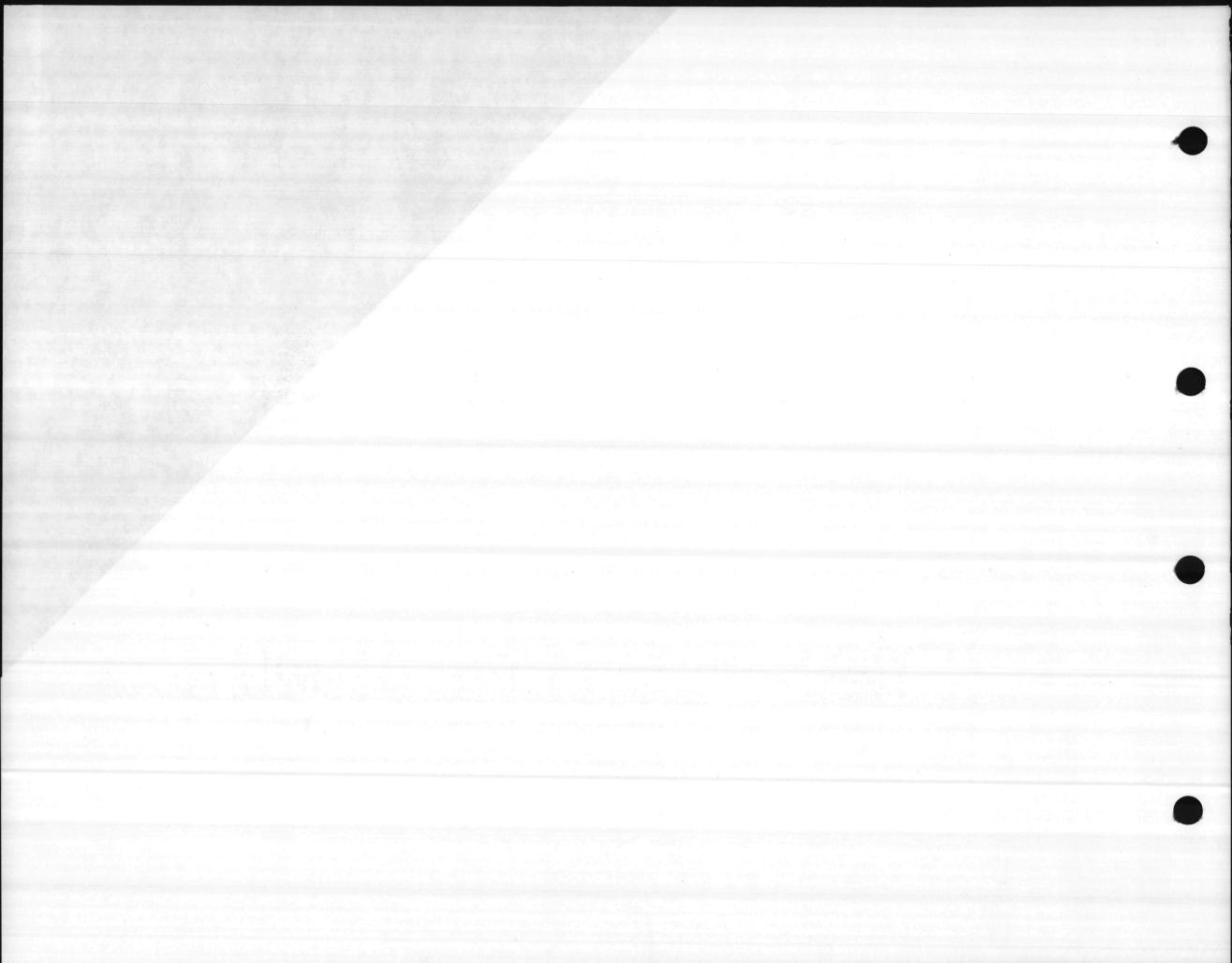
water drop zones

1-Stone Bay 2-Hicks (Shark) 3-Morgan Bay 4-Gator (recon Beach)

10 JANUARY 85

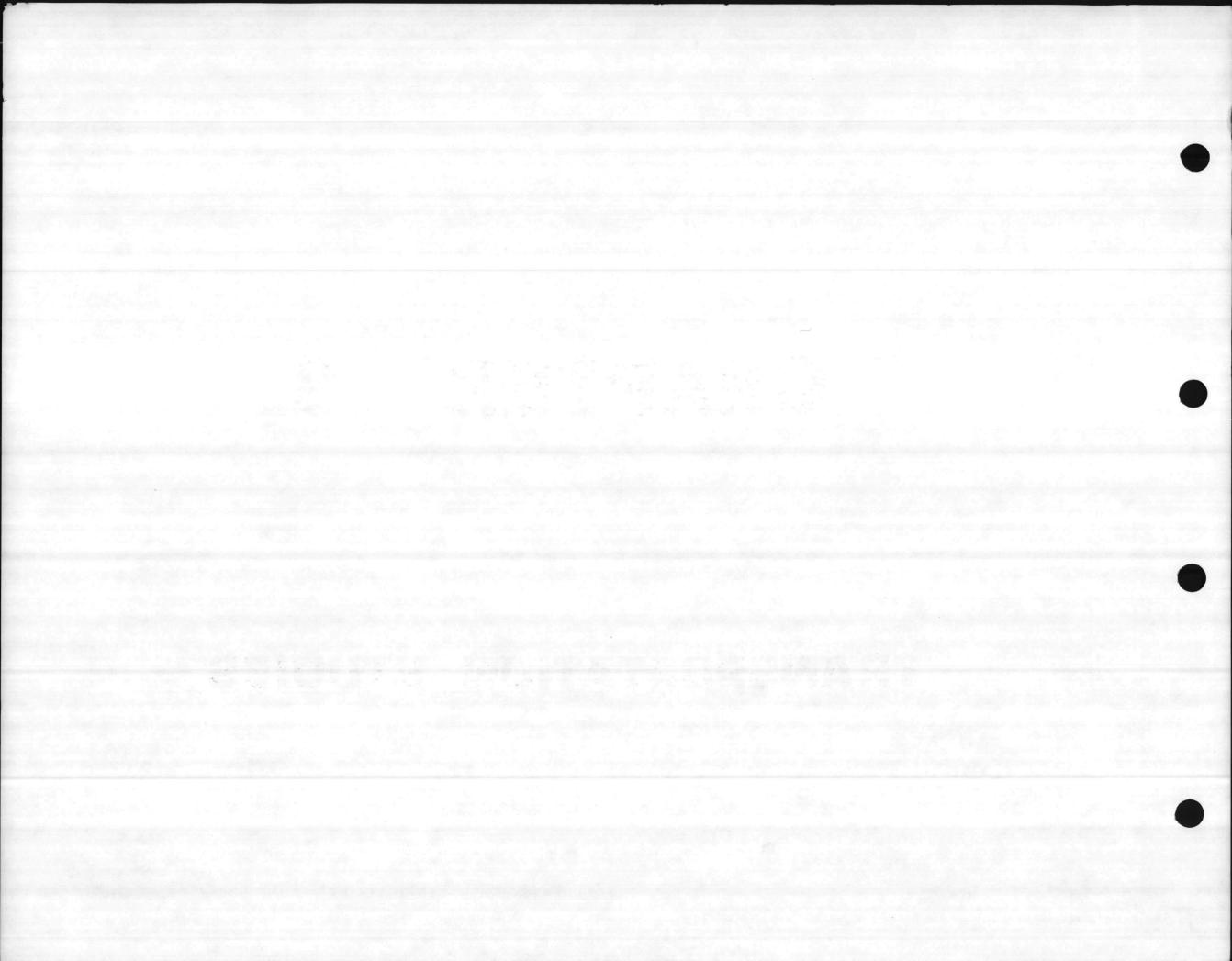
camp lejeune special map





CHAPTER 3

TRANSPORTATION STUDIES



- 1. GENERAL. MARINE CORPS BASE CAMP LEJEUNE MAINTAINS AN EXTENSIVE NETWORK
 OF HARD AND LOOSE SURFACE ROADS AND TRAILS, AS WELL AS SEVERAL MILES OF
 STANDARD-GAGE RAILWAY. HIGHWAY AND RAIL CLEARANCE TO 2D MARDIV/2D FSSG
 STAGING AREAS AND TRANSSHIPMENT POINTS IS ADEQUATE TO SUPPORT THE MOVEMENT OF ALL ASSIGNED UNITS.
- 2. PURPOSE. THE PURPOSE OF THIS CHAPTER IS TO FAMILIARIZE THE TACTICAL COMMANDER WITH THE ROAD AND RAIL NETWORK SERVICING CAMP LEJEUNE AND CONNECTING IT WITH THE MAJOR TRANSSHIPMENT POINTS AT MCAS, CHERRY POINT, WILMINGTON PORT FACILITY AND MOREHEAD CITY PORT FACILITY. ALSO INCLUDED WITHIN THIS CHAPTER IS INFORMATION ON AMPHIBIOUS TRACKED VEHICLE WATER ENTRY POINTS LOCATED ALONG THE NEW RIVER AND THE INTRACOASTAL WATERWAY.

3. PERIPHERAL HIGHWAYS. CAMP LEJEUNE IS CONNECTED TO ITS MAJOR TRANSSHIPMENT POINTS BY 4 MAJOR HIGHWAYS. THESE HIGHWAYS ARE U. S. 17 (B.E. 0410LM0091), U. S. 70 (B.E. 0410LM0092), NC 24 (B.E. 0410LM0090) AND U. S. 76 (B.E. 0410LM0095). THE BRIDGES FOR ALL ROAD SEGMENTS ARE HIGHLIGHTED ON THE ATTACHED GRAPHICS AND ARE CLASSIFIED AS ALL-WEATHER, HARD-SURFACED.

SEGMENT DATA

	ORIGIN &		*	
ROUTE & NAME		DISTANCE	COMPOSITION	REMARKS
NC 24	FROM CLNC TO MANSFIELD (JUNCTION NC 24/US 17)			CONTAINS SEGMENTS AL THRU A4 AND BRIDGES D1 THRU D5
	SEGMENT AL. FROM JUNCTION NC 24/US 17 TO MAIN GATE CLNC	6 MILES	Α.	INCLUDES BRIDGE D1 OVER THE NEW RIVER
	SEGMENT A2. FROM MAIN GATE CLNC TO SWANSBORO BRIDGE	14 MILES	A	INCLUDES BRIDGES D2 AND D3 OVER THE WHITE OAK RIVER
	SEGMENT A3. FROM SWANSBORO BRIDGE TO JUNCTION OF NC 24/ THREE MILE ROAD (HIBBS		В	INCLUDES BRIDGES D4 OVER BROAD CREEK AND D5 NEAR PENDER PARK
	SEGMENT A4. FROM JUNCTION OF NC 24/ THREE MILE ROAD (HIBBS ROAD) TO MANSFIELD	3 MILES	В	
THREE MILE ROAD (HIBBS ROAD)	SEGMENT A5. FROM JUNCTION OF NC 24/ THREE MILE ROAD TO JUNCTION OF THREE MILE ROAD/US 70	3 MILES	В	
US 70	MOREHEAD CITY PORT FACILITY TO NEW BERN	39 MILES	A	INCLUDES BRIDGES D6 OVER SWAMP, D7 OVER THE TRENT RIVER AND SEGMENTS C1 THRU C5
	SEGMENT Cl. FROM MOREHEAD CITY PORT TO MANSFIELD	5 MILES	A	
1	SEGMENT C2. FROM MANSFIELD TO JUNCTION OF NC 24/THREE MILE ROAD	5 MILES	A	

	ORIGIN &			*	
ROUTE & NAME	DESTINATION	DIS	STANCE	COMPOSITION	REMARKS
	SEGMENT C3. FROM JUNCTION NC 24/ THREE MILE ROAD TO MCAS, CHERRY POINT MAIN GATE		MILES	A	
	SEGMENT C4. FROM MCAS, CHERRY POINT MAIN GATE TO RIVERDALE	10	MILES	Α	INCLUDES BRIDGE D6 OVER SWAMP
	SEGMENT C5. FROM RIVERDALE TO NEW BERN	10	MILES	A	INCLUDES BRIDGE D7 OVER THE TRENT RIVER
US 17 (SOUTH)	FROM CLNC TO JUNCTION US 17/US 76	43	MILES		CONTAINS SEGMENTS B1 THRU B3
	SEGMENT B1. FROM CLNC TO US 17/SEABOARD COASTLINE RAIL CROSSING		MILES	A	
	SEGMENT B2. FROM US 17/SEABOARD COASTLINE RAIL CROSSING TO HOLLY RIDGE		MILES	В	
	SEGMENT B3. FROM HOLLY RIDGE TO JUNCTION US 17/US 76		MILES	В	
US 17 (NORTH)	FROM JUNCTION NC 24/US 17 TO NEW BERN	36	MILES	В	CONTAINS SEGMENTS B4 THRU B6 AND BRIDGE D8
	SEGMENT B4. FROM JUNCTION NC 24/US 17 TO MAYSVILLE		MILES	В	INCLUDES BRIDGE D8 OVER THE NEW RIVER
	SEGMENT B5. FROM MAYSVILLE TO POLLOCKSVILLE	7	MILES	В	
	SEGMENT B6. FROM POLLOCKSVILLE TO NEW BERN	12	MILES	В	
us 76	FROM BAYMEADE TO WILMINGTON PORT FACILITY	11	MILES	A	CONTAINS SEGMENTS E1, E2 AND BRIDGE D9
	SEGMENT E1. FROM BAYMEADE TO WRIGHTSVILLE	4	MILES	A	INCLUDES BRIDGE D9 OVER WRIGHTSVILLE INLET

ORIGIN &

ROUTE & NAME DESTINATION DISTANCE COMPOSITION REMARKS

SEGMENT E2. FROM WRIGHTSVILLE TO WILMINGTON PORT FACILITY

7 MILES

*COMPOSITION LEGEND:

- A FOUR-LANE, HARD-SURFACE, HEAVY-DUTY, ALL-WEATHER
 B DUAL-LANE, HARD-SURFACE, HEAVY-DUTY, ALL-WEATHER
 C DUAL-LANE, HARD-SURFACE, MEDIUM-DUTY, ALL-WEATHER
 D DUAL-LANE, HARD-SURFACE, LIGHT-DUTY, ALL-WEATHER

TRANSPORTATION ILLUSTRATION SHEET

DATE MAP COMPILED: 01 OCT 76



COUNTRY	UNITED STATES	PERIPHERAL HIGHWA		AYS
NAME	NORTH CAROLINA		LAT/LONG	SI

44700 PRODUCED BY: 2D FIIU TDI CAT FOR: 2D MARDIV

SEE TEXT

4. INTERNAL ROADS. THIS SECTION INCLUDES THE INTERNAL PRIMARY ROADS SERVICING THE CAMP LEJEUNE MILITARY RESERVATION. THESE ARE HOLCOMB BOULEVARD (B.E. 0410LM0096), SNEADS FERRY ROAD (B.E. 0410LM0097), MARINES ROAD (B.E. 0410LM0098), ONSLOW BEACH ROAD (B.E. 0410LM0099), NC 172 (B.E. 0410LM0093) AND NC 210 (B.E. 0410LM0094). THE BRIDGES ON THE ROADS ARE HIGHLIGHTED ON THE ATTACHED GRAPHICS AND ARE ALL CLASSIFIED AS ALL-WEATHER, HARD-SURFACED, EXCEPT BRIDGES D3 AND D4 WHICH ARE MOVABLE SPAN BRIDGES. TANK CROSSING PADS ARE INDICATED IN THE REMARKS SECTION OF THE BELOW LISTED DATA TABLE AS WELL AS ON THE TOPOGRAPHIC OVERLAY.

SEGMENT DATA

ROUTE & NAME	ORIGIN & DESTINATION	DISTANCE	* COMPOSITION	REMARKS
HOLCOMB BLVD	FROM JUNCTION NC 24 TO END	5.5 MILES	А	CONTAINS SEGMENTS Al, A2 AND BRIDGE D1
	SEGMENT AL. FROM JUNCTION NC 24/MAIN GATE OF CLNC TO JUNCTION SNEADS FERRY ROAD/HOLCOMB BLVD	3.5 MILES	A	INCLUDES BRIDGE D1 OVER WALLACE CREEK
	SEGMENT A2. FROM JUNCTION SNEADS FERRY ROAD/HOLCOMB BLVD TO EN		A	
SNEADS FERRY ROAD	FROM JUNCTION HOLCOMB BLVD/SNEADS FERRY ROAD TO JUNCTION NC 172/ SNEADS FERRY ROAD	6.5 MILES	В	INCLUDES SEGMENTS B1, B2 AND BRIDGE D2
	SEGMENT B1. FROM ROAD JUNCTION HOLCOMB BLVD/ SNEADS FERRY ROAD TO JUNCTION MARINES ROAD/ SNEADS FERRY ROAD	4 MILES	В	INCLUDES TANK CROSSING PADS AT 870390 AND 880370 AND BRIDGE D2 OVER COWHEAD CREEK
	SEGMENT B2. FROM JUNCTION MARINES ROAD/ SNEADS FERRY ROAD TO JUNCTION NC 172/SNEADS FERRY ROAD	2.5 MILES	В	

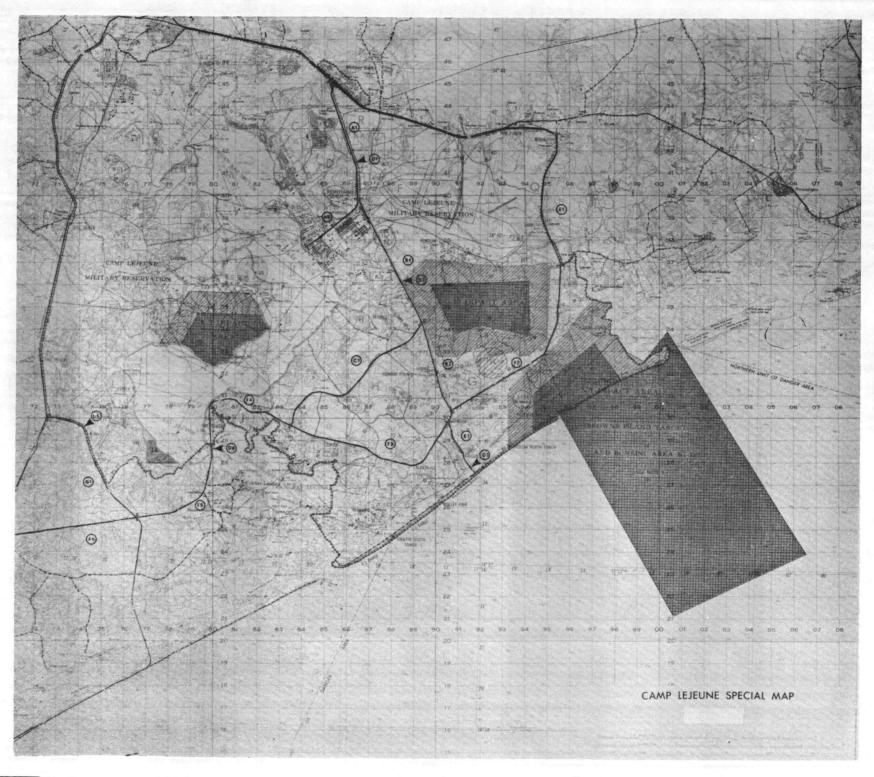
ROUTE & NAME	ORIGIN & DESTINATION	DISTANCE	* COMPOSITION	REMARKS
MARINES ROAD	SEGMENT C1. FROM JUNCTION SNEADS FERRY ROAD/MARINES ROAD TO JUNCTION NC 172/MARINES	5 MILES	В	INCLUDES TANK CROSSING PADS AT 893341, 886334 AND 861312
ONSLOW BEACH ROAD	SEGMENT EL. FROM JUNCTION NC 172/ONSLOW BEACH ROAD TO ONSLOW BEACH	1.5 MILES	C	INCLUDES BRIDGE D3 OVER INTRA- COASTAL WATERWAY AND TANK CROSSING PAD AT 914280
NC 172	FROM JUNCTION NC 24/ NC 172 TO JUNCTION US 17/NC 176	26.5 MILES	В	CONTAINS SEGMENTS F1 THRU F6 AND BRIDGE D4
	SEGMENT F1. FROM JUNCTION NC 24/NC 172 TO JUNCTION TRIANGLE GATE, CLNC/NC 172	4 MILES	В	
	SEGMENT F2. FROM JUNCTION TRIANGLE GATE, CLNC/NC 172 TO JUNCTION SNEADS FERRY ROAD/NC 172	5.5 MILES	В	INCLUDES TANK CROSSING PADS AT 956367, 953341, 949330, 946327, 940323 AND 919311
	SEGMENT F3. FROM JUNCTION SNEADS FERRY ROAD/NC 172 TO JUNCTION MARINES ROAD/NC 172		В	INCLUDES TANK CROSSING PADS AT 905357, 896282 AND 874283
	SEGMENT F4. FROM JUNCTION MARINES ROAD/ NC 172 TO SNEADS FERRY GATE, CLNC/NC 172	3.5 MILES	В	INCLUDES TANK CROSSING PAD AT 823303
	SEGMENT F5. FROM SNEADS FERRY GATE, CLNC TO JUNCTION NC 210/NC 172	3.5 MILES	В	INCLUDES BRIDGE D4 OVER THE NEW RIVER
	SEGMENT F6. FROM JUNCTION NC 210/NC 172 TO JUNCTION US 17/NC 173		В	
NC 210	FROM JUNCTION NC 172/NC 210 TO JUNCTION US 17/NC 210	4 MILES	В	INCLUDES BRIDGE D5 OVER STONE CREEK

*COMPOSITION LEGEND:

- A FOUR-LANE, HARD-SURFACE, HEAVY-DUTY, ALL-WEATHER
 B DUAL-LANE, HARD-SURFACE, HEAVY-DUTY, ALL-WEATHER
 C DUAL-LANE, HARD-SURFACE, MEDIUM-DUTY, ALL-WEATHER
 D DUAL-LANE, HARD-SURFACE, LIGHT-DUTY, ALL-WEATHER

NOTE: DUE TO CONTINUOUS WORK ABOARD MCB, CAMP LEJEUNE, COORDINATES LISTED FOR TANK/AMTRAK CROSSING PADS MAY BE IN ERROR UP TO 100 METERS AT ANY GIVEN TIME. CONTACT 2D TANK BATTALION S-3 FOR UP TO DATE IN-FORMATION CONCERNING THESE ITEMS.

TRANSPORTATION ILLUSTRATION SHEET



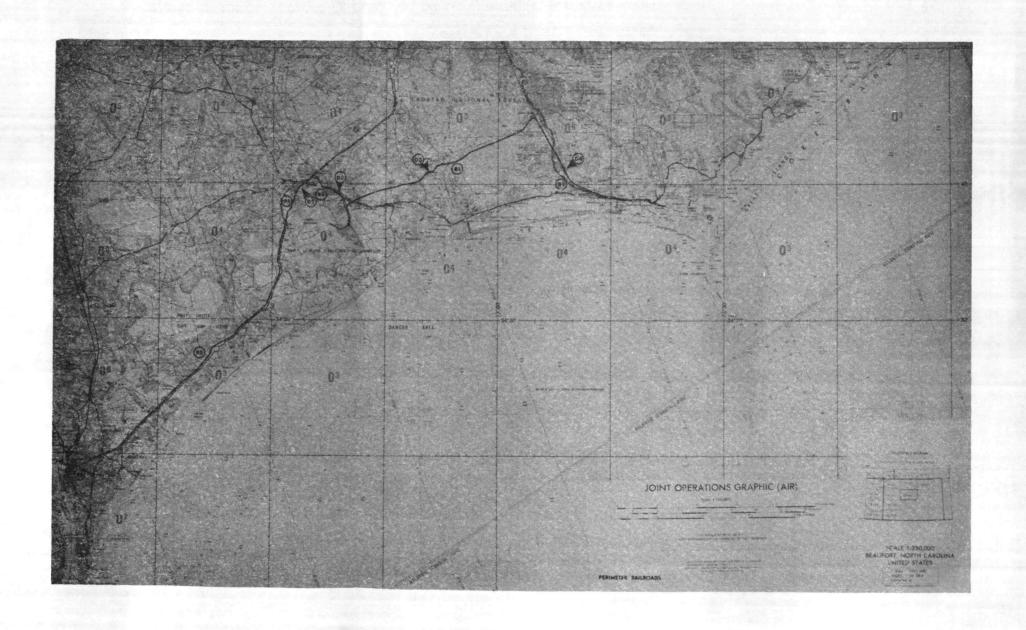
COUNTRY	UNITED STATES	INTERNAL ROADS	TDI CAT	44700
NAME	MCB CAMP LEJEUNE	LAT/LONG SE	E TEXT	

PRODUCED BY: 2D FIIU FOR: 2D MARDIV

5. PERIPHERAL RAILWAYS. CAMP LEJEUNE IS CONNECTED TO ITS MAJOR TRANSSHIPMENT POINTS BY 3 RAIL LINES. THESE ARE THE SEABOARD COASTLINE (B.E. 0410LM0100), THE CAMP LEJEUNE RAILROAD (B.E. 0410LM0102) AND THE ATLANTIC & EAST CAROLINA LINES (B.E. 0410LM0101). THESE RAILROADS ARE CLASSIFIED AS NORMAL GAUGE (4'8½") SINGLE TRACK. THE BRIDGES FOR ALL RAILROAD SEGMENTS ARE HIGHLIGHTED ON THE ATTACHED GRAPHICS AND ARE ALL NORMAL GAUGE (4'8½") SINGLE TRACK LINES.

SEGMENT DATA

	ORIGIN &		
ROUTE & NAME	DESTINATION	DISTANCE	REMARKS
SEABOARD COASTLINE	FROM CLNC TO WILMINGTON PORT FACILITY	52.5 MILES	CONTAINS SEGMENTS R4 THRU R6 AND BRIDGE D1
	SEGMENT R4. FROM CLNC TO US 17/SEABOARD COASTLINE RAIL CROSSIN		INCLUDES BRIDGE DI OVER THE NEW RIVER
	SEGMENT R5. FROM US 17/SEABOARD COASTLINE RAIL CROSSING TO WILMINGTON	40 MILES	
	SEGMENT R6. FROM WILMINGTON TO WILMINGTON PORT FACILITY	5 MILES	
CAMP LEJEUNE RAILROAD	FROM SEABOARD COASTLINE CAMP LEJEUNE RAILROAD JUNCTION TO HAVELOCK STATION	31 MILES	CONTAINS SEGMENTS R1 AND R3 AND BRIDGES D2 AND D3
	SEGMENT R3. FROM SEABOARD COASTLINE/ CAMP LEJEUNE RAILROAD JUNCTION TO CLNC MAIN GATE	5 MILES	INCLUDES BRIDGE D2 OVER THE NEW RIVER
	SEGMENT R1. FROM CLNC MAIN GATE TO HAVELOCK STATION	26 MILES	INCLUDES BRIDGE D3 OVER THE WHITE OAK RIVER
ATLANTIC & EAST CAROLINA LINES	SEGMENT R2. FROM HAVELOCK STATION TO MOREHEAD CITY PORT FACILITY	22.5 MILES	INCLUDES BRIDGE D4 OVER THE NEWPORT RIVER



COUNTRY	UNITED STATES	PERIPHERAL RAILROADS TDI CAT 45700
NAME	NORTH CAROLINA	LAT/LONG SEE TEXT

PRODUCED BY:2D FIIU FOR:2D MARDIV

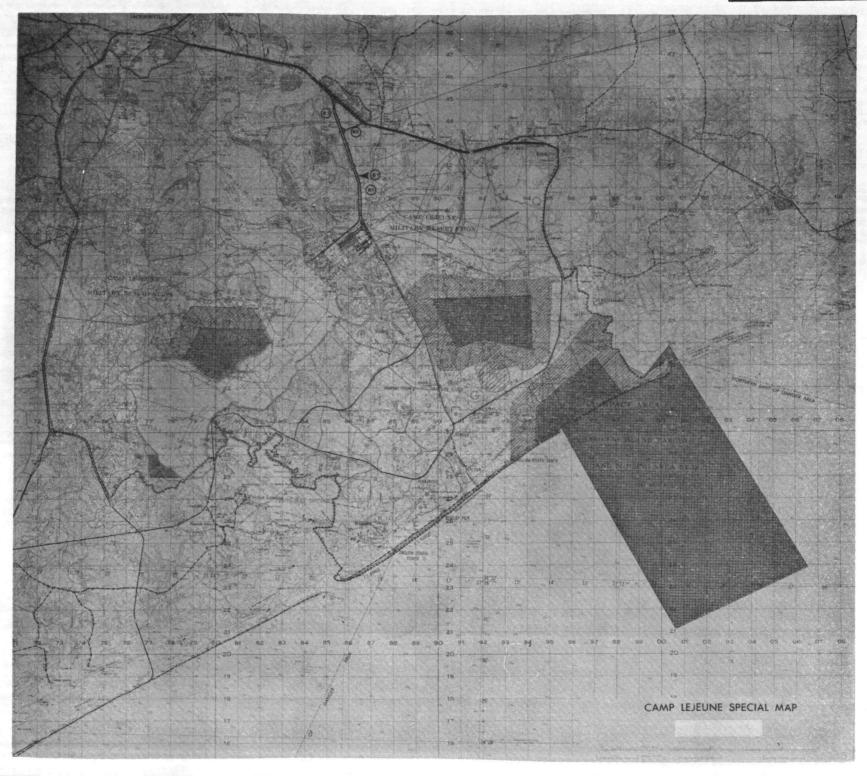
6. INTERNAL RAIL LINES. THIS SEGMENT INCLUDES THE INTERNAL PRIMARY RAILROADS SERVICING THE CAMP LEJEUNE MILITARY RESERVATION. THESE ARE THE CAMP LEJEUNE RAILROAD (B.E. 0410LM0102) AND THE SEABOARD COASTLINE (B.E. 0410LM0100). THE RAILROADS ARE ALL CLASSIFIED NORMAL GAUGE (4'8½") SINGLE TRACK. THE BRIDGES ON ALL RAILROADS ARE HIGHLIGHTED ON THE ATTACHED GRAPHICS AND ARE CLASSIFIED NORMAL GAUGE (4'8½") SINGLE TRACK.

SEGMENT DATA

ROUTE & NAME	ORIGIN & DESTINATION	DISTANCE	REMARKS
CAMP LEJEUNE RAILROAD	FROM CLNC INDUSTRIAL AREA TO NC 24/CAMP LEJEUNE RAILROAD CROSSING	3 MILES	CONTAINS SEGMENTS R1, R2 AND BRIDGE D1
	SEGMENT R1. FROM CLNC INDUSTRIAL AREA TO JUNCTION OF SEABOARD COASTLINE/CAMP LEJEUNE RAILROAD	2.5 MILES	INCLUDES BRIDGE DI OVER WALLACE CREEK
	SEGMENT R2. FROM JUNCTION OF SEABOARD COASTLINE/CAMP LEJEUNE RAILROAD TO NC 24/CAMP LEJEUNE RAILROAD CROSSING	.5 MILES	
SEABOARD COASTLINE	FROM JUNCTION OF CAMP LEJEUNE RAILROAD/ SEABOARD COASTLINE TO MAIN GATE CLNC/NC 24	1 MILE	

TRANSPORTATION ILLUSTRATION SHEET

DATE MAP COMPILED: 25 SEP 76

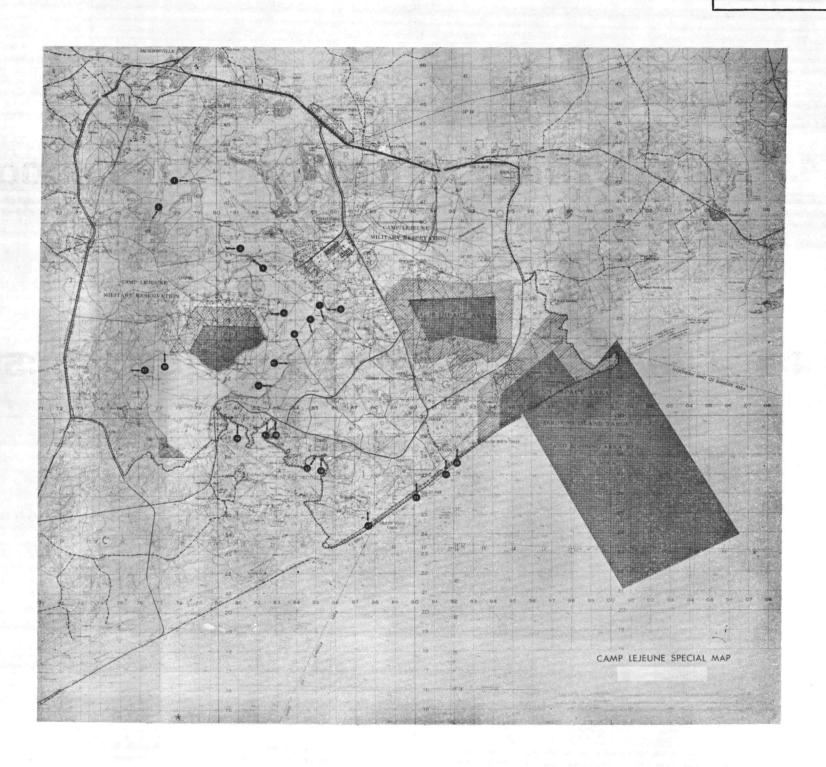


COUNTRY	UNITED	STATES	INTERNAL	RAILROAD)	TDI CAT	45700
NAME	MCB CAMP	LEJEUNE	LAT	/LONG	SEE	TEXT	

PRODUCED BY: 2D FIIU FOR: 2D MARDIV 7. AMTRACK ENTRY POINTS. THE PURPOSE OF THIS SEGMENT IS TO FAMILIARIZE THE TACTICAL COMMANDER WITH THE AMTRACK ENTRY POINTS LOCATED WITHIN THE CAMP LEJEUNE MILITARY RESERVATION. THERE ARE 22 AMTRACK ENTRY POINTS LOCATED ALONG THE NEW RIVER AND THE INTRACOASTAL WATERWAY. POINTS: 1, 2, 3, 4, 7, 8, 9, 11, 17, 18, 20, 21 AND 22 HAVE IMPROVED LIGHT-DUTY ROADS LEADING FROM THE ENTRY POINTS. POINTS: 5, 6, 10, 12, 13, 14, 15, 16 AND 19 HAVE UNIMPROVED ROADS LEADING FROM THE ENTRY POINT. FOR COMPLETE TIDAL DATA AND WEATHER INFORMATION CONSULT LOCAL WEATHER SERVICES.

TRANSPORTATION ILLUSTRATION SHEET

DATE MAP COMPILED: 25 SEP 76



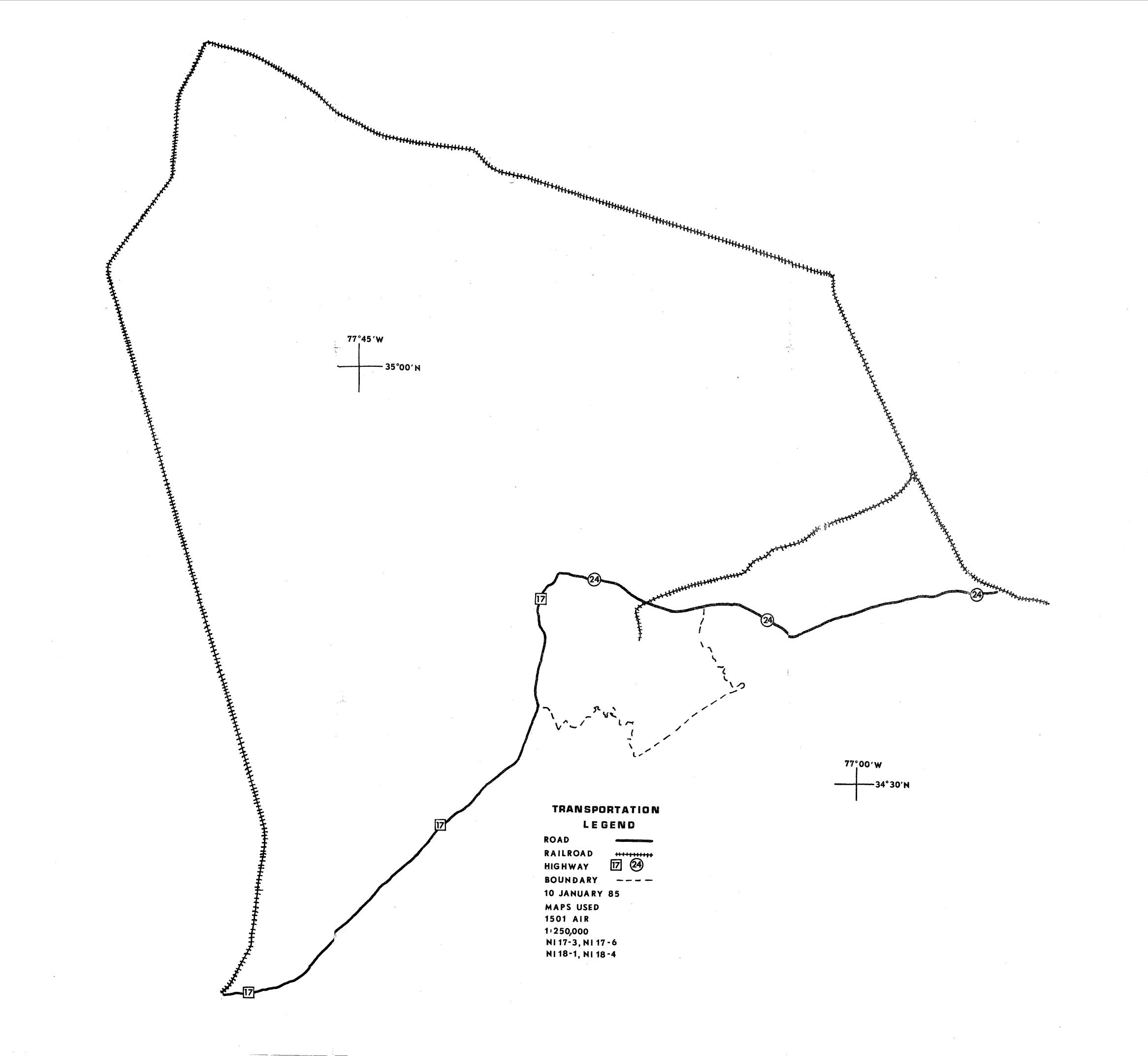
							The same of the sa		
COUNTRY	UNITED	STATES	AMTRACE	ENTRY	POIN	TS	TDI CAT	44300	
NAME	MCB CAMP	LEJEUNE		LAT/LO	NG	SEE	TEXT	1 2 99	

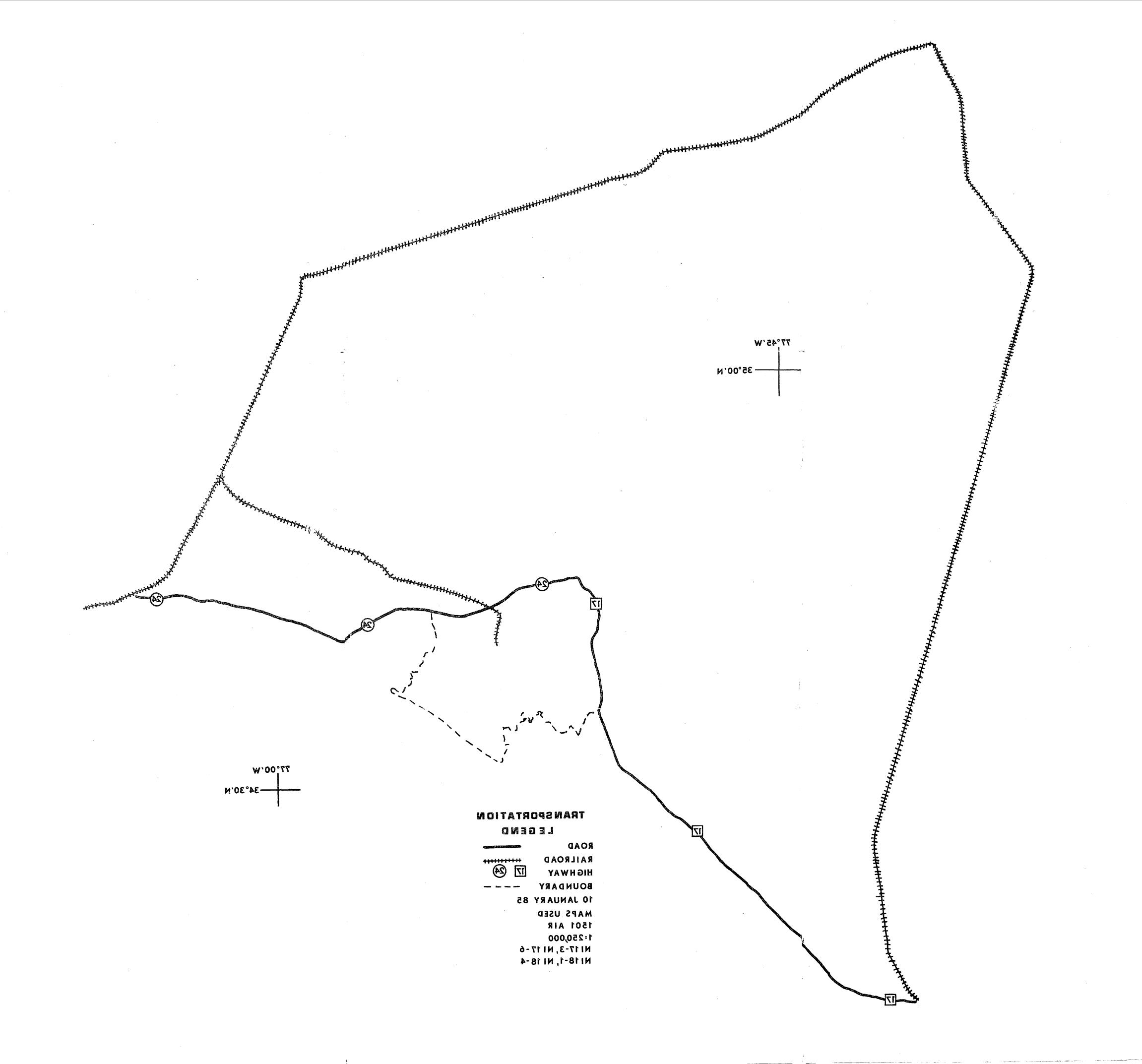
PRODUCED BY: 2D FIIU FOR: 2D MARDIV

OVERLAYS

1. TRANSPORTATION 1:250,000

2. LINES OF COMMUNICATION 1:50,000

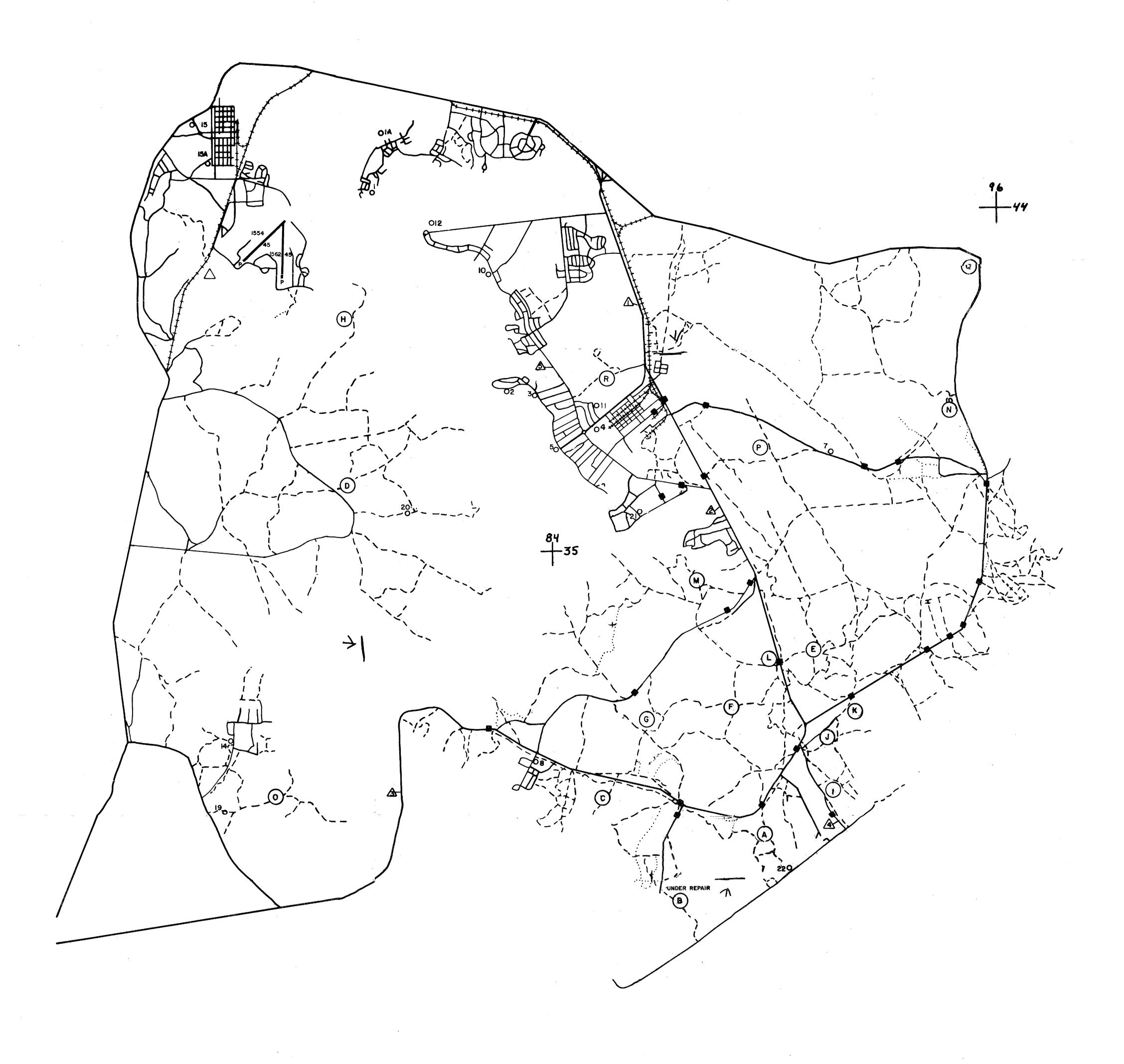






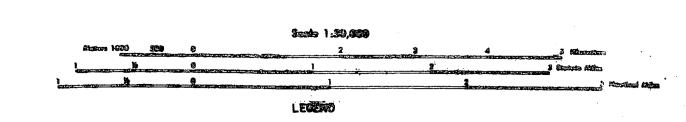


CAMP LEJEUNE AREA STUDY



PREPARED BY: FORCE TOPOGRAPHIC PLATOON BITH ENGINEER SUPPORT BATTALION, 2D FSSG FLEET MARINE FORCE ATLANTIC CAMP LEJEUNE, NORTH CAROLINA 28542

CARCLED IN AUGUST 1984 FROM CARCLEVELANE SPECIAL MAPSHEET V7429CPLEJEUNE



ROADS

ALL WEATHER, HASD SURFACE.....

ALL WEATHER, LOOSE SURFACE.....

FAIR WEATHER, LOOSE SURFACE.....

CART TRACK......

