



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

IN REPLY REFER TO  
 4/SEA/peg  
 11000.1  
 13 Feb 1984

*add Cy.*

From: Commanding Officer  
 To: Commanding General, Marine Corps Base (Attn: Facilities Officer)  
 Via: Commanding General, 2d Marine Division, FMF (Attn: G-4)

Subj: Recommended Capabilities for Proposed Military Construction

1. Current planning calls for the construction of three new facilities to support 10th Marines. Each facility must meet certain specifications in order to satisfy the space requirements and functional capabilities required to effectively store and maintain the equipment involved. Accordingly, the following recommendations are provided to assist in the planning for each proposed facility.

a. Fourth Battalion, 10th Marines Motor Transport/Ordnance Maintenance Facility.

(1) Space Requirement. The facility should have enough asphalt space to store the following equipment:

| TAMCN | DESCRIPTION            | QUANTITY |
|-------|------------------------|----------|
| A1875 | Radio Jeep, AN/GRC-160 | 12       |
| A1930 | Radio Jeep, AN/MRC-110 | 8        |
| A1935 | Radio Jeep, AN/MRC-138 | 5        |
| B2565 | Forklift               | 6        |
| D0840 | Trailer                |          |
| D0860 | Trailer                |          |
| D0880 | Water                  |          |
| D0890 | Ambulance              |          |
| D1020 | Truck                  |          |
| D1059 | Truck                  |          |
| D1110 | Fuel                   |          |
| D1160 | Truck                  |          |
| D1210 | Wrecker                |          |
| E0665 | Howitzer               |          |

*10th Mar will send NSUNOS*

*Need USMC EQVTS*

*USE FOR DESIGN INFORMATION AT The Pre Neog. meeting*

*#1450 (3rd BA) 19,053 SF*

(2) Functional maintenance, the facility

\* *For the dwg.* (a) Eight covered with water and high pressure cleaning capability is also recommended.

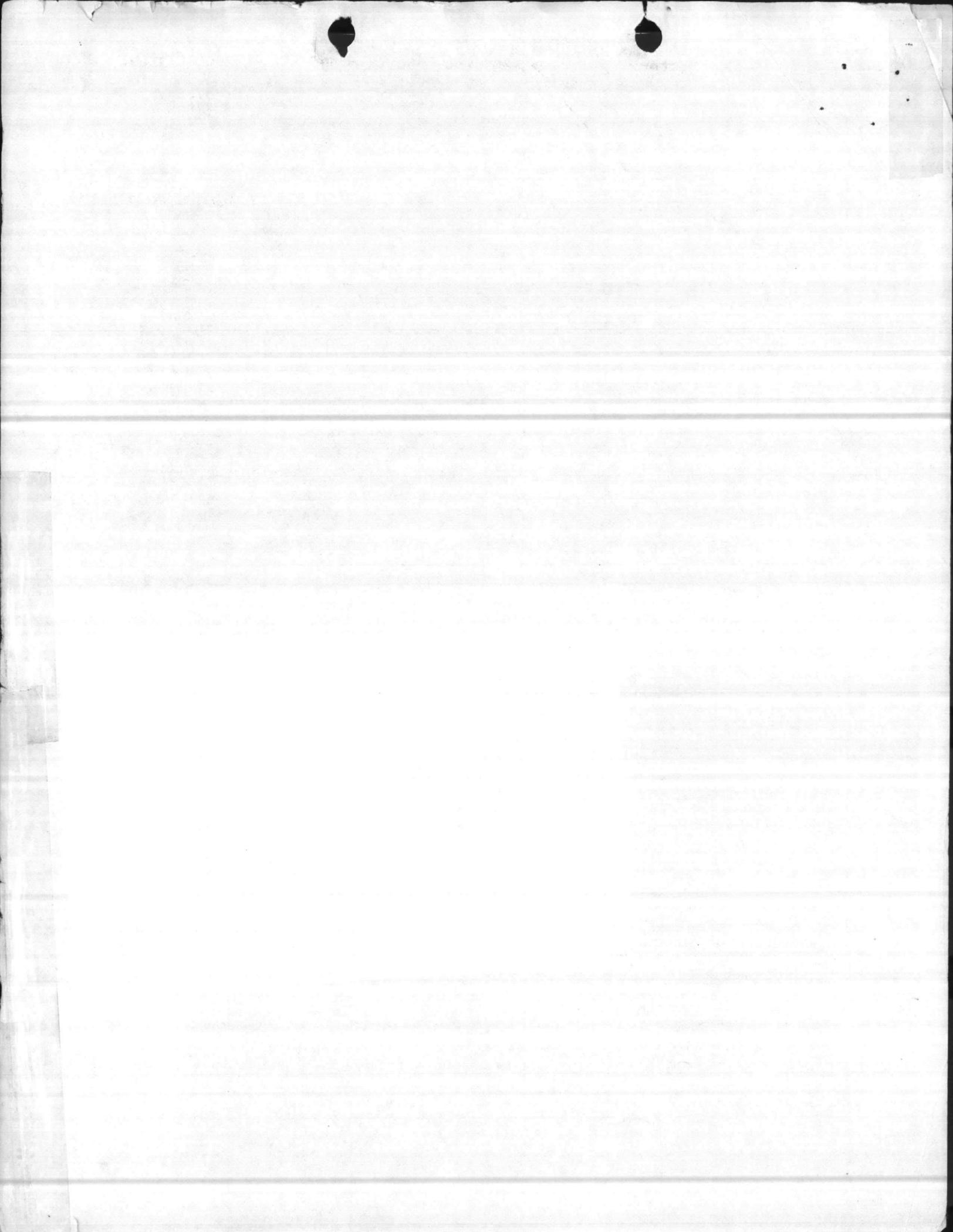
(b) Two fuel pumps (one MOGAS, one diesel).