RAIL ROADS

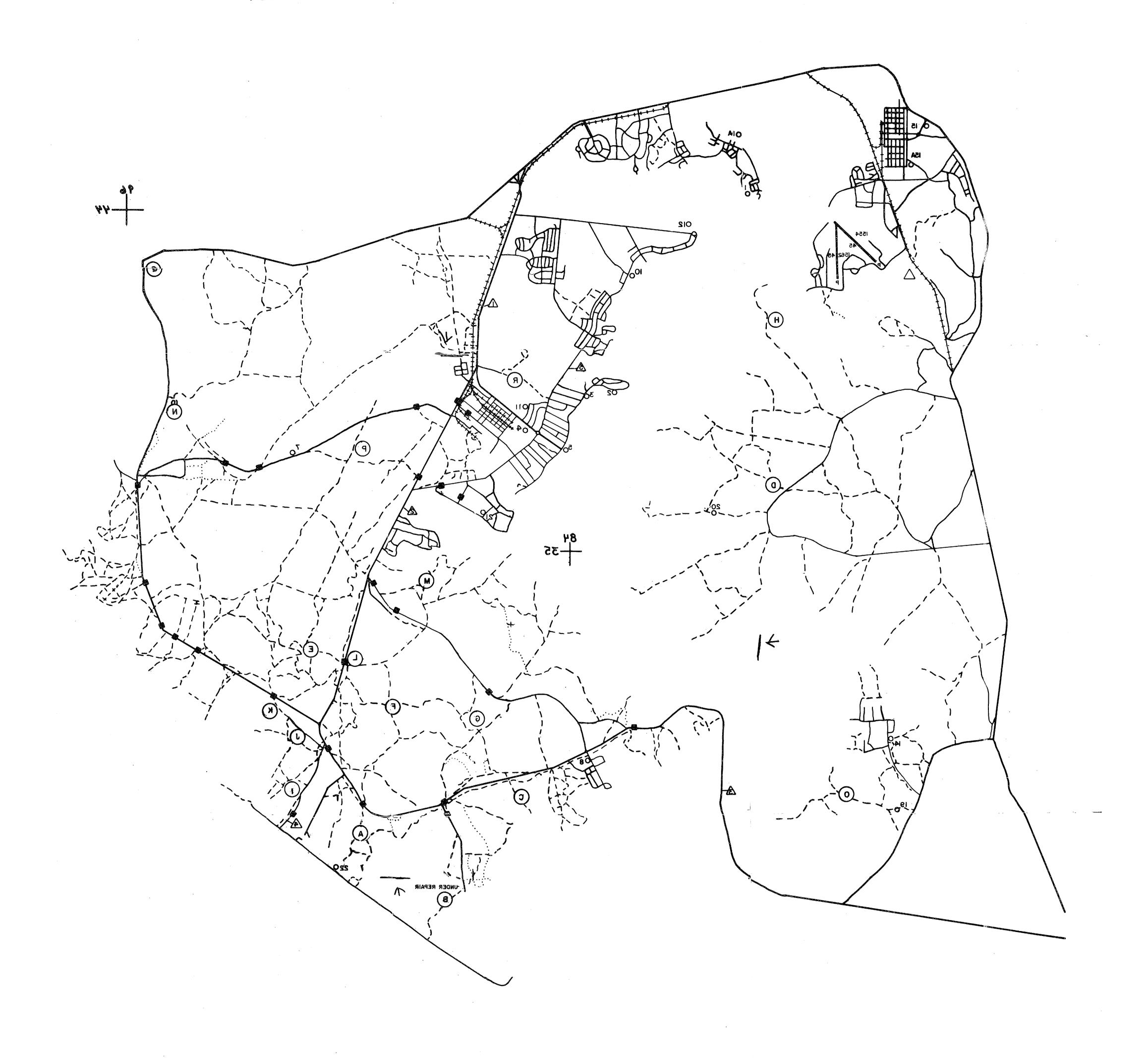
TARK CROSSING PADS

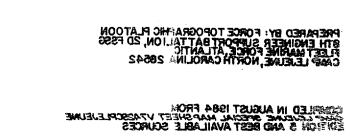
HLZ ADMINISTRATIVE 21

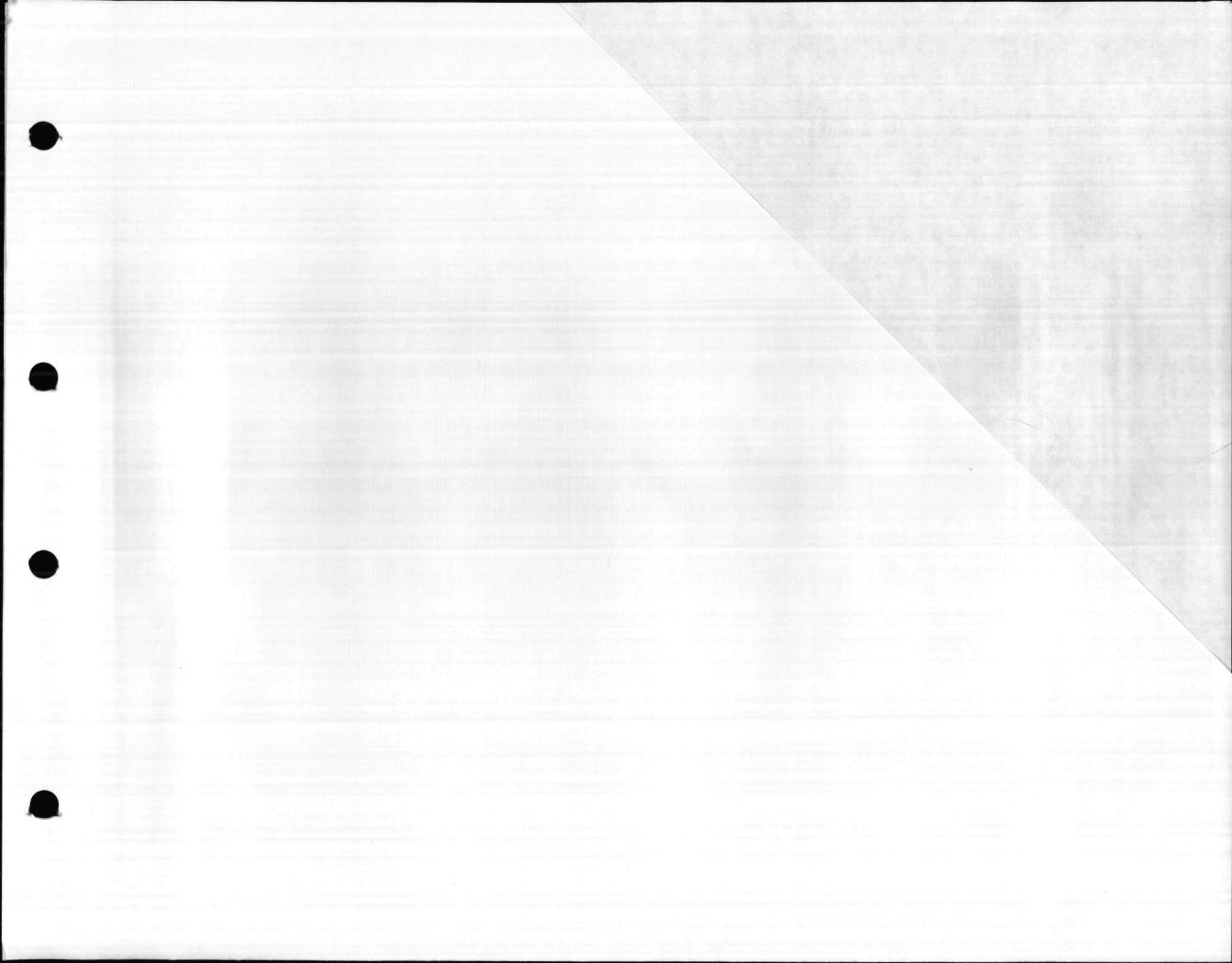
A LENSTH IN METERS

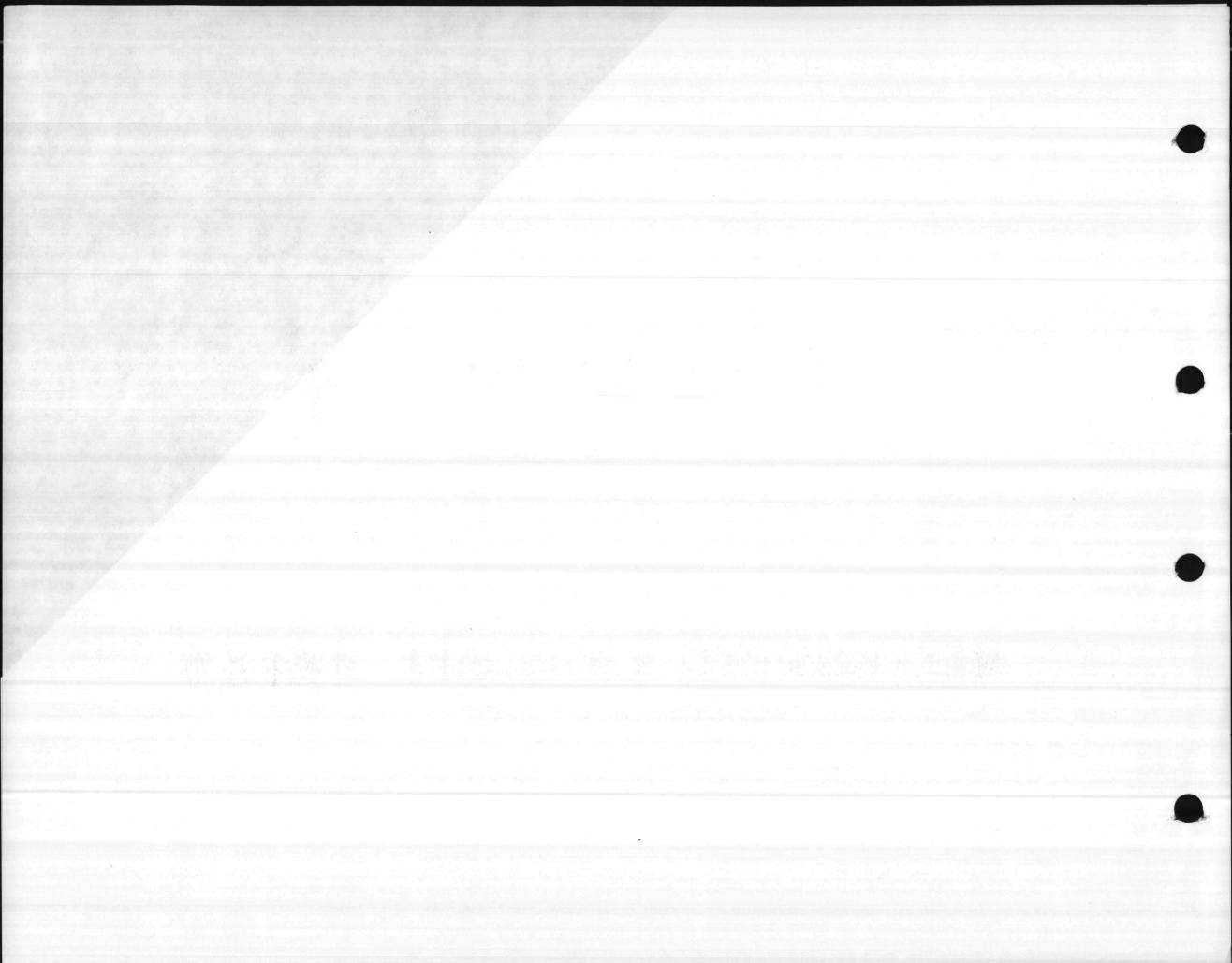
B WIDTH IN METERS

C P=PAVED U=UNPAVED



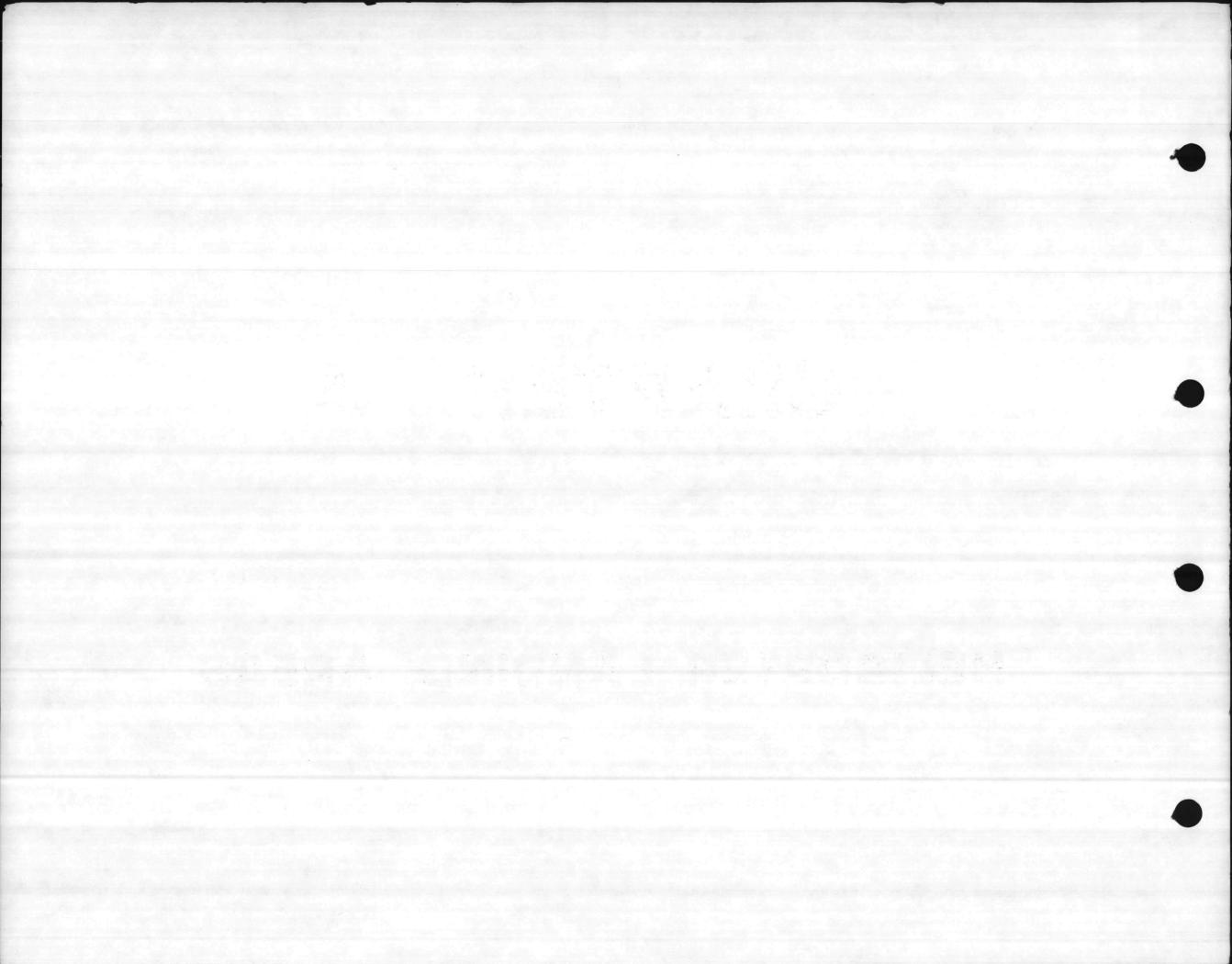






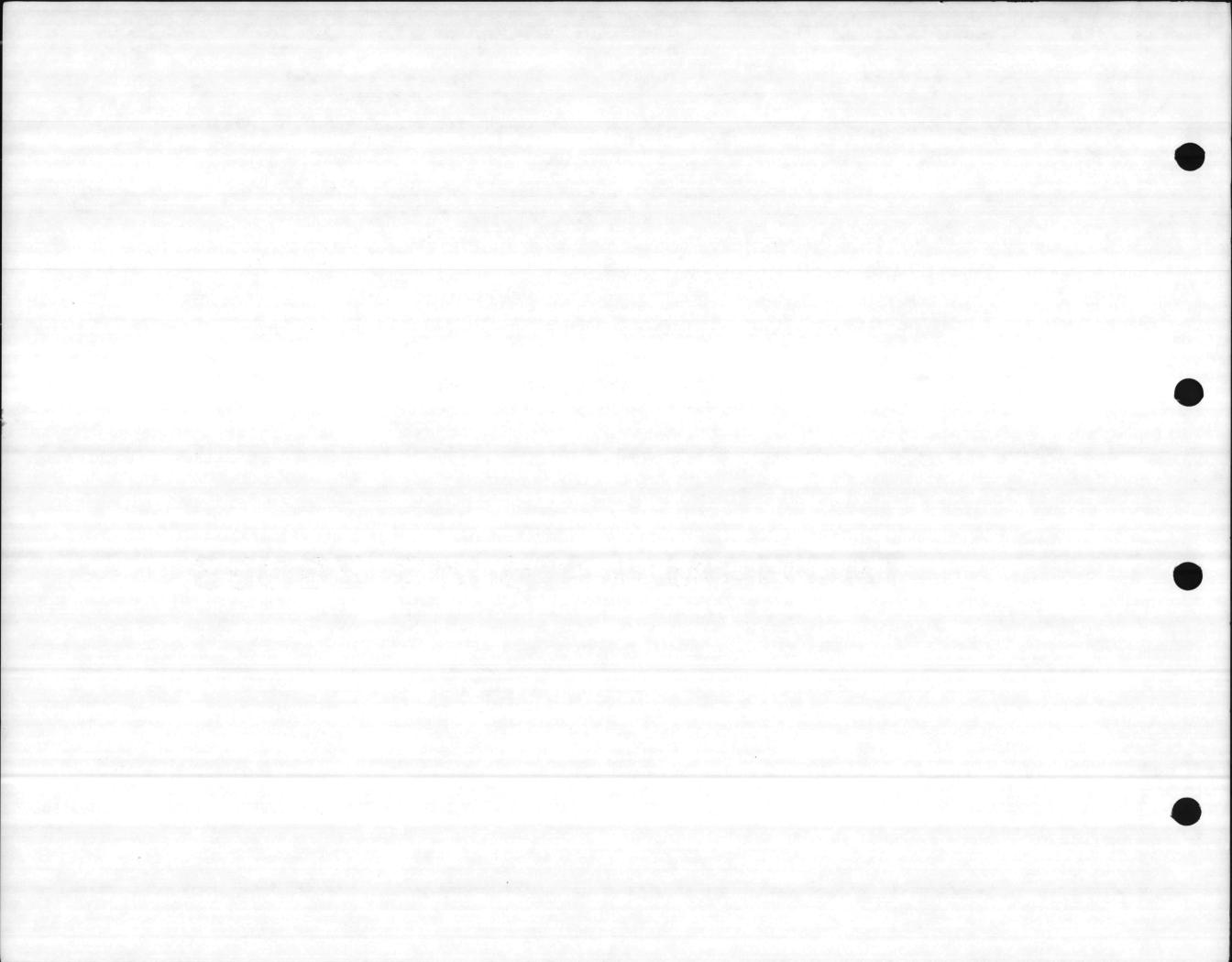
CHAPTER 4

HELICOPTER LANDING AREAS



SECTION 1

TACTICAL LANDING ZONES



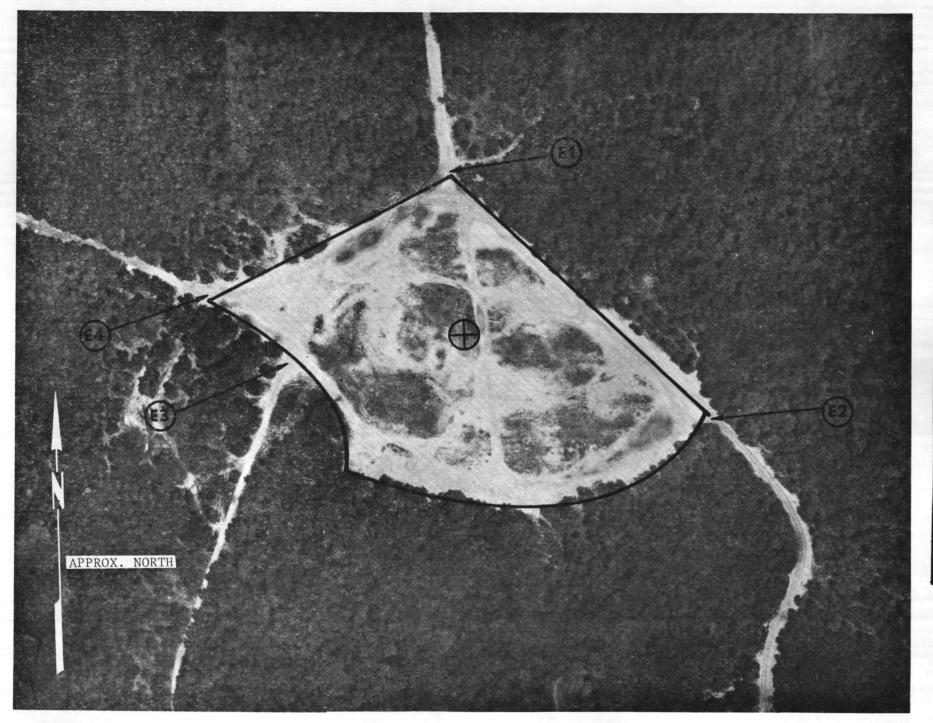
- 1. GENERAL. THE EXTENT TO WHICH THE MARINE CORPS DEPENDS ON HELICOPTER ASSAULT AND LIFT CAPABILITY IS INCREASING IN REACTION TO THE CHANGING NATURE OF THE POTENTIAL MISSIONS IN WHICH OUR FORCES MAY BE EMPLOYED. REGARDLESS OF EMPLOYMENT SCENARIO, THE ORGANIC CAPACITY TO RAPIDLY RELOCATE MARINES AND EQUIPMENT AND RESPOND TO A CHANGING OPERATIONAL SITUATION IS CRITICAL.

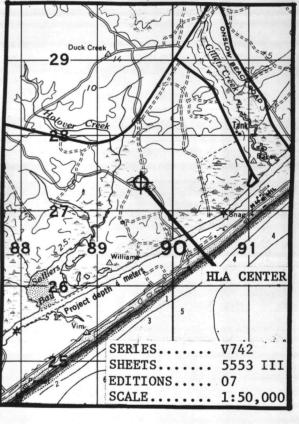
 OUR ROTARY-WING ASSETS SATISFY THIS NECESSITY. IN RECOGNITION OF THE IMPORTANCE OF HELICOPTERBORNE OPERATIONS, MCB, CAMP LEJEUNE MAINTAINS NUMEROUS TACTICAL AND ADMINISTRATIVE LANDING ZONES TO FACILITATE TRAINING, LOGISTICS AND PERSONNEL TRANSPORTATION REQUIREMENTS.
- 2. PURPOSE. THIS CHAPTER IS INTENDED PRIMARILY TO ASSIST UNIT COMMANDERS IN PLANNING HELICOPTER SUPPORTED TACTICAL TRAINING WITHIN CAMP LEJEUNE. IN ADDITION, THE INFORMATION PRESENTED IN THESE STUDIES SHOULD PROVIDE BOTH AIRCREW AND GROUND TROOPS WITH A DATA BASE FOR THE CONDUCT OF SAFE OPERATIONS.
- 3. SCOPE. INFORMATION CONTAINED HEREIN WAS DERIVED FROM CURRENT TOPOGRAPHIC MAPS, AERONAUTICAL CHARTS, AERIAL PHOTOGRAPHS AND GROUND LANDING SITE SURVEYS.

- 1) NAME: ALBATROSS
- 2) BE NO./TDI CATEGORY CODE: 0410LM0001/70610
- 3) CENTER COORDINATE/GEO: 343402N0771737W
- 4) CENTER COORDINATE/UTM: 18STP89592724
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 280 METERS BY 150 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 148.0 MAG/
- 20.5 KM
- 9) EXITS: El: DIRT ROAD EXTENDING N, INTERSECTING A TWO LANE HARD SURFACED ROAD, RT. NO.172.
 - E2: DIRT ROAD EXTENDING S TO INTRACOASTAL WATERWAY, DEAD END.
 - E3: DIRT TRACK EXTENDING S TO INTRACOASTAL WATERWAY IS A DEAD END.
 - E4: DIRT ROAD EXTENDING W TO DIRT ROAD/TRACK INTERSECTING TWO LANE
 - HARD SURFACED ROAD, RT. NO.172.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA I, SUBDIVISION IB.

 CROSS COUNTRY MOVEMENT OF VEHICLES IS RESTRICTED DUE TO DENSE TREES AND VEGETATION.

EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.





COUNTRY UNITED STATES	RECORD ID 0410LM0001	TDI CAT 70610
NAME ALBATROSS	LAT/LONG 3434	402N0771737W

- 1) NAME: BLUEBIRD
- 2) BE NO./TDI CATEGORY CODE: 0410LM0002/70610
- 3) CENTER COORDINATE/GEO: 343315N0771907W
- 4) CENTER COORDINATE/UTM: 18STP87252580
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 746 METERS BY 253 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 155.30 MAG/ 20.2 KM
- 9) EXITS: NUMEROUS DIRT ROADS EXTEND FROM LZ, INTERSECTING DIRT ROADS/TRACKS/ TRAILS EXTENDING IN NUMEROUS DIRECTIONS.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

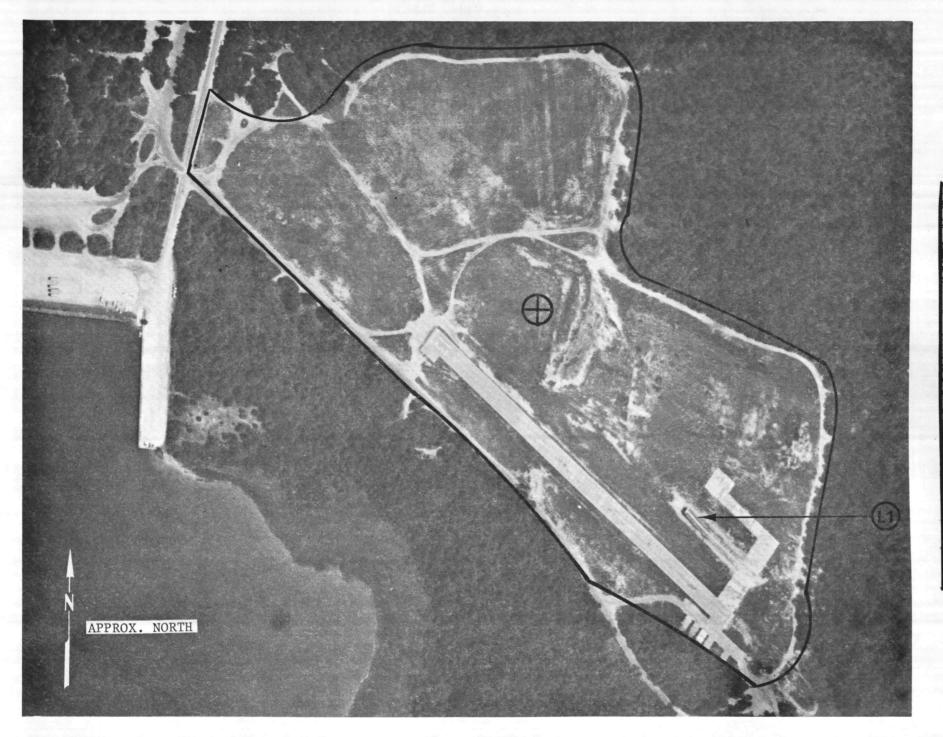
WHEELED: POOR FAIR

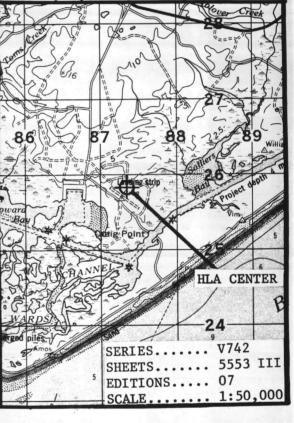
TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA I, SUBDIVISION
- ID. LZ HAS A RUNWAY PARALLELING IT'S SW BOUNDARY. CAUTION SHOULD BE OBSERVED

WHEN APPROACHING HARRIER RAMP LOCATED IN SE CORNER OF LZ. EXTERNAL LIFT

AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.





COUNTRY UNITED STATES	RECORD ID 0410LM0002	TDI CAT 70610
NAME BLUEBIRD	LAT/LONG	343315N0771907W

- 1) NAME: CANARY
- 2) BE NO./TDI CATEGORY CODE: 0410LM0003/70610
- 3) CENTER COORDINATE/GEO: 343438N0772036W
- 4) CENTER COORDINATE/UTM: 18STP85072842
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 280 METERS BY 250 METERS (AVERAGE)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 157.0 MAG/
- 16.9 KM
- 9) EXITS: El: DIRT ROAD EXTENDS E AND INTERSECTS WITH A DIRT ROAD.E2: DIRT ROAD EXTENDS S AND INTERSECTS WITH A DIRT ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

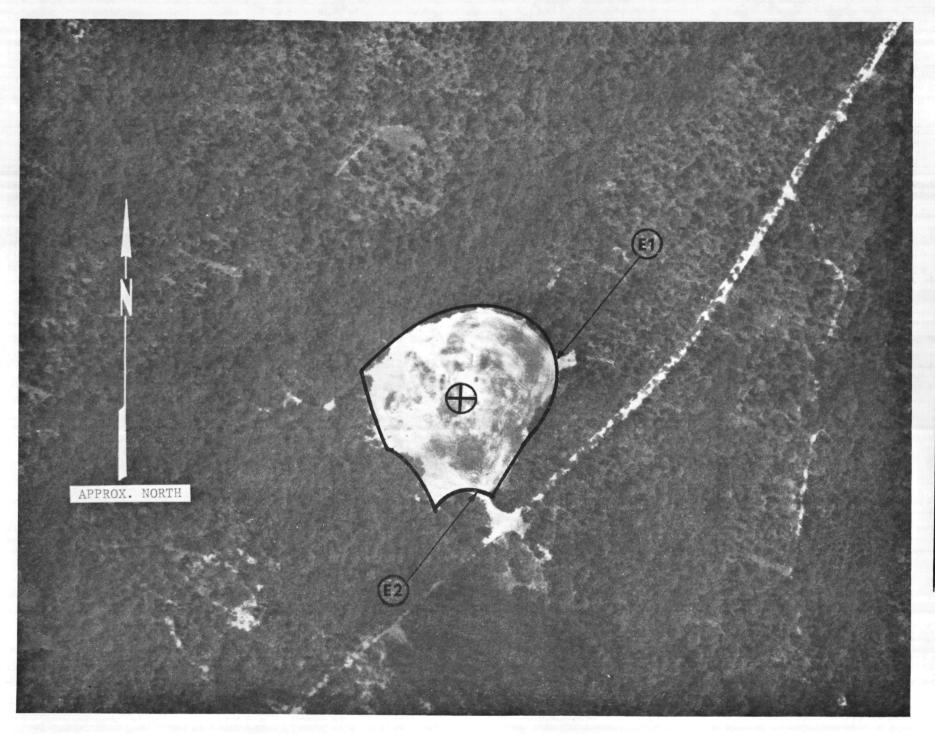
TROOPS: GOOD GOOD

WHEELED: POOR FAIR

TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA I, SUBDIVISION
- IF. MOVEMENT BY VEHICLES WILL BE HAMPERED TO THE NW BY DENSE VEGETATION.

EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.





COUNTRY	UNITED STATES	RECORD ID 0410LM0003	TDI CAT 70610
NAME CANA	ARY	LAT/LONG	343438N0772036W

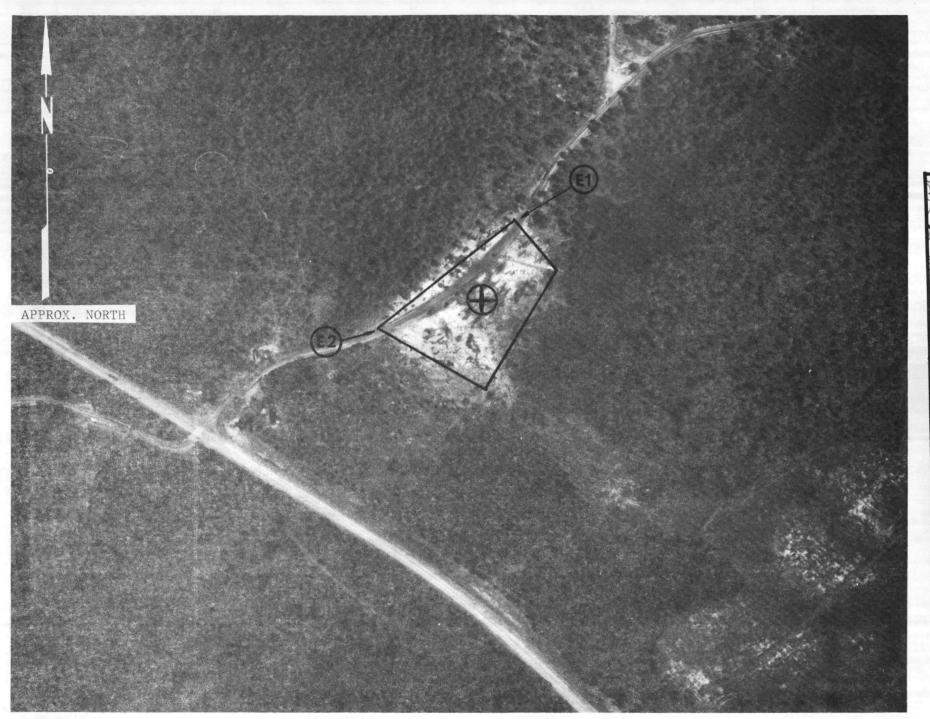
- 1) NAME: CARDINAL
- 2) BE NO./TDI CATEGORY CODE: 0410LM0004/70610
- 3) CENTER COORDINATE/GEO: 343901N0772506W
- 4) CENTER COORDINATE/UTM: 18STP78403670
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 120 METERS BY 75 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 170.5 MAG/
- 6.5 KM
- 9) EXITS: E1: DIRT ROAD EXTENDS NW TO Y JUNCTION WITH A DIRT TRAIL.

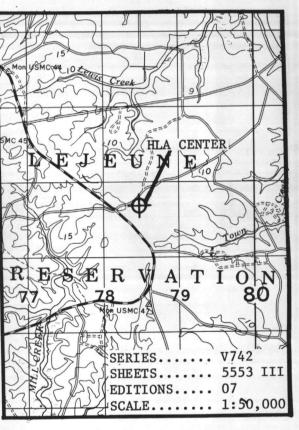
 E2: DIRT ROAD EXTENDS SW INTERSECTING A DIRT ROAD WITH TRACKED

 VEHICLE CROSSING.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: SCATTERED SCRUBS THROUGHOUT THE LZ.
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA K. EXTERNAL LIFT

AUTHORIZED, DIRT ROAD TRANSVERSES LZ.

DATE OF PHOTOGRAPHY: 04 AUG 84





COUNTRY UNITED STATES	RECORD ID 0410LM0004	TDI CAT 70610	
NAME CARDINAL	LAT/LONG	343901N0772506W	

- 1) NAME: CONDO
- 2) BE NO./TDI CATEGORY CODE: 0410LM0005/70610
- 3) CENTER COORDINATE/GEO: 343809N0772644W
- 4) CENTER COORDINATE/UTM: 18STP75833519
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 320 METERS BY 325 METERS (WIDEST POINTS)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 192.5 MAG/

7.7 KM

- 9) EXITS: E1: DIRT ROAD EXTENDING S TO VERONA LOOP ROAD.

 E2: DIRT ROAD EXTENDING N TO DIRT ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: SCATTERED SCRUBS THROUGHOUT THE LZ.
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

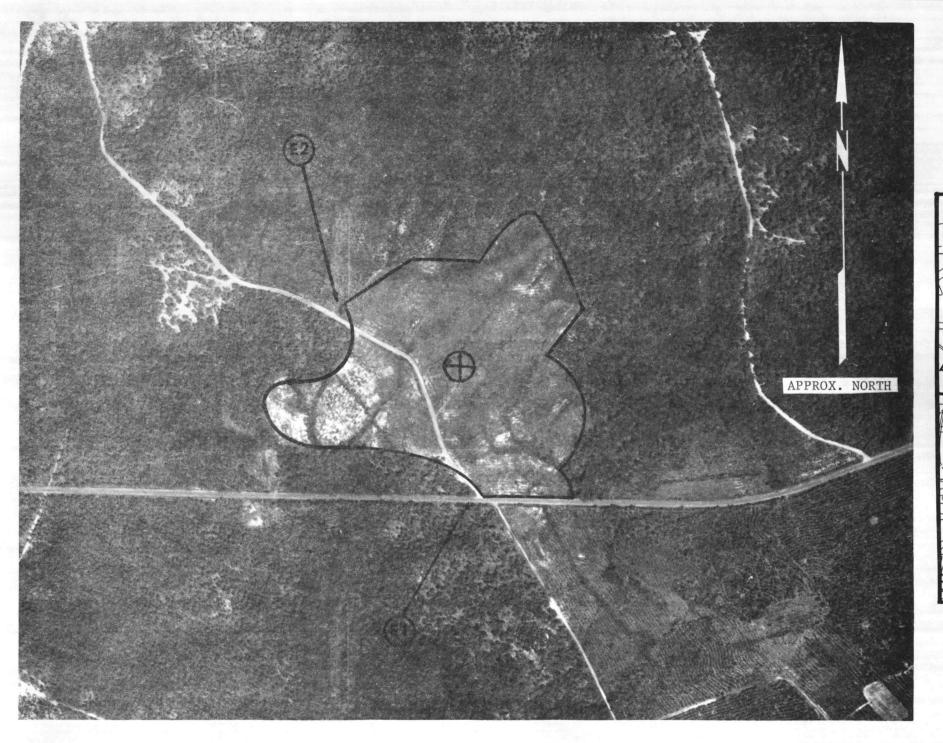
WHEELED: POOR FAIR

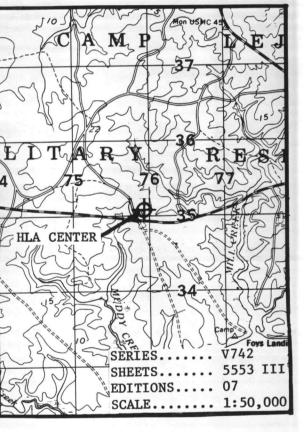
TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA M, SUBDIVISION
- MF. EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.

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DATE OF PHOTOGRAPHY: 04 AUG 84





COUNTRY	UNITED	STATES	RECORD ID 0	410LM0005	TDI CAT_7	0610
NAME CON	DOR	, partygal og etter te		LAT/LONG	343809N0772644W	

- 1) NAME: CROW
- 2) BE NO./TDI CATEGORY CODE: 0410LM0006/70610
- 3) CENTER COORDINATE/GEO: 343650N0771649W
- 4) CENTER COORDINATE/UTM: 18STP90963238
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 220 METERS BY 150 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 135.0 MAG/

17.9 KM

- 9) EXITS: CROSS-COUNTRY EXITS ON SOUTHERN SIDE OF LZ.
 - El: DIRT TRACK EXTENDING NNW TO SNEADS FERRY ROAD.
 - E2: DIRT TRACK EXTENDING SW INTERSECTING WITH A DIRT ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: CEMENT SLAB.

L2: SMALL BUILDING.

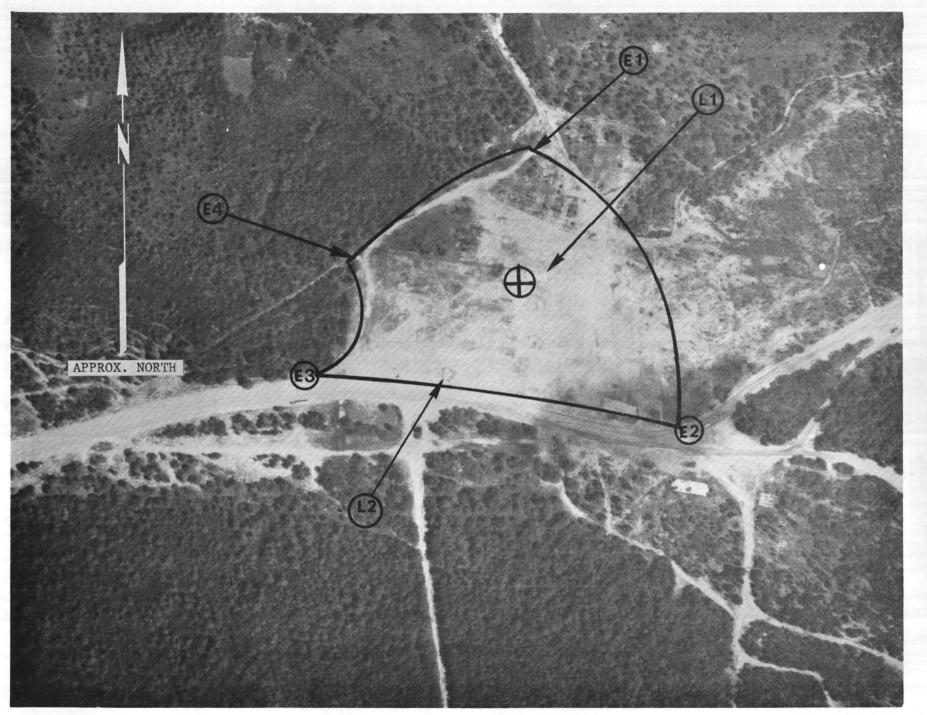
- 12) SURFACE MATERIAL: FINE SAND.
- 13) TRAFFICABILITY: DRY WET

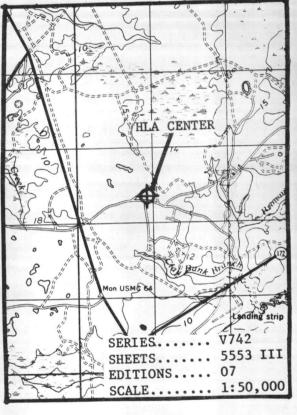
TROOPS: GOOD GOOD

WHEELED: POOR FAIR

TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA G, SUBDIVISION
- GF. LZ APPROXIMATELY 200 METERS E OF G-2 FIRING RANGE. EXTERNAL LIFT AUTHORIZED.





COUNTRY	UNITED STATES	RECORD ID 04	10LM0006	TDI CAT 70610	
NAME C	ROW		LAT/LONG 34	3650N0771649W	

- 1) NAME: DODO
- 2) BE NO./TDI CATEGORY CODE: 0410LM0007/70610
- 3) CENTER COORDINATE/GEO: 343556N0771815W
- 4) CENTER COORDINATE/UTM: 18STP88713079
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 150 METERS BY 240 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 140.5 MAG/

17.2 KM

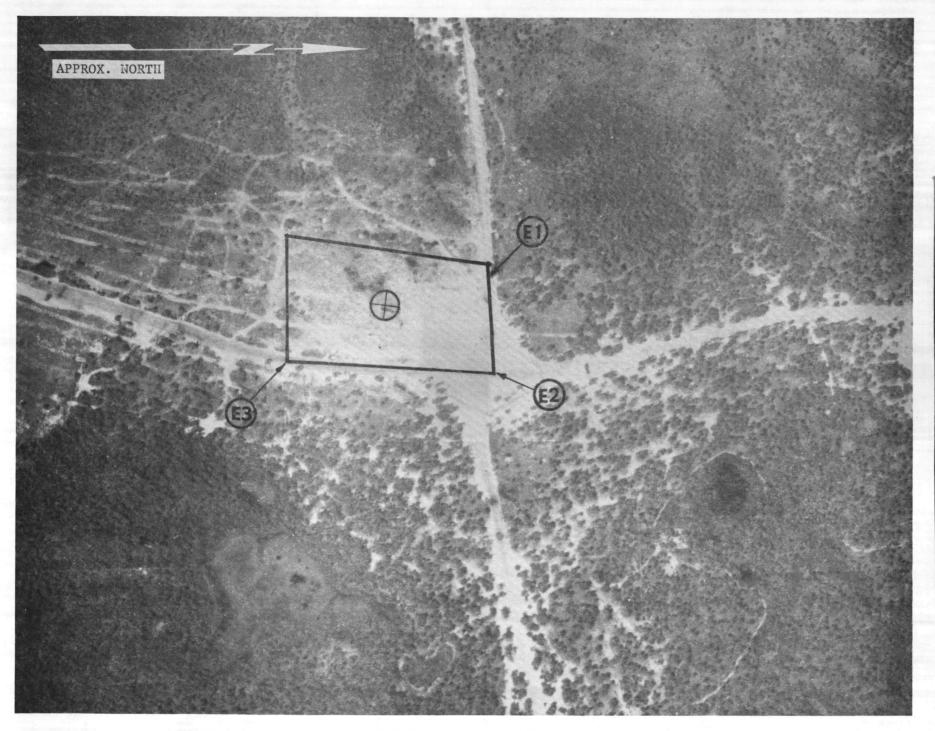
- 9) EXITS: El: DIRT ROAD EXTENDS W INTERSECTING WITH A DIRT ROAD.
 - E2: DIRT ROAD EXTENDS N INTERSECTING WITH A DIRT ROAD.
 - E3: DIRT ROAD EXTENDS E INTERSECTING WITH A TWO LANE HARD-SURFACED

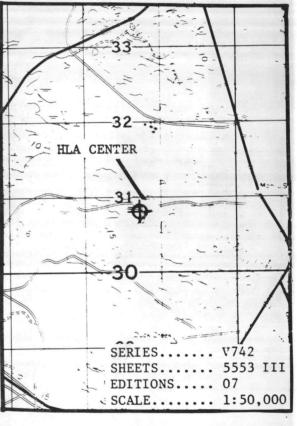
ROAD.

E4: DIRT ROAD EXTENDS S INTERSECTING WITH A TWO LANE HARD-SURFACED

ROAD.

- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: SMALL BUSHES AND SCRUBS THROUGHOUT LZ.
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA H, SUBDIVISION
- HB. EXTERNAL LIFT AUTHORIZED.





COUNT	RY	UNITED	STATES	RECORD ID 04	10LM0007	TDI CAT	70610
NAME	DODO	to the second			LAT/LONG	343556N0771815W	

- 1) NAME: DOVE
- 2) BE NO./TDI CATEGORY CODE: 0410LM0008/70610
- 3) CENTER COORDINATE/GEO: 343553N0772007W
- 4) CENTER COORDINATE/UTM: 18STP85883072
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 120 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 149.5 MAG/

15.3 KM

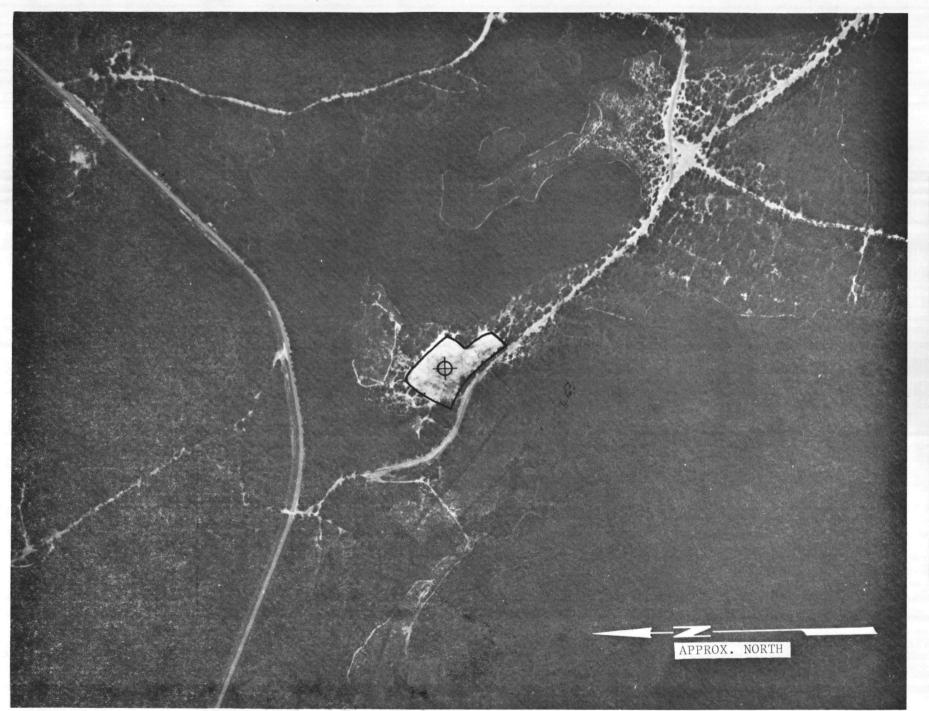
- 9) EXITS: CROSS COUNTRY TRAILS LOCATED AROUND ENTIRE PERIMETER OF LZ.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND.
- 13) TRAFFICABILITY: DRY WET

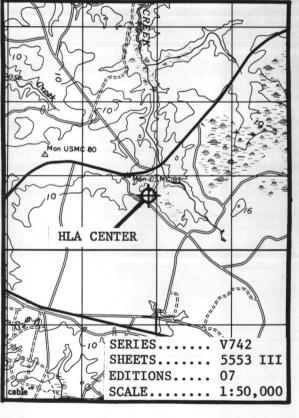
TROOPS: GOOD GOOD

WHEELED: POOR FAIR

TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA H, SUBDIVISION
- HB. EXTERNAL LIFT AUTHORIZED. LZ NOT RECOMENDED DUE TO LOOSE SAND.





COUNTRY UNITED STATES RECORD ID 0410LM0008 TDI CAT 70610

NAME DOVE

LAT/LONG 343553N0772007W

- 1) NAME: EAGLE
- 2) BE NO./TDI CATEGORY CODE: 0410LM0009/70610
- 3) CENTER COORDINATE/GEO: 344117N0772506W
- 4) CENTER COORDINATE/UTM: 18STP78484093
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 400 METERS BY 150 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 141.5 MAG/
- 2.8 KM
- 9) EXITS: El: DIRT ROAD EXTENDING N INTERSECTING WITH DIRT ROADS, TRAILS AND TRACKS.
 - E2: DIRT ROAD EXTENDS SW TO VERONA LOOP ROAD.
 - E3: DIRT ROAD EXTENDS W TO A FIELD.
 - E4: DIRT ROAD EXTENDS N INTERSECTING WITH DIRT ROADS, TRAILS AND

TRACKS.

- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: SCRUBS LOCATED IN ENE CORNER OF LZ.

L2: SCRUBS LOCATED IN WSW CORNER OF LZ.

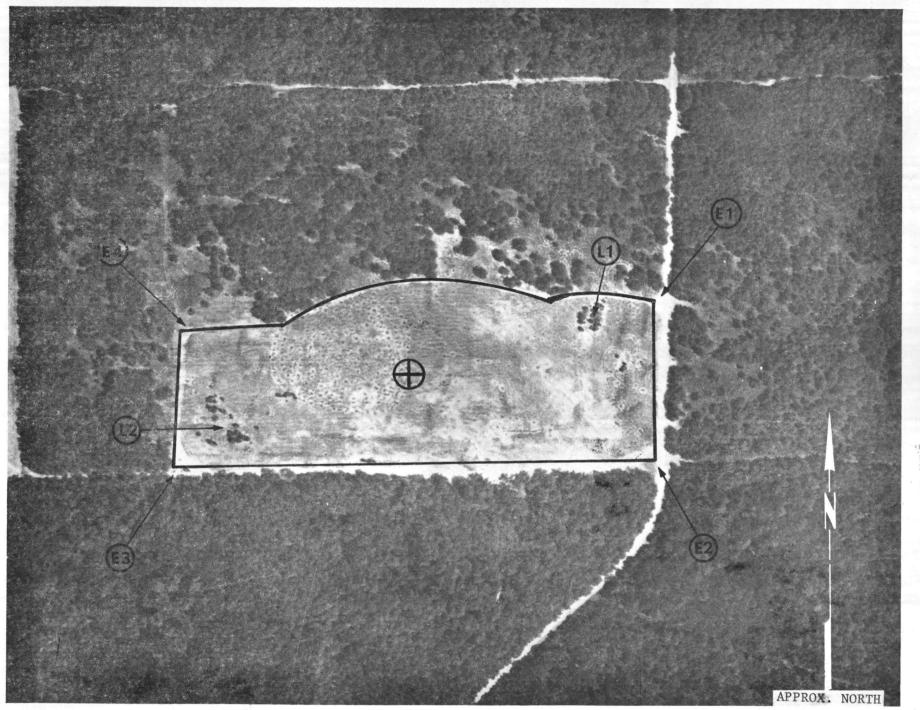
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS AND SCRUBS.
- 13) TRAFFICABILITY: DRY WET

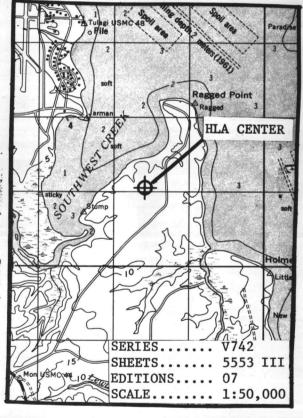
TROOPS: GOOD GOOD

WHEELED: POOR GOOD

TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA M, SUBDIVISION
- MC. EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.





COUNTRY	UNITED S	STATES	RECORD ID	0410LM0009		TDI CAT 70610	
NAME EAGL	E			LAT/LONG	344117N	0772506W	

- 1) NAME: FALCON (WOODCHUCK)
- 2) BE NO./TDI CATEGORY CODE: 0410LM0010/70610
- 3) CENTER COORDINATE/GEO: 343451N0771636W
- 4) CENTER COORDINATE/UTM: 18STP91202870
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 330 METERS BY 275 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 141.5 MAG/
- 20.4 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED AROUND ENTIRE PERIMETER OF LZ.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS AND SCRUBS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

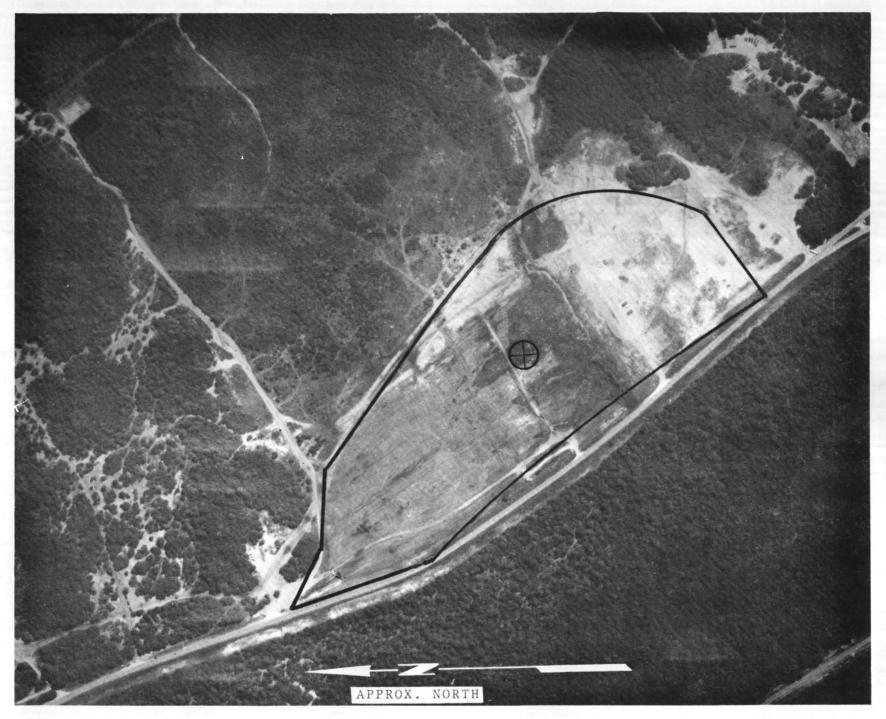
WHEELED: POOR FAIR

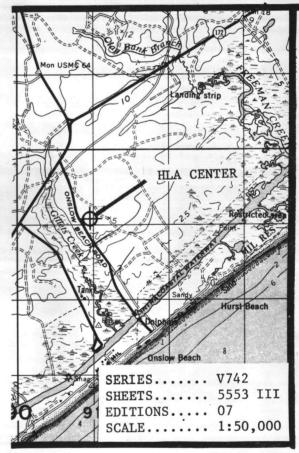
TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA G, SUBDIVISION
- GG. EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.

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DATE OF PHOTOGRAPHY: 04 AUG 84





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727.7.2	- 1
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COUNTRY	UNITED	STATES	RECORD ID 0410LM0011	TDI CAT 70610
NAME		(WOODCHUCK)	LAT/LONG	343445N0771710W

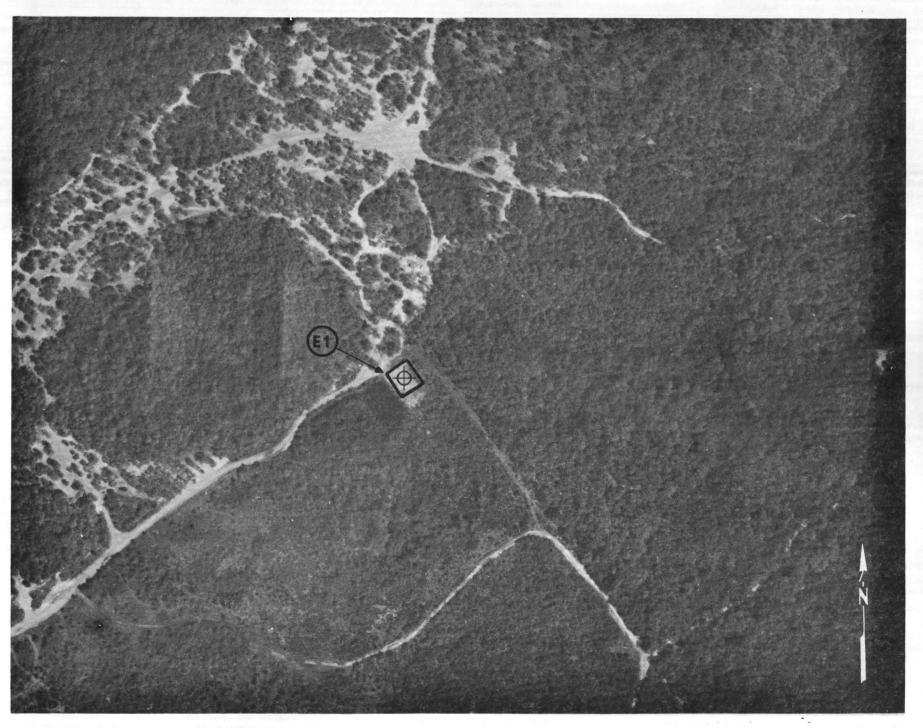
- 1) NAME: GANDER
- 2) BE NO./TDI CATEGORY CODE: 0410LM0011/70610
- 3) CENTER COORDINATE/GEO: 343527N0771635W
- 4) CENTER COORDINATE/UTM: 91332984
- 5) SHAPE: SQUARE
- 6) DIMENSIONS: 100 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 139.5 MAG/
- 19.8 KM
- 9) EXITS: E1: DIRT ROAD N EXTENDS TO CROSS-COUNTRY TRAILS
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIALS: SAND WITH STEEL MATTING.
- 13) TRAFFICABILITY: DRY WET

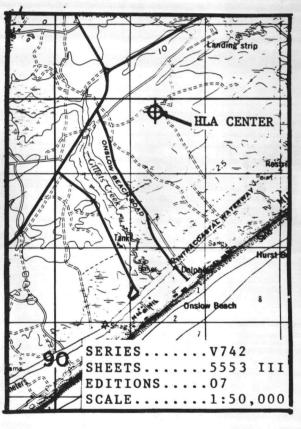
TROOPS: GOOD GOOD

WHEELED: GOOD GOOD

TRACKED: GOOD GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA G, SUBDIVISION
- GG. EXTERNAL LIFT NOT AUTHORIZED. CAUTION SHOULD BE USED ON APPROACH TO LZ DUE
- TO TREES SURROUNDING LZ, ALSO DURING LANDING DUE TO SCHRUBS WITHIN LZ PERIMETER.





COUNTRY UNITED STATES	RECORD ID 0410LM0011	TDI CAT 70610
NAME GANDER	LAT/LONG 343	3511N0771648W

- 1) NAME: GOOSE
- 2) BE NO./TDI CATEGORY CODE: 0410LM0012/70610
- 3) CENTER COORDINATE/GEO: 343558N0771608W
- 4) CENTER COORDINATE/UTM: 18STP91963075
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 120 METERS BY 260 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 2 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 136.5 MAG/
- 19.6 KM
- 9) EXITS: CROSS-COUNTRY DIRT ROADS N, E AND W INTERSECT WITH RT. 172.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: SANDY SOIL WITH SPARSE GRASS AND SCATTERED SCRUBS.
- 13) TRAFFICABILITY: DRY WET

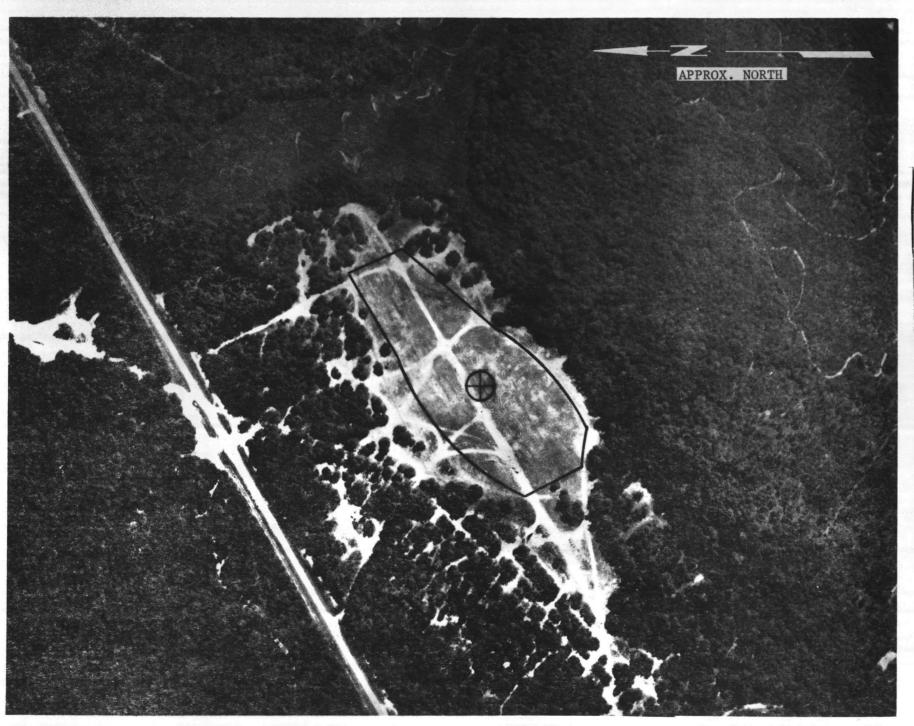
TROOPS: GOOD GOOD

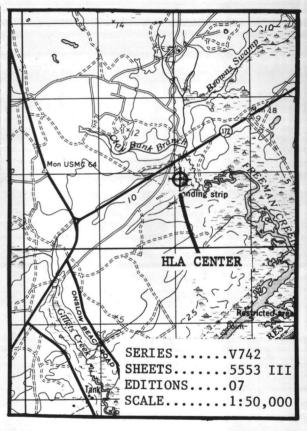
WHEELED: GOOD FAIR

TRACKED: GOOD GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA G, SUBDIVISION
- GG. EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE. TREES TO

THE SOUTH WILL HAMPER MOVEMENT.





COUNTRY UNITED STATES	RECORD ID 0410LM0012	TDI CAT 70610	
NAME GOOSE	LAT/LONG	343558N0771608W	

- 1) NAME: HAWK
- 2) BE NO./TDI CATEGORY CODE: 0410LM0013/70610
- 3) CENTER COORDINATE/GEO: 343630N0771741W
- 4) CENTER COORDINATE/UTM: 18STP89613179
- 5) SHAPE: TRIANGULAR
- 6) DIMENSIONS: 125 METERS BY 280 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 138.0 MAG/
- 9) EXITS: El: DIRT ROAD EXTENDING E INTERSECTING WITH A TWO LANE HARD-SURFACE ROAD.
 - E2: DIRT ROAD EXTENDING S TO TRACKS AND TRAILS.
 - E3: DIRT ROAD EXTENDING W INTERSECTING WITH A DIRT ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: SCATTERED SCRUBS THROUGHOUT THE LZ.
- 12) SURFACE MATERIAL: FINE SAND WITH SCATTERED SCRUBS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

WHEELED: POOR FAIR

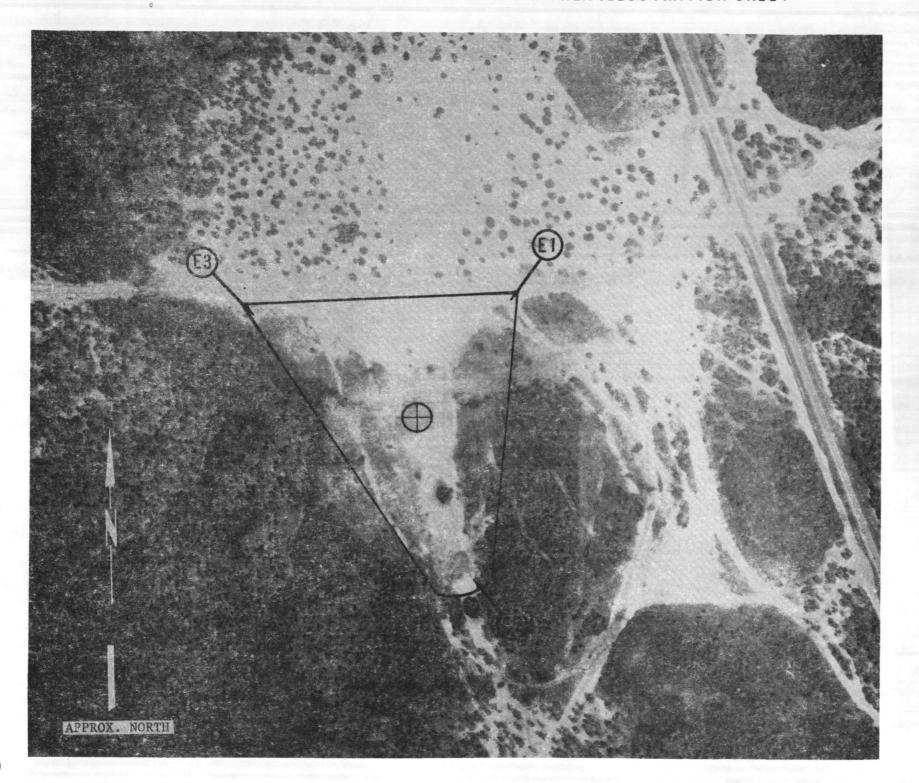
TRACKED: FAIR GOOD

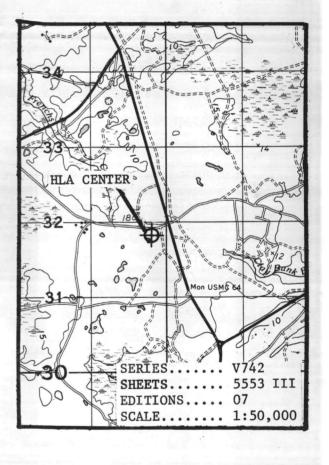
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA H, SUBDIVISION
- HE. EXTERNAL LIFT AUTHORIZED. THIS AREA IS CURRENTLY BEING USED AS LZ HAWK

VICE THE ACTUAL LOCATION WHICH IS LOCATED APPROXIMATELY 200 METERS NORTH.

HLA ILLUSTRATION SHEET

DATE OF PHOTOGRAPHY: 04 AUG 84





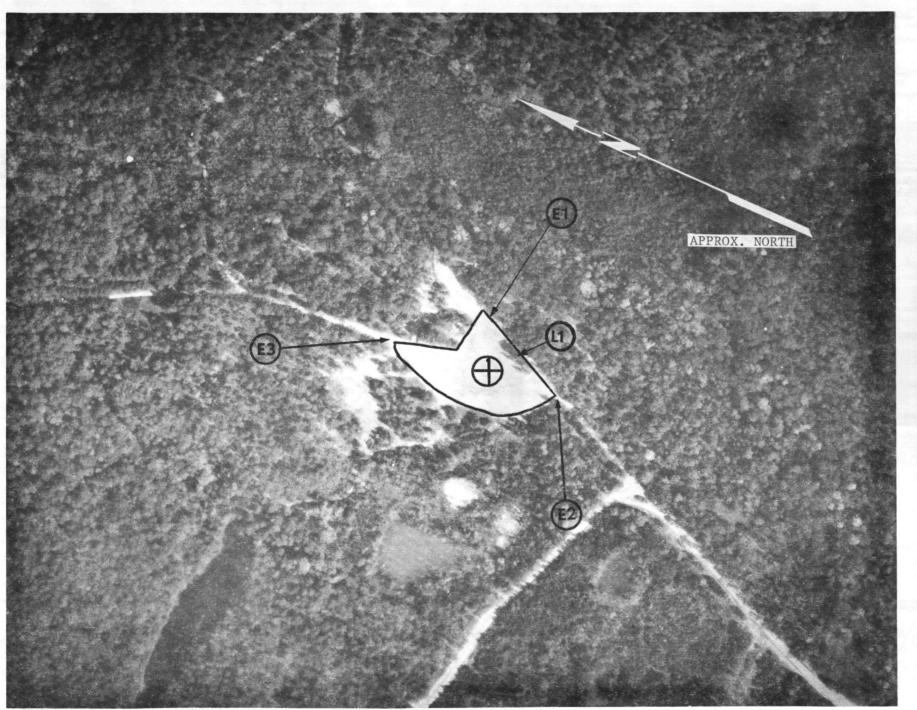
COUNTRY UNITED STATES RECORD ID 0410LM0013 TDI CAT 70610

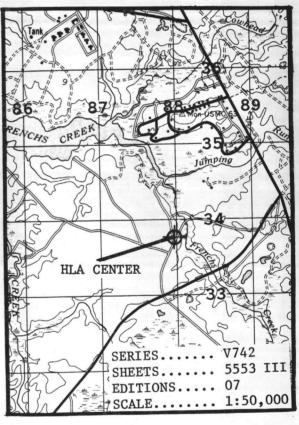
NAME HAWK LAT/LONG 343630N0771741W

- 1) NAME: JAYBIRD
- 2) BE NO./TDI CATEGORY CODE: 0410LM0014/70610
- 3) CENTER COORDINATE/GEO: 343732N0771849W
- 4) CENTER COORDINATE/UTM: 18STP87923374
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 70 METERS BY 120 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 136.5 MAG/

14.7 KM

- 9) EXITS: E1: DIRT ROAD EXTENDS NE TO MARINES RD.
 - E2: DIRT ROAD EXTENDS S TO MARINES RD.
 - E3: DIRT ROAD EXTENDS N TO FRENCHS CREEK.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: TREES
- 12) SURFACE MATERIAL: COARSE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
- WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA H, SUBDIVISION
- HD. EXTERNAL LIFT AUTHORIZED.





COUNTR	Y UNITED	STATES	RECORD ID 04	10LM0014	TDI CAT 70610	
NAME	JAYBIRD			LAT/LONG 343	732N0771849W	

- 1) NAME: LARK
- 2) BE NO./TDI CATEGORY CODE: 0410LM0015/70610
- 3) CENTER COORDINATE/GEO: 344014N0771432W
- 4) CENTER COORDINATE/UTM: 18STP94803860
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 600 METERS BY 190 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 110.5 MAG/

19.8 KM

9) EXITS: E1: DIRT ROAD EXTENDS E TO RT. 172.

E2: DIRT ROAD EXTENDS SW TO LYMAN RD.

E3: DIRT ROAD EXTENDS NW TO HWY 24, E TO RT 172 AND W TO

TRAINING AREA F.

- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: COARSE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS:

GOOD GOOD

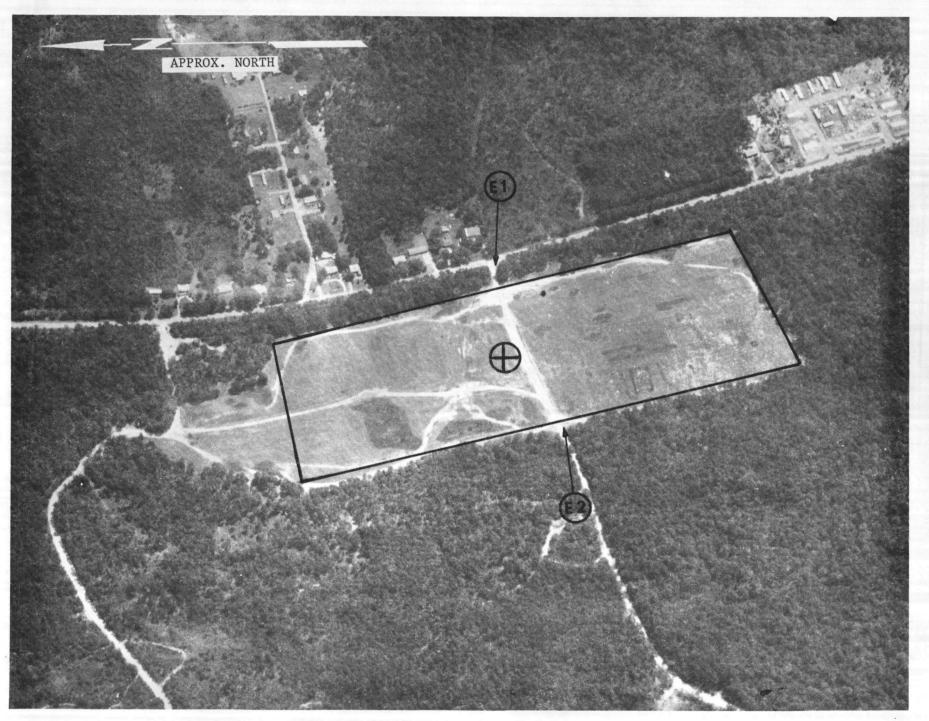
WHEELED:

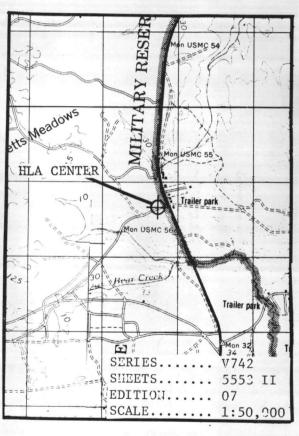
POOR FAIR

TRACKED:

FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA Q, SUBDIVISION
- QA. EXTERNAL LIFT AUTHORIZED.





COUNTRY UNITED STATES	RECORD ID 0410LM0015	TDI CAT 70610
NAME LARK	LAT/LONG 344	TO IT DISC TRACTIVE SYSTEM OF MINISTERS AND ADMINISTRAL

- 1) NAME: OWL
- 2) BE NO./TDI CATEGORY CODE: 0410LM0016/70610
- 3) CENTER COORDINATE/GEO: 343433N0772619W
- 4) CENTER COORDINATE/UTM: 18STP76212859
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 100 METERS BY 190 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- S) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 188.5 MAG/
- 15 KM
- 9) EXITS: E1: DIRT ROAD EXTENDS N TO THE NEW RIVER.

E2: DIRT ROAD EXTENDS SE TO INTERSECTION OF THE NEW RIVER AND

EVERETT CREEK INLET.

E3: DIRT ROAD EXTENDS W TO RT. 210.

- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

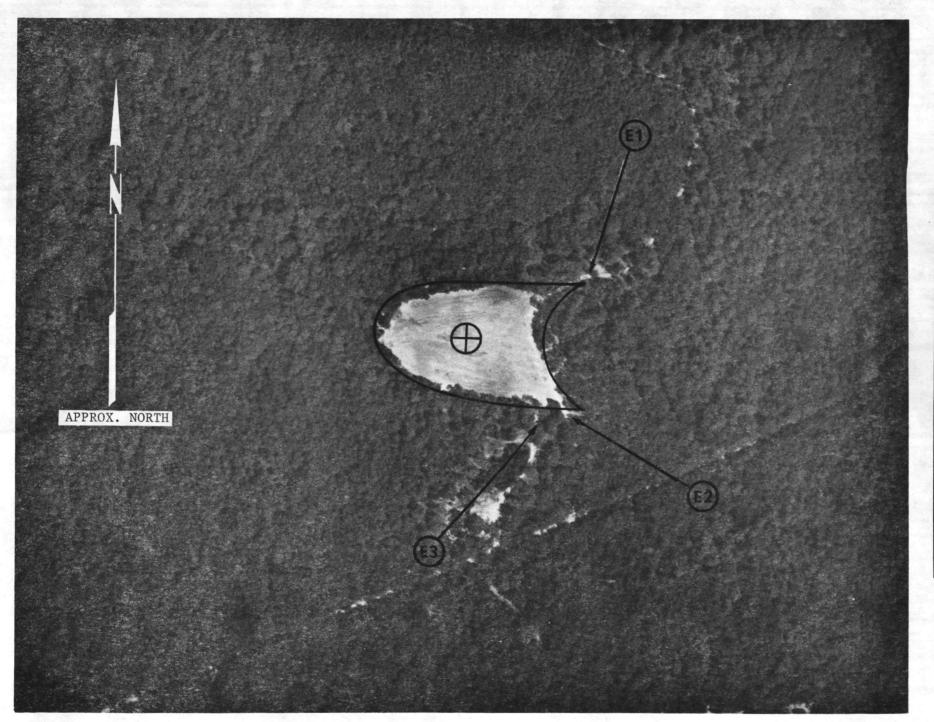
TROOPS: GOOD GOOD

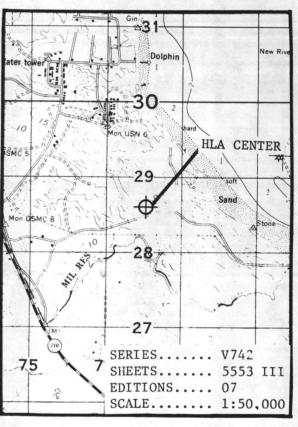
WHEELED: POOR FAIR

TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA L, SUBDIVISION
- LC. EXTERNAL LIFT AUTHORIZED. DENSE TREES AND SCRUBS SURROUND THE LZ.

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COUNTRY UNITED STATES	RECORD ID 0410LM0016	TDI CAT 70610
NAME OWL	LAT/LONG	343433N0772619W

- 1) NAME: PARROT
- 2) BE NO./TDI CATEGORY CODE: 0410LM0017/70610
- 3) CENTER COORDINATE/GEO: 344003N0772619W
- 4) CENTER COORDINATE/UTM: 18STP77613871
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 150 METERS BY 75 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 186.5 MAG/
- 4.1 KM
- 9) EXITS: CROSS-COUNTRY EXITS ALONG ENTIRE PERIMETER OF LANDING ZONE.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

WHEELED: POOR FAIR

TRACKED: FAIR GOOD

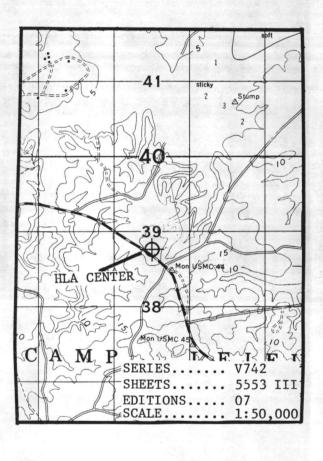
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA M, SUBDIVISION
- MB. NE PORTION OF LZ CONSIST OF SWAMPY TERRAIN IN WHICH VEHICLE AND TROOP

MOVEMENTS WILL BE HAMPERED. EXTERNAL LIFT AUTHORIZED. TELEPHONE LINES

PARALLEL EAST PERIMETER OF LANDING ZONE.

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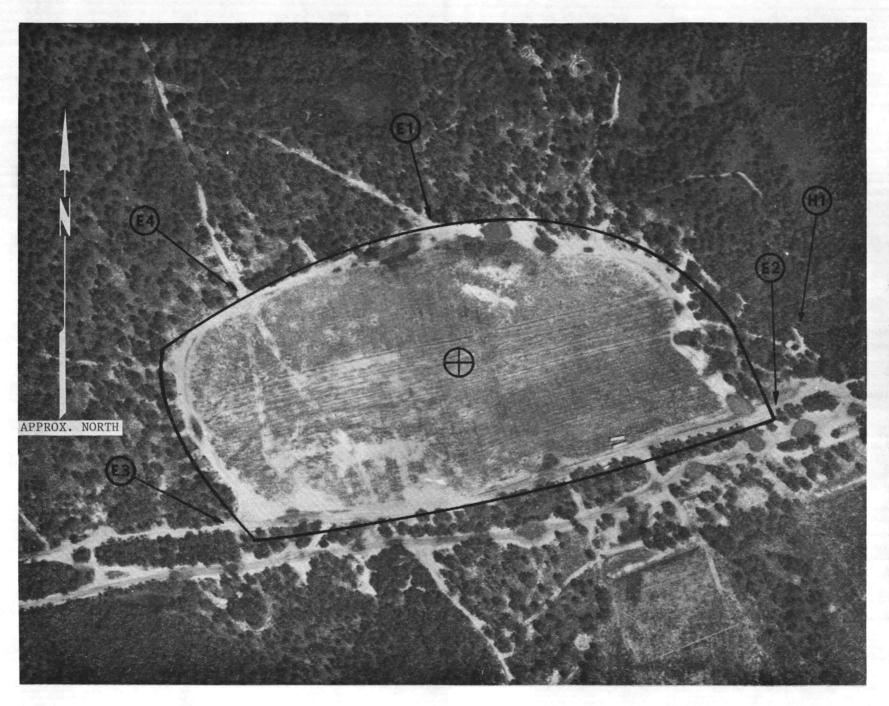
COUNTRY	, UNITED STATES	RECORD ID 0410LM0017	TDI CAT 70610
NAME	PARROT	LAT/LONG	344003N0772619W

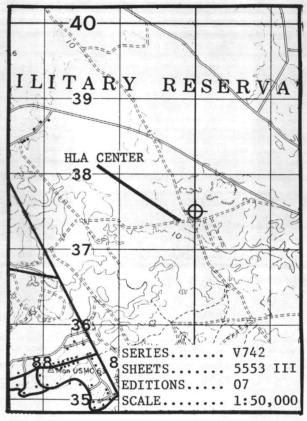
- 1) NAME: PENGUIN
- 2) BE NO./TDI CATEGORY CODE: 0410LM0018/70610
- 3) CENTER COORDINATE/GEO: 343935N0771729W
- 4) CENTER COORDINATE/UTM: 18STP90003750
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 430 METERS BY 230 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 119.0 MAG/

14.6 KM

- 9) EXITS: CROSS-COUNTRY EXITS LOCATED ALONG ROAD S SIDE OF LZ.
 - E1: DIRT TRACK EXTENDS NW INTERSECTING WITH A DIRT ROAD.
 - E2: DIRT ROAD EXTENDS E CONNECTING TO LEYMAN ROAD.
 - E3: DIRT ROAD EXTENDS W INTERSECTING WITH A DIRT ROAD.
 - E4: DIRT ROAD EXTENDS N CONNECTING TO LEYMAN ROAD.
- 10) FLIGHT HAZARDS: H1: FIRETOWER.
- 11) LANDING HAZARDS: SMALL PONDS LOCATED ALONG N AND E PERIMETER OF LZ.
- 12) SURFACE MATERIAL: COARSE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA F, SUBDIVISION
- FD. EXTERNAL LIFT AUTHORIZED. ALSO USED AS A PARACHUTE DROP ZONE.

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COUNTRY UNITED STATES	RECORD ID 0410LM0018	TDI CAT 70610	
NAME PENGUIN	LAT/LONG 3439	935N0771729W	

- 1) NAME: ROBIN
- 2) BE NO./TDI CATEGORY CODE: 0410LM0019/70610
- 3) CENTER COORDINATE/GEO: 344230N0771416W
- 4) CENTER COORDINATE/UTM: 18STP95054278
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 150 METERS BY 250 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 98.5 MAG/
- 19.6 KM
- 9) EXITS: E1: DIRT ROAD EXTENDS SE TO RT. 172 AND NW TO HWY 24.

E2: DIRT ROAD EXTENDS E TO INTERSECTION OF HWY 24 AND DIRT ROAD.

E3: DIRT TRACK EXTENDS SW TO DEAD END.

- 10) FLIGHT HAZARDS: H1: WATER TOWER.
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: SANDY SOIL WITH GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

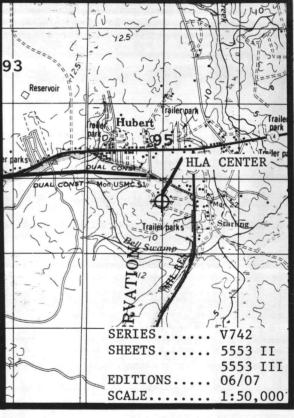
WHEELED: FAIR FAIR

TRACKED: GOOD GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA Q, SUBDIVISION
- QA. EXTERNAL LIFT AUTHORIZED.

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COUNT	RY UNITED ST	TATES	RECORD ID 0410LM0019	TDI CAT 70610
NAME	ROBIN		LAT/LONG	344230N0771416W

- 1) NAME: SPARROW
- 2) BE NO./TDI CATEGORY CODE: 0410LM0020/70610
- 3) CENTER COORDINATE/GEO: 344008N0772036W
- 4) CENTER COORDINATE/UTM: 18STP85313987
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 150 METERS BY 200 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 116.5 MAG/
- 9.4 KM
- 9) EXITS: E1: TRAIL EXTENDS SE TO A DIRT ROAD.

E2: DIRT ROAD EXTENDS E TO HOLCOMB BLVD.

E3: DIRT ROAD EXTENDS NW TO SMALL U/I BUILT UP AREA.

E4: TRAIL EXTENDS NW TO SMALL U/I BUILT UP AREA.

- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

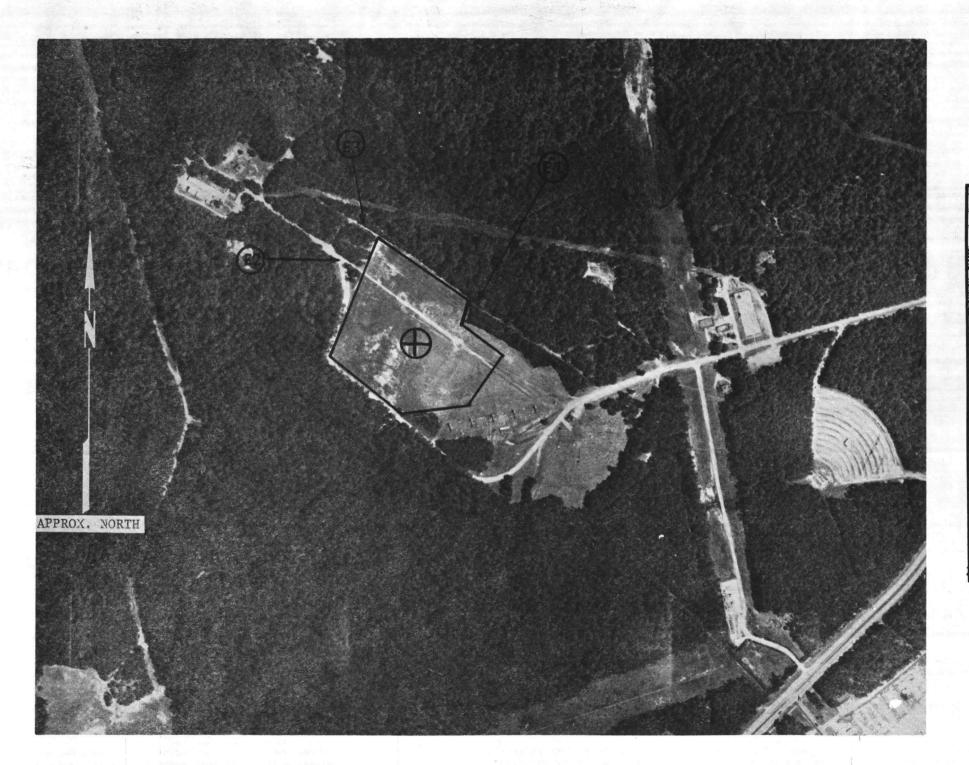
TROOPS: GOOD GOOD

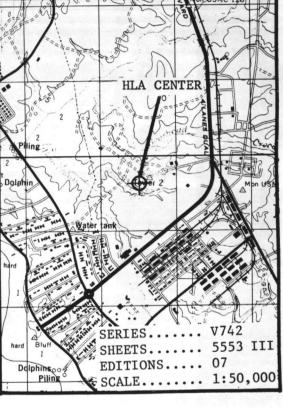
WHEELED: POOR FAIR

TRACKED: FAIR GOOD

- 14) REMARKS: TACTICAL LANDING ZONE. LOCATED IN TRAINING AREA D, SUBDIVISION
- DB. PRIOR TO USING LZ, RANGE CONTROL DUTY OFFICER SHOULD BE CONTACTED AT EXT.

3064. EXTERNAL LIFT AUTHORIZED.





COUNTRY UNITED STATES	RECORD ID 0410LM0020	TDI CAT 70610
NAME SPARROW	LAT/LONG	344008N0772036W



SECTION 2

ADMINISTRATIVE LANDING ZONES

- 1) NAME: MONTFORD PT NO. 1A (TEMPORARY)
- 2) BE NO./TDI CATEGORY CODE: 0410LM0021/70610
- 3) CENTER COORDINATE/GEO: 344344N0772424W
- 4) CENTER COORDINATE/UTM: 18STP79654541
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 175 METERS BY 175 METERS (AVERAGE DIMENSIONS THROUGH CENTER)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 060.0 MAG/
- 4.2 KM
- 9) EXITS: CROSS-COUNTRY EXITS AROUND ENTIRE PERIMETER OF LANDING ZONE.

 El: TWO LANE HARD SURFACED ROAD EXTENDS NORTH.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: BACKSTOP.

L2: BACKSTOP.

L3: BACKSTOP.

- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

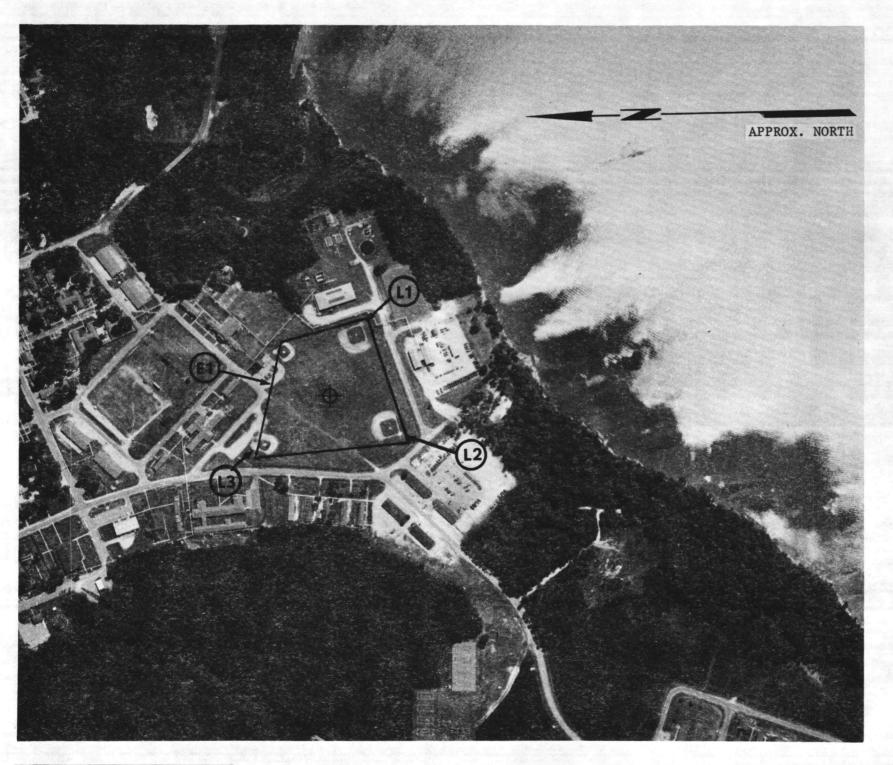
WHEELED: GOOD GOOD

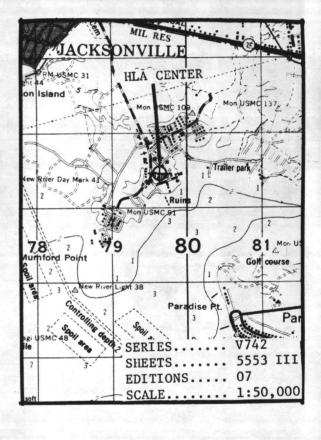
TRACKED: GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA A, SUB-

DIVISION AD. EXTERNAL LIFT NOT AUTHORIZED.

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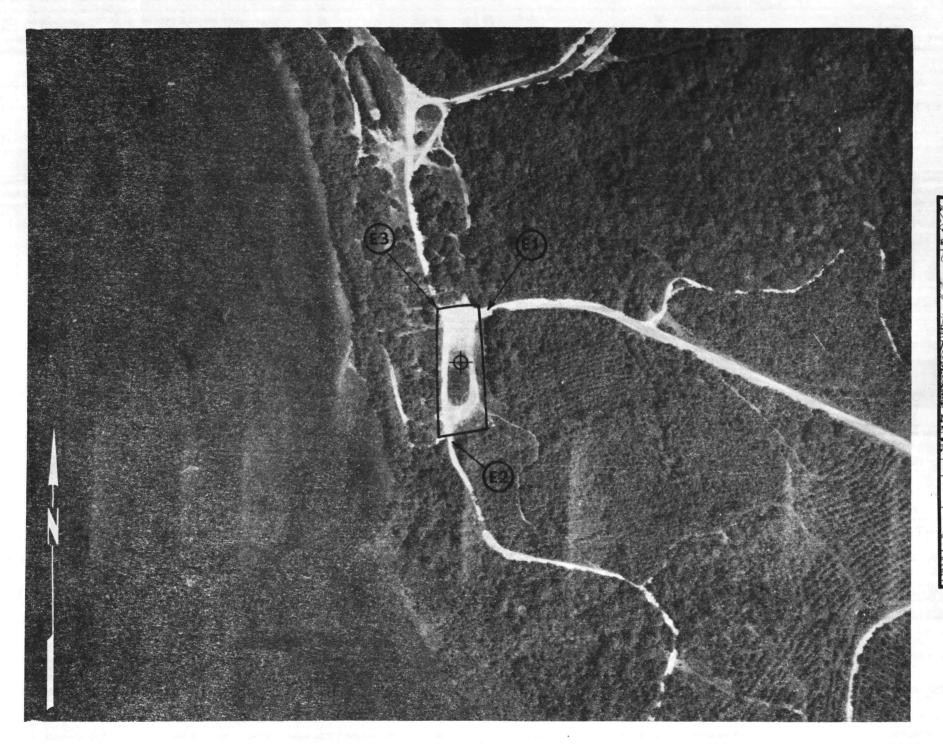


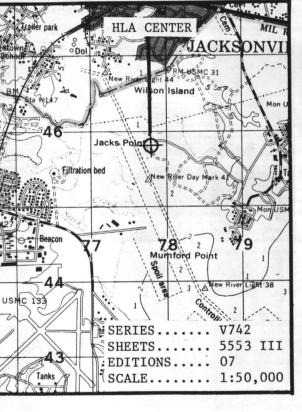
COUNT	RY UNITED	STATES	RECORD ID	0410LM0021	TDI CAT	70610
NAME	MONTFORD	POINT NO.1A	(TEMPORARY)	LAT/LONG 3443	44N0772424W	

- 1) NAME: MONTFORD PT NO. 1
- 2) BE NO./TDI CATEGORY CODE: 0410LM0022/70610
- 3) CENTER COORDINATE/GEO: 344355N0772537W
- 4) CENTER COORDINATE/UTM: 18STP77804584
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 125 METERS BY 60 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 034.5 MAG/
- 3.3 KM
- 9) EXITS: E1: TWO LANE DIRT ROAD EXTENDS EAST.
 - E2: SINGLE LANE DIRT ROAD EXTENDS SOUTH.
 - E3: SINGLE LANE DIRT ROAD EXTENDS NORTH.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIALS: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: FAIR GOOD
 - TRACKED: GOOD GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA A, SUB-

DIVISION AC. EXTERNAL LIFT NOT AUTHORIZED. CAUTION SHOULD BE NOTED UPON

LANDING DUE TO SCHRUBS.

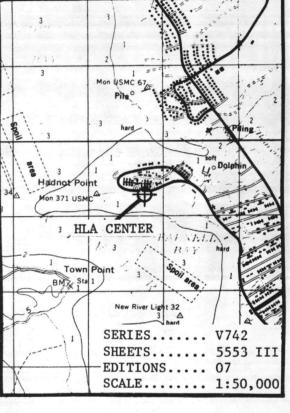




COUNTRY UNITED STATES	RECORD ID 0410LM0022	TDI CAT 70610
NAME MONTFORD POINT NO.1	LAT/LONG 344	355N0772537W

- 1) NAME: OLD HOSPITAL POINT NO. 2
- 2) BE NO./TDI CATEGORY CODE: 0410LM0023/70610
- 3) CENTER COORDINATE/GEO: 344026N0772216W
- 4) CENTER COORDINATE/UTM: 18STP82803925
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 80 METERS BY 35 METERS (AVERAGE)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 127.5 MAG/
- 7.3 KM
- 9) EXITS: CROSS-COUNTRY EXISTS N AND W OF LZ.
- 10) FLIGHT HAZARDS: H1: FLAG POLE NW OF LZ.
 - H2: STEEPLE ON BUILDING NW OF LZ.
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: FAIR GOOD
 - TRACKED: GOOD GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED ON HOSPITAL POINT, SHORT GRASS THROUGHOUT THE LZ ALLOWS GOOD TRAFFICABILITY. EXTERNAL LIFT NOT AUTHORIZED. TREES TO THE E WILL HAMPER MOVEMENT. THE NEW RIVER BORDERS TO THE S OF THE LZ.

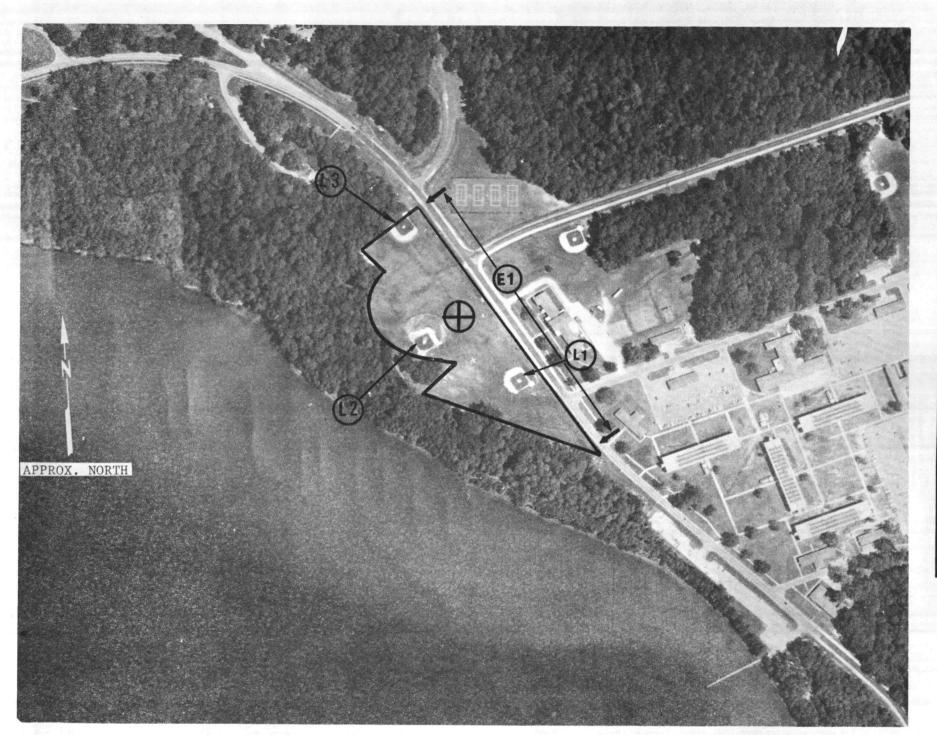


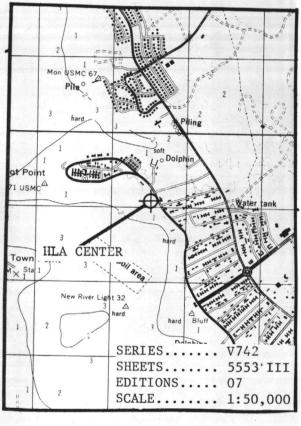


COUNT	RY UNITED STATES	RECORD ID 0410LM0023	TDI CAT 70610
NAME	HOSPITAL POINT NO.2	LAT/LONG 344	4026N0772216W

- 1) NAME: AREA 1 NO. 3
- 2) BE NO./TDI CATEGORY CODE: 0410LM0024/70610
- 3) CENTER COORDINATE/GEO: 344022N0772143W
- 4) CENTER COORDINATE/UTM: 18STP83593910
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 220 METERS BY 75 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 126.5 MAG/
- 8.1 KM
- 9) EXITS: E1: CROSS COUNTRY EXITS LOCATED NW TO SE OF LZ AND PARALELS A
- TWO LANE HARD-SURFACE ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: BACKSTOP.
 - L2: BACKSTOP.
 - L3: BACKSTOP.
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: FAIR GOOD
 - TRACKED: GOOD GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN THE MAINSIDE AREA.

EXTERNAL LIFT NOT AUTHORIZED. TREES BORDER THE LZ FROM NNW TO SE.





COUNTRY UNITED STATES	RECORD ID 0410LM0024	TDI CAT 70610
NAME AREA 1 NO. 3	LAT/LONG 344	022N0772143W

- 1) NAME: WPT HILL FIELD NO.4
- 2) BE NO./TDI CATEGORY CODE: 0410LM0025/70610
- 3) CENTER COORDINATE/GEO: 343955N0772042W
- 4) CENTER COORDINATE/UTM: 18STP85153823
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 600 METERS BY 300 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 126.5 MAG/
- 9.9 KM
- 9) EXITS: CROSS-COUNTRY EXITS ALONG COMPLETE PERIMETER OF LZ.
- 10) FLIGHT HAZARDS: H1: SMOKE STACK.

H2: SMOKE STACK.

H3: LIGHT POLES.

H4: FLAG POLE.

- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

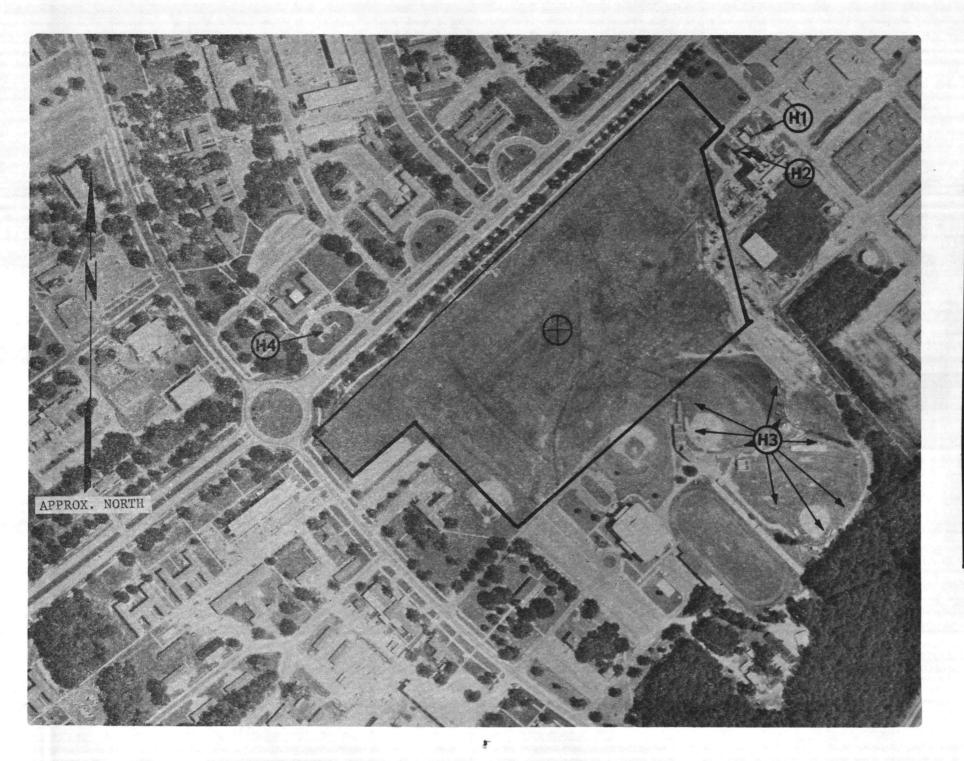
TROOPS: GOOD GOOD

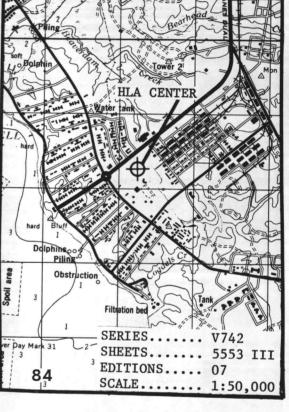
WHEELED: FAIR GOOD

TRACKED: GOOD GOOI

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN MAINSIDE AREA. EXTERNAL

LIFT NOT AUTHORIZED. RESTRICTED FROM TRAINING, V.I.P. USE ONLY.





COUNTRY UNITED STATES RECORD ID 0410LM0025 TDI CAT 70610

NAME WPT HILL FIELD NO. 4

LAT/LONG 343955N0772042W

- 1) NAME: 2D MAR DIV CP NO.5
- 2) BE NO./TDI CATEGORY CODE: 0410LM0026/70610
- 3) CENTER COORDINATE/GEO: 343935N0772119W
- 4) CENTER COORDINATE/UTM: 18STP84123761
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 50 METERS BY 40 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 132.5 MAG/
- 9.25 KM
- 9) EXITS: E1: HARD SURFACE ROAD EXTENDS NW OF LZ INTERSECTING WITH HOLCOMB BLVD.
- 10) FLIGHT HAZARDS: H1: FLAG POLE.
- 11) LANDING HAZARDS: L1: LARGE TREES.
- 12) SURFACE MATERIAL: FINE LOAMY SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD FAIR

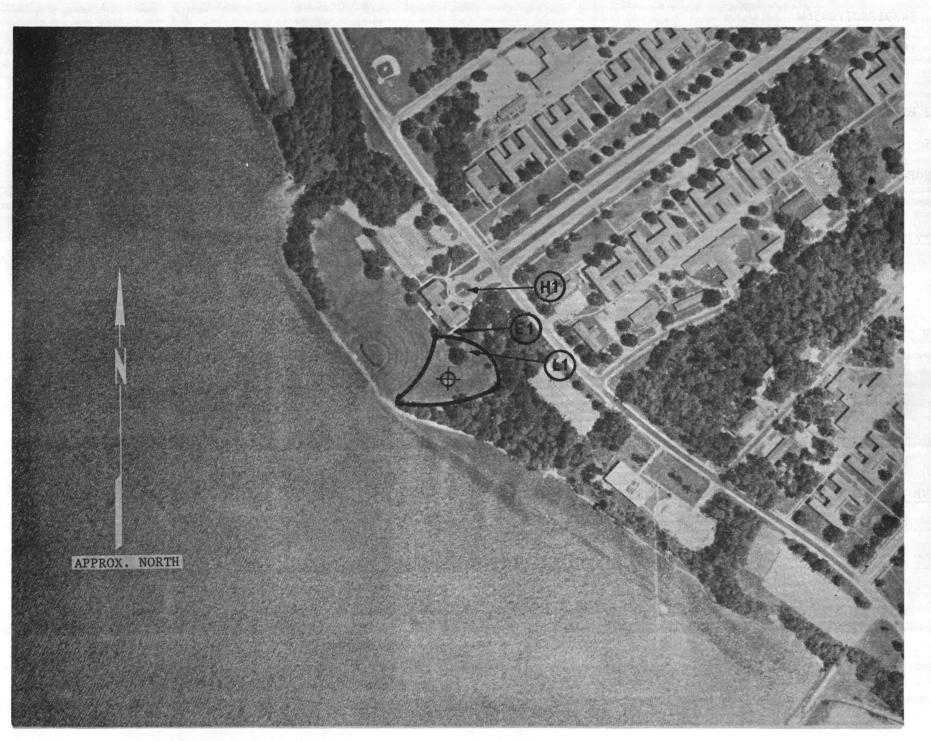
WHEELED: GOOD FAIR

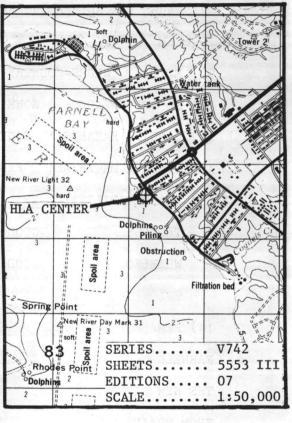
TRACKED: GOOD FAIR

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN MAINSIDE AREA NEXT TO

DIVISION CP. LZ MARKED WITH WHITE X. EXTERNAL LIFT NOT AUTHORIZED. TREES TO

THE E AND S OF LZ.