*Part 14 cover - two opposing*

(c) Eight maintenance bays (approximately 30'x60') for maintenance of howitzers and motor transport assets. Bays should be equipped with hydraulic lifts, drop lights, an oil sump, and pressure hook-ups for oil, grease, and air with overhead dispensing outlets.

*Floor Drain / oil / parts / air / clean floor*

*Bay*





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

IN REPLY REFER TO  
4/SEA/peg  
11000.1  
13 Feb 1984

*add by*

From: Commanding Officer  
To: Commanding General, Marine Corps Base (Attn: Facilities Officer)  
Via: Commanding General, 2d Marine Division, FMF (Attn: G-4)

Subj: Recommended Capabilities for Proposed Military Construction

1. Current planning calls for the construction of three new facilities to support 10th Marines. Each facility must meet certain specifications in order to satisfy the space requirements and functional capabilities required to effectively store and maintain the equipment involved. Accordingly, the following recommendations are provided to assist in the planning for each proposed facility.

a. Fourth Battalion, 10th Marines Motor Transport/Ordnance Maintenance Facility.

(1) Space Requirement. The facility should have enough asphalt space to store the following equipment:

| TAMCN | DESCRIPTION                  | QUANTITY |
|-------|------------------------------|----------|
| A1875 | Radio Jeep, AN/GRC-160       | 12       |
| A1930 | Radio Jeep, AN/MRC-110       | 8        |
| A1935 | Radio Jeep, AN/MRC-138       | 5        |
| B2565 | Forklift MC-4000             | 6        |
| D0840 | Trailer, M416                | 25       |
| D0860 | Trailer, M105A2              | 32       |
| D0880 | Water Tank M149A1            | 7        |
| D0890 | Ambulance M718A1             | 1        |
| D1020 | Truck (1 1/2 Ton) M561       | 5        |
| D1059 | Truck (5 Ton) M923           | 48       |
| D1110 | Fuel Truck (2 1/2 Ton) M49A2 | 1        |
| D1160 | Truck (1/2 Ton) M151A2       | 26       |
| D1210 | Wrecker (5 Ton) M543A2       | 1        |
| E0665 | Howitzer (155mm) M198        | 18       |