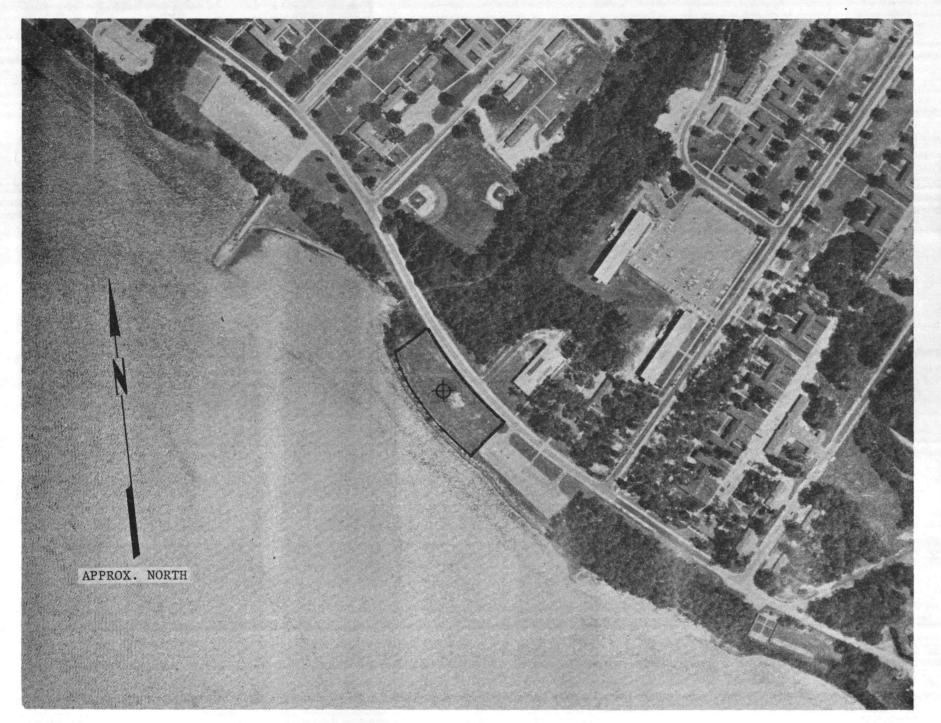
COUNT	RY UNI	TED STAT	ES	RECORD ID 04	10LM0026	TDI CAT 70610
NAME	2D MARDIV	CP NO.	5		LAT/LONG 343935NO	772119W

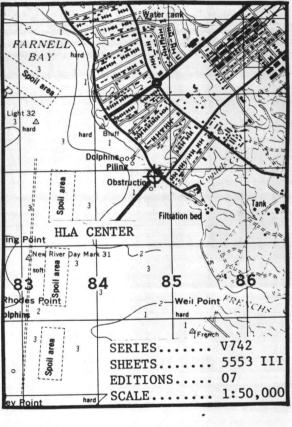
- 1) NAME: 10TH MAR AREA NO.6
- 2) BE NO./TDI CATEGORY CODE: 0410LM0027/70610
- 3) CENTER COORDINATE/GEO: 343912N0772056W
- 4) CENTER COORDINATE/UTM: 18STP84733699
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 100 METERS BY 30 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 133.5 MAG/
- 10.2 KM
- 9) EXITS: CROSS-COUNTRY EXITS FROM N TO ESE ON ROAD BORDERING LZ.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE LOAMY SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD FAIR
 - WHEELED: GOOD FAIR
 - TRACKED: GOOD FAIR
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED E OF THE NEW RIVER IN THE

FARNELL BAY SECTOR. LZ MARKED WITH WHITE X. EXTERNAL LIFT NOT AUTHORIZED.

THE NEW RIVER BORDERS LZ FROM FROM NW TO S. TREES TO THE NNW OF LZ. RESTRICTED

FROM TRAINING, V.I.P. USE ONLY.





COUNTRY	UNITED STATES	RECORD ID 0410LM0027	TDI CAT 70610
NAME 10th	MAR AREA NO. 6	LAT/LONG 343	3912N0772056W

- 1) NAME: OP-2 NO.7
- 2) BE NO./TDI CATEGORY CODE: 0410LM0028/70610
- 3) CENTER COORDINATE/GEO: 343934N0771629W
- 4) CENTER COORDINATE/UTM: 18STP91573745
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 80 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 116.5 MAG/

16.1 KM

- 9) EXITS: CROSS-COUNTRY EXITS LOCATED ALONG ENTIRE PERIMETER OF LZ.
- 10) FLIGHT HAZARDS: H1: OBSERVATION TOWER.
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

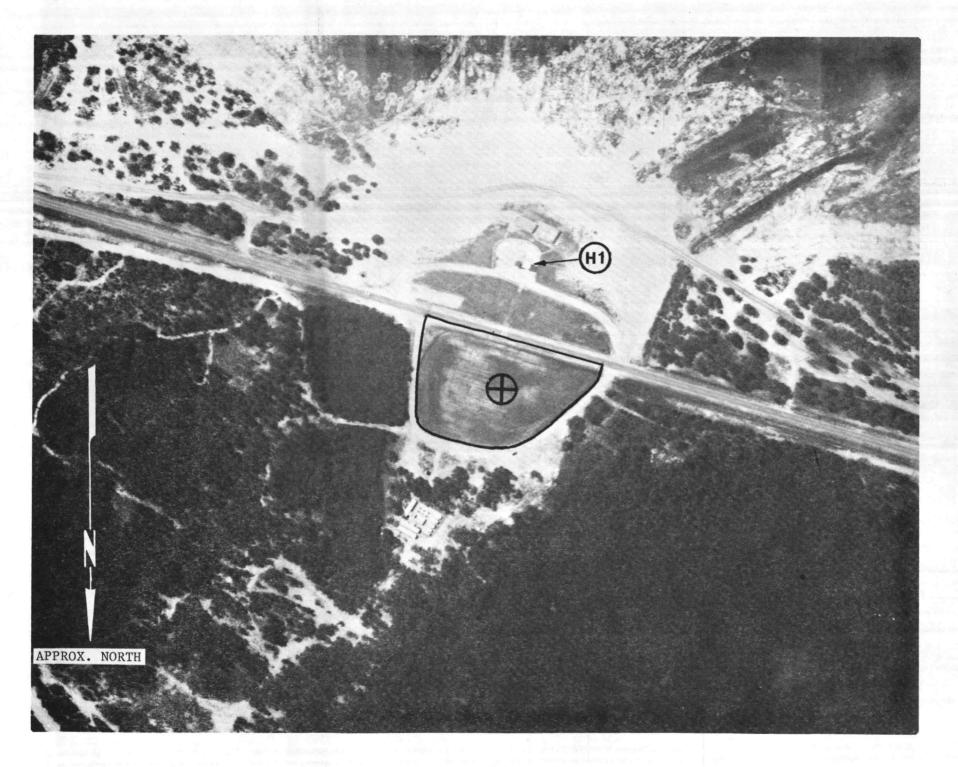
TROOPS: GOOD GOOD

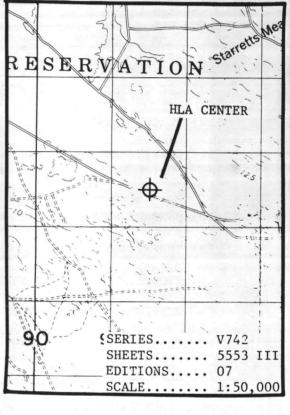
WHEELED: GOOD GOOD

TRACKED: GOOD GOOD

14) REMARKS: ADMISITRATIVE LANDING ZONE. LOCATED IN TRAINING AREA F, SUB-

DIVISION FD. EXTERNAL LIFT NOT AUTHORIZED.





COUNTRY	UNITED STATES	RECORD ID 0410LM0028	TDI CAT 70610	
NAME OP-	-2 NO. 7	LAT/LONG 34	3934N0771629W	

- 1) NAME: COURT HOUSE BAY NO.8
- 2) BE NO./TDI CATEGORY CODE: 0410LM0029/70610
- 3) CENTER COORDINATE/GEO: 343509N0772139W
- 4) CENTER COORDINATE/UTM: 18STP83482942
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 260 METERS BY 120 METERS (AVERAGE)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 160.5 MAG/

15.2 KM

9) EXITS: CROSS-COUNTRY EXITS LOCATED ALONG ENTIRE PERIMETER OF LZ. TRACKED

VEHICLE CROSSING PAD NE CORNER OF LZ.

- 10) FLIGHT HAZARDS: H1: FLAG POLE.
- 11) LANDING HAZARDS: L1: BACKSTOP.

L2: BACKSTOP.

- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS:

GOOD GOOD

WHEELED:

FAIR GOOD

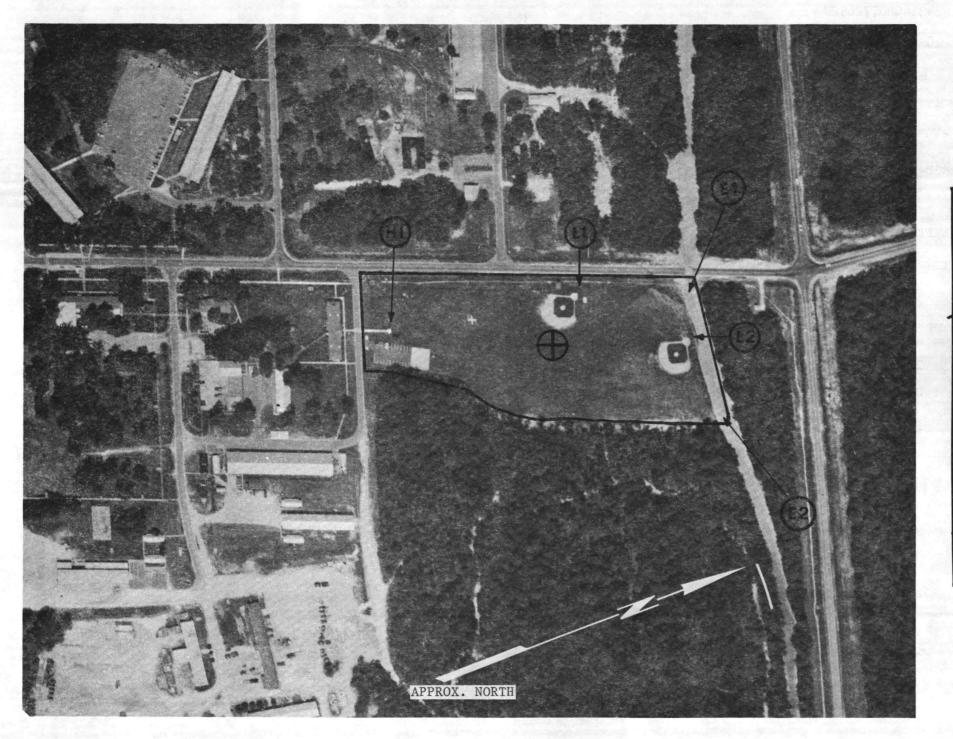
TRACKED:

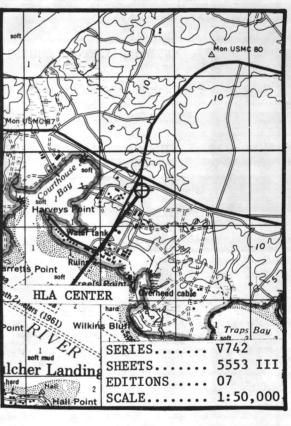
GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED SE OF RT. 172 AND MARINES

ROAD INTERSECTION. EXTERNAL LIFT NOT AUTHORIZED.

DATE OF PHOTOGRAPHY: 04 AUG 84





COUNT	RY UNITED STATES	RECORD ID	0410LM0029	TDI CAT	70610
NAME	COURTHOUSE BAY NO.8		LAT/LONG	343509N0772139W	

- 1) NAME: RIFLE RANGE NO.9
- 2) BE NO./TDI CATEGORY CODE: 0410LM0030/70610
- 3) CENTER COORDINATE/GEO: 343540N0772652W
- 4) CENTER COORDINATE/UTM: 18STP75593058
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 100 METERS BY 125 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8. TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 191.5 MAG/
- 12.2 KM
- 9) EXITS: CROSS-COUNTRY EXITS AROUND ENTIRE L'ANDING ZONE PERIMETER.
- 10) FLIGHT HAZARDS: H1: WATERTOWER.
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: MIXED WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

WHEELED: GOOD GOOD

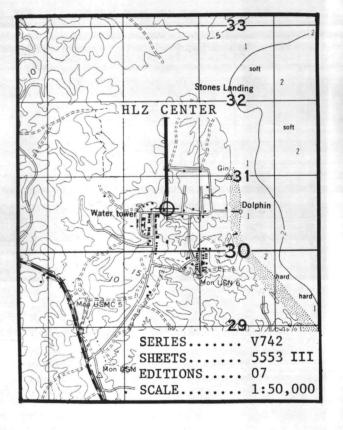
TRACKED: GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA L.

EXTERNAL LIFT NOT AUTHORIZED.

DATE OF PHOTOGRAPHY: 840724

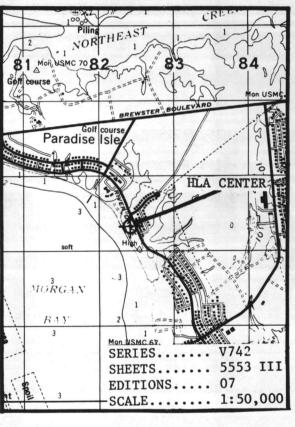




OUNTRY UNITED STATES		RECORD ID 0410LM0030	TDI CAT 70610	
NAME RIFLE RANGE NO.9		LAT/LONG 3435	40N0772652W	

- 1) NAME: TENNIS COURTS NO.10
- 2) BE NO./TDI CATEGORY CODE: 0410LM0031/70610
- 3) CENTER COORDINATE/GEO: 344206N0772234W
- 4) CENTER COORDINATE/UTM: 18STP82404232
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 500 METERS BY 125 METERS (WIDEST POINT)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 105.0 MAG/
- 6.1 KM
- 9) EXITS: CROSS-COUNTRY EXITS ALONG E PERIMETER ON HARD-SURFACE ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: TENNIS COURTS AND PARKING LOT.
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: FAIR GOOD
 - TRACKED: GOOD GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED ALONG THE NEW RIVER IN MORGAN BAY SECTOR. EXTERNAL LIFT NOT AUTHORIZED. TREES N, NNW AND SE PORTIONS OF LZ. THE NEW RIVER BORDERS ALONG THE W. RESTRICTED FROM TRAINING, V.I.P. USE ONLY.





COUNTRY UNITED STATES	RECORD ID 0410LM0031	TDI CAT 70610
NAME TENNIS COURTS NO. 10	LAT/LONG 344	206NC772234W

- 1) NAME: FORCE TROOPS CP NO.11
- 2) BE NO./TDI CATEGORY CODE: 0410LM0032/70610
- 3) CENTER COORDINATE/GEO: 344017N0772044W
- 4) CENTER COORDINATE/UTM: 18STP85113894
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 105 METERS BY 75 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 122.5 MAG/
- 9.7 KM
- 9) EXITS: CROSS-COUNTRY EXITS ALONG BORDERING PARKING LOT AND TO THE S AND W ALONG ROAD BORDERING LZ.
- 10) FLIGHT HAZARDS: H1: WATERTOWER W OF LZ.
- 11) LANDING 'HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS:

GOOD GOOD

WHEELED:

FAIR GOOD

TRACKED:

GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN THE MAINSIDE AREA.

BACKSTOP LOCATED JUST OUTSIDE THE LZ PERIMETER ON THE SE CORNER IS A

POTENTIAL LANDING HAZARD. EXTERNAL LIFT NOT AUTHORIZED. MOVEMENT WILL BE

HAMPERED TO THE N AND E BY DENSE TREES.

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COUNTRY UNITED STATES RECORD ID 0410LM0032 TDI CAT 70610

NAME FORCE TROOPS CP NO. 11

LAT/LONG 344017N0772044W

- 1) NAME: GOLF COURSE NO.12
- 2) BE NO./TDI CATEGORY CODE: 0410LM0033/70610
- 3) CENTER COORDINATE/GEO: 344241N0772338W
- 4) CENTER COORDINATE/UTM: 18STP80804380
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 25 METERS BY 70 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 085.5 MAG/
- 4.4 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED TO THE N AND S OF LZ.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

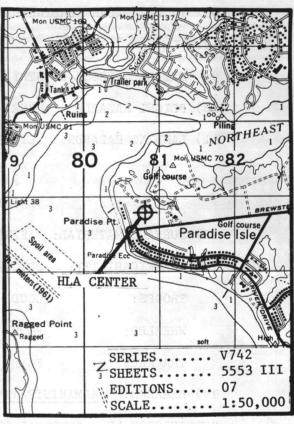
WHEELED: FAIR GOOD

TRACKED: GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED ON GOLF COURSE. EXTERNAL

LIFT NOT AUTHORIZED. TREES TO THE E AND W OF LZ.





COUNTRY	UNITED STAT	ES	RECORD ID 0410LM0033	TDI CAT 70610
NAME GOLF	COURSE NO.	12	LAT/LONG	344241N0772338W

- 1) NAME: RIFLE RANGE QUARTERS NO.14
- 2) BE NO./TDI CATEGORY CODE: 0410LM0035/70610
- 3) CENTER COORDINATE/GEO: 343519NU772701
- 4) CENTER COORDINATE/UTM: 18STP75302998
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 105 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 193.0 MAG/
- 12.9 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED TO THE N AND E OF LZ.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: L1: SMALL BUILDING.

L2: BACKSTOP.

L3: TREES.

- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS AND SCATTERED SCRUBS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

WHEELED: POOR FAIR

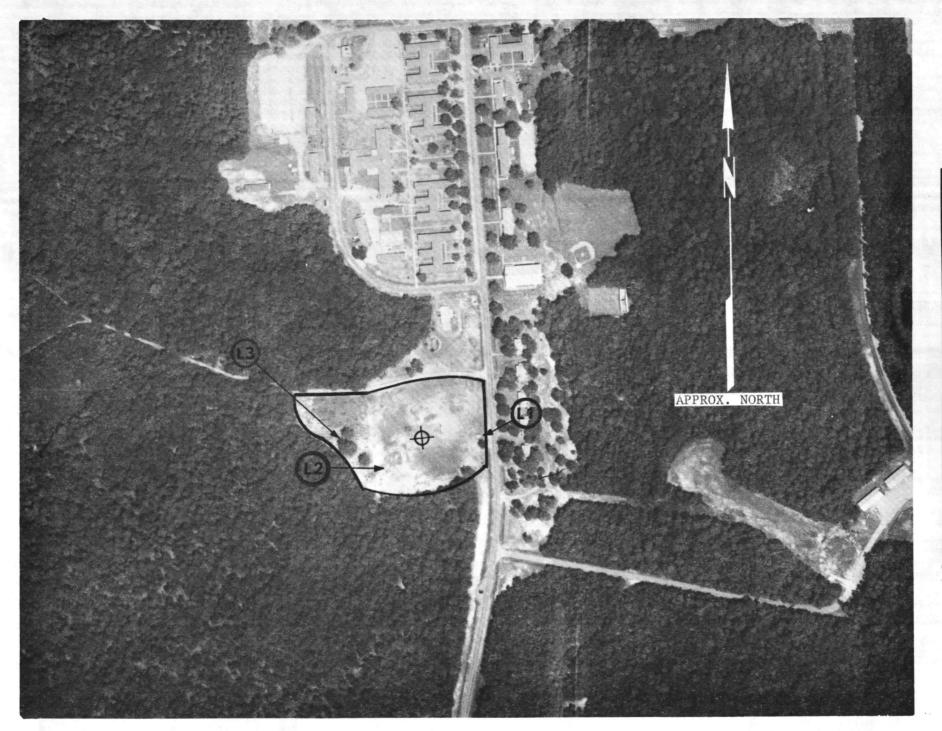
TRACKED: FAIR GOOD

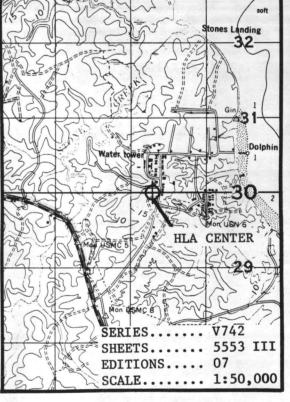
14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA L,

SUBDIVISION LB. EXTERNAL LIFT NOT AUTHORIZED. TREES TO THE S AND W OF LZ.

DATE OF PHOTOGRAPHY: 04 AUG 84

HLA ILLUSTRATION SHEET





COUNTRY	UNITED STATES		RECORD ID 041	OLM0035	TDI CAT	70610
NAME RIFLE	RANGE QUARTERS	NO. 14	L	AT/LONG 3435	19N0772701W	i responsable de la compansable de la compansabl

- 1) NAME: CP GEIGER NO. 15
- 2) BE NO./TDI CATEGORY CODE: 0410LM0036/70610
- 3) CENTER COORDINATE/GEO: 34417N0772734W
- 4) CENTER COORDINATE/UTM: 18STP74864659
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 420 METERS BY 400 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 345.0 MAG/
- 4.1 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED ALONG ENTIRE PERIMETER OF LZ.
- 10) FLIGHT HAZARDS: H1: FLAG POLE.
- 11) LANDING HAZARDS: L1: BACKSTOPS. L2: BLEACHERS.
- 12) SURFACE MATERIAL: LOAMY FINE SAND WITH DENSE GRASS AND SCATTERED TREES.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD FAIR

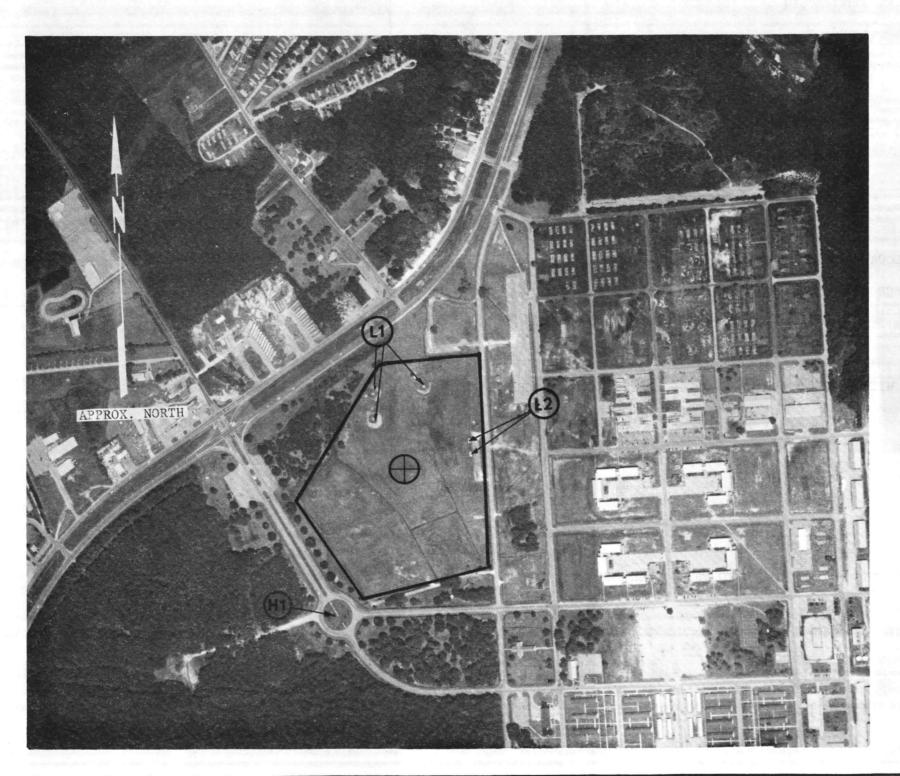
WHEELED: GOOD FAIR

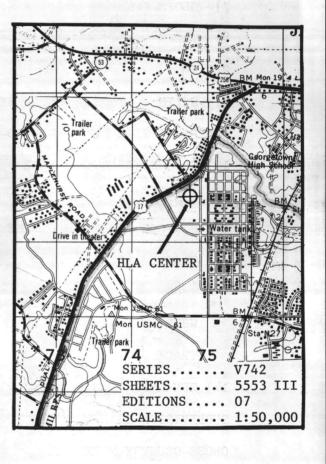
TRACKED: GOOD FAIR

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA B,

SUBDIVISION BB. EXTERNAL LIFT NOT AUTHORIZED. TREES TO THE S AND W OF LZ.

DRAINAGE DITCHES DISECT SOUTHERN SECTIONS OF LZ.





COUNTRY	UNITED	STATES	RECORD ID 04	10LM0036	TDI CAT	70610
NAME CP	GEIGER NO. 1	L5	Service for sold and	LAT/LONG 344417NO	772734W	

- 1) NAME: CAMP GIEGER NO. 15-A
- 2) BE NO./TDI CATEGORY CODE: 0410LM0037/70610
- 3) CENTER COORDINATE/GEO: 344332N0772727W
- 4) CENTER COORDINATE/UTM: 18STP74974510
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 175. METERS BY 80 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 3 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 335.5 MAG/
- 2.7 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED TO THE NE, E AND S OF LZ WHICH INTERSECT WITH TWO LANE HARD-SURFACE ROADS.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

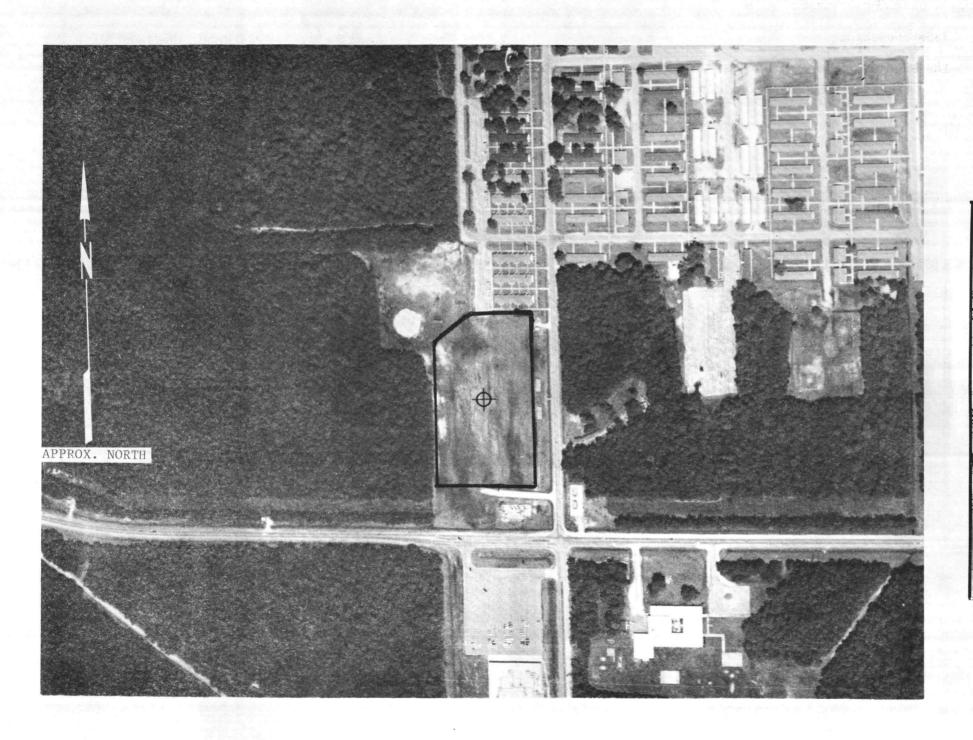
WHEELED: POOR FAIR

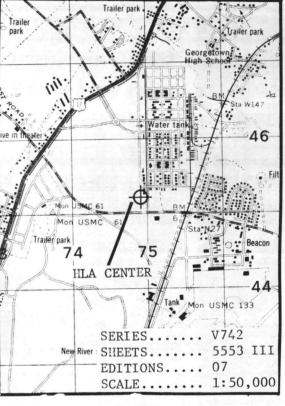
TRACKED: FAIR GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA B,

SUBDIVISION BB. EXTERNAL LIFT NOT AUTHORIZED. TREES TO THE W WILL HAMPER

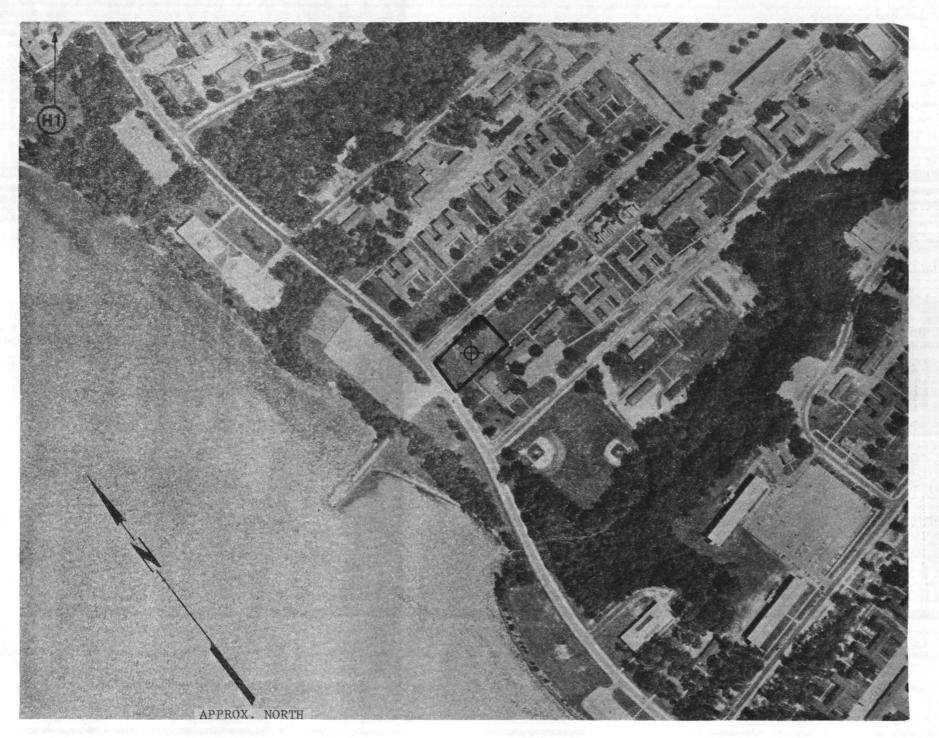
CROSS-COUNTRY MOVEMENT.

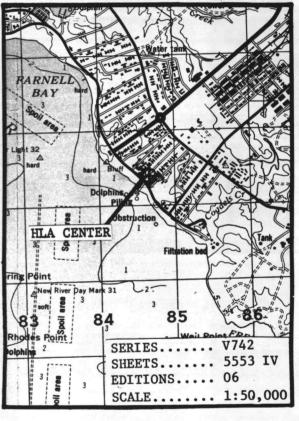




COUNTRY UNITED STATES	RECORD ID 0410LM0037	TDI CAT 70610
NAME CAMP GIEGER NO. 15-A	LAT/LONG 344332NO	772727W

- 1) NAME: 6TH MAR AREA NO.16
- 2) BE NO./TDI CATEGORY CODE: 0410LM0038/70610
- 3) CENTER COORDINATE/GEO: 343925N0772102W
- 4) CENTER COORDINATE/UTM: 18STP84643731
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 50 METERS BY 20 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 132.5 MAG/
- 9.9 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED TO THE E AND W OF LZ.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: FAIR GOOD
 - TRACKED: GOOD GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN MAINSIDE AREA. LZ
- IS MARKED BY WHITE X IN CENTER. EXTERNAL LIFT NOT AUTHORIZED.





COUNTRY UNITED STATES	RECORD ID 0410LM0038	TDI CAT 70610
NAME 6th MAR AREA NO. 16	LAT/LONG 343	925N0772102W

- 1) NAME: RADIO ISLAND NO.17
- 2) BE NO./TDI CATEGORY CODE: 0410LM0039/70610
- 3) CENTER COORDINATE/GEO: 344305N0765110W
- 4) CENTER COORDINATE/UTM: 18SUP45604280
- 5) SHAPE: TRIANGULAR
- 6) DIMENSIONS: 280 METERS ON EACH SIDE (AVERAGE)
- 7) SLOPE PERCENT: 0%
- 8) NDB (NDB HEADING/RANGE-MOREHEAD) REFERENCE POINT: 068.0 MAG/3.5 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED N, E AND S OF LZ.

E1: DIRT ROAD EXTENDS NW TO HARD-SURFACE ROAD.

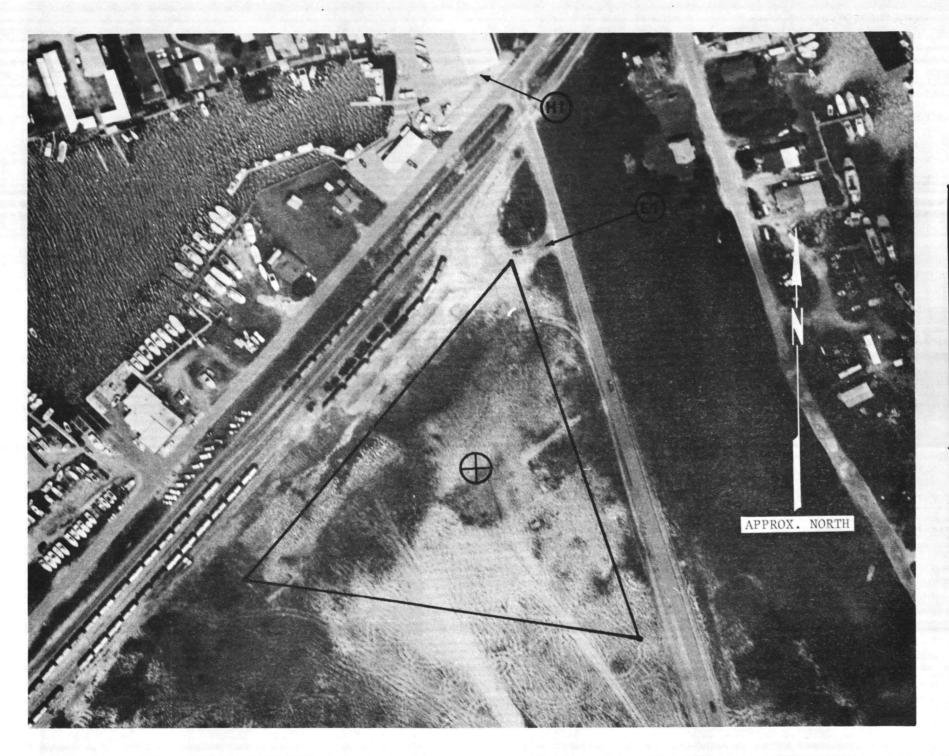
- 10) FLIGHT HAZARDS: H1: SMALL BOAT STORAGE BUILDING APPROX. 50 FEET IN HEIGHT.
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

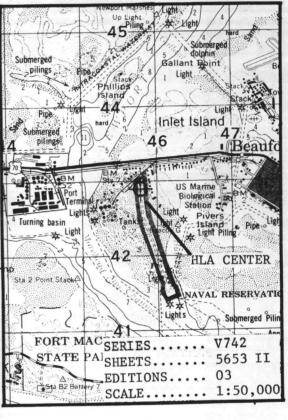
TROOPS: GOOD GOOD

WHEELED: POOR FAIR

TRACKED: FAIR GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED ON NORTHERN EDGE OF RADIO ISLAND. EXTERNAL LIFT NOT AUTHORIZED. RAILROAD HOLDING YARD AND THROUGH TRACKS TO THE W OF LZ.





COUNTRY UNITED STATES	RECORD ID 0410LM003	9 TDI CAT 70610
NAME RADIO ISLAND NO. 17	LAT/LONG	g 344305N0765110W

- 1) NAME: 2D MAR AREA NO. 18
- 2) BE NO./TDI CATEGORY CODE: 0410LM0040/70610
- 3) CENTER COORDINATE/GEO: 343947N0772124W
- 4) CENTER COORDINATE/UTM: 18STP84093803
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 150 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 131.5 MAG/
- 9.1 KM
- 9) EXITS: CROSS-COUNTRY EXITS LOCATED N, W AND S OF LZ.
- 10) FLIGHT HAZARDS: H1: BARRACKS APPROX. 40 FEET IN HEIGHT.
- 11) LANDING HAZARDS: L1: BACKSTOPS.
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

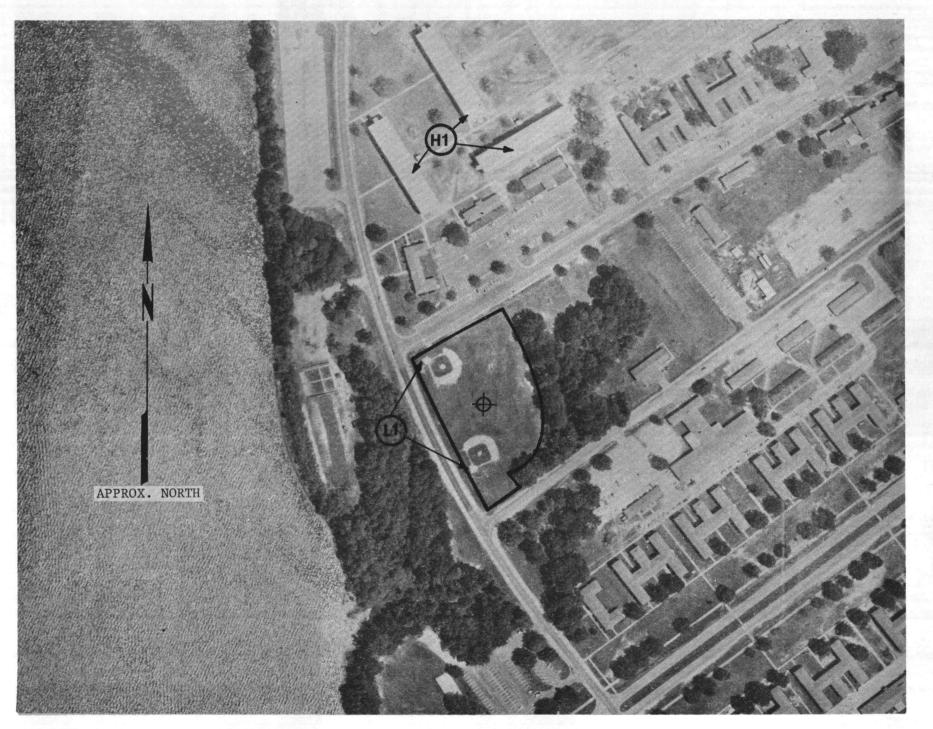
TROOPS: GOOD GOOD

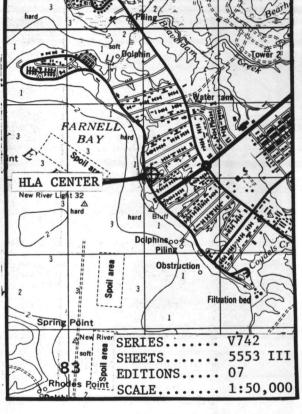
WHEELED: FAIR GOOD

TRACKED: GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED ALONG THE NEW RIVER IN FARNELL BAY SECTOR. EXTERNAL LIFT NOT AUTHORIZED. TREES TO THE E.

HLA ILLUSTRATION SHEET





COUNTRY UNITED STATES	RECORD ID 0410LM0040	TDI CAT 70610	
NAME 2D MAR AREA NO. 18	LAT/LONG	343947NO772124W	

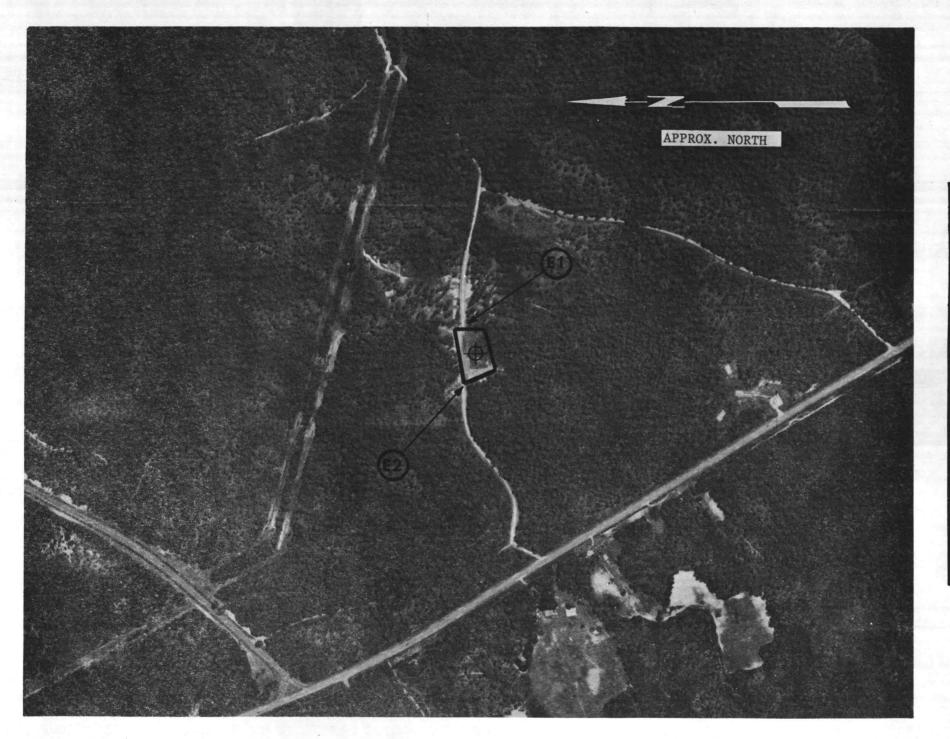
- 1) NAME: ITC NO. 19
- 2) BE NO./TDI CATEGORY CODE: 0410LM0041/70610
- 3) CENTER COORDINATE/GEO: 343420N0772709W
- 4) CENTER COORDINATE/UTM: 18STP75042814
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 20 METERS BY 15 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 5 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 193.5 MAG/
- 14.7 KM
- 9) EXITS: E1: DIRT ROAD EXTENDS E.
 - E2: DIRT ROAD EXTENDS W TO HARD SURFACE ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS, AND SCATTERED SCRUBS.

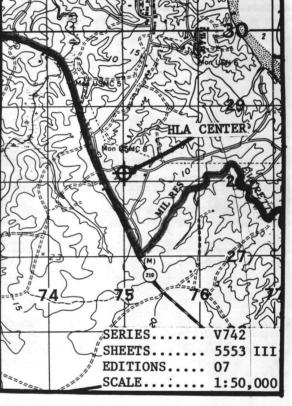
GOOD

- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD
 - WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA L, SUB-

DIVISION LC. EXTERNAL LIFT NOT AUTHORIZED. SW PORTION OF LZ HAS MATTING WITH

WHITE CIRCLE PAINTED IN THE CENTER.

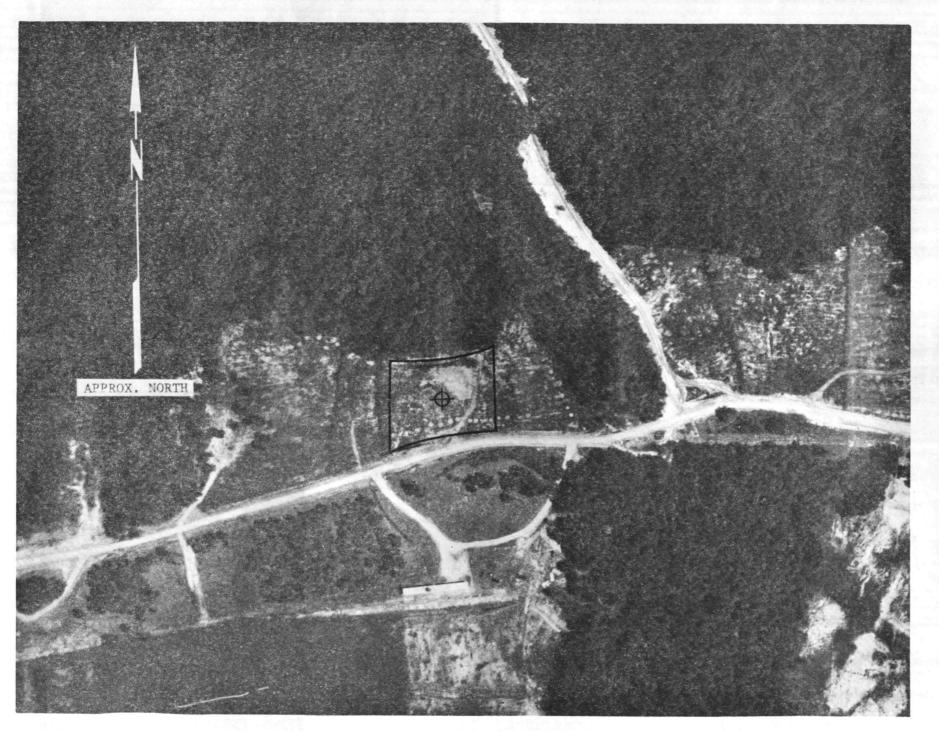


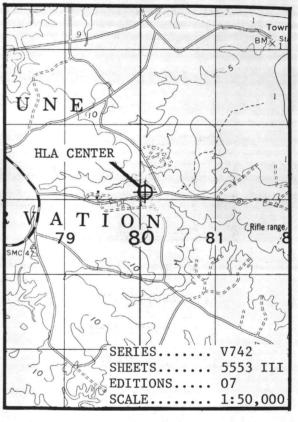


COUNTRY	UNITED	STATES	RECORD ID	0410LM0041	TDI CAT 70610	
NAME ITC	NO. 19		- Agricological	LAT/LONG	343420N0772709W	

- 1) NAME: VERONA LOOP NO.20
- 2) BE NO./TDI CATEGORY CODE: 0410LM0042/70610
- 3) CENTER COORDINATE/GEO: 343842N0772359W
- 4) CENTER COORDINATE/UTM: 18STP80063606
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 100 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 159.5 MAG/
- 7.3 KM
- 9) EXITS: CROSS-COUNTRY EXITS ALONG S OF LZ BORDERING DIRT ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS AND SCRUBS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS:
- GOOD GOOD
- WHEELED:
- POOR FAIR
- TRACKED:
- FAIR GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA K.

EXTERNAL LIFT NOT AUTHORIZED. TREES TO THE N, E AND W OF LZ.





COUNTRY	UNITED STATES	RECORD ID 0410LM0042	TDI CAT 70610
NAME	VERONA LOOP NO. 20	LAT/LONG	343842N0772359W

- 1) NAME: FRENCHS CREEK NO. 21
- 2) BE NO./TDI CATEGORY CODE: 0410LM0043/70610
- 3) CENTER COORDINATE/GEO: 343837N0771939W
- 4) CENTER COORDINATE/UTM: 18STP86673580
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 110 METERS BY 75 METERS (AVERAGE)
- 7) SLOPE PERCENT: 1 6 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 131.5 MAG/

12.5 KM

9) EXITS: E1: DIRT ROAD EXTENDS NW TO HARD-SURFACE ROAD.

E2: DIRT ROAD EXTENDS NE TO HARD-SURFACE ROAD/CROSS-COUNTRY TRACKS

AND TRAILS.

E3: DIRT TRACKS EXTENDS SE TO CROSS-COUNTRY TRACKS AND TRAILS.

E4: DIRT ROAD EXTENDS SW TO HARD-SURFACE ROAD/CROSS-COUNTRY

TRACKS AND TRAILS.

- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET

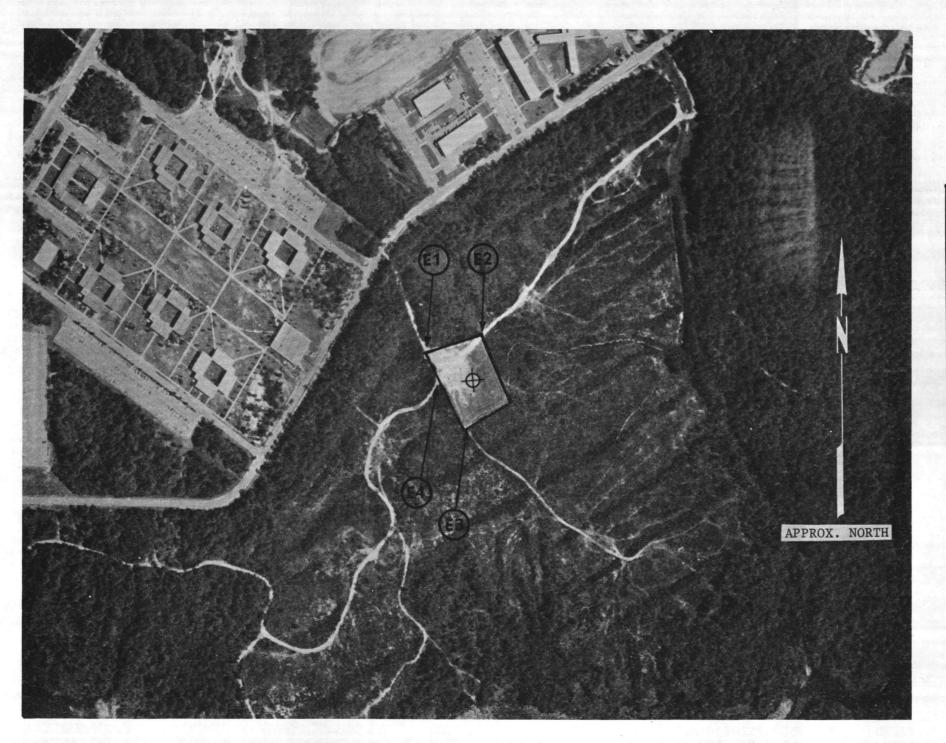
TROOPS: GOOD GOOD

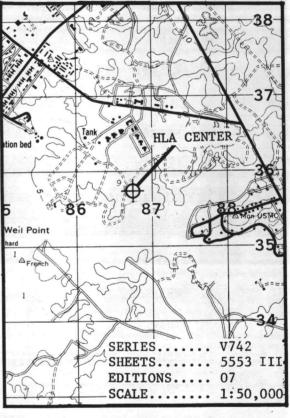
WHEELED: POOR FAIR

TRACKED: FAIR GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA D, SUB-

DIVISION DC. EXTERNAL LIFT NOT AUTHORIZED.





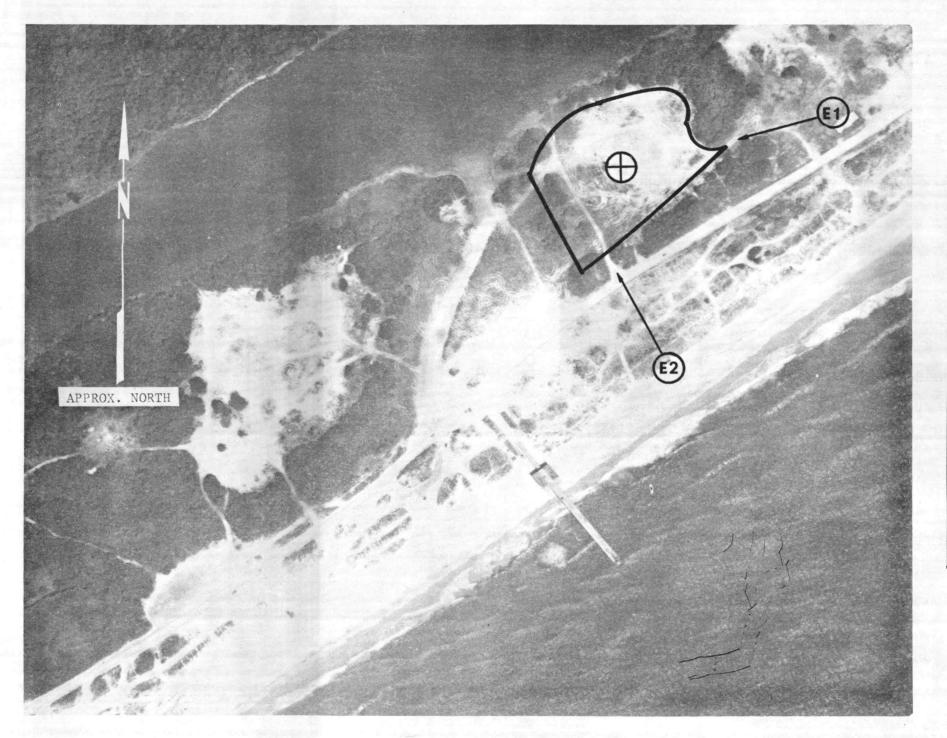
COUNTRY	UNITED STATES	RECORD ID	0410LM0043	TDI CAT 70610
NAME	FRENCHS CREEK NO.21	r kaj	LAT/LONG 3438	837N0771939W

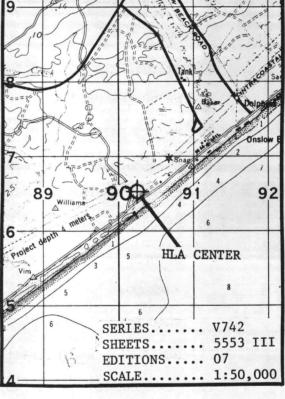
- 1) NAME: RISLEY PIER NO.22 (ADJACENT TO)
- 2) BE NO./TDI CATEGORY CODE: 0410LM0044/70610
- 3) CENTER COORDINATE/GEO: 343340N0771710W
- 4) CENTER COORDINATE/UTM: 18STP90282655
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 125 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 2 10 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 148.0 MAG/
- 21.45 KM
- 9) EXITS: E1: DIRT ROAD EXTENDS SE TO INTERSECTION WITH DIRT COASTAL ROAD.

 E2: DIRT ROAD EXTENDS S TO INTERSECTION WITH DIRT COASTAL ROAD.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: FINE SAND WITH SPARSE GRASS.
- 13) TRAFFICABILITY: DRY WET
 - TROOPS: GOOD GOOD
 - WHEELED: POOR FAIR
 - TRACKED: FAIR GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA E.

EXTERNAL LIFT AUTHORIZED. INTRACOASTAL WATERWAY TO THE N OF LZ. NUMEROUS

AREAS NEAR THE LZ MAY BE SUITABLE FOR LANDING AREAS.





COUNTRY	UNITED S	STATES		RECORD ID	0410LM0044		TDI CAT 70610	
NAME	RISLEY PIER	NO.22	(ADJACENT	TO)	LAT/LONG	343340NO	771710W	

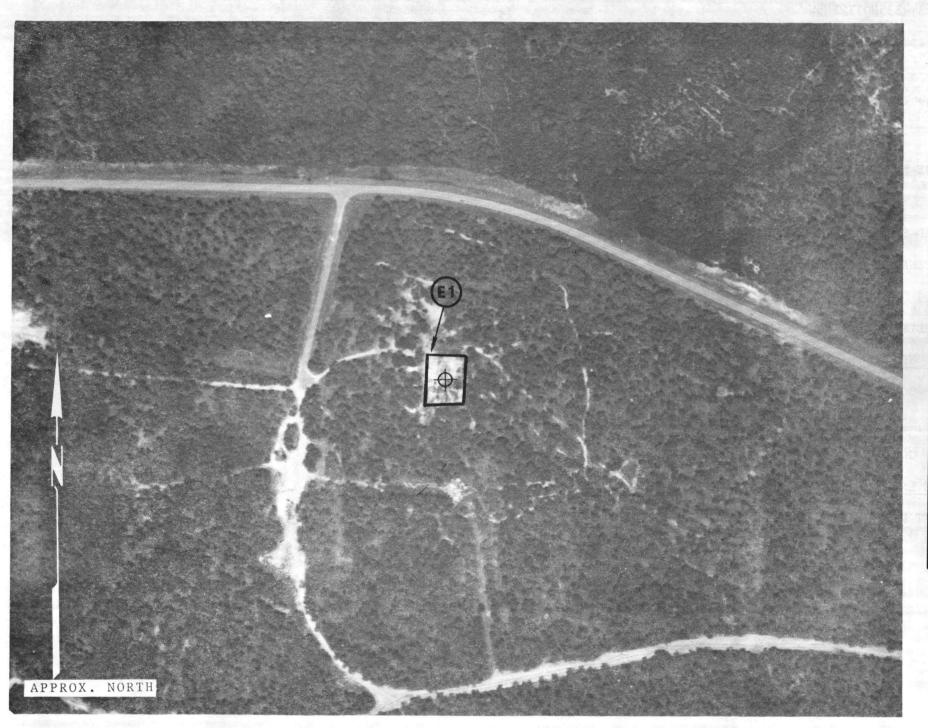
- 1) NAME: SQUAD LEADERS TENT CAMP NO. 23
- 2) BE NO./TDI CATEGORY CODE: 0410LM0045/70610
- 3) CENTER COORDINATE/GEO: 343930N0771438W
- 4) CENTER COORDINATE/UTM: 18STP94413721
- 5) SHAPE: RECTANGULAR
- 6) DIMENSIONS: 125 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 4 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 115.5 MAG/
- 9) EXITS: E1: DIRT ROAD EXTENDS WEST OF LANDING ZONE. CROSS-COUNTRY EXITS AROUND ENTIRE PERIMETER.
- 10) FLIGHT HAZARDS: NONE
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIALS: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

WHEELED: FAIR GOOD

TRACKED: GOOD GOOD

- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA Q, SUBDIVISION
- QB. EXTERNAL LIFTS NOT AUTHORIZED. CAUTION SHOULD BE NOTED ON APPROACH TO LANDING ZONE DUE TO SCHRUBS AND TREES.





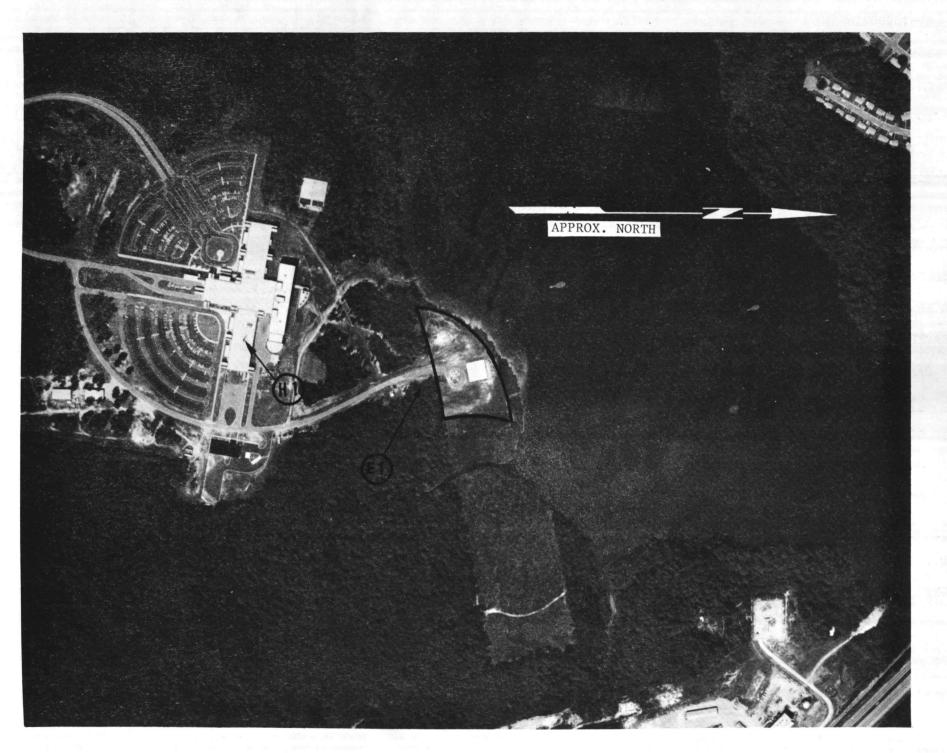
COUNTR	Y UNITED STATE	S		RECORD ID	0410LM0045	TDI CAT	70610
NAME	SQUAD LEADERS	TENT	CAMP	NO.23	LAT/LONG 343	3930N0771438W	en a service a service de la constante de la c

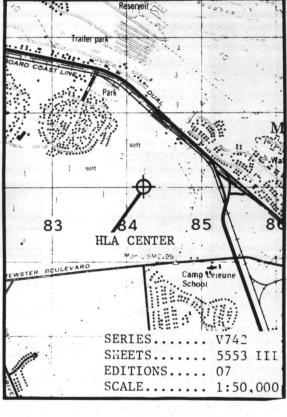
- 1) NAME: NAVAL HOSPITAL NO.24
- 2) BE NO./TDI CATEGORY CODE: 0410LM0046/70610
- 3) CENTER COORDINATE/GEO: 344335N0772125W
- 4) CENTER COORDINATE/UTM: 18STP84204502
- 5) SHAPE: IRREGULAR
- 6) DIMENSIONS: 175 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 083.5 MAG/
- 81 KM
- 9) EXITS: E1: TWO LANE HARD-SURFACE ROAD EXTENDS S TO HOSPITAL.
- 10) FLIGHT HAZARDS: H1: ANTENNA ON HOSPITAL.
- 11) LANDING HAZARDS: NONE
- 12) SURFACE MATERIAL: CONCRETE LANDING PAD SURROUNDED BY FINE SAND.
- 13) TRAFFICABILITY: <u>DRY</u> <u>WET</u>
 - TROOPS:
- GOOD GOOD
- WHEELED:
- GOOD GOOD
- TRACKED:
- GOOD GOOD
- 14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA C,
- SUBDIVISION CA. EXTERNAL LIFT NOT AUTHORIZED. LZ IS BORDERED TO THE N BY

SOUTHWEST CREEK.

HLA ILLUSTRATION SHEET

DATE OF PHOTOGRAPHY: 04 AUG 84





COUNTRY UNITED STATES	RECORD ID 0410LM0046	TDI CAT 70610
NAME NAVAL HOSPITAL NO. 24	LAT/LONG 344335NO	772125W

- 1) NAME: RECON NO.25
- 2) BE NO./TDI CATEGORY CODE: 0410LM0047/70610
- 3) CENTER COORDINATE/GEO: 34310N0071625W
- 4) CENTER COORDINATE/UTM: 18STP91482748
- 5) SHAPE: OVAL
- 6) DIMENSIONS:120 METERS BY 100 METERS (AVERAGE)
- 7) SLOPE PERCENT: 0 %
- 8) TACAN (TACAN HEADING/RANGE-MCAS (H), NEW RIVER) REFERENCE POINT: 144.5 MAG/
- 21.5 KM
- 9) EXITS: CROSS-COUNTRY EXITS EXTEND S TO HARD-SURFACE ROAD.
- 10) FLIGHT HAZARDS: H1: CENTER SWING BRIDGE.

H2: WATER TOWER.

- 11) LANDING HAZARDS: L1: BACKSTOP.
- 12) SURFACE MATERIAL: FINE SAND WITH DENSE GRASS.
- 13) TRAFFICABILITY: DRY WET

TROOPS: GOOD GOOD

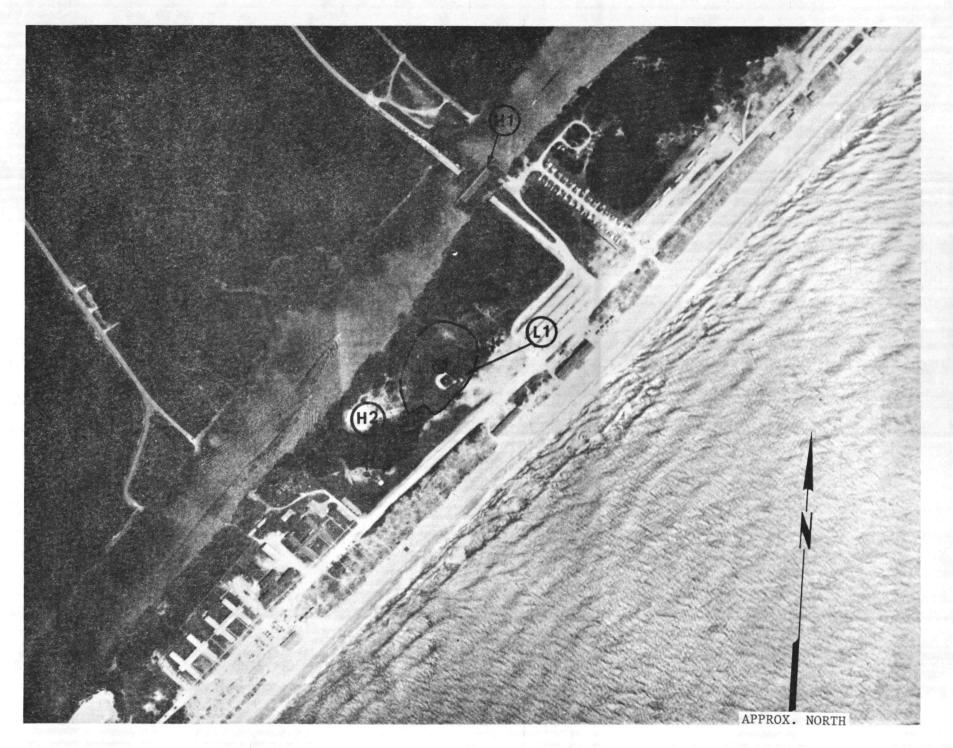
WHEELED: FAIR GOOD

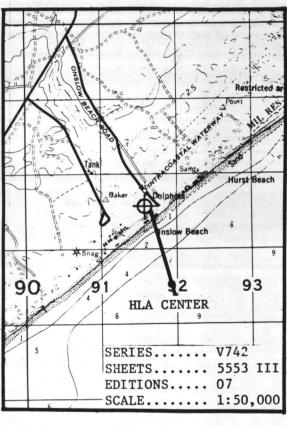
TRACKED: GOOD GOOD

14) REMARKS: ADMINISTRATIVE LANDING ZONE. LOCATED IN TRAINING AREA E.

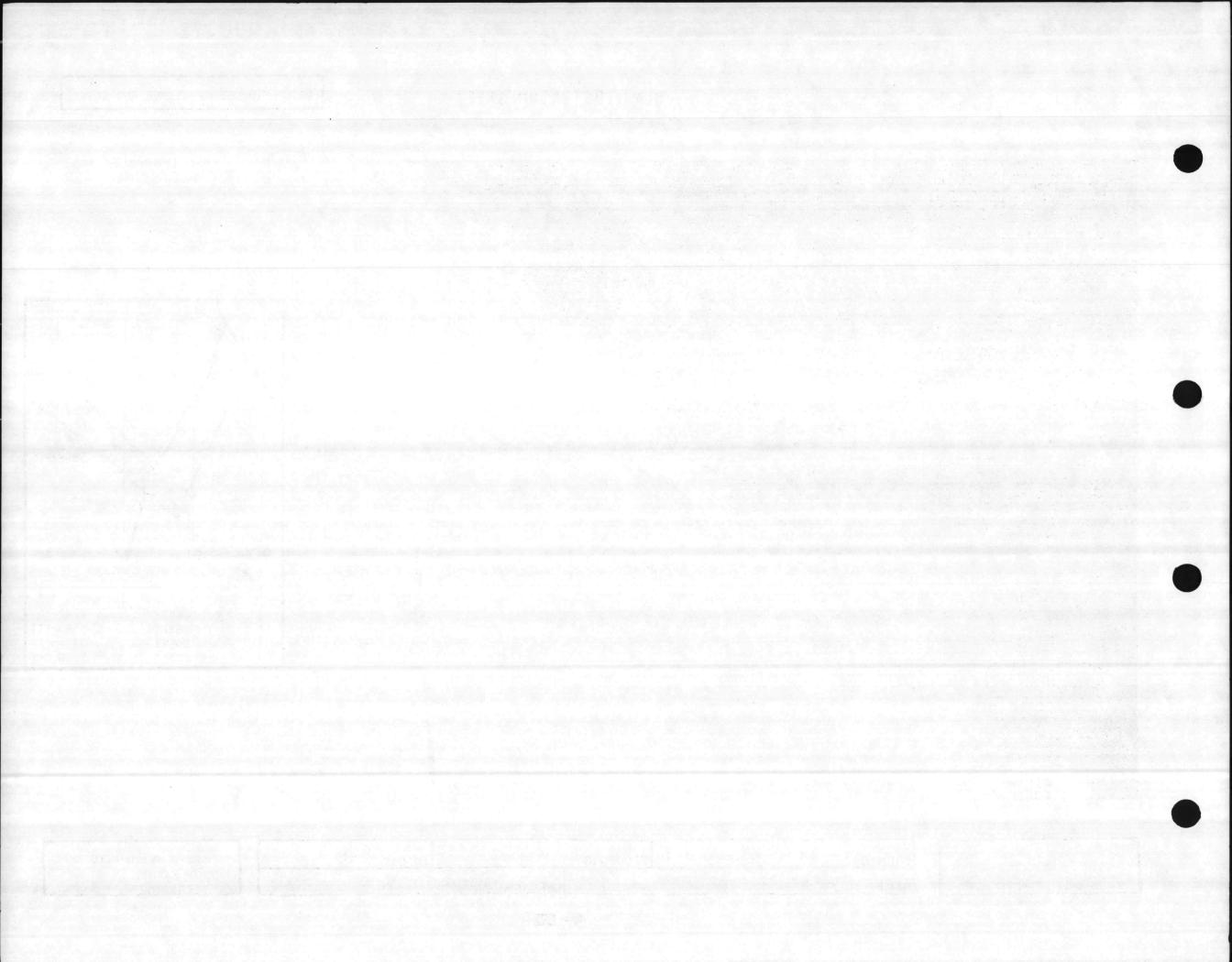
EXTERNAL LIFT NOT AUTHORIZED. INTRACOASTAL WATERWAY TO THE W OF LZ. ONLY

MARKED WATER CROSSINGS AND BRIDGES MAY BE USED.





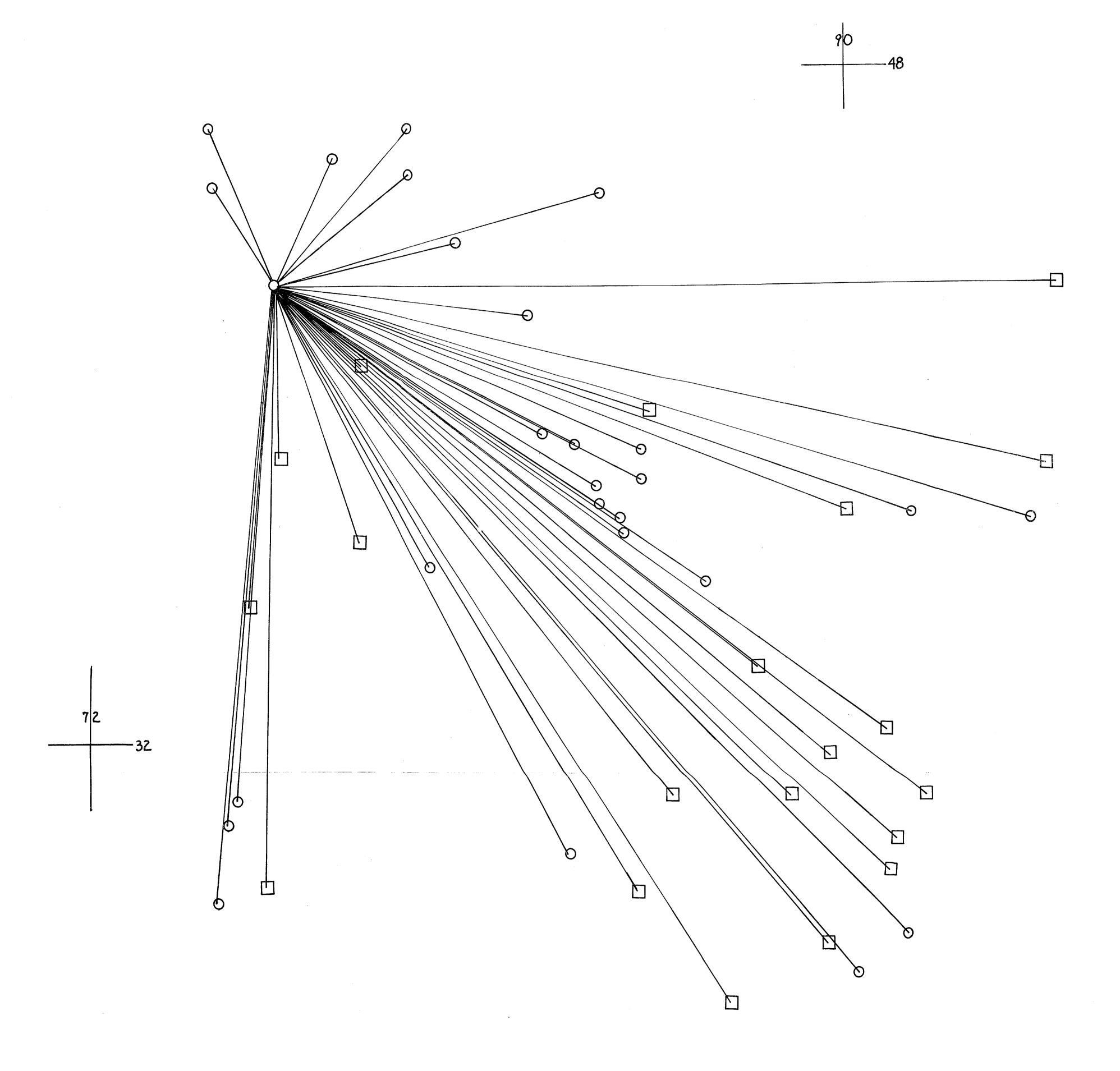
COUNTR	Y UNITED STATES	RECORD ID	0410LM0047	TDI CAT 70610
NAME	RECON NO. 25		LAT/LONG 343410N0771625W	



OVERLAY

1. TLZ AND ALZ LOCATIONS

A T - 5

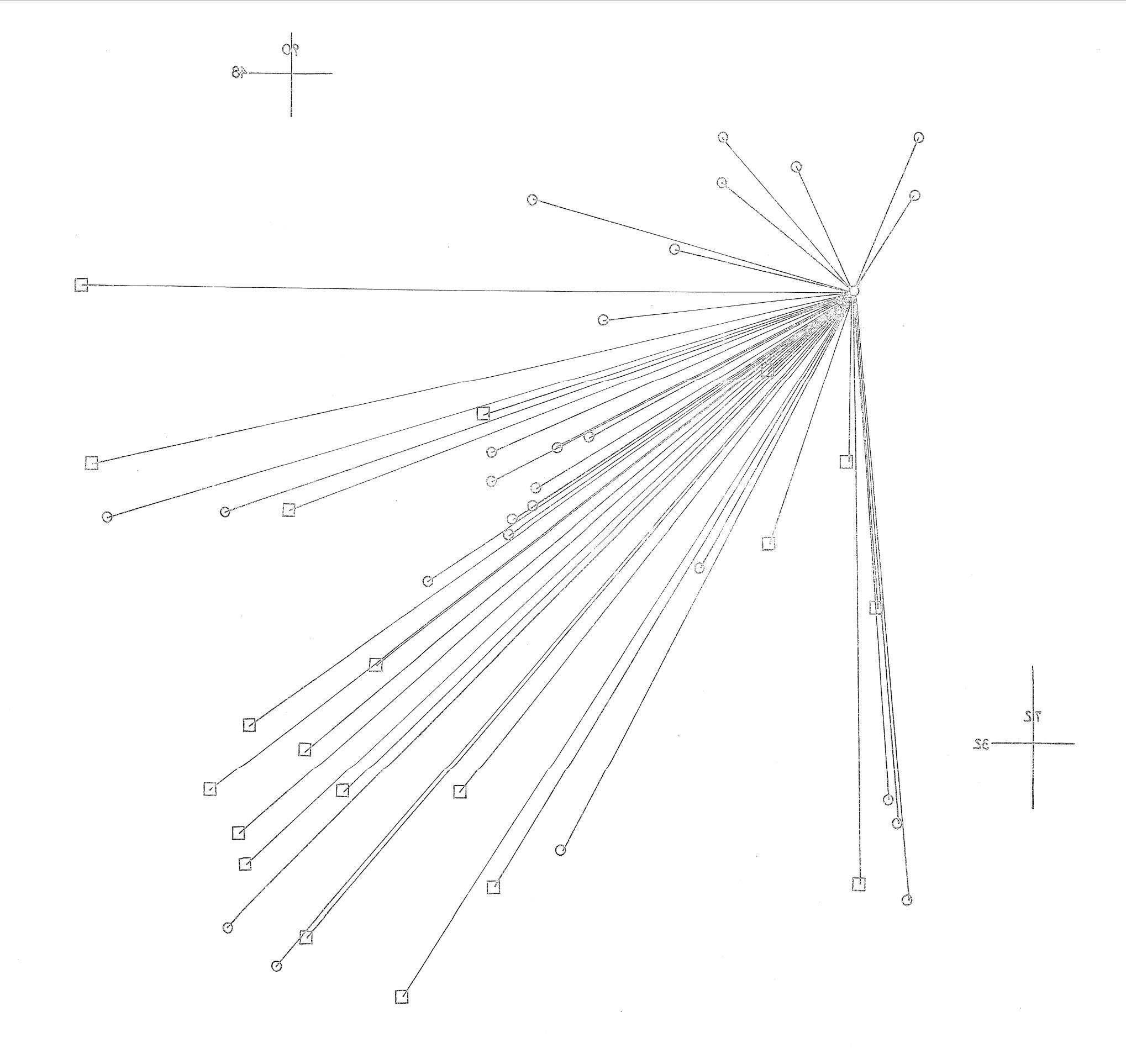


TLZ AND ALZ LOCATIONS

TLZ'S

O ALZ'S

10 JANUARY 85

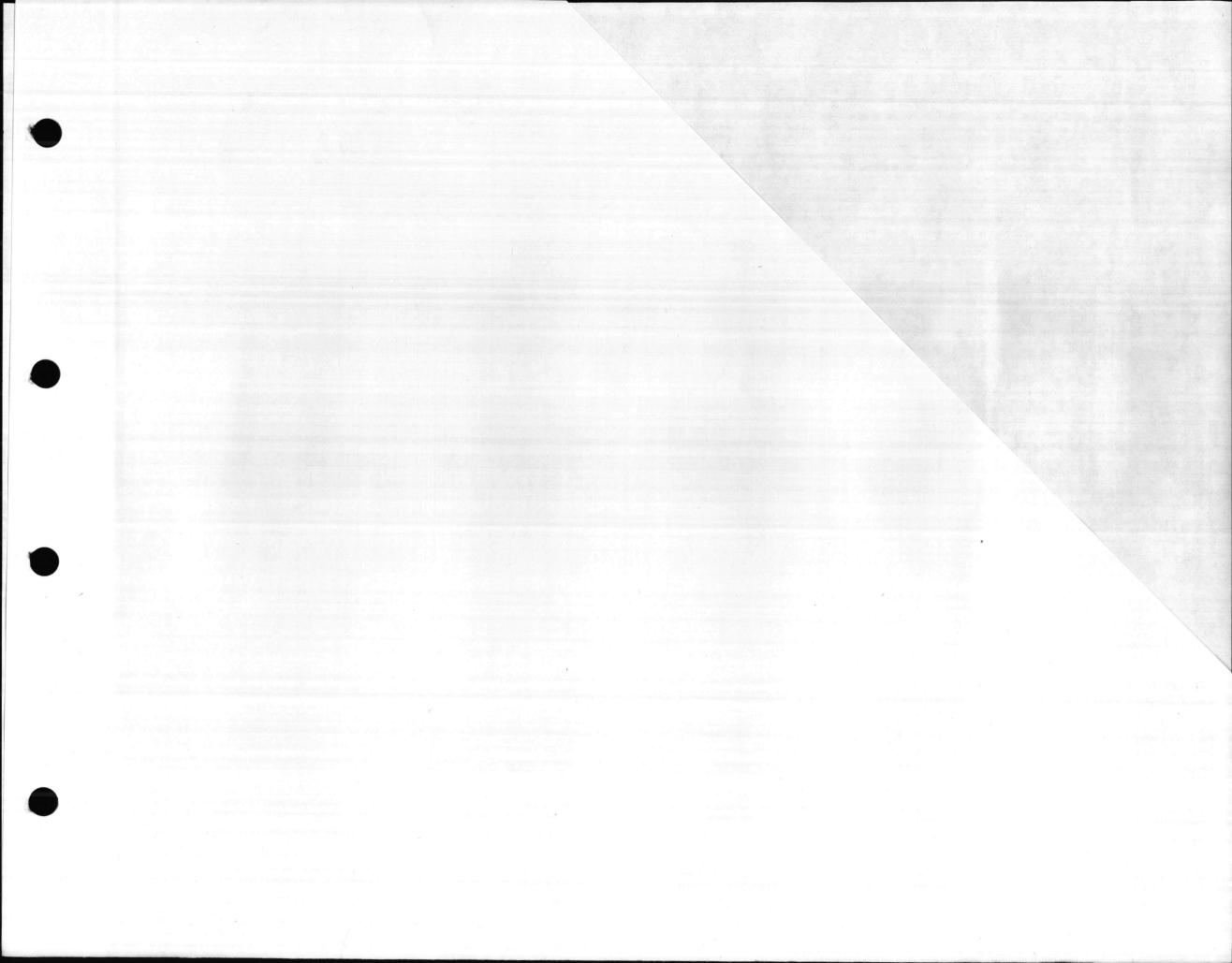


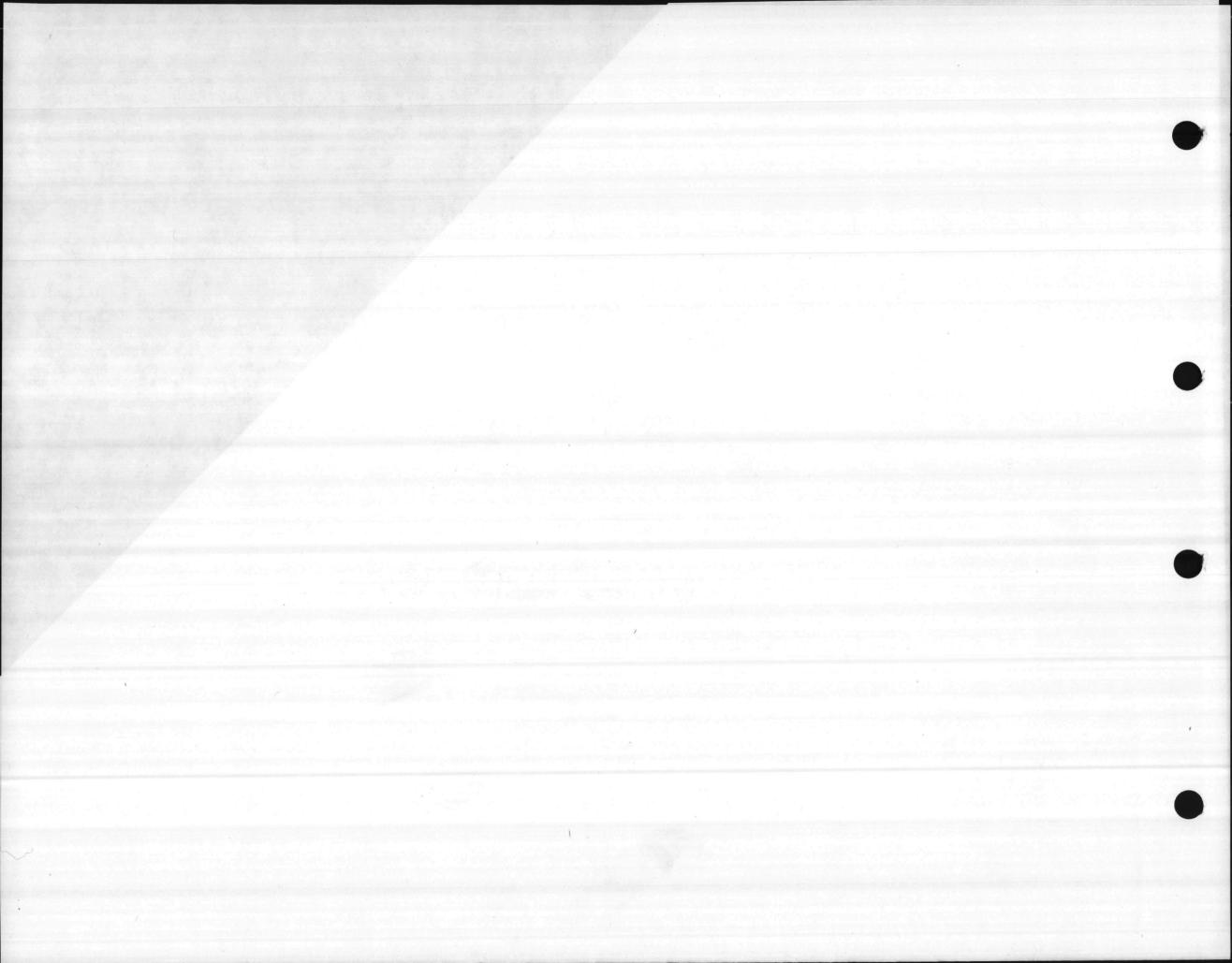
ILZ AND ALZ LOCATIONS

TLZ'S

O ALZ'S

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CHAPTER 5

BEACH STUDY



- 1. PURPOSE. THIS BEACH STUDY IS CONSTRUCTED TO AID THE TACTICAL UNIT COMMANDER IN PLANNING AMPHIBIOUS OPERATIONS AT ONSLOW BEACH. THE FIRST TWO GRAPHICS DEPICT THE GENERAL TERRAIN ZONES. THE LAST THREE GRAPHICS IDENTIFY HAZARDS TO NAVIGATION, LANDING OBSTRUCTIONS AND EXITS FROM THE BEACH.
- 2. DESCRIPTION. ONSLOW BEACH IS LOCATED ON THE CAMP LEJEUNE MILITARY
 RESERVATION ALONG THE COAST OF NORTH CAROLINA. IT IS APPROXIMATELY 28
 NAUTICAL MILES WEST SOUTHWEST OF MOREHEAD CITY AND APPROXIMATELY 39 NAUTICAL
 MILES NORTH NORTHEAST OF WILMINGTON. ONSLOW BEACH IS BOUNDED BY THE NEW
 RIVER INLET ON THE LEFT FLANK AND BROWNS INLET ON THE RIGHT FLANK. IT IS
 A LONG, STRAIGHT, SANDY BEACH USED PRIMARILY BY THE U.S. NAVY AND MARINE
 CORPS FOR AMPHIBIOUS TRAINING AND EXERCISES.

3. BEACH DATA.

- A. BEACH NAME: ONSLOW BEACH, CAMP LEJEUNE, NORTH CAROLINA
- B. B.E. NUMBER/TDI CATEGORY CODE: 0410LM0060/70550
- C. LOCATION:

CENTER BEACH COORDINATES: GEO: 343340N0771700W UTM: 18STP906265

LEFT FLANK COORDINATES: GEO: 343155N0772020W UTM: 18STP855235

RIGHT FLANK COORDINATES: GEO: 343545N0771355W UTM: 18STP953303

- D. MAP REFERENCE: CAMP LEJEUNE SPECIAL MAP, SERIES V742, DMATC AND DMAHC EDITION 05, SCALE 1:50,000
 - E. BEACH SHAPE: STRAIGHT
 - F. BEACH LENGTH: APPROXIMATELY 12,000 METERS

G.	BEACH WIDTH:	LEFT THIRD	CENTER THIRD	RIGHT THIRD
	AVERAGE TOTAL BEACH	78 METERS	79 METERS	97 METERS
	AVERAGE BACK- SHORE	44 METERS	42 METERS	49 METERS
н.	BEACH GRADIENTS:	LEFT THIRD	CENTER THIRD	RIGHT THIRD
		1:4.8	1:5.3	1:5.8

I. APPROACH CONDITIONS: THE OFFSHORE APPROACH TO ONSLOW BEACH IS CLEAR.

THE NEARSHORE APPROACH CONDITIONS VARY FROM CLEAR TO PARTIALLY CLEAR

DEPENDING ON FLOATING SANDBARS. THIS BEACH CONTAINS NO ONSHORE

FORTIFICATIONS.

J. BEACH MATERIALS:

NEARSHORE - 80% SAND; 10% MUD; 10% SHELLS FORESHORE - 80% SAND; 10% MUD; 10% SHELLS BACKSHORE - 80% SAND; 10% MUD; 10% SHELLS

K. TERRAIN ZONES AND TRAFFICABILITY: (GRAPHICS 1 & 2)

ZONE	DEFINITION	PERSONNEL	TRACKED	WHEELED
1	BERM	WET: FAIR DRY: POOR	WET: FAIR DRY: FAIR	WET: FAIR DRY: POOR
2	DENSE VEGETATED LOW GROUND (SWAMP)	POOR	POOR	POOR
3	WATER	N/A	FORDABLE	N/A
4	MARSH	POOR	POOR	POOR
5	DESIGNATED HLZ	WET: FAIR DRY: GOOD	WET: FAIR DRY: GOOD	WET: FAIR DRY: GOOD
6	OPEN HIGH GROUND	WET: FAIR DRY: FAIR	WET: FAIR DRY: FAIR	WET: FAIR DRY: FAIR
7	BUILT UP AREA	WET: FAIR DRY: FAIR	WET: FAIR DRY: FAIR	WET: FAIR DRY: FAIR

- L. <u>WEATHER</u>: GENERAL WEATHER INFORMATION IS CONTAINED IN CHAPTER 7 (CLIMATOLOGY). REQUESTS FOR FORECASTED WEATHER AND ASTRONOMICAL DATA SHOULD BE ADDRESSED TO MCAS (H), NEW RIVER WEATHER SERVICES.
- M. BEACH/NEARSHORE OBSTRUCTIONS: (GRAPHICS 3, 4 & 5)

B1 - A BUILDING 7.9 METERS LONG AND 9.9 METERS WIDE. IT IS LOCATED APPROXIMATELY 450 METERS FROM BEACH CENTER ON A BEARING OF 275 DEGREES (TRUE). NOTE: N1 IS ATTACHED TO B1.

B2 - A BUILDING APPROXIMATELY 4 METERS LONG AND 4 METERS WIDE. IT IS

LOCATED APPROXIMATELY 1100 METERS FROM BEACH CENTER ON A BEARING OF 084 DEGREES (TRUE).

N1 - A PIER APPROXIMATELY 193 METERS LONG AND 6.6 METERS WIDE. IT IS LOCATED APPROXIMATELY 450 METERS FROM BEACH CENTER ON A BEARING OF 265 DEGREES (TRUE). NOTE: N1 IS COMMONLY REFERRED TO AS RISELEY PIER.

N.	TRAFFICABILITY	DRY	WET
	PERSONNEL	FAIR	GOOD
	TRACKED	FAIR	GOOD
	WHEELED	FAIR	POOR

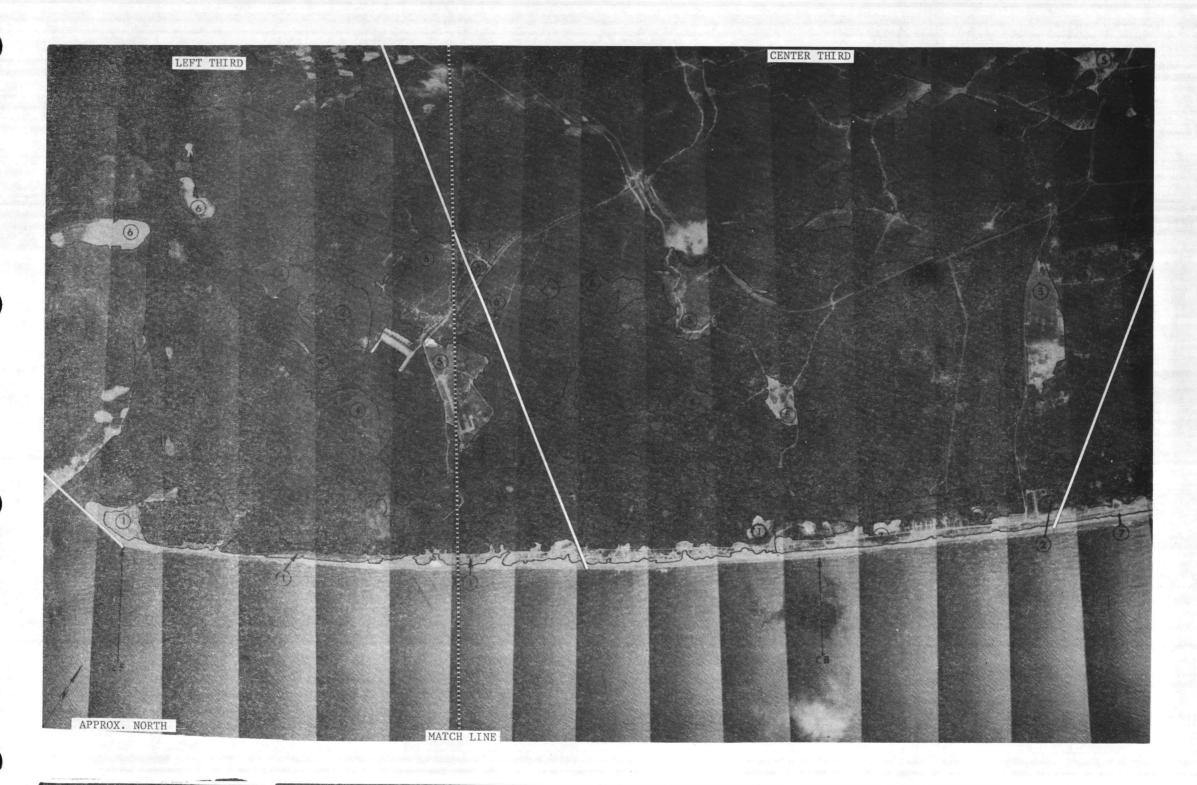
O. BEACH EXITS: (GRAPHICS 3, 4 & 5)

- E1 LOCATED APPROXIMATELY 3400 METERS LEFT OF BEACH CENTER. IT IS
 AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 8 METERS WIDE.
- E2 LOCATED APPROXIMATELY 1050 METERS LEFT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 2 METERS WIDE.
- E3 LOCATED APPROXIMATELY 400 METERS LEFT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 10 METERS WIDE.
- E4 LOCATED APPROXIMATELY 700 METERS RIGHT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 2 METERS WIDE.
- E5 LOCATED APPROXIMATELY 900 METERS RIGHT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 1.5 METERS WIDE.
- E6 LOCATED APPROXIMATELY 1550 METERS RIGHT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 7 METERS WIDE.
- E7 LOCATED APPROXIMATELY 1565 METERS RIGHT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 4 METERS WIDE.
- E8 LOCATED APPROXIMATELY 1580 METERS RIGHT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 2 METERS WIDE.
- E9 LOCATED APPROXIMATELY 2200 METERS RIGHT OF BEACH CENTER. IT IS AN UNSURFACED GRADED EARTH ROAD APPROXIMATELY 2 METERS WIDE.

- P. <u>SURF AND TIDAL INFORMATION</u>: ONSLOW BEACH HAS SPILLING WAVES THAT APPROACH THE BEACH ON A DIRECT ANGLE. FOR SPECIFIC AND DETAILED TIDAL DATA, CONTACT WEATHER SERVICES, MCAS (H), NEW RIVER.
- Q. REMARKS: ALL MEASUREMENTS AND DISTANCES ARE APPROXIMATE. MATTING IS
 RECOMMENDED WHEN BEACH IS DRY. CROSS-COUNTRY MOVEMENT FOR TRACKED AND
 WHEELED VEHICLES IS RESTRICTED TO MAIN ROADS AND EXISTING TRAILS DUE TO
 GEOGRAPHIC AND ENVIRONMENTAL RESTRAINTS.

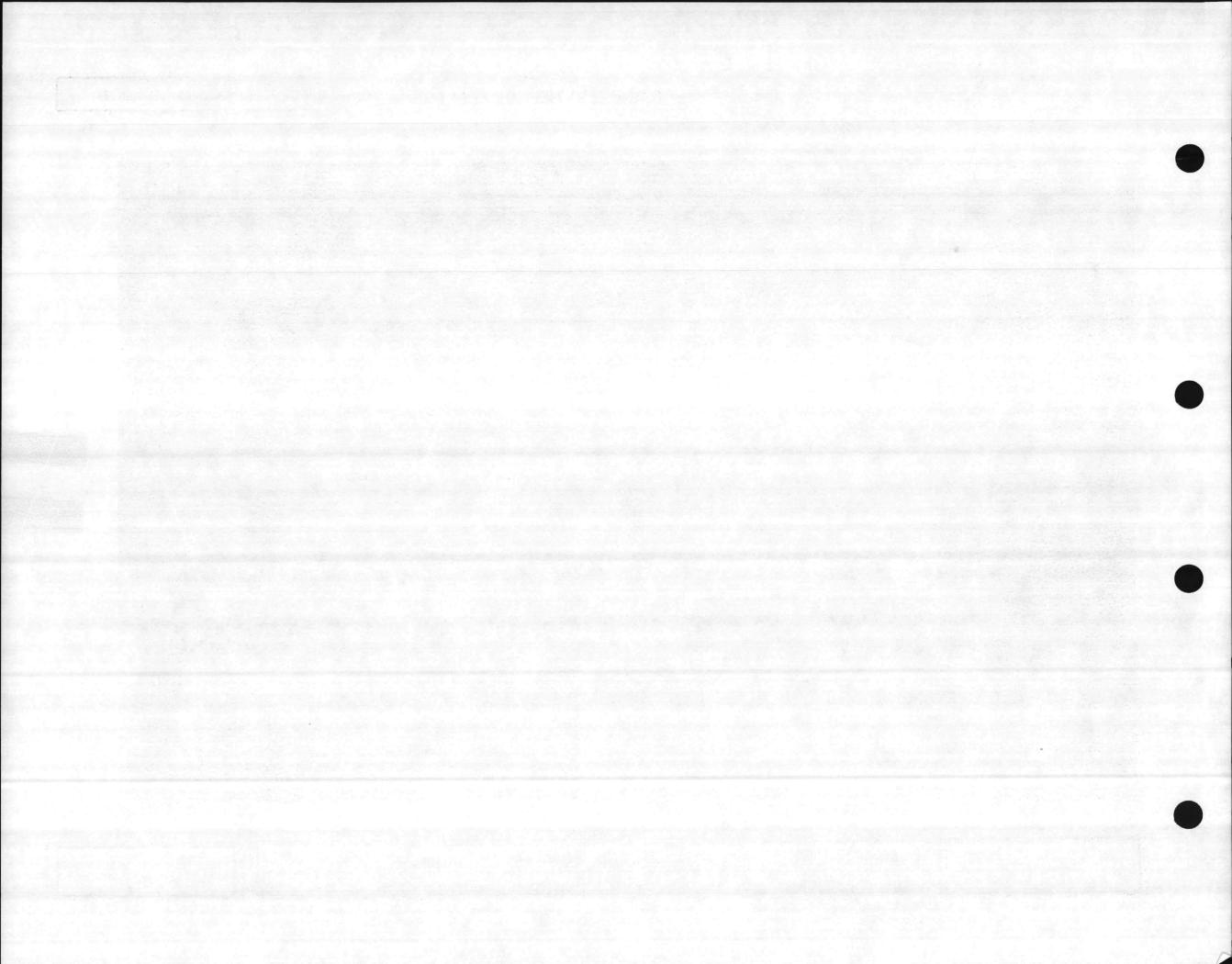
BEACH ILLUSTRATION SHEET

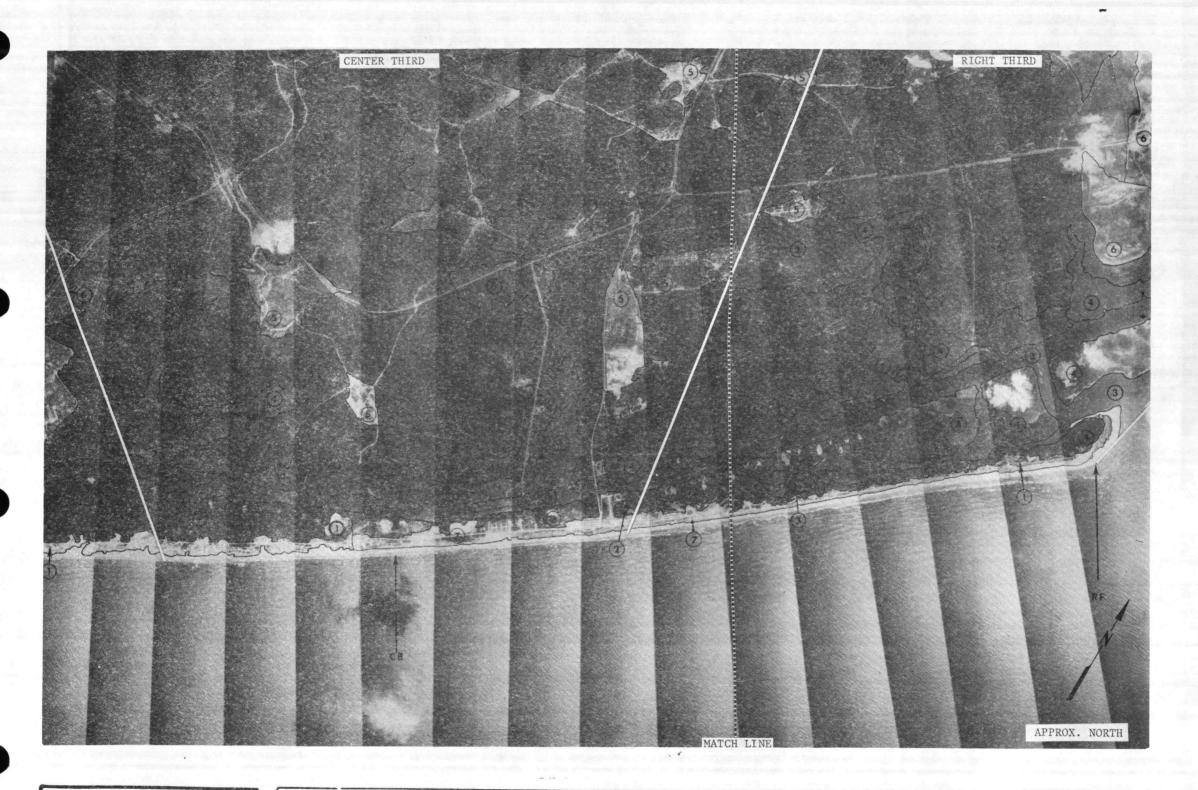
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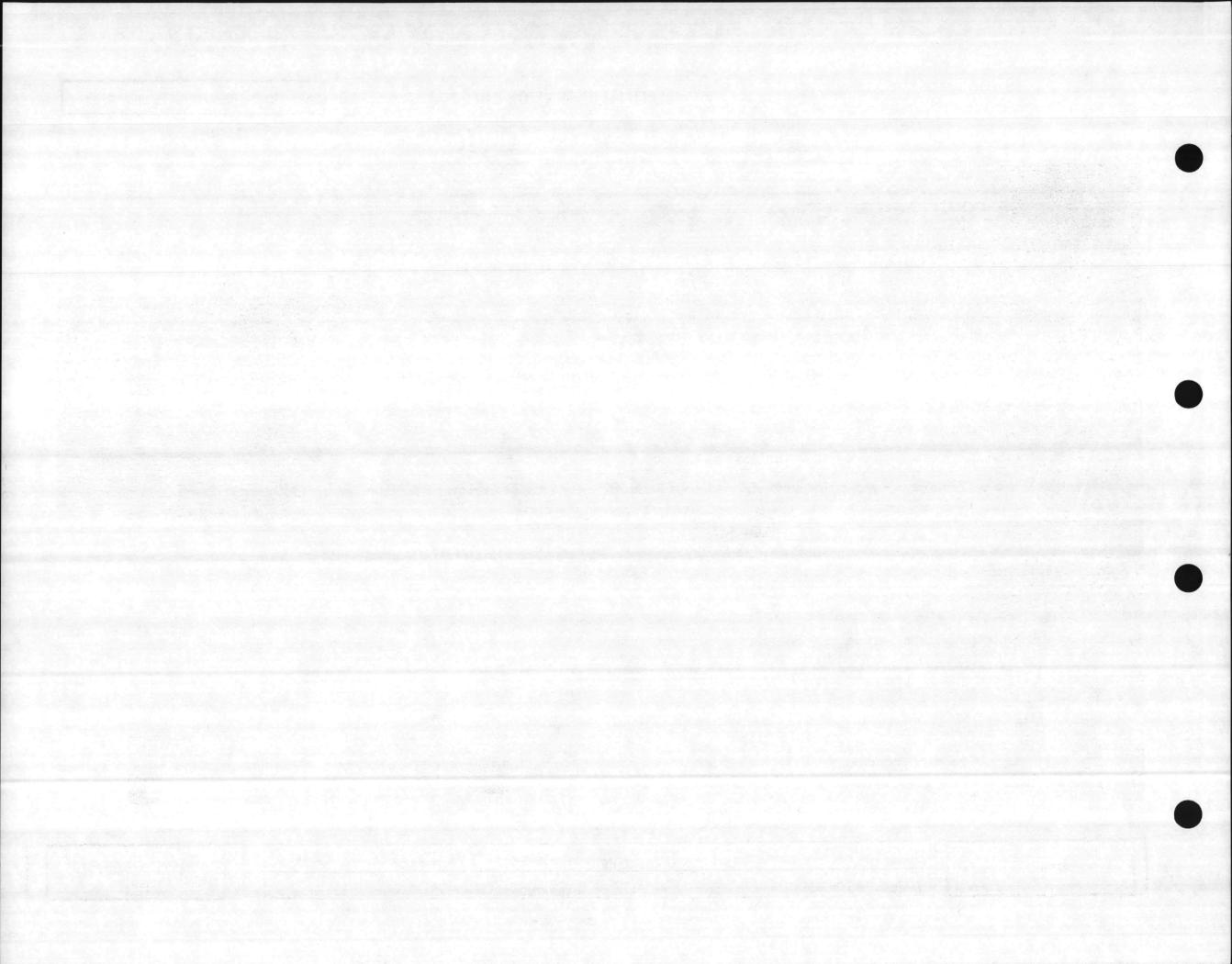
GRAPHICS 1

COUNTRY UNITED STATES	RECORD ID	0410LM0060	TDI CAT 70550
NAME ONSLOW BEACH		LAT/LONG	343340N0771700W



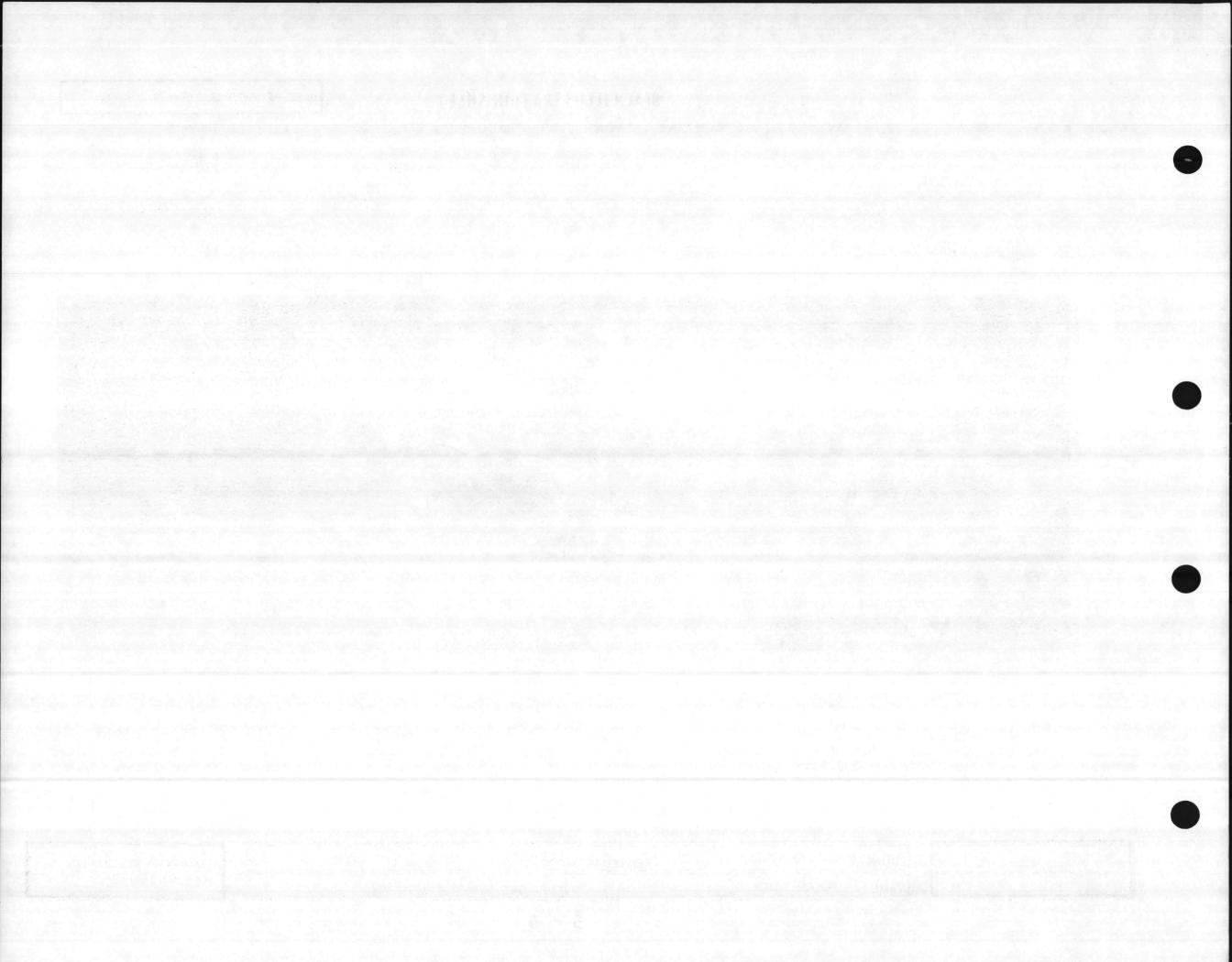


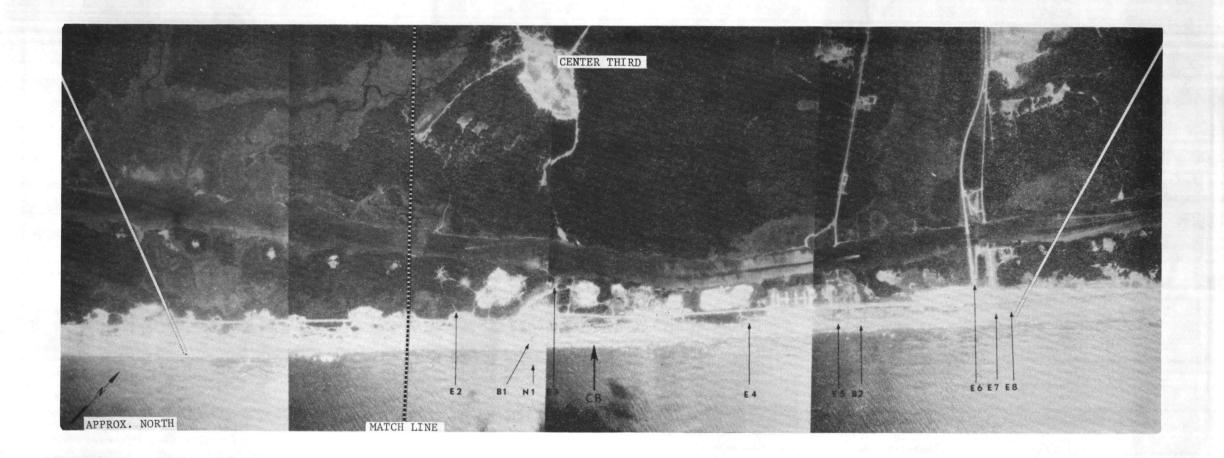
COUNTRY UNITED STATES	RECORD ID	0410LM0060	TDI CAT	70550
NAME ONSLOW BEACH		LAT/LONG	343340N0771700W	ringu. • • • programme programmed Andropolitical en e." pr



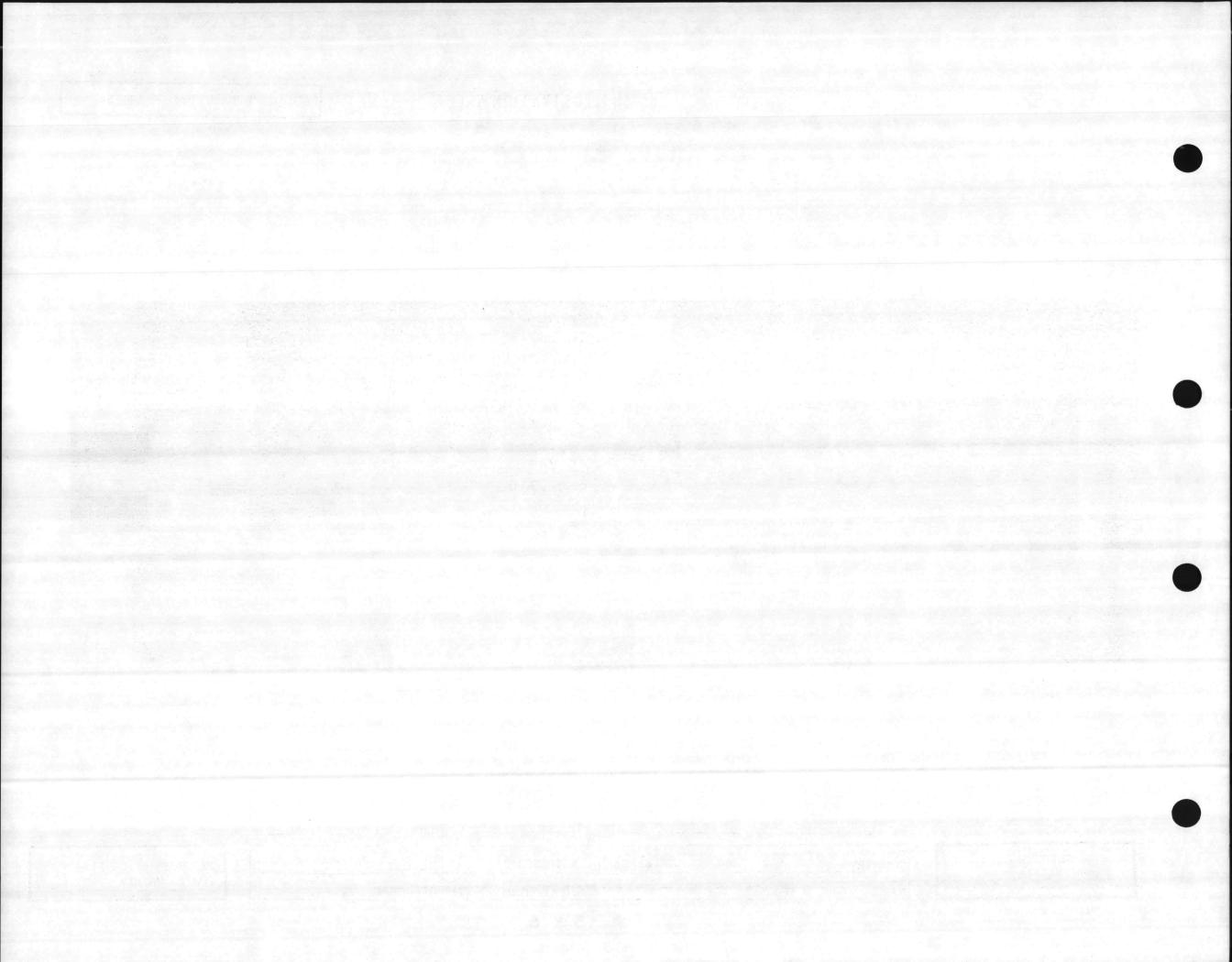


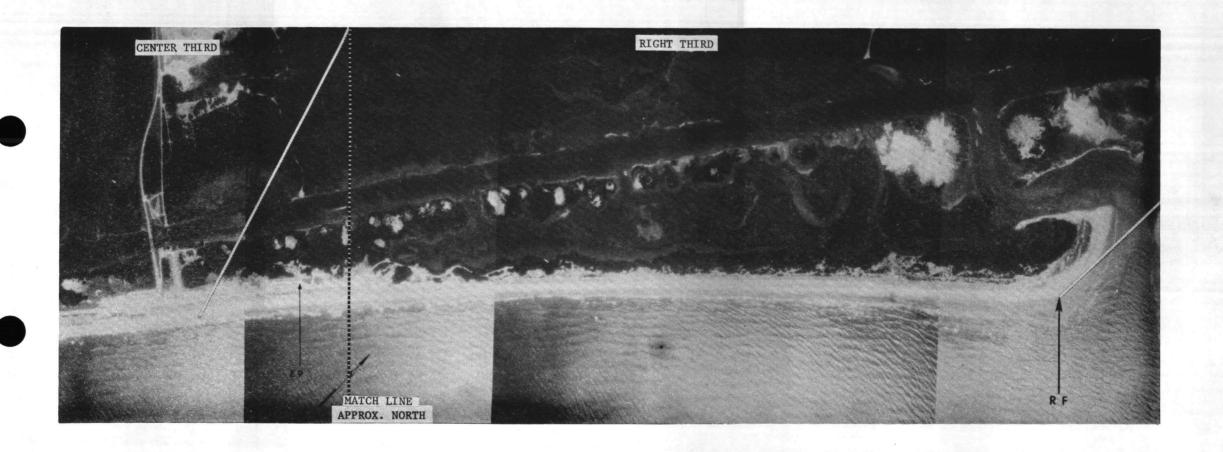
COUNTRY	UNITED STATES	RECORD ID	0410LM0060	TDI CAT 70550
NAME	ONSLOW BEACH	e maen y Per en Mondi en	LAT/LONG	343340N0771700W



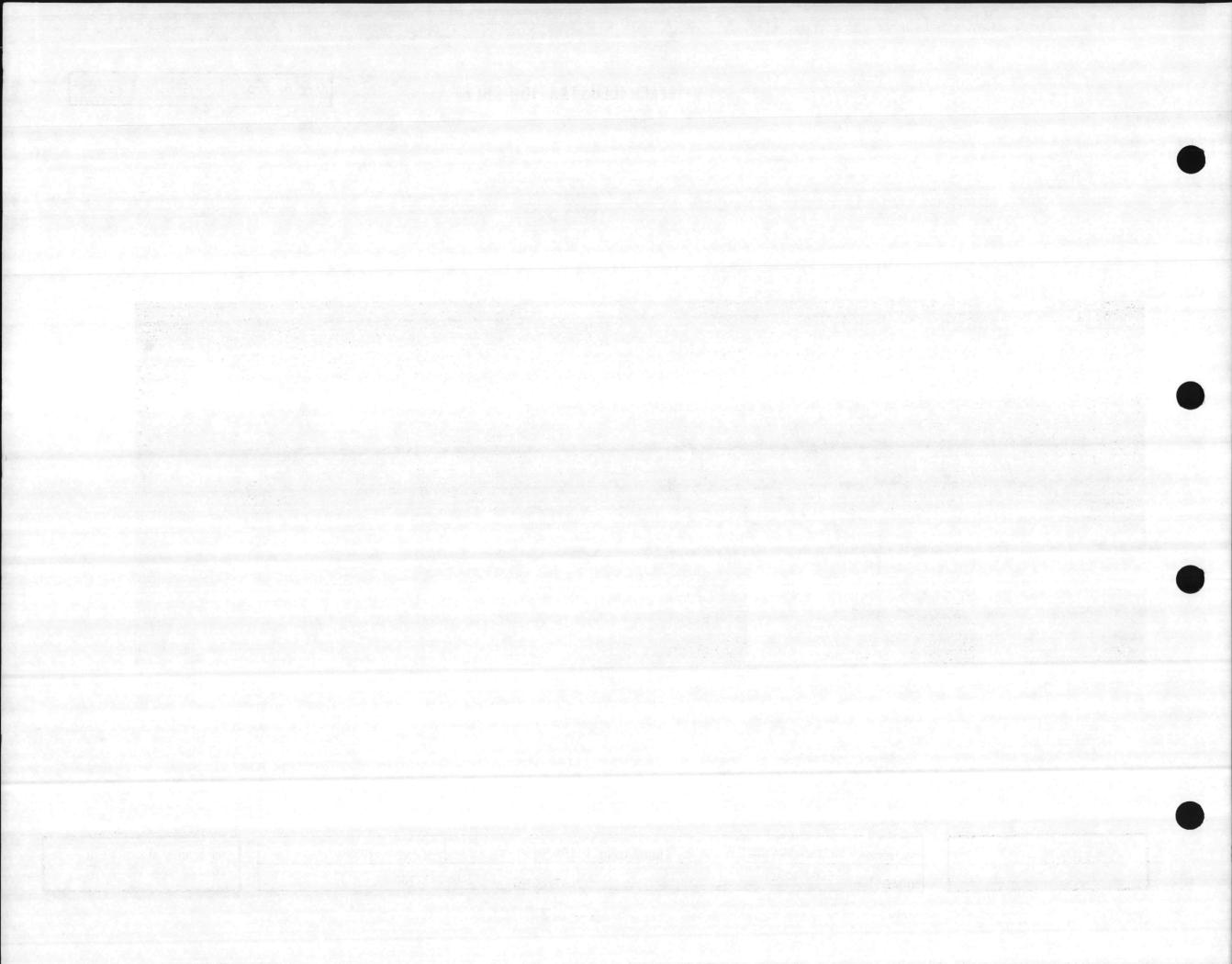


COUNTRY	, UNITED STATES	RECORD ID	0410LM0060	TDI CAT	70550
NAME	ONSLOW BEACH	See a service	LAT/LONG	343340N0771700W	obdies different en gen



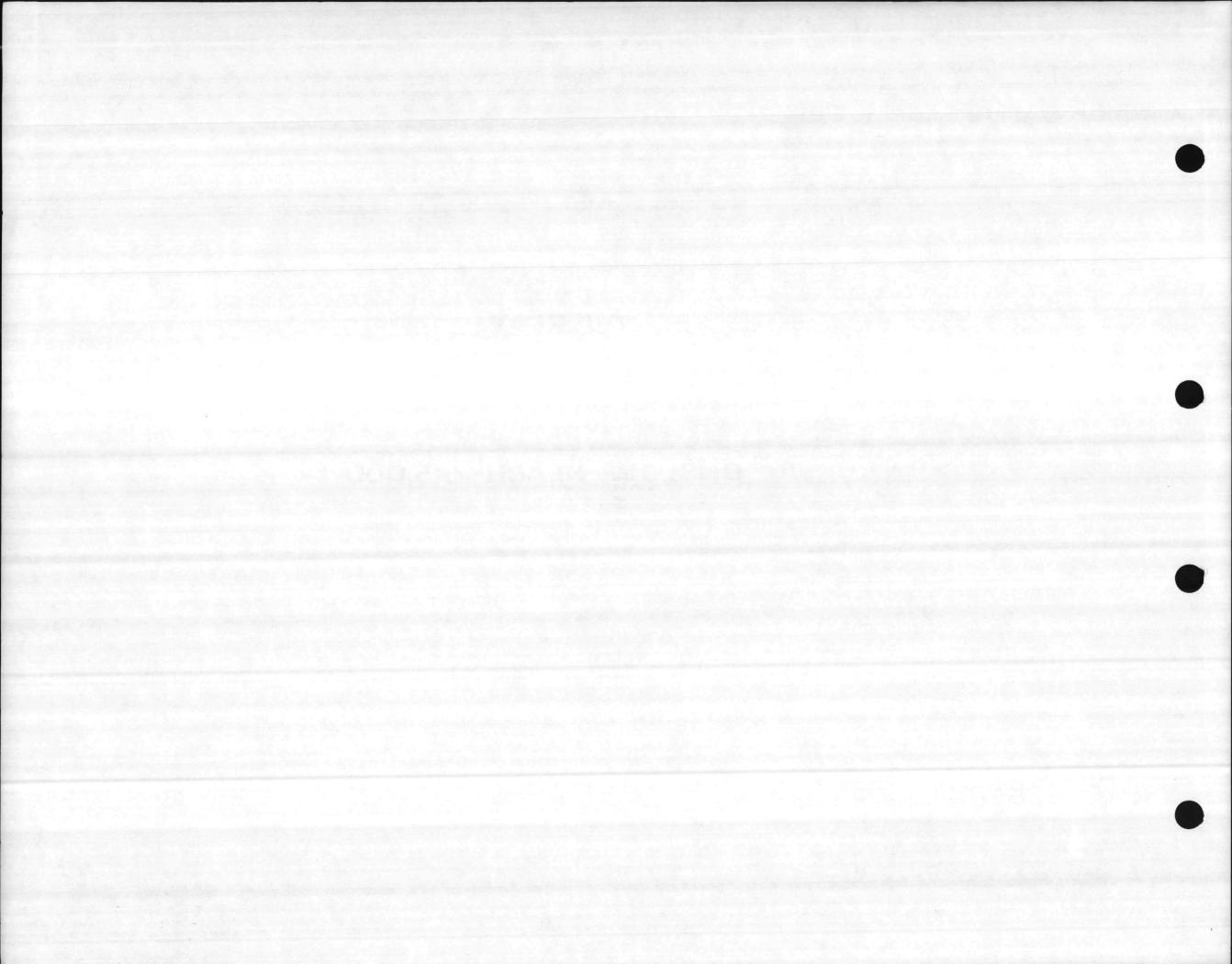


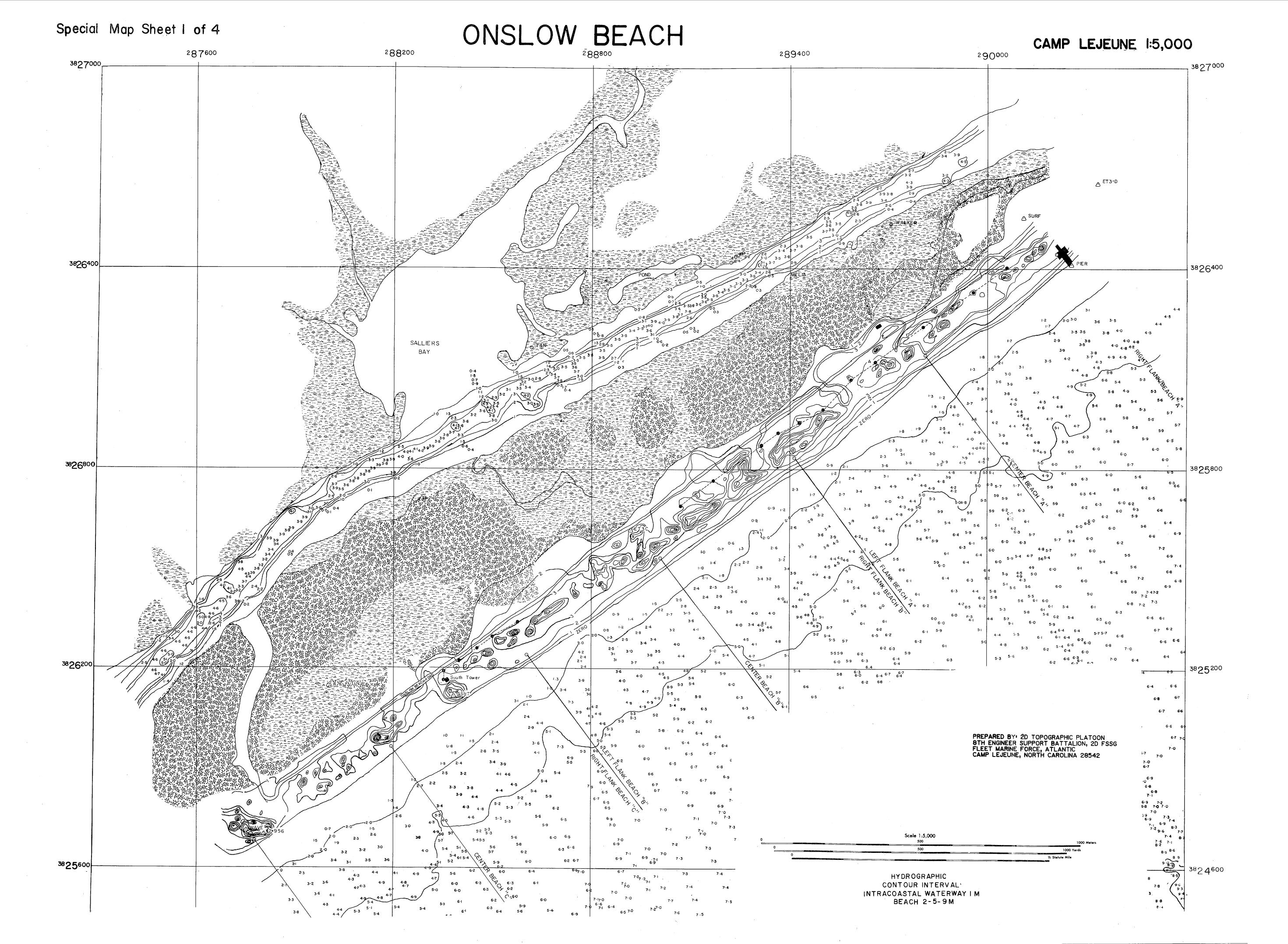
COUNTRY	UNITED STATES	RECORD ID 0410LM0060	TDI CAT 70550	
NAME	ONSLOW BEACH	LAT/LONG	343340N0771700W	

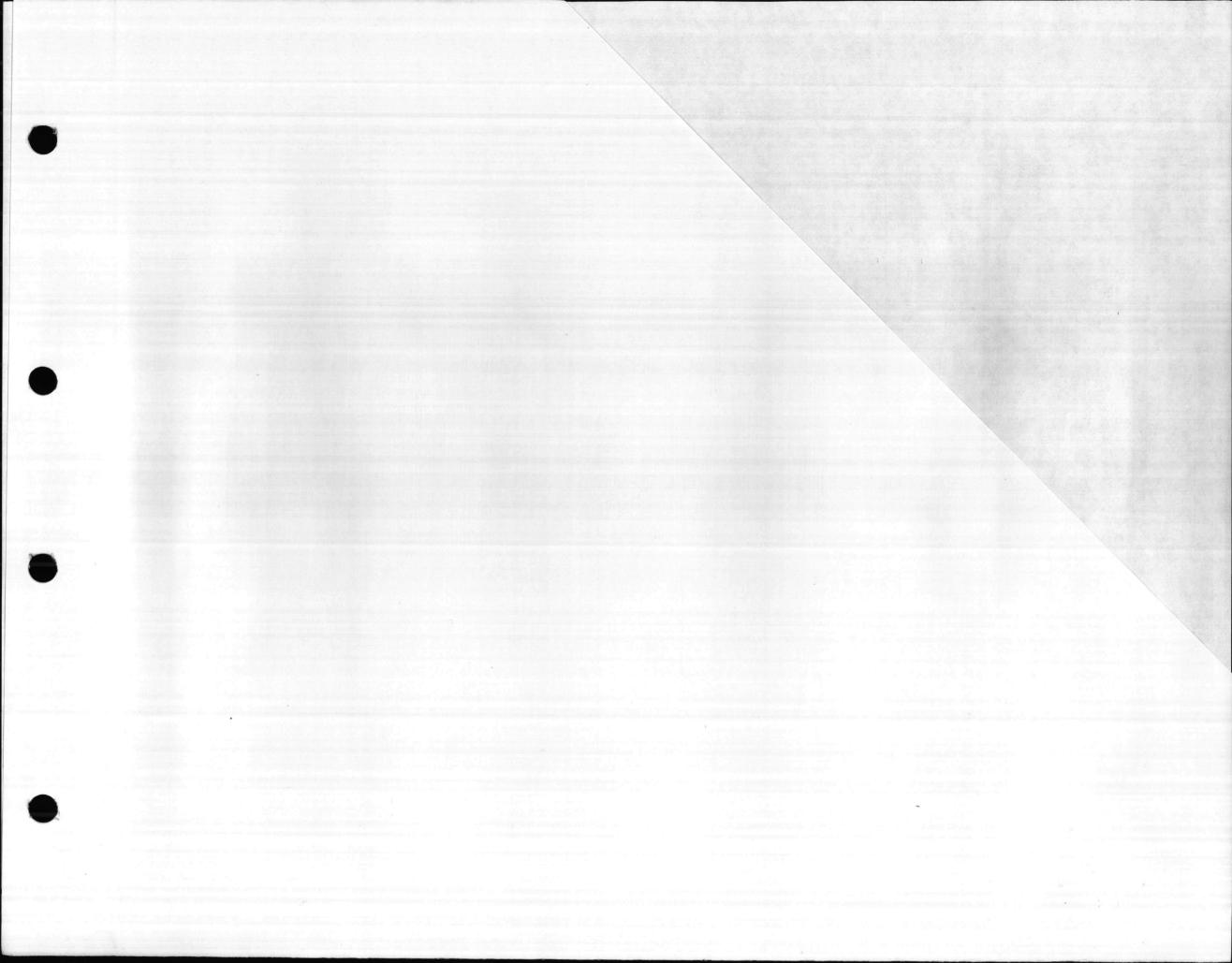


OVERLAY

1. ONSLOW BEACH 1:5,000







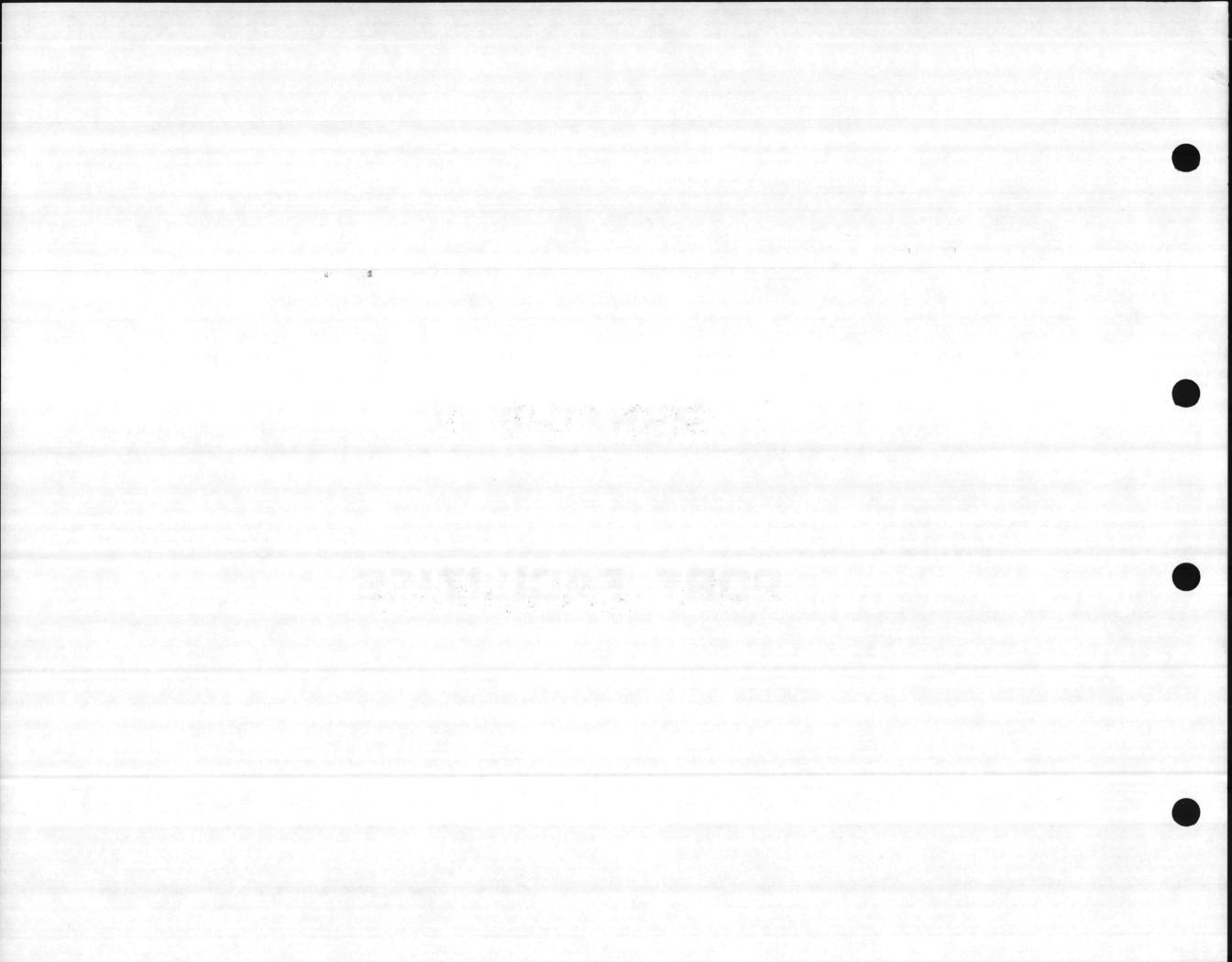


CHAPTER 6

TRANSSHIPMENT POINTS

SECTION 1

PORT FACILITIES



PORT FACILITIES

- 1. <u>PURPOSE</u>. THE PURPOSE OF THIS STUDY IS TO FAMILIARIZE TACTICAL UNIT COMMANDERS WITH THE FACILITIES, CAPABILITIES AND CAPACITIES OF THE MAJOR DEEP WATER PORTS AVAILABLE FOR THE MOVEMENT OF PERSONNEL AND EQUIPMENT FROM MCB, CAMP LEJEUNE.
- 2. <u>DESCRIPTION</u>. MARINE CORPS BASE CAMP LEJEUNE IS LOCATED 40 MILES WEST OF BOTH MOREHEAD CITY AND RADIO ISLAND PORTS, AND 52 MILES NORTHEAST OF WILMINGTON PORT. THIS PROXIMITY TO PORT FACILITIES ENABLES UNIT COMMANDERS TO RAPIDLY DEPLOY PERSONNEL AND EQUIPMENT BY SEA. THESE PORTS HAVE BOTH STAGING AND TRANSIT SHEDS THAT CAN BE USED FOR TEMPORARY BILLETING.

A. MOREHEAD CITY PORT FACILITY.

(1) MAP REFERENCE: SHEET 5653 II

SERIES V742

EDITION CMPSPC 06

- (2) B.E. NO./TDI CATEGORY CODE: 0410LM0070/47400
- (3) LOCATION: GEO: 344300N0762400W UTM: 18SUP4641
- (4) HELICOPTER LANDING AREA: HELICOPTER LANDING AREA ANNOTATION 15
- (5) FACILITIES/STORAGE AREAS: ANNOTATIONS 3, 4 AND 7 TRANSIT BUILDINGS*

(TOTAL AREA 342,500 SQ FT)

ANNOTATIONS 5 AND 17 POL STORAGE

ANNOTATIONS 6 AND 9 WAREHOUSES (TOTAL AREA 496,

550 SQ FT)

ANNOTATION 13 ASPHALT BY-PRODUCT

ANNOTATIONS 14, 17, 18, 20 AND 21 OPEN STORAGE

PILES (TOTAL AREA 14 ACRES)

ANNOTATION 19 HARBOR MASTER BUILDING

* STAGING AREA TO THE NORTH AND SOUTH OF ANNOTATION 7

(6) CAPACITY: 3,000,000 TONS PER YEAR

3,000 TONS PER HOUR

106,000 TONS STORAGE (OPEN AND COVERED STORAGE)

(7) BERTHING: ANNOTATION 1 QUAY (LENGTH 792.5M)

ANNOTATION 8 QUAY (LENGTH 411.5M)

ANNOTATION 10 QUAY (LENGTH 305M USED FOR DEEP WATER BULK HANDLING

FACILITY)

(8) DRAFT CAPABILTIES: CHANNEL INTO PORT 40 FT

EAST TURNING BASIN 40 FT

WEST TURNING BASIN 35 FT

(9) MECHANICAL HANDLING: ANNOTATION 2 JIB CRANE ON TRACKS (CAPACITY 115 TONS)

ANNOTATION 11 TRANSSHIPMENT CRANE** (CAPACITY 40 LONG

TONS)

ANNOTATION 12 CONVEYER SYSTEM

ANNOTATION 16 JIB CRANE (CAPACITY 115 TONS)

- ** ANNOTATION 11 IS NO LONGER AT THIS FACILITY. IT HAS BEEN MOVED TO
- (10) TIDAL DATA: LOW MEAN -2.9 FT

WILMINGTON PORT FACILITY

HIGH MEAN +3.5 FT

(11) REMARKS: THIS FACILITY HAS 24 HOUR SECURITY AND ALL GATES ARE MANNED.

THE HARBOR IS DREDGED ONCE A YEAR WITH NO RESTRICTIONS TO SHIPPING TRAFFIC

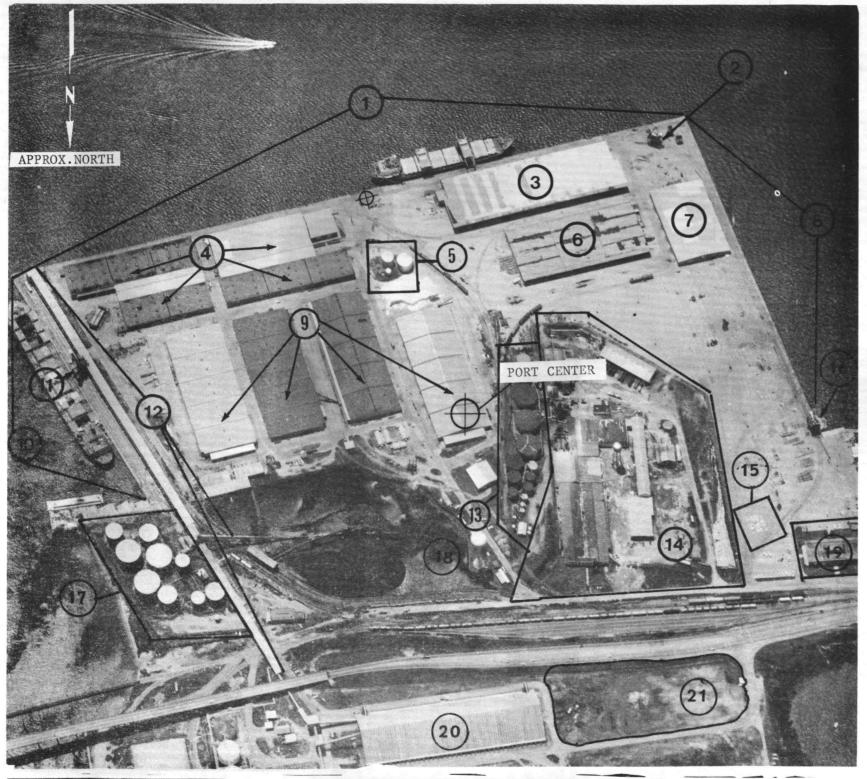
DURING DREDGING. THERE ARE NO OBSTRUCTIONS WITHIN TRAFFIC LANES AND IN

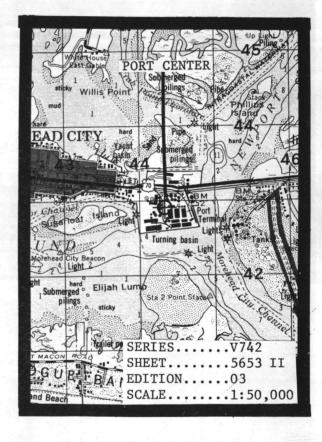
THE PORT FACILITY. THE PORT HAS FORKLIFTS, TRACTORS, TRAILERS AND A PUBLIC

CERTIFIED SCALE.

PORT ILLUSTRATION SHEET

DATE OF PHOTOGRAPHY:01 AUG 84





COUNTR	Y UNITED STATED	RECORD ID	0410LM0070	TDI CAT	47400
NAME	MOREHEAD CITY PORT FACILI	TY	LAT/LONG	344300N0762400	W

B. WILMINGTON PORT FACILITY.

(1) MAP REFERENCE: SHEET 5452 II

SERIES V742

EDITION DMATC 07

- (2) B.E. NO./TDI CATEGORY CODE: 0410LM0071/47400
- (3) LOCATION: GEO: 341300N0792330W UTM: 18STN7899
- (4) HELICOPTER LANDING AREA: HELICOPTER LANDING AREA ANNOTATION 6
- (5) FACILITIES/STORAGE AREAS: ANNOTATION 14 STEEL COMPANY

ANNOTATIONS 10 AND 13 WAREHOUSES (TOTAL AREA

1,132,582 SQ FT)

ANNOTATIONS 7 AND 9 TRANSIT SHEDS (TOTAL AREA

410,000 SQ FT)

ANNOTATIONS 6, 11, AND 12 OPEN STORAGE/STAGING

AREA (TOTAL AREA 72 ACRES)

ANNOTATION 15 R/R CAR STORAGE (TOTAL 370 CARS)

- (6) CAPACITY: 3 TO 6 MILLION METRIC TONS PER YEAR

 10 TO 16 THOUSAND TONS PER HOUR

 STORAGE CAPACITY FLUCTUATES
- (7) BERTHING:* ANNOTATION 1 QUAY (LENGTH 300M)

 ANNOTATION 3 QUAY (LENGTH 547M)

ANNOTATION 5 QUAY (LENGTH 230M)

- * BERTHING AREAS ANNOTATED TOTAL 1077M. THE PORT SERVICE DIRECTORY

 NOTES THAT THERE IS 1840M OF BERTHING AREA. WITHIN THIS STUDY, ONLY THOSE

 AREAS USED BY U. S. NAVAL VESSELS WERE ANNOTATED
- (8) DRAFT CAPABILITIES: CHANNEL AT LOW MEAN IS 38 FT, WHARF CAPABILITY 38 FT
- (9) MECHANICAL HANDLING: ANNOTATION 2 TWO (2) CONTAINER CRANES (CAPACITY 40 LONG TONS)

ANNOTATION 4 GANTRY CRANE (CAPACITY 115 TONS)

ANNOTATION 8 GANTRY CRANE (CAPACITY 225 TONS)

NOTE: 2 MOBILE CRANES (140 TON AND 5 TON) AND 2 GANTRY CRANES ARE LOCATED AT THIS FACILITY

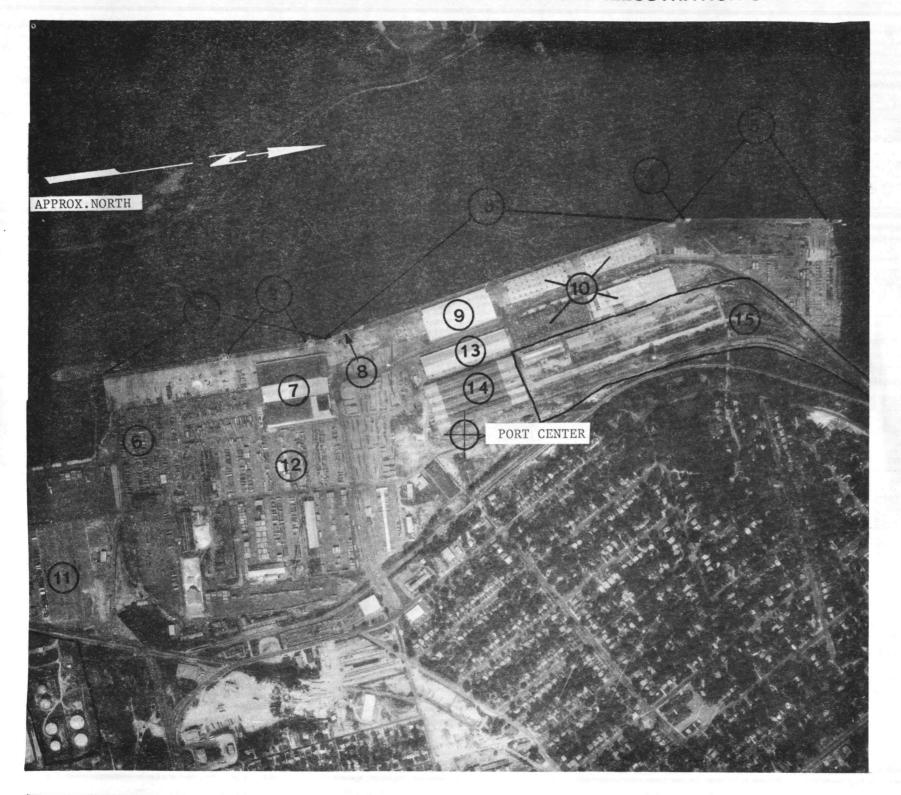
(10) TIDAL DATA: LOW MEAN -2.5 FT

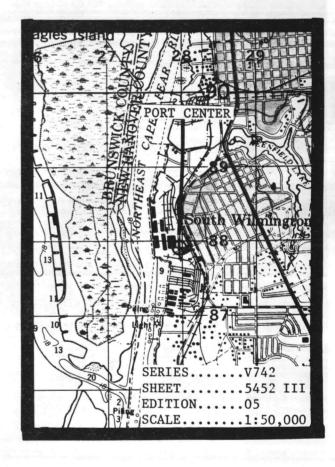
HIGH MEAN +3.0 FT

(11) REMARKS: ACCESS TO THE PORT FROM THE SEA MUST BE GUIDED BY PILOT BOAT UP A 12 MILE STRETCH OF RIVER. PORT SECURITY FORCES ON DUTY AT ALL TIMES.

PORT ILLUSTRATION SHEET

DATE OF PHOTOGRAPHY:01 AUG 84





COUNTRY	UNITED STATES	RECORD ID	0410LM0071	TDI CAT 45400
NAME	WILMINGTON PORT FACILITY	A ROUGH TO A SECOND	LAT/LONG	341300N0792330W

C. RADIO ISLAND.

(1) MAP REFERENCE: SHEET 5653 II

SERIES V742

EDITION CMPSPC 06

- (2) B.E. NO./TDI CATEGORY CODE: 0410LM0072/47400
- (3) LOCATION: GEO: 344230N0764045W UTM: 18SUP4462
- (4) HELICOPTER LANDING AREA: HELICOPTER LANDING AREA ANNOTATION 3
- (5) FACILITIES/STORAGE AREAS: ANNOTATIONS 2, 3 AND 4 OPEN STORAGE/STAGING

AREA

ANNOTATION 5 BLOCK HOUSE

- (6) CAPACITY: UNDETERMINED
- (7) <u>BERTHING</u>: ANNOTATION 1 WHARF* (LENGTH 110M)

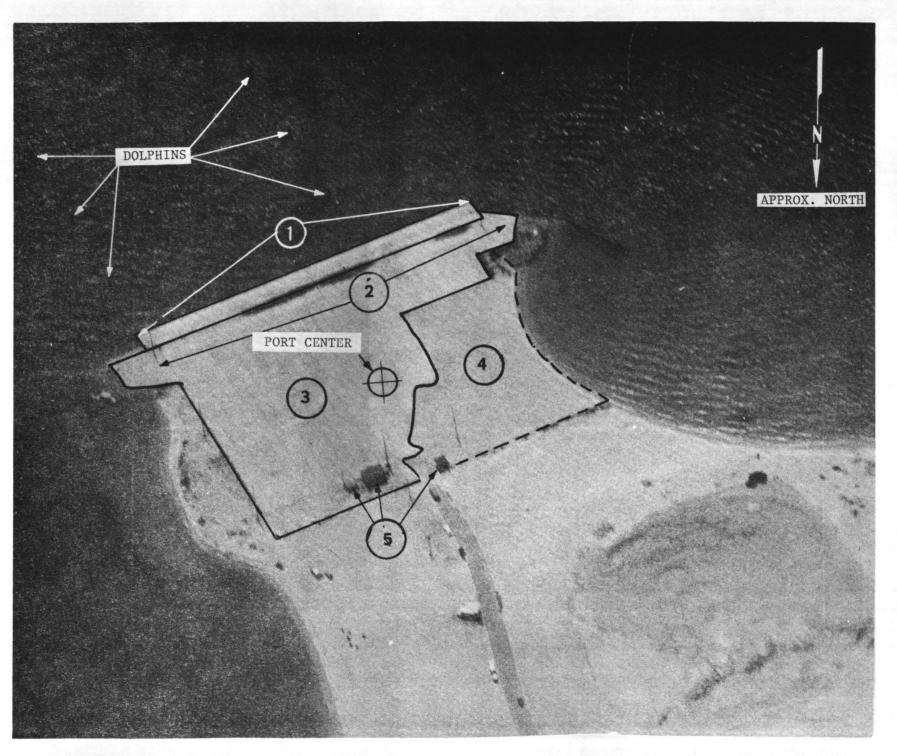
 *3 LST'S PERPENDICULAR TO WHARF, BETWEEN DOLPHINS
- (8) DRAFT CAPABILITES: 18 FT, LOW MEAN
- (9) MECHANICAL HANDLING: NONE
- (10) TIDAL DATA: LOW MEAN -2.9 FT

HIGH MEAN +3.5 FT

(11) REMARKS: RADIO ISLAND IS ACCESSABLE FROM MOREHEAD CITY BY BRIDGE VIA
US 70. THE AREA ANNOTATED IS OWNED BY THE U. S. GOVERNMENT AND IS ONLY USED
FOR EMBARKATION AND DEBARKATION OF TROOPS AND EQUIPMENT. THE BRIDGE CANNOT
SUPPORT HEAVY ARMORED VEHICLES. A FLOATING RAIL SYSTEM IS USED FOR ARMOR
CROSSING. NO MECHANICAL HANDLING IS AVAILABLE WITHIN THE PORT AREA.

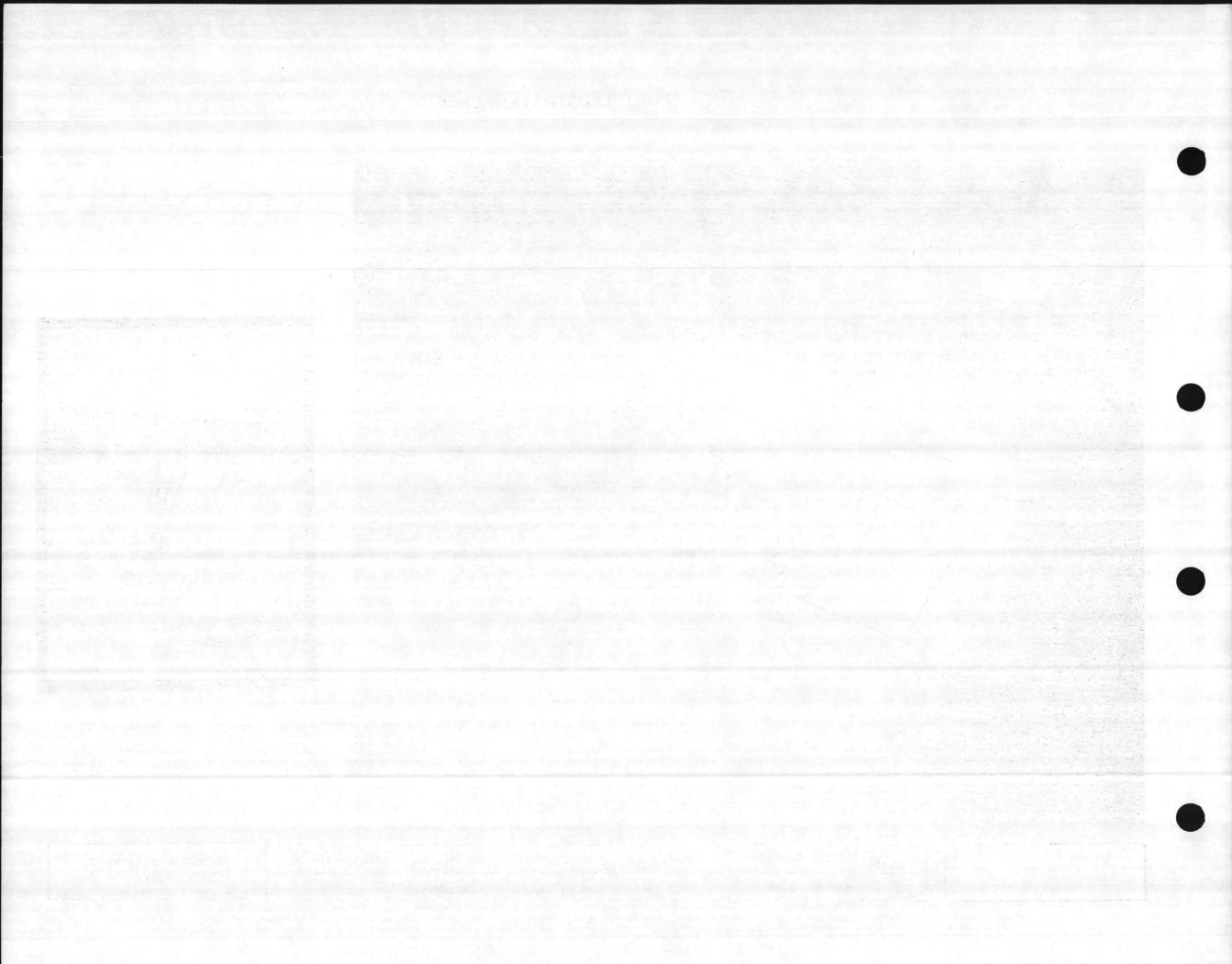
PORT ILLUSTRATION SHEET

DATE OF PHOTOGRAPHY: 01 AUG 84





COUNTRY	UNITED STATES	RECORD ID	0410LM0072	TDI CAT 47400
NAME	RADIO ISLAND		LAT/LONG	344230N0764045W



SECTION 2

AIRFIELDS

MCAS CHERRY POINT

- 1. PURPOSE. THIS AIRFIELD STUDY IS DESIGNED TO PROVIDE THE TACTICAL COMMANDER WITH AN ORIENTATION TO THE AIRFIELD AND ITS MAIN FUNCTIONAL COMPONENTS AS THEY RELATE TO TROOP AND EQUIPMENT TRANSPORT.
- 2. <u>DESCRIPTION</u>. MCAS, CHERRY POINT IS THE HOME OF THE HEADQUARTERS, SECOND MARINE AIRCRAFT WING AND IS LOCATED 69 MILES NORTH NORTHEAST OF WILMINGTON PORT FACILITY, 15 MILES NORTH NORTHWEST OF MOREHEAD CITY PORT FACILITY AND 31 MILES NORTH NORTHEAST OF CAMP LEJEUNE. IT PROVIDES 35,000 LINEAR FEET OF RUNWAY. WITHIN THE SCOPE OF THIS STUDY, THE PRIMARY MISSION OF CHERRY POINT IS TO PROVIDE A MAJOR STAGING AREA AND CLEARING POINT FOR TROOP AND EQUIPMENT TRANSPORT. THE AIRFIELD IS CAPABLE OF SUPPORTING A MAF-SIZED MOVEMENT AND CAN ACCEPT ALL TRANSPORT AIRCRAFT CURRENTLY IN THE U. S. INVENTORY.

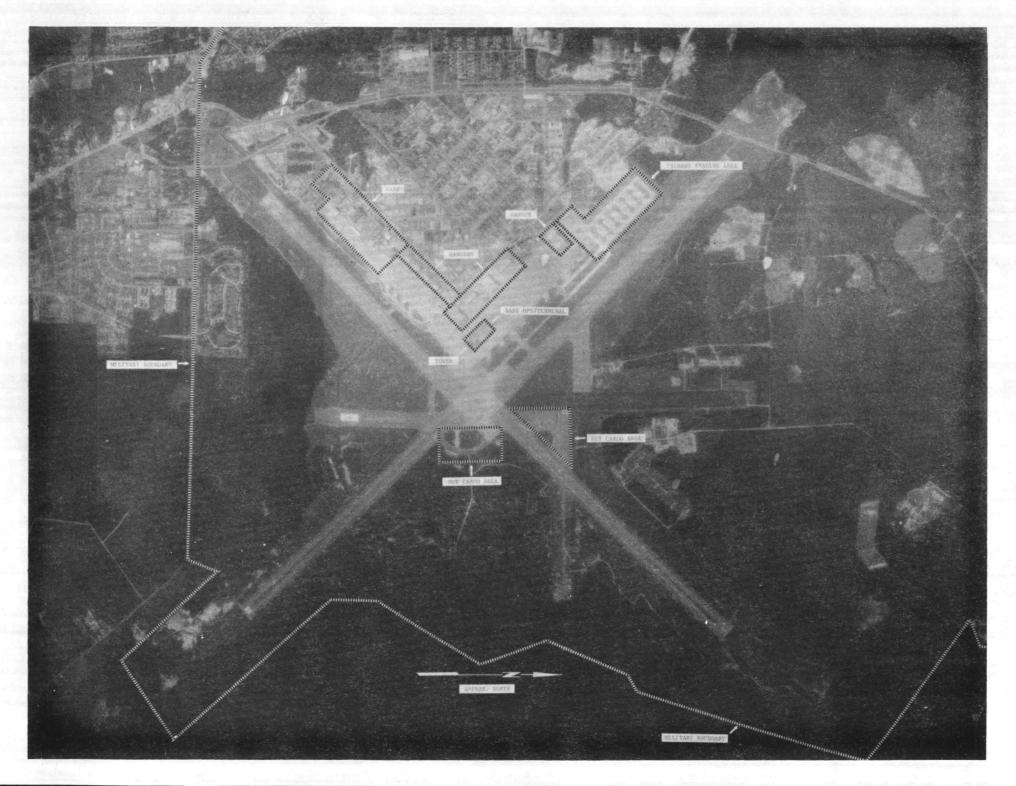
3. AIRFIELD DATA.

- A. NAME: MCAS, CHERRY POINT, N. C. (CUNNINGHAM FIELD)
- B. B.E. NUMBER/TDI CATEGORY CODE: 0410LM0080/80070
- C. LOCATION: GEO: 345400N0765200W UTM: 18SUP28006350
- D. MAP REFERENCE: SHEET 5653 IV, SERIES V742, EDITION DMATC 03, SCALE 1:50,000
- E. <u>AIRFIELD CAPABILITY</u>: CAPABLE OF HANDLING ALL U. S. CIVIL AND MILITARY AIRCRAFT
- F. AIRFIELD STATUS: OPERATIONAL
- G. AIRFIELD TYPE: MILITARY
- H. <u>AIRFIELD PRINCIPAL USE</u>: TACTICAL GROUND-ATTACK AND TRANSPORT AIRCRAFT

- I. ELEVATION: 29 FEET ABOVE MEAN SEA LEVEL (AMSL)
- J. NUMBER OF RUNWAYS: 4
- K. RUNWAY DIMENSIONS AND CAPACITIES:

RUNWAY	LENGTH	WIDTH	OVERRUN	MAXIMUM CAPACITY
RWY 5R/23L	8183'	2001	2500'	884,000 LBS.
RWY 5L/23R	9100'	200'	1500'	1,560,000 LBS.
RWY 14R/32L	8400'	200'	1500'	924,000 LBS.
RWY 14L/32R	8890'	200'	500 '	1,301,000 LBS.

- L. RUNWAY SURFACE: ASPHALT
- M. RUNWAY SURFACE CONDITIONS: GOOD
- N. NUMBER OF PARKING APRONS: 5
- O. NUMBER OF HANGERS: 10
- P. MEDICAL FACILITIES AVAILABLE: YES
- Q. TOWER/TERMINAL LOCATION: MCAS, CHERRY POINT TOWER AND TERMINAL ARE CO-LOCATED IN A BUILDING APPROXIMATELY 400 METERS EAST OF THE CENTER OF THE 4 RUNWAYS.
- R. MAJOR TRANSPORTATION ROUTES: MCAS, CHERRY POINT IS SERVICED BY U. S. HIGHWAY 70 WHICH EXTENDS SOUTH SOUTHEAST TO MOREHEAD CITY AND THE OUTER BANKS, AND NORTH NORTHWEST THROUGH NEW BERN INTO THE INTERSTATE HIGHWAY SYSTEM. ACCESS CAN ALSO BE GAINED VIA NC HIGHWAY 101 WHICH EXTENDS SOUTH SOUTHEAST TO BEAUFORT, NC AND WEST TO HAVELOCK AND RURAL AREAS BEYOND. CHERRY POINT IS ALSO SERVICED BY THE NORFOLK SOUTHERN AND THE CAMP LEJEUNE RAILROADS.



COUNTRY UNITED STATES RECORD ID 0410LM0080 TDI CAT 80070

NAME MCAS CHERRY POINT LAT/LONG 3454N07653W

PRODUCED BY:2D FIIU FOR:2D MARDIV

MCAS (H) NEW RIVER

- 1. PURPOSE. THIS AIRFIELD STUDY IS DESIGNED TO PROVIDE THE TACTICAL COMMANDER WITH AN ORIENTATION TO THE AIRFIELD AND ITS MAIN FUNCTIONAL COMPONENTS AS THEY RELATE TO TROOP AND EQUIPMENT TRANSPORT.
- 2. DESCRIPTION. MCAS (H), NEW RIVER IS THE MAIN AIR BASE FOR ROTARY
 WING AIRCRAFT AND FIXED WING OBSERVATION AIRCRAFT ASSETS ORGANIC TO THE
 SECOND MARINE AIRCRAFT WING. IT IS LOCATED 41 MILES NORTH NORTHEAST OF
 WILMINGTON PORT FACILITY, 40 MILES WEST OF MOREHEAD CITY PORT FACILITY, AND
 IS CONTAINED WITHIN THE CAMP LEJEUNE BOUNDARIES. MCAS (H), NEW RIVER HAS A
 TOTAL OF 10,200 LINEAR FEET OF RUNWAY. THE UNITS ASSIGNED PROVIDE THE
 COMMANDER WITH LIGHT, MEDIUM AND HEAVY HELICOPTER LIFT CAPABILITY, HELICOPTER
 GUNSHIP AND OBSERVATION AIRCRAFT SUPPORT.
- AIRFIELD DATA.
 - A. NAME: MCAS (H), NEW RIVER, N. C. (MCCUTHEON FIELD)
 - B. B.E. NUMBER/TDI CATEGORY CODE: 0410LM0081/80073
 - C. LOCATION: GEO: 344200N0772600W UTM: 18STP76524366
 - D. MAP REFERENCE: SHEET 5553 III, SERIES V742, EDITION DMATC 07, SCALE 1:50,000
 - E. <u>AIRFIELD CAPABILITY</u>: CAPABLE OF HANDLING UP TO MEDIUM FIXED WING AIRCRAFT.
 - F. AIRFIELD STATUS: OPERATIONAL
 - G. AIRFIELD TYPE: MILITARY
 - H. AIRFIELD PRINCIPAL USE: HELICOPTER BASE
 - I. ELEVATION: 24 FEET ABOVE MEAN SEA LEVEL (AMSL)

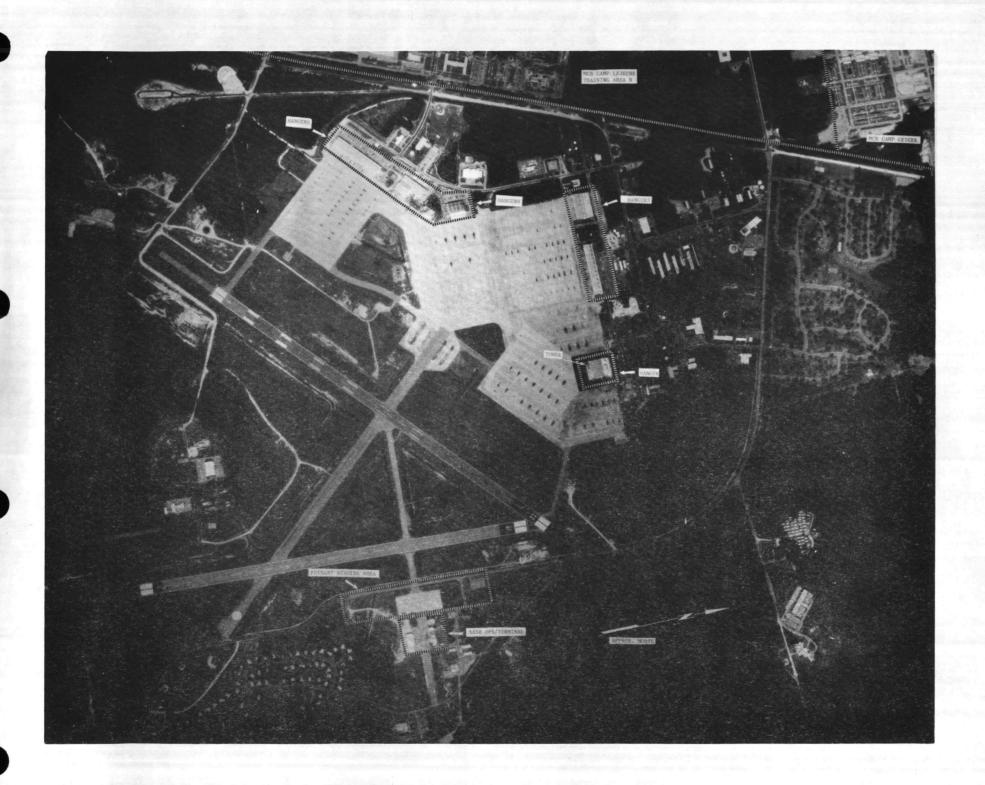
- J. NUMBER OF RUNWAYS: 2
- K. RUNWAY DIMENSIONS AND CAPACITIES:

RUNWAY	LENGTH	HTCIW	MAXIMUM CAPACITY
RWY 1/19	5125'	150'	185,000 LBS.
RWY 5/23	50981	150'	177,000 LBS.

(NOTE: NEW RIVER RUNWAYS HAVE NO USEABLE OVERRUNS)

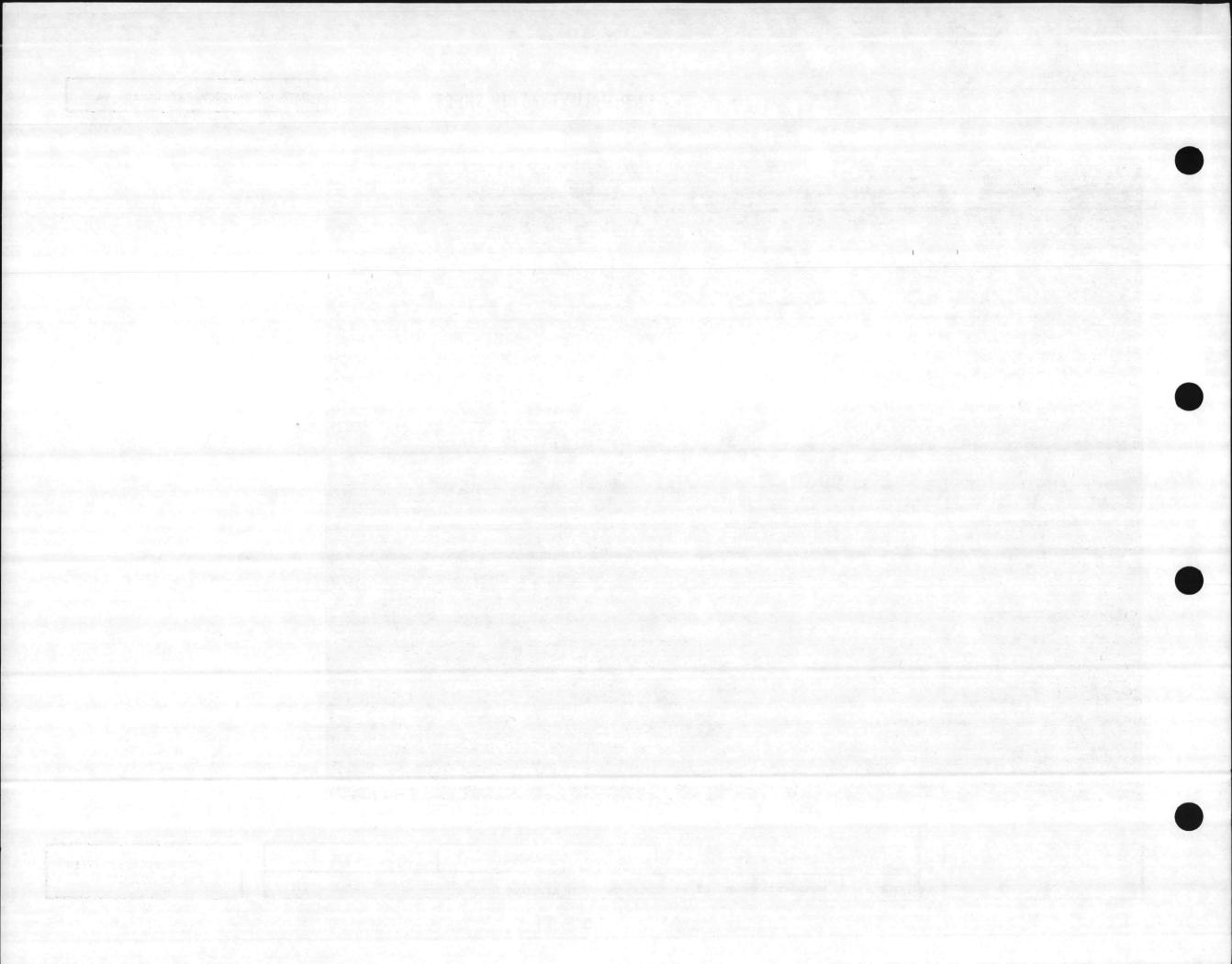
- L. RUNWAY SURFACE: ASPHALT
- M. RUNWAY SURFACE CONDITION: GOOD
- N. NUMBER OF PARKING APRONS: 4
- O. NUMBER OF HANGERS: 6
- P. MEDICAL FACILITIES AVAILABLE: YES
- Q. TOWER/TERMINAL LOCATION: MCAS (H), NEW RIVER TOWER IS LOCATED ABOVE
 THE SOUTHWEST CORNER OF A HANGER APPROXIMATELY 800 METERS NORTH OF THE
 CENTER OF RUNWAY 5/23. WHILE NO TERMINAL SERVICES ARE AVAILABLE, PASSENGER
 EMBARK/DEBARK IS ACCOMPLISHED IN THE BASE OPERATIONS BUILDING ADJACENT TO
 THE PARKING APRON EAST OF RUNWAY 1/19.
- R. MAJOR TRANSPORTATION ROUTES: MCAS (H), NEW RIVER IS SERVICED BY HIGH-WAYS U. S. 17 AND NC 24, WHICH TRAVERSE THE WESTERN AND NORTHERN BOUNDRIES OF THE FACILITY.

AFLD ILLUSTRATION SHEET



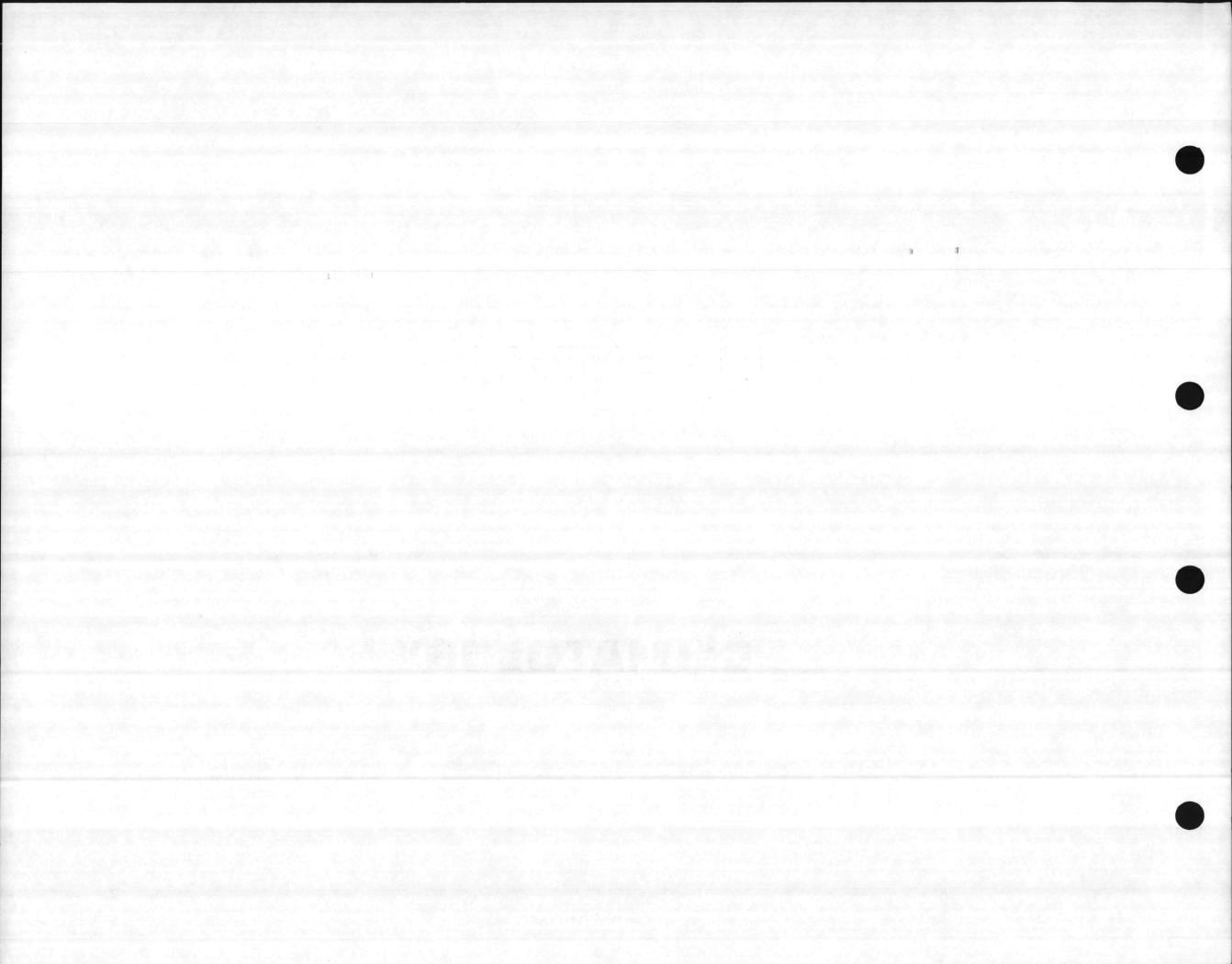
COUNTRY	UNITED STATES	RECORD ID	0410LM0081	TDI CAT 80073
NAME	MCAS (H) NEW RIVER		LAT/LONG	3442N07726W

PRODUCED BY:2D FIIU FOR:2D MARDIV



CHAPTER 7

CLIMATOLOGY



- 1. <u>PURPOSE</u>. THE PURPOSE OF THIS CHAPTER IS TO GIVE THE TACTICAL COMMANDER
 A GENERAL OVERVIEW OF CLIMATIC CONDITIONS THAT ARE RELEVENT TO OPERATIONS
 CONDUCTED ABOARD CAMP LEJEUNE MILITARY RESERVATION.
- 2. SCOPE. THIS CHAPTER INCLUDES A GENERAL LOCAL CLIMATOLOGY REPORT,
 A MONTHLY DATA SYNOPSIS AND GENERAL DESTRUCTIVE WEATHER INFORMATION.
 REQUIREMENTS FOR SPECIFIC WEATHER, TIDAL AND ASTRONOMICAL DATA SHOULD BE
 DIRECTED TO THE LOCAL WEATHER SERVICE OFFICE AT MCAS (H), NEW RIVER.
- 3. <u>DESTRUCTIVE WEATHER INFORMATION</u>. THE COMMANDING GENERAL, MARINE CORPS
 BASE CAMP LEJEUNE WILL SET HURRICANE/TROPICAL STORM/SNOW/ICE CONDITIONS
 OF READINESS FOR MCB, CAMP LEJEUNE AND MCAS (H), NEW RIVER. THE MCAS (H),
 NEW RIVER WEATHER SERVICE OFFICER IS RESPONSIBLE FOR ORIGINATING AND
 TERMINATING ALL LOCAL DESTRUCTIVE WEATHER CONDITION READINESS REPORTS
 FOR THE MCB, CAMP LEJEUNE AREA. GENERAL STORM ALERT CONDITIONS AS ESTABLISHED
 BY THE MCB DESTRUCTIVE WEATHER PLAN 1-81, ARE INDICATED BELOW:

A. RAIN AND THUNDERSTORMS/TROPICAL STORMS AND HURRICANES:

- (1) CONDITION I DESTRUCTIVE WEATHER IS IMMINENT WITHIN THE NEXT 12 HOURS.
- (2) CONDITION II DESTRUCTIVE WEATHER IS PREDICTED TO REACH CAMP LEJEUNE WITHIN 24 HOURS.
- (3) CONDITION III DESTRUCTIVE WEATHER HAS BEEN FORECASTED WITHIN THE NEXT 48 HOURS.
- (4) CONDITION IV DESTRUCTIVE WEATHER IS PREDICTED TO ARRIVE WITHIN 72 HOURS.
- (5) CONDITION V THE THREAT HAS PASSED, RESUME NORMAL DUTIES.

B. SNOW CONDITIONS:

(1) CONDITION I - HEAVY SNOW IS ACCUMULATING. SNOW IS DRIFTING.

ICE IS BEGINNING TO FORM ON POWER LINES. ROADS ARE EXTREMELY

HAZARDOUS.

- (2) CONDITION II HEAVY SNOW HAS COMMENCED. ROADS ARE BECOMING HAZARDOUS. NON-ESSENTIAL PERSONNEL ARE GRANTED EARLY LIBERTY.
- (3) CONDITION III SNOW IS ACCUMULATING IN NEIGHBORING STATES
 AND IS EXPECTED IN OUR AREA WITHIN THE NEXT 24 HOURS.
- (4) CONDITION IV POSSIBLE THREAT OF HEAVY SNOW.
- (5) CONDITION V THREAT HAS PASSED. RESUME NORMAL DUTIES.

4. LOCAL CLIMATOLOGY.

- A. TEMPERATURES/HUMIDITY: THE AREA'S AVERAGE SEASONAL TEMPERATURES ARE:
 SPRING (MARCH, APRIL AND MAY) 62 DEGREES F; SUMMER (JUNE, JULY AND
 AUGUST) 79 DEGREES F; FALL (SEPTEMBER, OCTOBER AND NOVEMBER) 65 DEGREES
 F; WINTER (DECEMBER, JANUARY AND FEBRUARY) 46 DEGREES F. THE MEAN
 ANNUAL TEMPERATURE IS 63 DEGREES F WITH A DAILY AVERAGE MAXIMUM OF 72
 DEGREES F AND A DAILY AVERAGE MINIMUM OF 53 DEGREES F. THE ABSOLUTE
 MAXIMUM TEMPERATURE FOR THE AREA IS 101 DEGREES F OCCURRING AUGUST 1968,
 JUNE 1981 AND JULY 1983. THE ABSOLUTE MINIMUM WAS 8 DEGREES F OCCURING
 IN JANUARY 1977 AND JANUARY 1982. AUGUST IS THE HOTTEST MONTH OF THE YEAR.
 THE MEAN SEASONAL RELATIVE HUMIDITY IS: SPRING 69%, SUMMER 75%, FALL 74%,
 WINTER 75%.
- B. <u>PRECIPITATION</u>: ON AUGUST 19, 1981, THIS AREA RECORDED ITS MAXIMUM PRECIPITATION DURING A 24 HOUR PERIOD: 6.71 INCHES OF RAIN. HISTORICALLY, JULY IS THE WETTEST MONTH WITH AN AVERAGE MEAN MONTHLY RAINFALL OF 8.1 INCHES. NOVEMBER IS THE DRIEST MONTH WITH 2.6 INCHES OF MEAN MONTHLY RAINFALL. THE MEAN RAINFALL PER YEAR IN THE AREA IS 52.5 INCHES. THE 19.1 INCH SNOWFALL ON MARCH 2, 1980 ESTABLISHED A NEW RECORD FOR THIS AREA. THE MEAN ANNUAL SNOWFALL FOR THE AREA IS 2.6 INCHES.
- C. <u>WINDS</u>: THE SURFACE PREVAILING WIND DIRECTION SEPTEMBER THROUGH
 FEBRUARY IS NORTHERLY AT 6 KNOTS WHILE THE PERIOD APRIL THROUGH AUGUST HAS
 PREVAILING SOUTHERLY WINDS AT 5.5 KNOTS. THE PEAK WIND WAS NORTHWESTERLY
 AT 72 KNOTS RECORDED DURING FEBRUARY 1976.

- D. <u>VISIBILITY</u>: ON A MONTHLY AVERAGE THIS AREA HAS 19 DAYS WITH VISIBILITY LESS THAN 7 MILES DUE TO FOG. ANNUALLY, VFR CONDITIONS ARE EXPERIENCED 90.9% OF THE TIME, WHILE BELOW MINIMUM CONDITIONS (200 FEET/½ MILE) ARE EXPERIENCED 1% OF THE TIME.
- E. THUNDERSTORMS: THUNDERSTORMS OCCUR ON THE AVERAGE OF 50 DAYS PER YEAR WITH THE MAJORITY OCCURRING DURING JUNE, JULY AND AUGUST.
- F. WATER TEMPERATURES: THE AVERAGE SEA WATER TEMPERATURE COVERS AN ANNUAL SPECTRUM FROM 50 TO 78 DEGREES F, WITH AN ANNUAL MEAN TEMPERATURE OF 64 DEGREES F.

5. MONTHLY SYNOPSIS.

A. JANUARY:

- (1) THE ICELANDIC LOW IS DISPLACED SOUTHWARD AND INTENSIFIED WITH ITS MEAN POSITION LOCATED NEAR 60 DEGREES NORTH AND 37 DEGREES WEST.
- (2) THE BERMUDA HIGH IS NOW AN ELONGATED HIGH PRESSURE SYSTEM COVERING THE ENTIRE SOUTHERN PORTION OF THE NORTH ATLANTIC OCEAN.

 THE HIGH PRESSURE CENTER IS GENERALLY OVER THE AREA OF THE CANARY ISLANDS, WITH A RIDGE EXTENDING OVER THE SOUTHEASTERN PART OF THE UNITED STATES.
- (3) THE GRADIENT FLOW BETWEEN THE SOUTHWESTERN SECTION OF THE ICELANDIC LOW AND THE BERMUDA HIGH RIDGE OVER THE SOUTHEASTERN UNITED STATES IS CAUSING PREVAILING GUSTY NORTH NORTHWESTERLY WINDS OVER THIS AREA.
- (4) THE POLAR FRONT IS ORIENTED MORE NORTH-EAST TO SOUTH-WEST WITH ITS MEAN POSITION EXTENDING FROM ABOUT 47 DEGREES NORTH AND 30 DEGREES WEST, THEN SOUTHWESTWARD NEAR BERMUDA AND CONTINUING DOWN ACROSS CENTRAL FLORIDA BECOMING MORE EAST-WEST INTO THE GULF OF MEXICO. WAVES DEVELOPING IN THE GULF OF MEXICO AREA MOVE RAPIDLY ALONG THE FRONT, REACHING THIS AREA IN 36 TO 48 HOURS. OFTEN THESE WAVES BECOME A WELL INTENSIFIED STORM JUST OFF CAPE HATTERAS.

- COLD FRONTS PASSING THIS AREA OFTEN STAGNATE JUST OFFSHORE AND INTENSIFY.
- (5) FOG AND GROUND FOG ARE COMMON IN JANUARY, GENERALLY OCCURRING DURING THE EARLY MORNING HOURS WITH A LIGHT NORTHEASTERLY FLOW. FOG WILL OCCUR WITH THE ADVANCE OF WARM FRONTS, WHICH LAST FROM TWO TO THREE DAYS. STILL, FLYING CONDITIONS ARE GOOD WITH VFR EXISTING 83.9% OF THE TIME.
- (6) HUMIDITY WILL AVERAGE AROUND 74% WITH A MEAN RAINFALL OF 3.76 INCHES. SNOWFALL FOR JANUARY IS A MEAN OF 1.1 INCHES AND THE MAXIMUM IS 5.9 INCHES.
- (7) THE GREATEST AMOUNT OF SNOW GENERALLY OCCURS WHEN A LOW DEVELOPS
 ON THE POLAR FRONT IN THE NORTHERN PART OF TEXAS, THEN MOVES EAST—
 WARD AND PASSES OFFSHORE JUST SOUTH, OR NEAR, THIS AREA.
- (8) THUNDERSTORMS ARE FEW AND FAR BETWEEN, BUT MAY OCCUR WITH FRONTAL SYSTEMS PASSING THROUGH.

B. FEBRUARY:

- (1) THE ICELANDIC LOW IS STILL DEEP AND WELL PRONOUNCED; ITS MEAN POSITION IS ALMOST THE SAME AS IN JANUARY.
- (2) THERE IS RELATIVELY LITTLE CHANGE IN THE BERMUDA HIGH PRESSURE PATTERN COVERING THE SOUTHERN PORTION OF THE NORTH ATLANTIC OCEAN.

 THE CENTER OF THE HIGH REMAINS AROUND 1020 MILLIBARS, WITH A RIDGE EXTENDING OVER THE EASTERN SEABOARD.
- (3) THE GRADIENT FLOW BETWEEN THE ICELANDIC LOW AND THE WESTERN RIDGE OF THE BERMUDA HIGH CAUSES GUSTY NORTH-NORTHWESTERLY WINDS TO PREVAIL OVER THE LOCAL AREA.
- (4) AS IN JANUARY, THE POLAR FRONT IS BEING DISPLACED OUT OVER THE GULF OF MEXICO AND ORIENTATED NORTHEAST-SOUTHWEST ALONG THE EAST COAST. WAVES WILL CONTINUE TO DEVELOP ON THE POLAR FRONT. THESE SYSTEMS REACH THIS AREA IN 36 TO 48 HOURS. OCCASIONALLY, THE

POLAR FRONT WILL LIE EAST TO WEST, ENTERING THE ATLANTIC IN THE AREA OF CAPE HATTERAS. THIS MAY CAUSE INCREASED CLOUDINESS IN THIS AREA, BUT SELDOM ANY WEATHER. WHEN A SLOW MOVING WAVE DEVELOPS OFF OF CAPE HATTERAS ON THE FRONT, THUNDERSHOWERS MAY OCCUR FOR A SHORT PERIOD.

- (5) THE AMOUNT OF FOG IS JUST ABOUT THE SAME AS IN JANUARY. IT OCCURS GENERALLY AFTER FRONTS PASS AND AS THE WINDS BECOME MORE NORTHEASTERLY.
- (6) THUNDERSTORMS ARE RARE, OCCURRING MOSTLY WITH FRONTAL ACTIVITY.
 HUMIDITY AVERAGES AROUND 67%, AND THE RAINFALL IS ABOUT THE SAME
 AS IN JANUARY, WITH A MONTHLY MEAN OF 3.99 INCHES. SNOWFALL IS
 A MEAN OF 1.3 INCHES.
- (7) EVEN THOUGH FEBRUARY IS THE WORST MONTH FOR FLYING, CONDITIONS ARE STILL VFR 88.7% OF THE TIME.

C. MARCH:

- (1) THE BERMUDA HIGH SHOWS CONSIDERABLE DEVELOPMENT AND SPREADS SLIGHTLY NORTHWARD OF ITS FEBRUARY POSITION. CONSEQUENTLY, THE OUTBREAKS OF POLAR AIR ALONG THE COAST ARE LESS FREQUENT, WITH ABOUT 1/3 LESS POLAR FRONTS REACHING BERMUDA. THE INCREASE OF MOIST AIR OVERRIDING POLAR AIR OVER THIS AREA IS CONDUCIVE TO WAVES DEVELOPING ON THE POLAR FRONT LYING OFFSHORE.
- (2) INTENSE HIGHS AND LOWS ARE COMMON IN MARCH. WHEN A HIGH IS CENTERED OVER NEW BRUNSWICK, THE LOCAL AREA IS DOMINATED BY CLEAR SKIES, COOL TEMPERATURES, AND NORTHEASTERLY WINDS FOR SEVERAL DAYS AT A TIME. ON THE OTHER HAND, THIS AREA MAY BE CHARACTERIZED BY STRONG, FAST MOVING COLD FRONTS, WITH WAVES STILL DEVELOPING IN THE GULF OF MEXICO.
- (3) THE CENTER OF WAVES DEVELOPING ON THE POLAR FRONT IN THE GULF OF MEXICO GENERALLY MOVES TO THE NORTHEAST ALONG THE COAST, PASSING OUT TO SEA NEAR CAPE HATTERAS. THESE WAVES REACH THIS AREA IN ABOUT 36

TO 48 HOURS. AS THEY APPROACH FROM THE SOUTHWEST, THE RAIN SHIELD WILL EXTEND 300 TO 500 MILES AHEAD OF THE CENTER, WITH STRONG NORTH-EASTERLY WINDS. THE RESULTS OF AN APPROACHING WAVE MAY CAUSE RAIN TO FALL IN THIS AREA FOR AT LEAST 24 TO 48 HOURS WITHOUT STOPPING. THUNDERSTORMS OCCASIONALLY WILL OCCUR WITH THESE WAVES, OR WITH THE PASSAGE OF A FRONT.

- (4) THUNDERSTORMS ARE CONSIDERED TO BE FEW IN NUMBER IN MARCH AND
 AIR MASS THUNDERSTORMS SELDOM OCCUR. 'YET, JUST OFFSHORE, THUNDERSTORM
 ACTIVITY IS ON THE INCREASE DUE TO THE GULF STREAM'S EFFECT ON FRONTS
 MOVING OFFSHORE.
- (5) IN CONCLUSION, MARCH IS CONSIDERED TO BE ONE OF THE DRIER MONTHS, WITH THE AVERAGE HUMIDITY AT 68%, A MEAN RAINFALL OF 3.31 INCHES, AND A TRACE OF SNOW. SNOW THAT OCCURS IS USUALLY ASSOCIATED WITH FRONTAL WAVES THAT MOVE ACROSS THE SOUTHERN STATES, APPROACHING THIS AREA FROM THE WEST-SOUTHWEST, MOVING OFFSHORE JUST SOUTH, OR NEAR THIS AREA.
- (6) FOG AND GROUND FOG OCCUR OFTEN, BUT SOMEWHAT LESS THAN DURING FEBRUARY. FOG USUALLY OCCURS DURING THE EARLY MORNING WITH A LIGHT NORTHEASTERLY FLOW, OR WITH A WARM FRONTAL SYSTEM MOVING INTO THIS AREA.
- (7) FLYING CONDITIONS ARE SIMILAR TO FEBRUARY WITH VFR CONDITIONS EXISTING ABOUT 88% OF THE TIME. GUSTY NORTHWESTERLY SURFACE WINDS ARE OFTEN A HAZARD TO FLYING IN MARCH.

D. APRIL:

- (1) THE BERMUDA HIGH IS DISPLACED A FEW DEGREES NORTH OF ITS MARCH POSITION, AS IT IS WELL ON ITS JOURNEY NORTHWARD FOR THE SUMMER; THE ICELANDIC LOW CONTINUES TO WEAKEN.
- (2) COLD FRONTAL PASSAGES ARE ABOUT THE SAME AS IN MARCH, EXCEPT THE OUTBREAKS OF COLDER AIR FROM CANADA GROW LESS FREQUENT TOWARD

THE END OF THE MONTH.

- (3) AT LEAST ONE WAVE WILL DEVELOP ON THE POLAR FRONT IN THE GULF OF MEXICO AREA AND MOVE NORTHEASTWARD ALONG THE FRONT.
- (4) APRIL'S MEAN MONTHLY RAINFALL IS 2.93 INCHES. NO SNOW HAS EVER BEEN RECORDED DURING THE MONTH OF APRIL IN THIS AREA.
- (5) DURING THE FIRST PART OF THE MONTH, THE WINDS ARE STILL GUSTY FROM THE NORTH-NORTHWEST; HOWEVER, THE FREQUENCY OF WINDS FLOWING FROM A SOUTHERLY DIRECTION IS INCREASING. THE MEAN HUMIDITY FOR APRIL IS 65%, THE LOWEST FOR THE YEAR.
- (6) AIR MASS THUNDERSTORMS ARE ON THE INCREASE, AND OCCUR
 ALMOST 3 TIMES AS OFTEN AS IN MARCH. THUNDERSTORMS ARE OFTEN
 ASSOCIATED WITH FRONTAL PASSAGES AND INTENSIFY OUT OVER THE GULF
 STREAM. ON THE WHOLE, STORMY WEATHER OFFSHORE IS NOT AS GREAT
 AS IN MARCH, AND DOES NOT LAST LONG.
- (7) FOG IS STILL COMMON WITH NORTHEASTERLY WINDS, BUT OCCURS LESS FREQUENTLY THAN IN MARCH.
- (8) FLYING CONDITIONS ARE OUTSTANDING, WITH VFR EXISTING ABOUT 95% OF THE TIME.

E. MAY:

- (1) THE BERMUDA HIGH CONTINUES TO BUILD NORTHWARD, AS THE ICELANDIC LOW WEAKENS. OTHERWISE, THE PRESSURE PATTERN REMAINS MUCH THE SAME AS IN APRIL.
- (2) OFFSHORE WEATHER IS GENERALLY GOOD AS A WHOLE, BUT THUNDERSTORMS AND SHOWERS INCREASE AS FRONTS PASS THROUGH AND OUT OVER THE GULF STREAM.
- (3) FRONTS TEND TO BE ORIENTATED MORE EAST-WEST AND OFTEN SEEM TO REMAIN STATIONARY JUST TO THE NORTH, WITH WARM TROPICAL AIR FLOWING OVER THE AREA FOR SEVERAL DAYS. EVEN THOUGH THE PREVAILING WIND

- IS NORTH-NORTHWESTERLY, OUR STRONGEST GUSTS ARE SOUTHERLY AND ASSOCIATED WITH THUNDERSTORMS. THE FREQUENCY OF COLD FRONTAL PASSAGE IS LESS THAN IN APRIL.
- (4) THUNDERSTORM ACTIVITY IS STILL ON THE INCREASE, OCCURRING WITH FRONTAL ACTIVITY AND AIR MASSES. THE REASON BEING THAT ANY WEDGE OF COLD AIR MOVING INTO THIS AREA WILL LIFT THE TROPICAL AIR, CAUSING CONVECTIVE TYPE WEATHER. PRECIPITATION, IS GREATER THAN IN APRIL AND HAS INCREASED TO A MONTHLY MEAN OF 4.15 INCHES. THE AVERAGE HUMIDITY FOR MAY IS APPROXIMATELY 73%.
- (5) FOG IS ALSO ON THE INCREASE, OCCURRING WITH A WELL DEFINED GRADIENT FLOW FROM THE NORTHEAST AFTER THE PASSAGE OF A FRONTAL SYSTEM. FOG AND GROUND FOG ALSO OCCUR WITH A VERY LIGHT SOUTHERLY FLOW BECAUSE OF WARMER AIR FLOWING FROM THE GULF STREAM ACROSS COOLER WATER, AND INLAND OVER THIS AREA.
- (6) VFR WEATHER IS LESS THAN IN APRIL, BUT FLYING CONDITIONS ARE STILL VERY GOOD, WITH VFR EXISTING 93.5% OF THE TIME.

F. JUNE:

- (1) THE ICELANDIC LOW IS VERY WEAK, AND HAS ALMOST FILLED BY THE END OF JUNE.
- (2) THE BERMUDA HIGH IS SLIGHTLY NORTH OF ITS MAY POSITION. IT IS CENTERED NEAR 32 DEGREES NORTH, AND IS ALMOST MIDWAY BETWEEN THE WEST COAST OF AFRICA AND THE EAST COAST OF THE UNITED STATES.
- (3) THE BERMUDA HIGH RIDGE SEEMS TO BUILD OR MOVE INLAND DURING THE EARLY MORNING HOURS, THEN MOVE EASTWARD DURING THE AFTERNOON AND EVENING. THE RESULTS OF THE OSCILLATION IS CHARACTERIZED BY A PRESSURE CHANGE OF ABOUT 3 MILLIBARS ALONG THE COAST AND BY A DECREASE IN THE SOUTHWESTERLY WIND, AS THE RIDGE MOVES BACK EASTWARD. WITH THE INTENSIFICATION OF THE BERMUDA HIGH, THE

POLAR FRONTS SELDOM REACH THIS AREA.

- (4) THE POLAR FRONT IS GENERALLY ORIENTATED ON A MORE EAST-WEST POSITION, OFTEN BECOMING ALMOST STATIONARY JUST SOUTH OF CAPE HATTERAS. A BAND OF THUNDERSTORMS GENERALLY ACCOMPANIES THE FRONTAL SYSTEM. OFTEN, OVERCAST SKIES OF HIGH CLOUDS WILL PREVAIL NORTH OF THE POLAR FRONT, WHILE THIS AREA WILL BE OBSERVING CONVECTIVE TYPE CLOUDS, ASSOCIATED WITH TROPICAL AIR, SOUTH OF THE SYSTEM. IF THE POLAR FRONT DOES PASS THROUGH THIS AREA, THUNDERSTORMS AND HEAVY RAIN ARE GENERALLY IN STORE FOR THE AREA.
- (5) THUNDERSTORMS OF THE AIR MASS TYPE ARE ON THE INCREASE. THIS
 IS NORMAL BECAUSE OF THE INCREASE IN MOIST TROPICAL AIR FLOWING
 AROUND THE WEST RIDGE OF THE BERMUDA HIGH. THUNDERSTORMS IN JUNE
 USUALLY PRODUCE HEAVY PRECIPITATION, WITH STRONG WIND GUSTS OF SHORT
 DURATION.
- (6) WEATHER OFFSHORE IS ALMOST THE SAME AS IN MAY; HOWEVER, NIGHT AND EARLY MORNING THUNDERSTORMS OCCUR MORE FREQUENTLY.
- (7) JUNE IS CONSIDERED TO BE A WET MONTH, WITH A MEAN RAINFALL OF 5.9 INCHES AND A MAXIMUM OF 11.82 INCHES. THE AVERAGE HUMIDITY IS NEAR 73%.
- (8) FOG AND GROUND FOG IS VERY COMMON DURING THE EARLY MORNING HOURS IN JUNE, OCCURRING ON AN AVERAGE OF 23 DAYS. MOST OF THE GROUND FOG OCCURS WITH A LIGHT SOUTHERLY FLOW; HOWEVER, IF A FRONTAL SYSTEM SHOULD PASS THROUGH THE AREA WITH WINDS BECOMING NORTHEASTERLY 3 TO 6 KNOTS, DEEP FOG WILL MOVE OVER THE AREA.
- (9) VFR CONDITIONS ARE VERY GOOD IN JUNE, AVERAGING 93% OF THE TIME.

G. JULY:

(1) THE WESTERN RIDGE OF THE BERMUDA HIGH COVERS THE EASTERN SEABOARD

STATES MOST OF THE TIME DURING JULY. THIS CIRCULATION KEEPS THE THIS AREA UNDER A SOUTHWESTERLY FLOW OF HOT, HUMID TROPICAL AIR. THE BERMUDA HIGH HAS REACHED ITS NORTHERN MOST POSITION. DUE TO THE BLOCKING RIDGE, COLD FRONTS SELDOM REACH THIS AREA. WHEN THEY DO, THEY ARE USUALLY ORIENTATED MORE EAST AND WEST. MOST OF THE TIME, THESE FRONTS PRODUCE VERY LITTLE WEATHER, BUT WILL OCCASIONALLY BRING SOME THUNDERSTORMS.

- (2) THUNDERSTORMS THAT OCCUR IN AT THIS AREA ARE MOSTLY AIR MASS TYPE, ASSOCIATED WITH A SOUTHERN FLOW OF TROPICAL AIR. THUNDERSTORMS ARE COMMON JUST OFFSHORE AT NIGHT, DEVELOPING NEAR MIDNIGHT, REACHING THEIR MAXIMUM INTENSITY IN THE EARLY MORNING HOURS, AND DISSIPATING SOON AFTER SUNRISE. ON OCCASION, THESE THUNDERSTORMS HAVE BACKED UP ENOUGH TO BE VISIBLE OR TO CAUSE RAIN OR THUNDERSTORMS IN THIS AREA, GENERALLY IN THE EARLY MORNING HOURS. MOST RAINFALL IN THIS AREA IS ASSOCIATED WITH THUNDERSTORMS, OR WITH HURRICANES THAT MAY MOVE INTO THE AREA.
- (3) JULY IS ACTUALLY THE BEGINNING OF THE HURRICANE SEASON, BUT THEY (HURRICANES) SELDOM REACH THIS AREA. JULY MAY NOT HAVE LONG PERIODS OF RAINFALL, BUT THERE IS NO DOUBT THAT MORE RAIN FALLS DURING THIS MONTH THAN ANY OTHER MONTH OF THE YEAR. AS MUCH AS 5.35 INCHES OF RAIN HAS FALLEN IN 24 HOURS, CAUSED BY THUNDERSTORMS WHICH ARE MORE FREQUENT IN JULY THAN DURING ANY OTHER MONTH. THE MEAN RAINFALL FOR JULY IS 8.08 INCHES, WITH A MAXIMUM OF 14.34 INCHES.
- (4) FOG AND GROUND FOG OCCUR OFTEN IN JULY, BUT THE FOG DOES NOT HINDER FLYING TO ANY GREAT EXTENT. THE PERCENTAGE OF IFR WEATHER IS VERY MINIMAL AND IS CAUSED MOST OF THE TIME BY THUNDERSTORMS.

 VFR CONDITIONS EXIST 94.7% OF THE TIME.
- (5) THE HUMIDITY IN THE AREA AVERAGES AROUND 74%.

(6) JULY, WITH A MEAN TEMPERATURE OF 87.9 DEGREES F IS ONE OF THE HOTTEST MONTHS. TEMPERATURES IN EXCESS OF 100 DEGREES F OCCUR .7% OF THE TIME.

H. AUGUST:

- (1) THE BERMUDA HIGH PRESSURE SYSTEM IS FOUND TO BE MIGRATING TO THE SOUTH WITH THE APPROACH OF FALL AND WINTER. THE MEAN CENTER IS SLIGHTLY SOUTH OF ITS JULY POSITION, WITH THE WEST RIDGE EXTENDING INLAND OVER THE SOUTHEASTERN UNITED STATES. THIS SITUATION PLACES THIS AREA UNDER THE INFLUENCE OF MOIST TROPICAL AIR. A LARGE PORTION OF THE TIME, HOWEVER, THE WINDS TEND TO PREVAIL MORE FROM THE WEST-NORTHWEST.
- (2) THE ICELANDIC LOW IS BECOMING MORE PRONOUNCED AND IS MOVING SLOWLY SOUTHWARD.
- (3) AUGUST MARKS THE BEGINNING OF MAXIMUM HURRICANE DEVELOPMENT.

 USUALLY AFTER THE MIDDLE OF THE MONTH, HURRICANES DEVELOP QUITE

 FREQUENTLY JUST NORTH OF THE LESSER ANTILLES. THEIR MEAN COURSE

 IS GENERALLY WESTWARD, PASSING JUST NORTH OF PUERTO RICO, IN THE

 FORM OF SMALL STORMS. THEY CONTINUE ON NORTHWESTWARD, FOLLOWING

 THE SOUTHWEST BOUNDARY OF THE BERMUDA HIGH, AS THEY INTENSIFY.

 AFTER LEAVING THE GREATER ANTILLES ARC, THE HURRICANES CAN BE

 EXPECTED TO REACH THIS AREA WITHIN 4 TO 5 DAYS. OFTEN THESE

 STORMS TRAVEL IN AN ERRATIC PATH AND DEVIATE FROM THE NORMAL COURSE.
- (4) AIR MASS THUNDERSTORMS OCCUR QUITE OFTEN DUE TO THE WARM, MOIST TROPICAL AIR FLOWING AROUND THE WEST BOUNDARY OF THE BERMUDA HIGH RIDGE. THUNDERSTORMS EXISTING OFFSHORE AND ALONG THE COASTLINE ARE INTENSIFIED WHEN THE AIR MASS FLOW DEVIATES FROM THE WEST AND BECOMES MORE NORTH OR NORTHEASTERLY. THUNDERSTORMS ARE LESS FREQUENT THAN DURING JULY.
- (5) VERY FEW FRONTAL SYSTEMS PASS THIS AREA EXCEPT DURING THE LATTER

PART OF THE MONTH. WHEN THEY DO PASS THROUGH, THEY ARE USUALLY WEAK AND DRY WITH VERY LITTLE ASSOCIATED WEATHER.

- (6) AUGUST IS CONSIDERED TO BE A HOT, HUMID WET MONTH. IT IS COMMON FOR THE TEMPERATURE TO REACH THE MIDDLE 90'S FOR SEVERAL DAYS AT A TIME, WITH THE HUMIDITY AVERAGING ABOUT 78%. THE MAXIMUM TEMPERATURE RECORDED WAS 101 DEGREES F, IN 1968. MOST PRECIPITATION FOR THE MONTH OCCURS WITH HURRICANES OR WITH AIR MASS THUNDERSTORMS. THE MEAN RAINFALL FOR AUGUST IS 6.46 INCHES.
- (7) FOG AND GROUND FOG OCCUR OFTEN, BUT THE FREQUENCY OF EXISTING IFR CONDITIONS IS TO BE CONSIDERED MINIMAL; ON THE OTHER HAND, THE AVERAGE FOR EXISTING VFR CONDITIONS FOR AUGUST IS APPROXIMATELY 93%.

I. SEPTEMBER:

- (1) THE MEAN PRESSURE PATTERN SHOWS THE BERMUDA HIGH PRESSURE SYSTEM WHICH INFLUENCES OUR LOCAL WEATHER POSITIONED FARTHER SOUTH OF ITS AUGUST POSITION. EVEN THOUGH THE RIDGES FROM THE HIGH ARE OFTEN OVER THE SOUTHEASTERN STATES FOR SEVERAL DAYS AT A TIME, IT IS SHOWING SIGNS OF WEAKNESS. THE HIGH MAY EVEN SPLIT AT TIMES, WITH ONE CENTER OVER THE AZORES AND THE OTHER OVER THE EAST COAST. THIS MEANS THAT THE SEASONAL BREAKDOWN OF THE BERMUDA HIGH IS OCCURRING, AND POLAR FRONTS WILL OCCASIONALLY SLIP THROUGH THIS AREA AND WILL EVEN PASS THE ISLAND OF BERMUDA.
- (2) THESE FRONTS ARE THE LEADING EDGE OF THE POLAR AIR MASS THAT
 REACHES THIS AREA FROM THE WEST-CENTRAL PART OF CANADA. AS THEY
 PUSH OUT OVER THE GULF STREAM, HEAVY THUNDERSTORMS OFTEN PERSIST
 WHILE THIS AREA MAY BE WITNESSING CLEAR SKIES AND COOL TEMPERATURES.
- (3) NORTHERLY WINDS ARE THE MOST GUSTY AND OCCUR AFTER THE PASSAGE
 OF POLAR OUTBREAKS. GENERALLY, THESE OUTBREAKS ARE MORE FREQUENT

DURING THE LATTER PART OF THE MONTH.

- (4) HURRICANE ACTIVITY, TOO, IS USUALLY AT A MAXIMUM DURING
 SEPTEMBER AND MAY BE FOUND DEVELOPING ANYWHERE FROM THE CAPE VERDE
 ISLANDS WESTWARD INTO THE GULF OF MEXICO. THE STRONGEST WIND (70
 KNOTS) WAS RECORDED HERE IN 1958 AND WAS ASSOCIATED WITH A HURRICANE.
- (5) FOG AND GROUND FOG OCCUR QUITE OFTEN IN SEPTEMBER, ESPECIALLY DURING THE EARLY MORNING HOURS; HOWEVER, THE PERCENTAGE OF IFR WEATHER IS QUITE MINIMAL, THUS VFR CONDITIONS EXIST 91% OF THE TIME.
- (6) SEPTEMBER IS DRIER AND COOLER THAN IS AUGUST, BUT IT SHOULD BE CLASSIFIED AS A WET MONTH, WITH THE AVERAGE HUMIDITY AT 78.7%. MOST OF THE ASSOCIATED RAINFALL COMES FROM FRONTAL ACTIVITY AND HURRICANES. THUNDERSTORM ACTIVITY IS BY FAR LESS IN OCCURRENCE THAN DURING THE MONTH OF AUGUST. IN TURN, THUNDERSTORM ACTIVITY IS GENERALLY ASSOCIATED WITH FRONTS OR HURRICANES. THE MEAN RAINFALL FOR SEPTEMBER IS 4.31 INCHES.

J. OCTOBER:

- (1) THE INCREASED OSCILLATION OF THE POLAR FRONT BACK AND FORTH OVER THE ISLAND OF BERMUDA IS A CLEAR SIGN THAT THE BERMUDA HIGH IS STILL WEAKENING. AT THE SAME TIME, THE ICELANDIC LOW IS FOUND TO BE DEEPENING. BOTH THE HIGH AND THE LOW ARE SLIGHTLY SOUTH OF THEIR SEPTEMBER POSITION.
- (2) LOWS ALSO BEGIN TO DEVELOP OFF CAPE HATTERAS AND MOVE OFF
 IN A NORTHERLY DIRECTION. OFTEN THESE LOWS BECOME ALMOST STATIONARY
 FOR 2 OR 3 DAYS.
- (3) OCCASIONALLY, A COLD HIGH PRESSURE SYSTEM PLUNGES DOWN ACROSS
 THE GREAT NORTHWEST FROM OUT OF CANADA PUSHING A COLD FRONT INTO
 THIS AREA. THE FRONT MAY REACH THIS AREA AS A WEAK FRONTAL SYSTEM,
 BUT-IT WILL GENERALLY INTENSIFY AS IT PUSHES OFFSHORE OVER THE
 GULF STREAM. OFTEN, UNSTABLE WEATHER WILL DEVELOP JUST OFFSHORE

BEHIND THE FRONT BECAUSE OF THE FLOW OF COOL AIR FROM THE NORTHWEST OVER THE WARMER WATER. IF THE FLOW OF AIR IS NORTHEASTERLY, FOG WILL FORM OFFSHORE FOR SHORT PERIODS.

- (4) THE STRONGEST WINDS FOR THE MONTH ARE ASSOCIATED WITH ANY HURRICANE THAT MAY MOVE INTO THIS AREA.
- (5) DURING OCTOBER, FOG DOES OCCUR IN THE AREA, BUT ON A WHOLE THE VISIBILITY IS GENERALLY GOOD WITH VFR CONDITIONS OCCURRING 91.4% OF THE TIME.
- (6) THERE HAS NEVER BEEN ANY SNOW IN THIS AREA IN OCTOBER.

 THE AMOUNT OF RAINFALL IS LESS THAN DURING SEPTEMBER AND IS

 GENERALLY CAUSED BY THE PASSAGE OF FRONTS OR BY HURRICANES THAT

 PASS IN PROXIMITY TO THE AREA.
- (7) THE HUMIDITY FOR OCTOBER AVERAGES ABOUT 71.6%.

K. NOVEMBER:

- (1) THIS IS THE MONTH DURING WHICH FALL FADES AND WINTER BEGINS.

 THE COLD HIGH CENTERED OVER THE EAST-CENTRAL UNITED STATES TENDS

 TO MOVE FARTHER SOUTH. THIS MOVEMENT CAUSES THE POLAR FRONT TO

 LIE MORE TO THE SOUTH AND FREQUENTLY INTO THE GULF OF MEXICO.
- (2) WAVES MAY DEVELOP IN THE TEXAS AREA. THESE LOWS ARE GENERALLY CAUSED BY AN OCCLUDED TROUGH MOVING FROM THE WEST OVER THE ROCKY MOUNTAINS. WARM, MOIST TROPICAL AIR MOVING NORTHWARD FROM THE GULF OF MEXICO AND AROUND THE COOL HIGH OVER THE EASTERN UNITED STATES HELPS TO REGENERATE THIS TROUGH. AT THE SAME TIME, THIS MOIST TROPICAL AIR IS OVERRUNNING COOLER AIR AND A WARM FRONT WILL DEVELOP OUT OF THE TEXAS LOW. THE LOW WILL GENERALLY MOVE EAST—WARD ALONG THE GULF STATES AND THEN NORTHEASTWARD ALONG THE ATLANTIC COAST REACHING THIS AREA IN ABOUT 24 TO 36 HOURS. THESE LOWS DEEPEN RAPIDLY.

- (3) THE BERMUDA HIGH IS AT ITS WEAKEST AND IS NOW AN ELONGATED CONFIGURATION SPREADING EAST-WEST OVER THE SOUTHERN PART OF THE NORTH ATLANTIC OCEAN. THE ICELANDIC LOW HAS MOVED ALMOST TO ITS SOUTHERN-MOST POSITION AND IS STILL DEEPENING.
- (4) SNOW DOES FALL IN NOVEMBER, BUT ONLY A TRACE HAS EVER BEEN RECORDED. THE WEATHER IS GENERALLY VERY GOOD, AND NOVEMBER COULD BE CLASSIFIED AS ONE OF THE DRY MONTHS. THE MEAN RAINFALL IS 2.61 INCHES; THE HUMIDITY AVERAGES ABOUT 72%; AND VFR CONDITIONS EXIST 91% OF THE TIME.
- (5) FOG AND GROUND FOG OCCUR ON THE AVERAGE OF 18 DAYS, GENERALLY OCCURRING DURING THE EARLY MORNING HOURS. FOG OCCURS WITH A NORTH-EASTERLY OR SOUTHERLY FLOW.

L. DECEMBER:

- (1) THE BERMUDA HIGH IS AT ITS WEAKEST AND IS LOCATED IN ITS SOUTHERNMOST POSITION, WITH THE ICELANDIC LOW VERY DEEP AND INTENSIFIED. FREQUENTLY, COLD AIR FROM THE ARCTIC WILL SPREAD DOWN OVER THE UNITED STATES, OFTEN EXTENDING FROM NEWFOUNDLAND DOWN THROUGH FLORIDA OR CUBA. BY THE TIME THE AIR MASS REACHES THIS AREA, WAVES DEVELOP IN THE GULF OF MEXICO AND MOVE NORTHEASTERLY ALONG THE POLAR FRONT AND UP THE ATLANTIC COAST. OFTEN, TWO WAVES WILL DEVELOP ON THE POLAR FRONT, ONE IN THE GULF OF MEXICO AND ONE JUST SOUTH OF CAPE HATTERAS.
- (2) SOMETIMES THE POLAR FRONT BECOMES ALMOST STATIONARY ON A MORE EAST-WEST ORIENTATION JUST NORTH OF THIS AREA AND ENTERS THE ATLANTIC USUALLY A LITTLE SOUTH OF CAPE HATTERAS. THIS SITUATION LEAVES THIS AREA UNDER THE INFLUENCE OF A WARM SOUTHERLY FLOW, OFTEN CAUSING CLOUDY SKIES OR FOG.
- (3) VERY LITTLE SNOW FALLS DURING DECEMBER. THE MEAN SNOWFALL IS
 .2 INCHES AND THE MAXIMUM RECORDED WAS 2.7 INCHES.

- (4) THE OUTBREAKS OF ARCTIC AIR CAUSE GUSTY WINDS WITH A NORTHERLY COMPONENT AS A POLAR FRONT PUSHES THROUGH THIS AREA. WEATHER GENERALLY BECOMES VERY BAD JUST OFFSHORE AS THE FRONT PROCEEDS EASTWARD OVER THE GULF STREAM.
- (5) DECEMBER IS USUALLY ONE OF THE DRIER MONTHS OF THE YEAR WITH A MEAN RAINFALL OF 3.81 INCHES AND THE HUMIDITY AVERAGING 73.7%.
- (6) VFR CONDITIONS EXIST 87.5% OF THE TIME, HOWEVER, FOG OR GROUND FOG WILL OCCUR AT LEAST 18 DAYS MOSTLY DURING THE EARLY MORNING HOURS.

1.		FEBRUARY	MARCH 52.5	APRIL 62.3	MAY 69.9	JUNE 76.0
	A. MEAN MONTHLY TEMPERATURE	47.0 57.4	53.5 64.0	73.2	79.6	84.5
	B. MEAN DAILY MAXIMUM TEMPERATURE	36.1	42.6	50.8	59.7	67.1
	C. MEAN DAILY MINIMUM TEMPERATURE	11	3	1	0	0
	D. MEAN NO. OF DAYS TEMP. 32 DEGREES OR LESS	86.0 (1982)	88 (1974)	93 (1967)	98 (1962)	101 (1981)
	E. EXTREME MAXIMUM TEMPERATURE RECORDED FOR MONTH	13.0 (1965)	12 (1980)	26 (1972)	32 (1963)	45 (1966)
2.	HUMIDITY				ONE STATE	
	A. MEAN RELATIVE HUMIDITY	68.8 %	68.4 %	65.2 %	72.6 %	72.8 %
3.	PRECIPITATION					The second second
	A. MEAN MONTHLY RAINFALL3.42"	3.99"	3.31"	2.93"	4.15"	5.94"
	B. MEAN NO. DAYS WITH .01 IN. OR MORE9	8.5	10	9	10	10
	C. MAXIMUM AMOUNT OF RAINFALL RECORDED FOR MONTH	9.06" (1983)	8.0" (1980)	6.53" (1978)	8.36" (1974)	11.82" (1965
	D. MINIMUM AMOUNT OF RAINFALL RECORDED FOR MONTH	1.50" (1978)	0.75" (1967)	0.50" (1976)	0.63" (1983)	0.97" (1954)
	E. MEAN MONTHLY SNOWFALL	1.3"	TRACE 19.1" (1980)	0"	0"	0"
	F. MAXIMUM SNOWFALL RECORDED FOR MONTH	13.4" (1973) 4.16 (1984)	2.39" (1978)	4.33" (1964)	3.87" (1977)	2.77" (1974)
	G. MAXIMUM PRECIPITATION RECORDED FOR 24 HOURS	4.10 (1904)	2.39 (1910)	4.33 (1904)	3.01 (1)117	
4.		4 %	1 %	0.7 %	1.4 %	2.5 %
	A. PERCENTAGE FREQUENCY OF HOURLY OCCURRENCE	4 %	1 /0	0.1 /6	1.4 //	2.7 /
5.	FOG ON THE PROPERTY OF THE PRO	12.4 %	15.8 %	11.2 %	16.3 %	17.2 %
	A. PERCENTAGE FREQUENCY OF HOURLY OCCURRENCE	12.4 %	15.0 %	11.2 //	10.3 %	11.5 %
6.						
	A. PREVAILING DIRECTIONNORTHERLY	SOUTHERLY	WESTERLY	SOUTHWEST	SOUTHWEST	SOUTHWEST
	B. MEAN SPEED	5.5 KTS	5.9 KTS	6.2 KTS	5.3 KTS	4.7 KTS 54 KTS (1982
	C. PEAK GUST RECORDED FOR MONTH	72 KTS	46 KTS (1967)	46 KTS (1960)	48 (1968)	54 KTS (1902
7.		1 0). C managed	6.1 TENTHS	6.4 TENTHS
	A. MEAN MONTHLY CLOUD COVER	4.8 TENTHS 96.3 %	5.9 TENTHS 95.6 %	4.5 TENTHS 99.3 %	98.1 %	98.4 %
	B. PERCENT CEILING GREATER THAN 500'	90.5 %	89.5 %	96.0 %	95.2 %	94.8 %
	C. PERCENT CEILING GREATER THAN 1000'	81.0 %	78.2 %	87.1 %	80.1 %	76.8 %
	D. PERCENT CEILING GREATER THAN 3000'	75.1 %	70.0 %	80.9 %	71.3 %	71.8 %
	F. PERCENT VISIBILITY GREATER THAN 1 MILE	97.8 %	98.2 %	99.9 %	98.7 %	98.7 %
	G. PERCENT VISIBILITY GREATER THAN 3 MILES	94.2 %	93.7 %	98.0 %	96.6 %	96.3 %
	H. PERCENT VISIBILITY GREATER THAN 5 MILES	87.9 %	88.2 %	94.0 %	88.9 %	87.7 %
Q	ETET D CONDITITIONS					
0.	A. IFR-CEILING LESS THAN 1000' AND/OR VISIBILITY BELOW 3 MILES16.1 %	11.3 %	11.9 %	4.8 %	6.5 %	7.2 %
	B. BELOW MINS-CEILING LESS THAN 200' AND/OR VISIBILITY BELOW \$ MILES10.1 %	1.3 %	1.5 %	0.2 %	1.4 %	0.3 %
	2. DESCRIPTION DESCRIPTION OF THE CO. THE CO. LEGISLAND STREET PROPERTY STREET, NO. 1					

1.	TEMPERATURE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	A. MEAN MONTHLY TEMPERATURE	.79.6	79.3	74.3	63.4	55.0	47.4
	B. MEAN DAILY MAXIMUM TEMPERATURE		87.4	82.9	74.1	66.1	58.1
	C. MEAN DAILY MINIMUM TEMPERATURE		71.2	65.6	54.7	43.9	36.8
	D. MEAN NO. OF DAYS TEMP. 32 DEGREES OR LESS	.0	0	0	0	4	8
	E. EXTREME MAXIMUM TEMPERATURE RECORDED FOR MONTH	.101 (1983)	101 (1968)	97 (1973)	91 (1981)	89 (1973)	82 (1981)
	F. EXTREME MINIMUM TEMPERATURE RECORDED FOR MONTH	.54 (1975)	57 (1957)	44 (1981)	26 (1962)	19 (1970)	10 (1983)
2.	HUMIDITY						
	A. MEAN RELATIVE HUMIDITY	.74 %	77.8 %	78.7 %	78.5 %	74.4 %	73.7 %
3.	PRECIPITATION						
	A. MEAN MONTHLY RAINFALL	.8.08"	6.46"	4.31"	3.06"	2.6"	3.81"
	B. MEAN NO. DAYS WITH .Ol IN. OR MORE		12	12	7	7	11
	C. MAXIMUM AMOUNT OF RAINFALL RECORDED FOR MONTH		12.64" (1974)	12.19" (1970)	6.49" (1977)	6.54" (1963)	7.81" (1983)
	D. MINIMUM AMOUNT OF RAINFALL RECORDED FOR MONTH	2.32" (1956)	1.69" (1972)	1.40" (1965)	0.70" (1981)	0.57" (1956)	0.38" (1955)
	E. MEAN MONTHLY SNOWFALL		0"	0"	0"	TRACE	0.20"
	F. MAXIMUM SNOWFALL RECORDED FOR MONTH		0"	0"	0"	TRACE	2.70" (1970)
	G. MAXIMUM PRECIPITATION RECORDED FOR 24 HOURS	5 35" (1959)	6.71" (1981)	6.15" (1979)	2.36" (1977)	3.20" (1963)	3.54" (1978)
	THAT I I DOTT THE TOTAL	• / • 3/ (± / / / /	(1)				
4.	THUNDERSTORMS						
	A. PERCENTAGE FREQUENCY OF HOURLY OCCURRENCE	.2.9 %	2.8 %	1.7 %	0.2 %	0.1 %	0.2 %
5.	FOG						
	A. PERCENTAGE FREQUENCY OF HOURLY OCCURRENCE	16 %	23.2 %	24.1 %	17.9 %	12.4 %	18.7 %
		.10 //					
6.	WIND						
	A. PREVAILING DIRECTION	.SOUTHWEST	SOUTH	NORTH	NNE	NORTHERLY	WESTERLY
	B. MEAN SPEED	.3.6 KTS	3.5 KTS	3.5 KTS	4.2 KTS	5.4 KTS	4.9 KTS
	C. PEAK GUST RECORDED FOR MONTH		39 KTS (1974)	70 KTS (1958)	42 KTS (1982)	50 KTS (1962)	51 KTS (1975)
7.	CLOUD COVER AND VISIBILITY						
	A. MEAN MONTHLY CLOUD COVER.	6 menunuc	6.1 TENTHS	6.0 TENTHS	4.9 TENTHS	4.4 TENTHS	5.4 TENTHS
	B. PERCENT CEILING GREATER THAN 500'		98.6 %	97.9 %	97.8 %	98.6 %	96.1 %
			96.5 %	94.5 %	92.3 %	95.8 %	90.0 %
	C. PERCENT CEILING GREATER THAN 1000'			[2] [1] [1] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	78.5 %	86.7 %	77.8 %
	D. PERCENT CEILING GREATER THAN 3000'		79.8 %	79.2 %			68.3 %
	E. PERCENT CEILING GREATER THAN 5000'		72.5 %	68.8 %	72.8 %	81.6 %	
	F. PERCENT VĮSIBILITY GREATER THAN 1 MILE		98.6 %	98.4 %	98.2 %	98.6 %	98.7 %
	G. PERCENT VISIBILITY GREATER THAN 3 MILES		94.3 %	94.0 %	95.4 %	96.7 %	94.1 %
	H. PERCENT VISIBILITY GREATER THAN 5 MILES	.84.4 %	83.8 %	85.8 %	88.7 %	92.4 %	98.5 %
8.	FIELD CONDITIONS						
	A. IFR-CEILING LESS THAN 1000' AND/OR VISIBILITY BELOW 3 MILES	5.3 %	7.4 %	9.1 %	9.5 %	9.1 %	12.5 %
	B. BELOW MINS-CEILING LESS THAN 200' AND/OR VISIBILITY BELOW 1/2 MI		0.3 %	1.1 %	3.0 %	1.8 %	0.5 %
	D. DEBON MIND-OFIDING DEDO THAN 200 MINDON ATOTOTION 5 MINO STORES	/0	0.5 /				

CHAPTER &

ENVIRONMENTAL CONSIDERATIONS

- 1. PURPOSE. THE PURPOSE OF THIS CHAPTER IS TO PROVIDE INFORMATION AND INSTRUCTIONS REGARDING THE PROTECTION OF CAMP LEJEUNE'S NATURAL ENVIRONMENT.
- 2. SCOPE. INFORMATION PERTAINING TO CAMP LEJEUNE ENVIRONMENTAL AFFAIRS NOT FOUND IN THIS CHAPTER CAN BE OBTAINED BY CONTACTING THE ENVIRONMENTAL ENGINEER OR ASSISTANT CHIEF OF STAFF FOR FACILITIES, MCB, CAMP LEJEUNE (EXT. 3034).

3. ENVIRONMENTAL PRECAUTIONS AND INSTRUCTIONS.

A. WASTE WATER DISPOSAL:

- (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 3,000 GALLON FABRIC TANK (TAMCN B2130). DISPOSAL WILL BE ACCOMPLISHED BY CALLING EXTENSIONS 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 OPERATIONS. THE MCB NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION (EXT. 5003/2195) IS RESPONSIBLE FOR CERTIFYING SITE APPROVAL.

B. SANITARY WASTE:

- (1) HUMAN WASTES WILL BE DISPOSED OF THROUGH THE USE OF RENTAL, PORTABLE SANITATION UNITS LOCATED THROUGHOUT BASE TRAINING AREAS. WITH THE EXCEPTION OF INDIVIDUAL "CAT-HOLES", FIELD SANITATION FACILITIES WILL NOT BE CONSTRUCTED.
- (2) TO OBTAIN RENTAL SANITATION UNIT SUPPORT, SUBMIT A DD FORM 1149
 VIA THE CHAIN OF COMMAND TO THE ASSISTANT CHIEF OF STAFF, LOGISTICS, MARINE
 CORPS BASE (EXT. 5813/5095). RANGE CONTROL WILL PROVIDE GUIDANCE ON THE GENERAL LOCATIONS PERMISSIBLE FOR ESTABLISHING THESE FACILITIES.

C. SPILL PREVENTION, CONTAINMENT AND CLEAN UP:

(1) PREVENTION OF OIL AND HAZARDOUS MATERIAL SPILLS AND THE RESULTING ENVIRONMENTAL DAMAGE IS THE RESPONSIBILITY OF ALL COMMANDERS.

- (2) HOSES, NOZZLES AND CONNECTIONS WILL BE CHECKED FREQUENTLY TO AVOID SEEPAGE OF FUEL AND OIL.
- (3) REFUELER OPERATORS WILL REMAIN WITH THEIR VEHICLES DURING REFUEL-ING OPERATIONS.
- (4) TANKER VEHICLES WILL BE PARKED IN SUCH A MANNER AS TO AVOID THE POSSIBILITY OF SPILLED FUEL ENTERING NATURAL OR MAN-MADE DRAINAGE SYSTEMS.
- (5) IN THE EVENT OF A SPILL (MORE THAN ONE GALLON), THE FOLLOWING PROCEDURES WILL BE STRICTLY ADHERED TO:
- (a) CONTACT "BLACKBURN" ON 38.60 (OLD SQUELCH) FM/325.0 UHF, TELE-PHONE EXTENSION 3064 OR CALL THE BASE FIRE DEPARTMENT (EXT. 3333).
- (b) PERSONS ON SITE SHALL ATTEMPT TO ERECT A SAND OR EARTHEN DAM AROUND THE PERIMETER OF THE SPILL.
 - (c) KEEP UNAUTHORIZED/UNNECESSARY PERSONNEL OUT OF THE SPILL AREA.
 - (d) PROVIDE PERSONNEL AND EQUIPMENT SUPPORT FOR SPILL CONTAINMENT.
- (6) SPILL CLEAN UP WILL BE ACCOMPLISHED BY PERSONNEL FROM THE UNIT RESPONSIBLE FOR CREATING OR CAUSING THE SPILL. CLEAN UP PROCEDURES WILL BE ESTABLISHED AND ENFORCED BY THE NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS
 DIVISION.

D. FIELD SERVICING OF VEHICLES:

- (1) ALL WASTE PETROLEUM PRODUCTS UTILIZED DURING FIELD TRAINING WILL BE CONTAINED (I.E., IN 55 GALLON DRUMS) AND DISPOSAL INSTRUCTIONS OBTAINED FROM THE HAZARDOUS MATERIALS DISPOSAL COORDINATOR OF THE PARTICIPATING COMMAND.
- (2) THE USE OF DRIP PANS AND GROUND CLOTHS IS REQUIRED DURING OIL CHANGES AND FUELING OF EQUIPMENT.
- (3) CLEANING SOLVENTS AND CLEANING AGENTS ARE HAZARDOUS TO THE ENVIRONMENT. THESE MATERIALS WILL BE STORED IN SUITABLE CONTAINERS AND WASTE FLUIDS
 RETAINED UNTIL THE CONCLUSION OF FIELD EXERCISES/TRAINING. DISPOSAL OF THESE
 MATERIALS WILL BE IN ACCORDANCE WITH BO 6240.5.

E. PROTECTION OF WETLANDS:

- (1) THE OPERATION OF EARTH-MOVING EQUIPMENT WITHIN WETLANDS WILL BE STRICTLY AVOIDED.
- (2) SPILLAGE OF ANY MATERIAL OR LIQUID IN WETLANDS, REGARDLESS OF QUANTITY, WILL BE REPORTED IMMEDIATELY TO THE BASE NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION (EXT. 5003/2195).

F. ARCHAEOLOGICAL AND HISTORICAL SITES:

- (1) WEIL POINT: WEIL POINT IS LOCATED ON THE SOUTHERN BANK OF FRENCHS CREEK WITHIN TRAINING AREA H, SECTION HD (GRID SQUARE 8535) AND HAS BEEN DESIGNATED AS AN ARCHAEOLOGICAL SITE. MOVEMENT OF TROOPS AND VEHICLES WILL BE CONFINED TO DESIGNATED TRAILS. INFANTRY UNITS WILL USE EXISTING FIGHTING POSITIONS. TRACKED VEHICLES ARE RESTRICTED TO THE TRACKED VEHICLE RAMP FOR ACCESS INTO AND OUT OF THE NEW RIVER.
- (2) JARRETT'S POINT TRAINING AREA: JARRETT'S POINT, LOCATED WITHIN TRAINING AREA J, SECTION JC (GRID SQUARE 8129), IS USED PREDOMINATELY BY THE 2D ASSAULT AMPHIBIAN BATTALION FOR DRIVER TRAINING AND BY MCAS (H), NEW RIVER UNITS FOR EXTERNAL LIFT TRAINING. PORTIONS OF THIS AREA ARE DESIGNATED AS ARCHAEOLOGICAL SITES AND TRAINING WILL BE RESTRICTED AS FOLLOWS:
- (a) TRACKED VEHICLE TRAINING IS PROHIBITED SOUTH OF A LINE EXTENDING FROM 810296 TO 820296. THE AREA IS MARKED BY SIGNS INDICATING A RESTRICTED AREA. HELICOPTER EXTERNAL LIFT OPERATIONS EMPLOYING SUPPORT TEAMS MAY BE CONDUCTED SOUTH OF THIS LINE. INGRESS AND EGRESS ROUTES WITHIN THIS AREA ARE RESTRICTED TO FOOT AND WHEELED TRAFFIC ALONG EXISTING TRAILS.
- (b) ROAD GRADING OR OTHER ENGINEER TRAINING WHICH WILL DISTURB THE SOIL IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE ASSISTANT CHIEF OF STAFF FOR TRAINING, MCB, CAMP LEJEUNE.

G. FOREST FIRE PREVENTION:

- (1) FIRE DANGER CLASSIFICATION: THE BASE FIRE DEPARTMENT COMPUTES THE FOREST FIRE DANGER RATING THREE TIMES DAILY USING THE NATIONAL FIRE DANGER PATING SYSTEM. WHEN A FIRE CONDITION III IS REACHED, THE RANGE CONTROL DUTY OFFICE.

 WILL NOTIFY ALL TRAINING UNITS. FIRE DANGER CONDITIONS AND RESTRICTIONS ARE DEFINED AS FOLLOWS:
- (a) CONDITION I: FIRE DANGER IS LOW. NO RESTRICTIONS IN AUTHORIZED RANGES AND TRAINING AREAS. NORMAL SAFETY PRECAUTIONS WILL BE FOLLOWED. A
 FIRE FIGHTING DETAIL, COMPOSED OF PERSONNEL FROM THE TRAINING UNIT WILL BE
 FORMED FOR THE PURPOSE OF COMBATING BRUSH FIRES THAT MAY OCCUR.
- (b) CONDITION II: FIRE DANGER IS MODERATE. THE USE OF TRAINING AREAS WILL BE AT THE DISCRETION OF THE COMMANDING OFFICER OF THE TRAINING UPPER CAUTION WILL BE PRACTICED IN THE USE OF PYROTECHNICS. FIRE FIGHTING DETAILS WILL BE KEPT ON STAND BY ALERT DURING TRAINING.
- (c) CONDITION III: FIRE DANGER IS HIGH. TWO FIRE FIGHTING DETAILS WILL BE FORMED WITHIN THE TRAINING UNIT WITH ONE DETAIL REMAINING ON STAND BY ALERT. HEAT TABS AND WARMING FIRES WILL BE IGNITED ONLY IN DESIGNATED AREAS UNDER THE SUPERVISION OF AN NCO. PYROTECHNICS ARE RESTRICTED TO AUTHORIZED RANGES.
- (d) CONDITION IV: FIRE DANGER IS VERY HIGH. PYROTECHNICS AR STRICTED TO THE G-10, K-2 AND N-1 IMPACT AREAS. SMOKING IS RESTRICTED TO FIRE-PROOFED AREAS (AREAS CLEARED OF ANY COMBUSTIBLES SUCH AS TWIGS, LEAVES, GRASS ETC.) DESIGNATED BY THE TRAINING UNIT COMMANDER AND MUST BE SUPERVISED BY AN NCO. THE USE OF GENERATORS WILL BE SUPERVISED BY AN NCO AND RESTRICTED TO AN AREA THAT HAS BEEN FIRE PROOFED TO MINERAL SOIL FOR 50 FEET AROUND EACH GENERATOR. USE OF HEAT TABS WILL BE LIMITED TO FIRE PROOFED AREAS AND SUPERVISED BY AN NCO. WARMING FIRES ARE NOT AUTHORIZED. TWO FIRE FIGHTING DETAILS WILL BE KEPT ON A STAND BY ALERT.

H. RESTRICTED TRAINING AND TRACKED VEHICLE MOVEMENT AREAS:

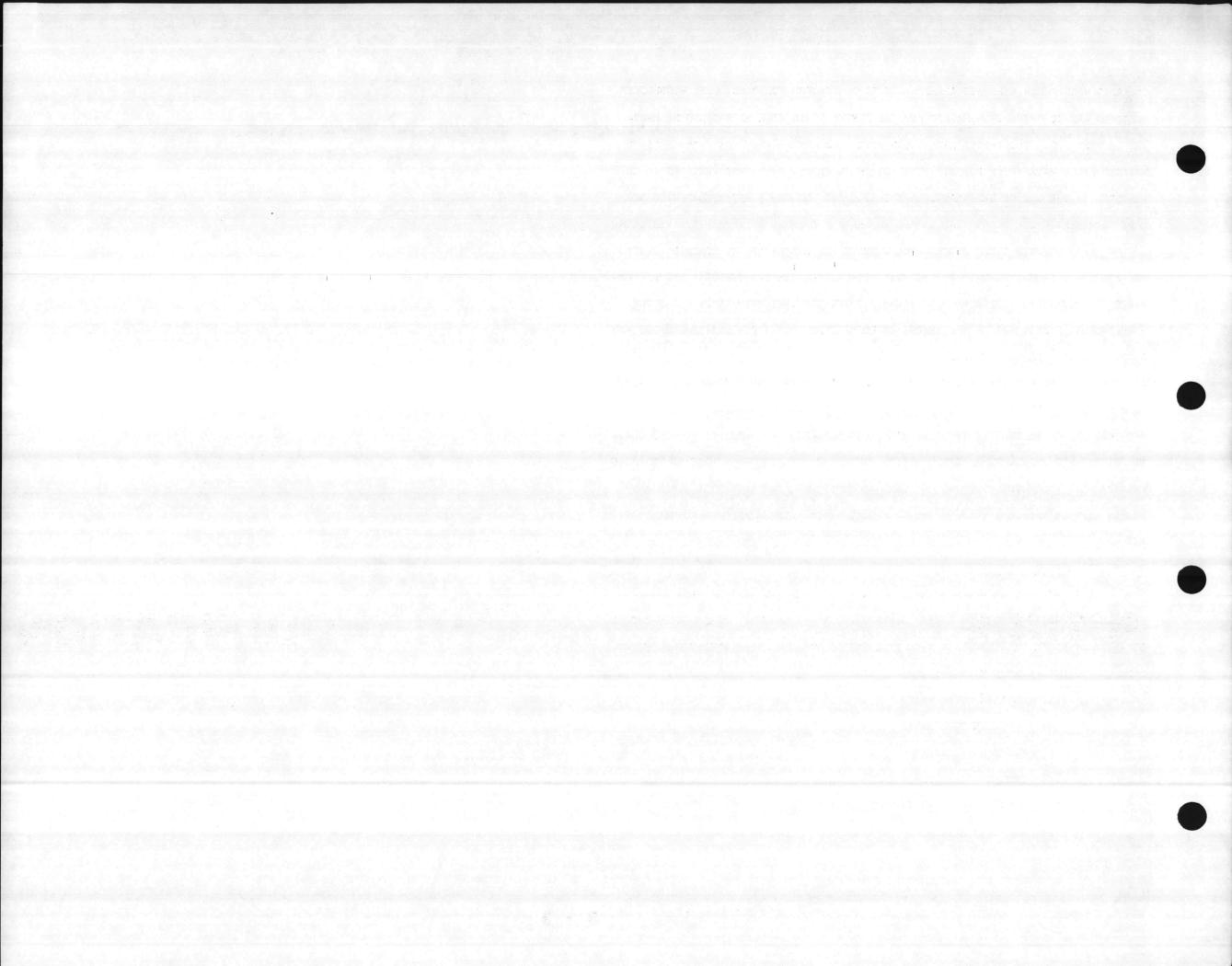
(1) PORTIONS OF CAMP LEJEUNE SUCH AS FISH MANAGEMENT PONDS AND RED-

COCKADED WOODPECKER HABITATS ARE OFF LIMITS TO TRACKED VEHICLES. THE WOODPECKER HABITATS ARE CONSPICUOUSLY MARKED AND THE BUFFER ZONES WILL BE AVOIDED BY MECHANIZED VEHICLES. PROHIBITED AREAS ALSO EXTEND 50 METERS FROM THE WATER EDGE OF MANAGED FRESH WATER FISH PONDS. ENTERING THESE AREAS BY TRACKED VEHICLES IS RESTRICTED TO THE USE OF DESIGNATED TANK TRAILS AND ROADS. EVERY EFFORT WILL BE MADE TO MINIMIZE THE ECOLOGICAL DAMAGE TO AREAS TRAVERSED BY MECHANIZED VEHICLES.

- (2) CERTAIN AREAS AROUND ONSLOW BEACH ARE RESTRICTED TO TRAINING DURING THE NESTING SEASON (MAY-OCTOBER) FOR THE ATLANTIC LOGGERHEAD TURTLE. THE DISTURBANCE OF LOGGERHEAD TURTLE NESTING AREAS, TO INCLUDE VEHICULAR TRAFFIC AND CONSTRUCTION OF TANK TRAPS ON THE BEACH, IS PROHIBITED. ONLY DESIGNATED INGRESS AND EGRESS ROUTES WILL BE UTILIZED.
- (3) TRACKED VEHICLES WILL CROSS RAILROAD TRACKS AND HARD-SURFACE ROADS ONLY AT DESIGNATED CROSSINGS (TANK PADS) DURING ROUTINE OPERATIONS. DURING TACTICAL EXERCISES TRACKED VEHICLES MAY CROSS HARD-SURFACE ROADS AT NON-DESIGNATED POINTS, BUT ONLY WHEN A SAFE CROSSING CAN BE ASSURED AND NO DAMAGE TO THE ROAD WILL RESULT. ONCE THE CROSSING HAS BEEN ACCOMPLISHED, THE UNIT WILL CLEAR ANY DEBRIS LEFT ON THE ROAD (I.E., DIRT OR MUD) TO ELIMINATE HAZARDS TO NORMAL TRAFFIC.

I. DANGEROUS WILDLIFE:

- (1) CERTAIN ANIMAL SPECIES INDIGENOUS TO THE CAMP LEJEUNE AREA ARE
 CAPABLE OF CAUSING INJURY OR DEATH TO UNSUSPECTING PERSONNEL. FIELD UNITS SHOULD
 BE AWARE OF THEIR EXISTENCE AND TAKE PRECAUTIONS TO AVOID THEM WHENEVER POSSIBLE.
 SOME OF THE MOST COMMON WILDLIFE THREATS ARE:
 - (a) EASTERN CORAL SNAKE
 - (b) SOUTHERN COPPERHEAD
 - (c) PIGMY RATTLESNAKE
 - (d) EASTERN DIAMONDBACK RATTLESNAKE
 - (e) EASTERN COTTONMOUTH/WATER MOCCASIN
 - (f) AMERICAN ALLIGATOR



CHAPTER



FUTURE CONSTRUCTION AND MODIFICATION

1. PURPOSE. MARINE CORPS BASE CAMP LEJEUNE HAS UNDERGONE MANY MODIFICATIONS SINCE ITS ESTABLISHMENT. THE PURPOSE OF THIS CHAPTER IS TO PROVIDE A COMPRE-HENSIVE LISTING OF BUDGETED AND PROPOSED MILITARY CONSTRUCTION TO INCLUDE FA-CILITIES MODIFICATIONS PROGRAMMED TO OCCUR DURING FISCAL YEARS 1984 THROUGH 1991. FOR MORE DETAILED INFORMATION, CONTACT FACILITIES PLANNING DIVISION, MCB,

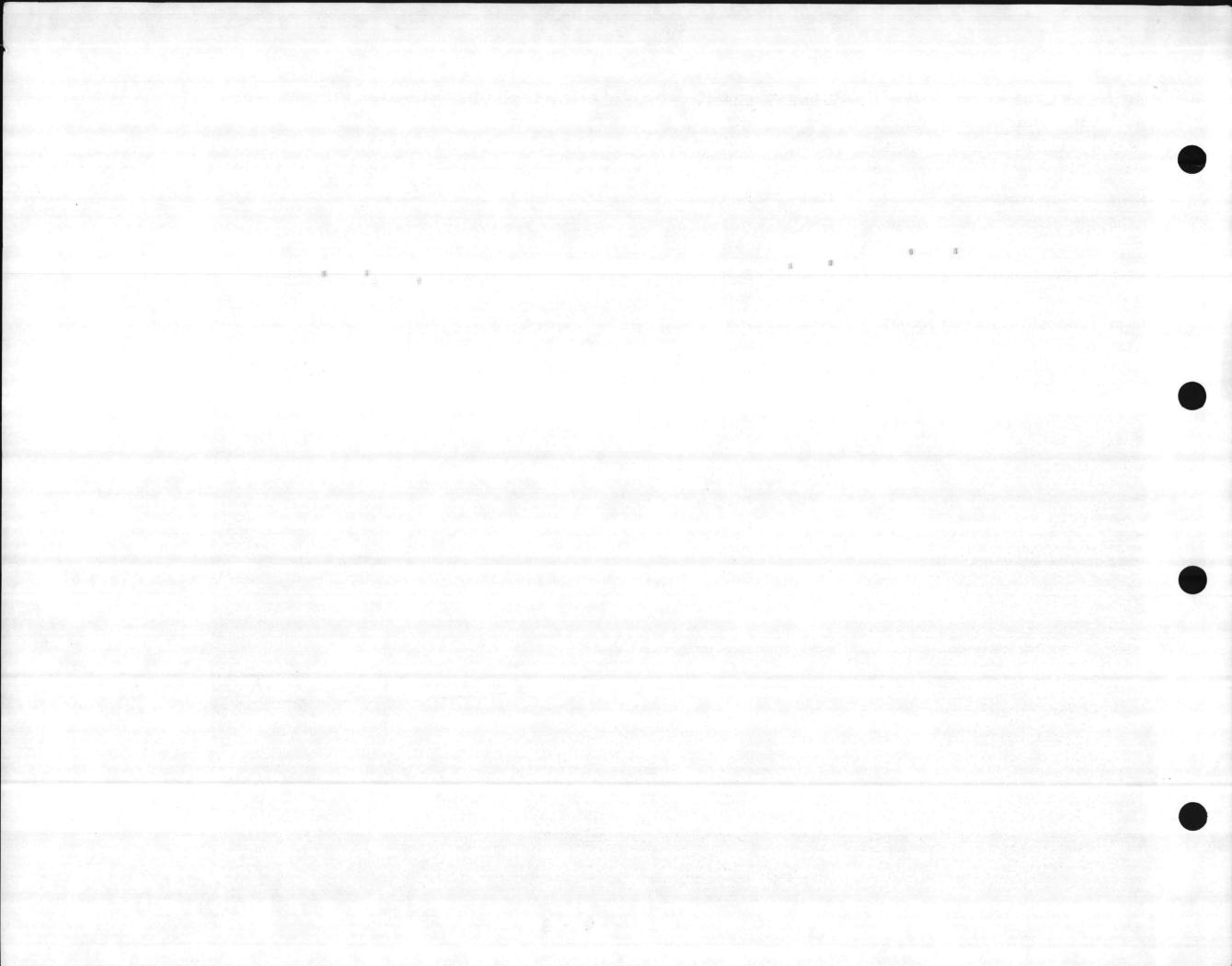
CAMP LEJEUNE, NORTH CAROLINA. (EXT. 3034)								
	CLNC NEW CONSTRUCTION							
CODE	PROJECT TITLE	I.D. NUMBER	STATUS					
	CAMP GEIGER AREA	<u>A</u>						
740-69	ADDITION/ALTERATIONS, NCO/ENLISTED	P-466/N-223	UNDER DESIGN					
	CLUB, CAMP GEIGER							
	CAMP GEIGER AREA	. В						
730-55	CONSTRUCT MULTIPURPOSE ROOM, STONE	P-8561/F-646	UNDER DESIGN/FY-86					
	ST. SCHOOL							
730-55	EXPAND ELEMENTARY SCHOOL LIBRAR-	P-585	FY-87					
	IES, ST. DELALIO, TT-1, BERKELEY							
	MANOR							
740-30	MCAS/CAMP GEIGER AREA EXCHANGE	P-603/N-305	UNDER DESIGN/FY-86					
	SERVICE STATION							
	MONTFORD POINT A	REA						
171-30	MOTOR TRANSPORT MECHANIC SCHOOL	P-808	UNDER DESIGN/FY-86					
721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-628	UNDER CONST/FY-84					
	HOUSING							
722-10	ENLISTED DINING FACILITY	P-663	FY-87					
171-20	MOTOR TRANSPORT MECHANIC SCHOOL	P-809	FY-87					
171-20	MOTOR TRANSPORT MECHANIC SCHOOL	P-810	FY-88					
171-10	FIELD MEDICAL SERVICE SCHOOL FACILITY	P-828	FY-89					
750-10	LIGHTS, TENNIS COURTS AND SM-245	P-838	FY-85					

CODE	PROJECT TITLE	I.D. NUMBER	STATUS			
TARAWA TERRACE HOUSING AREA						
740-02	EXCHANGE, TARAWA TERRACE	P-8161/N-511	FY-85			
841-09	WATER TREATMENT PLANT	P-785	UNDER	DESIGN/FY-85		
730-55	CONSTRUCTION, MODULE, TT-1 ELEMENTARY	P-8571/F-645	UNDER	DESIGN/FY-86		
	SCHOOL					
730-55	EXPAND ELEMENTARY SCHOOL LIBRARY	P-858	FY-87			
730-83	CHAPEL, TARAWA TERRACE	P-824	FY-88			
	PARADISE POINT AF	REA				
730-55	CONSTRUCT MULTIPURPOSE ROOM, STONE	P-856/F-646	FY-86			
	STREET SCHOOL					
730-55	EXPAND ELEMENTARY SCHOOL LIBRARIES	P-858	FY-87			
724-11	UNACCOMPANIED OFFICER PERSONNEL	P-124	FY-91			
	HOUSING					
	BERKELEY MANOR HOUSIN	IG AREA				
730-60	DEPENDENT HIGH SCHOOL	P-8271/F-549	UNDER	DESIGN/FY-86		
610-10	CONVERT BREWSTER HIGH SCHOOL TO	P-854/F-644	UNDER	DESIGN/FY-86		
	ADMIN COMPLEX					
841-09	WATER TREATMENT PLANT	P-785	UNDER	DESIGN/FY-86		
730-66	REROOF HIGH SCHOOL (BLDG# 825)	P-8551/F-643	UNDER	DESIGN/FY-86		
730-55	EXPAND ELEMENTARY SCHOOL LIBRARY	P-858	FY-87			
851-10	ROADS (BREWSTER BLVD OVERPASS)	P-627	FY-87			
	HOSPITAL POINT A	AREA				
610 - 70	MAGTF HQ	P-802	UNDER	DESIGN/FY-85		
	HADNOT POINT AREA, 2ND DIV 100,	200 AND 300 A	REAS			
721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-630	FY-90			
	HOUSING					
214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-266	FY-90			
841-09	WATER TREATMENT PLANT	P-785	UNDER	DESIGN/FY-85		

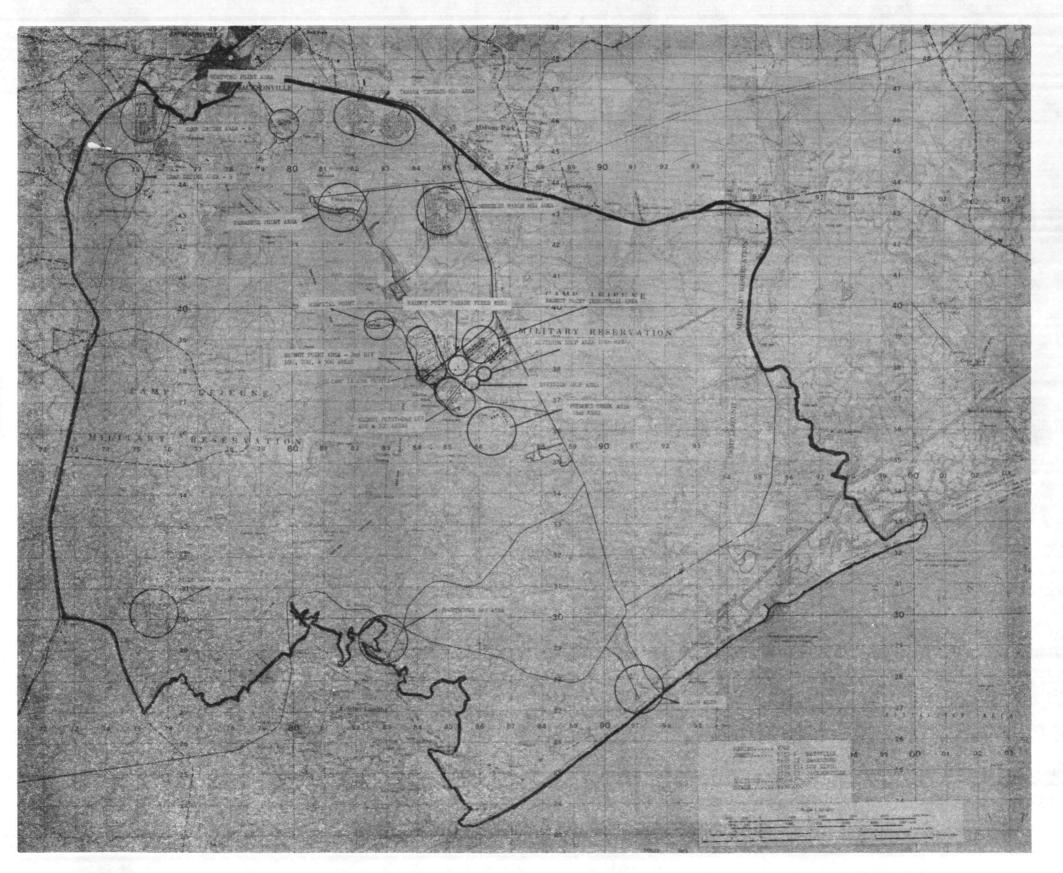
CODE	PROJECT TITLE	I.D. NUMBER	STATUS	CODE	PROJECT TITLE	I.D. NUMBER	STATUS
217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-266	UNDER DESIGN/FY-86	214-51	LIGHT ARMORED VEHICLE SHOPS	P-806	FY-86
	SHOP			721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-627	FY-87
217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-643	FY-87		HOUSING		
	SHOP			721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-262	FY-88
214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-525	FY-87		HOUSING		
721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-629	FY-89	214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-196	FY-90
	HOUSING			217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-644	FY-90
	HADNOT POINT PARADE FIELD	AREA			SHOP		
740-36	HOBBY SHOP	P-773	FY-88	441-12	STORAGE/OUT OF STORES	P-507	FY-91
740-43	PHYSICAL FITNESS FACILITY	P-298	FY-88		FRENCHS CREEK AREA		
	HADNOT POINT INDUSTRIAL	AREA		214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-054	FY-85
740-63	RENOVATE ENLISTED CLUB (BLDG# 1006)	P-833	UNDER CONSTRUCTION	214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-240	UNDER CONST/FY-84
821-09	COAL PILE RUNOFF	P-780	UNDER CONST/FY-84	217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-538	UNDER CONST/FY-84
610-20	REGIONAL AUTOMOTIVE SERVICE CENTER	P-842	FY-88		SHOP		
740-XX	MCX COMPLEX	P-797	FY-88	214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-517	FY-88
	DIVISION SHOP AREA, 10TH MA	ARINES		740-40	BOWLING ALLEY	P-259	FY-86
214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-678	FY-88	740-32	SELF-SERVICE GAS STATION AND CAR WASH	P-840	FY-86
	DIVISION SHOP AREA, CENTE	<u>ER</u>		214-53	FIELD MAINTENANCE SHOP	P-275	FY-87
217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-229	FY-89	214-53	FIELD MAINTENANCE SHOP	P-803	FY-88
	SHOP	Grytobile	Markey Server	214-53	FIELD MAINTENANCE SHOP	P-805	FY-90
441-12	STORAGE/OUT OF STORES	P-510	FY-91	214-53	FIELD MAINTENANCE SHOP	P-840	FY-89
441-12	STORAGE/OUT OF STORES	P-567	FY-91	217-30	COMMUNICATIONS/ELECTRONICS FIELD MAINT-	P-679	FY-89
All and the second	HADNOT POINT AREA, 2ND DIV 400 AN	ND 500 AREAS			ENANCE SHOP		
721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-624	FY-85	217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-541	FY-90
	HOUSING				SHOP		
831-09	SEWAGE SYSTEM IMPROVEMENT	P-790	FY-86	217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-542	FY-90
721-11	UNACCOMPANIED ENLISTED PERSONNEL	P-631	FY-86		SHOP		
	HOUSING			214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-266	FY-90

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CODE	PROJECT TITLE	I.D. NUMBER	STATUS
214-51	COMBAT VEHICLE MAINTENANCE SHOP	P-027	FY-87
217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-167	FY-87
	SHOP		
610-72	BATTALION HEADQUARTERS	P-031	FY-87
217-10	COMMUNICATIONS/ELECTRONICS MAINTENANCE	P-564	FY-89
	SHOP		
550-10	MEDICAL/DENTAL CLINIC	P-701	FY-87
740-43	GYMNASIUM	P-065	FY-88
179-55	COMBAT TRAINING POOL/TANK (INDOOR)	P-844	FY-91
143-45	ARMORY	P-227	FY-91
610-70	2D FSSG HEADQUARTERS	P-057	FY-87
	RIFLE RANGE AREA		
740-63	RENOVATE ENLISTED CLUB (BLDG# RR-49)	P-835	UNDER CONST/FY-84
	COURTHOUSE BAY AREA		
822-12	UTILITIES IMPROVEMENT	P-784	UNDER CONST/FY-84
740-84	HANDBALL/RACQUETBALL COURTS	P-823	FY-87
740-63	ENLISTED CLUB	P-836	FY-85
055-10	MEDICAL/DENTAL CLINIC	P-607	FY-88
441-12	STORAGE/OUT OF STORES/ARMORY	P-417	FY-91
740-69	RENOVATE NCO CLUB	P-839	FY-88
	BEACH AREA		
740-81	RECREATIONAL LODGE/MOTEL	P-775	UNDER DESIGN/FY-84



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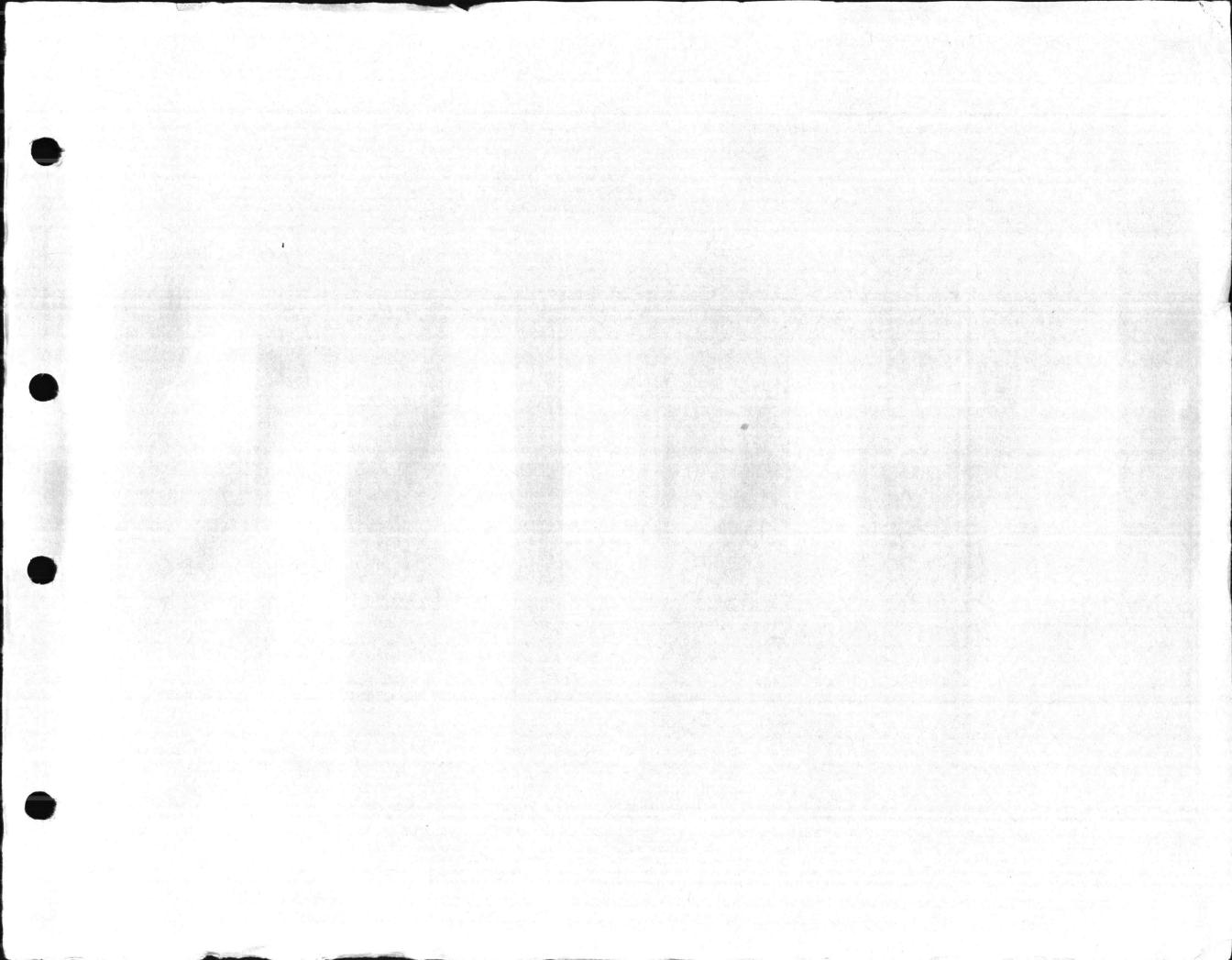
APPENDIX A



APPENDIX B



APPENDIX C





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