*10th div will send NSN Nos*

*Need USA EGVTS*



*195*

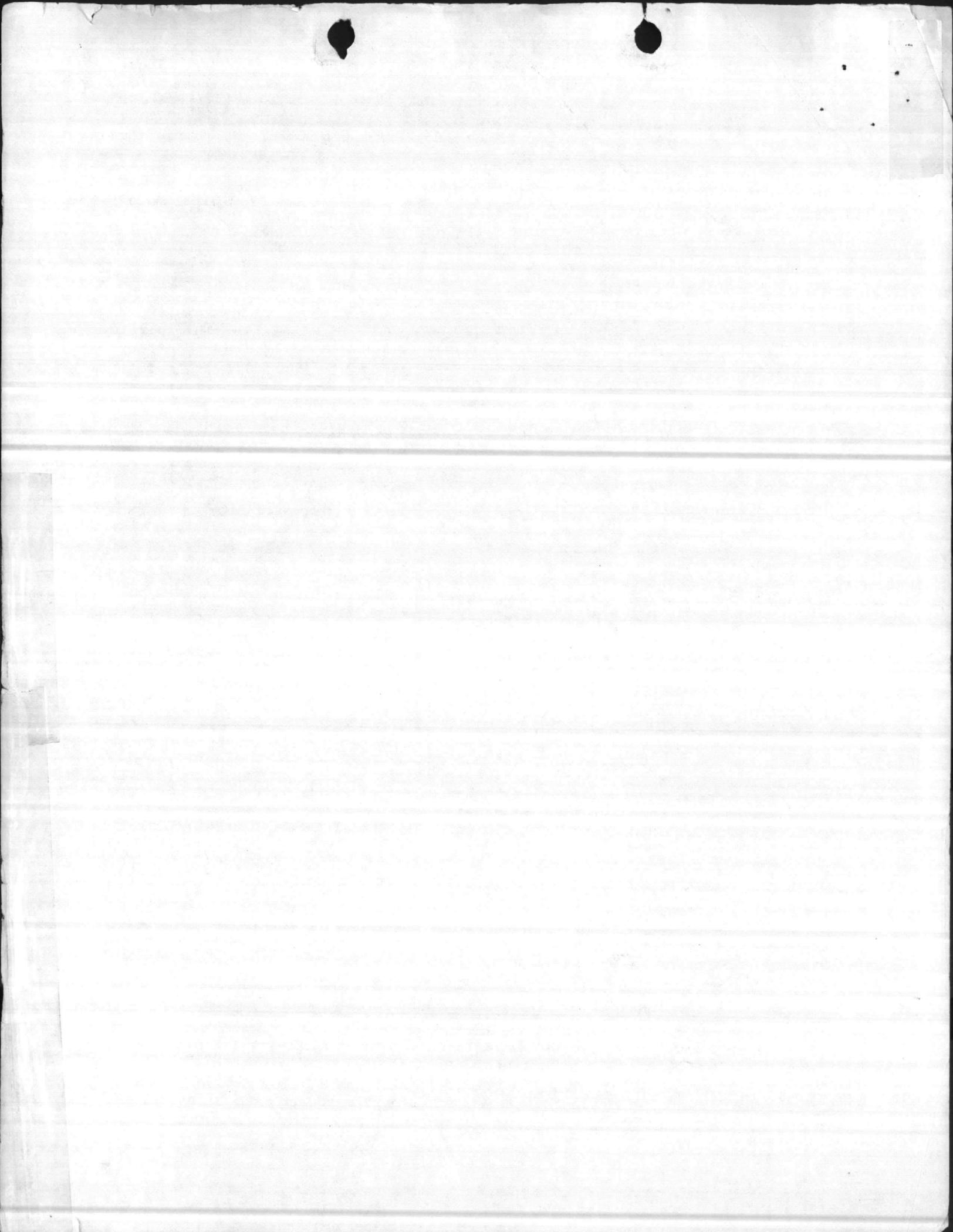
(2) Functional Capabilities. To ensure safe, proper, and efficient maintenance, the facility should, at a minimum, include the following:

\* *For the dug* (a) Eight outdoor wash racks (4 for jeeps, 4 for trucks), each equipped with water and high pressure steam outlets. Proper drainage with oil separation capability is also recommended. *Get similar Min 12' Door*

(b) Two fuel pumps (one MOGAS, one diesel). *Prod 14' Door*

(c) Eight maintenance bays (approximately 30'x60') for maintenance of howitzers and motor transport assets. Bays should be equipped with hydraulic lifts, drop lights, an oil sump, and pressure hook-ups for oil, grease, and air with overhead dispensing outlets. *Two opposing Bay*

*Floor drain / oil / water / gas cleaner*



(d) Battery shop with emergency washroom and strong ventilation.

(e) Insulated storage lockers to accomodate up to 100 gallons of paint and flammable materials.

(f) POL storage shed with containment wall.

(g) Motor transport second echelon parts/tool room (approximately 1000 square feet).

(h) Eight storage rooms (two/battery), *per James Blay* one for first echelon motor transport equipment, the other for howitzer section gear (approximately 1000 square feet for each room). ORD  
OVE

(i) MTO office space (approximately 100 square feet).

(j) MT Chief/Admin office space (approximately 100 square feet).

(k) Ordnance second echelon parts/tool room (approximately 1000 square feet).

(l) Ordnance Officer office space (approximately 100 square feet).

(m) Ordnance NCO/Admin office space (approximately 100 square feet).

(n) Compressed gas storage space. ✓

(o) Classroom space (approximately 400 square feet). ✓

(p) Restroom. ✓

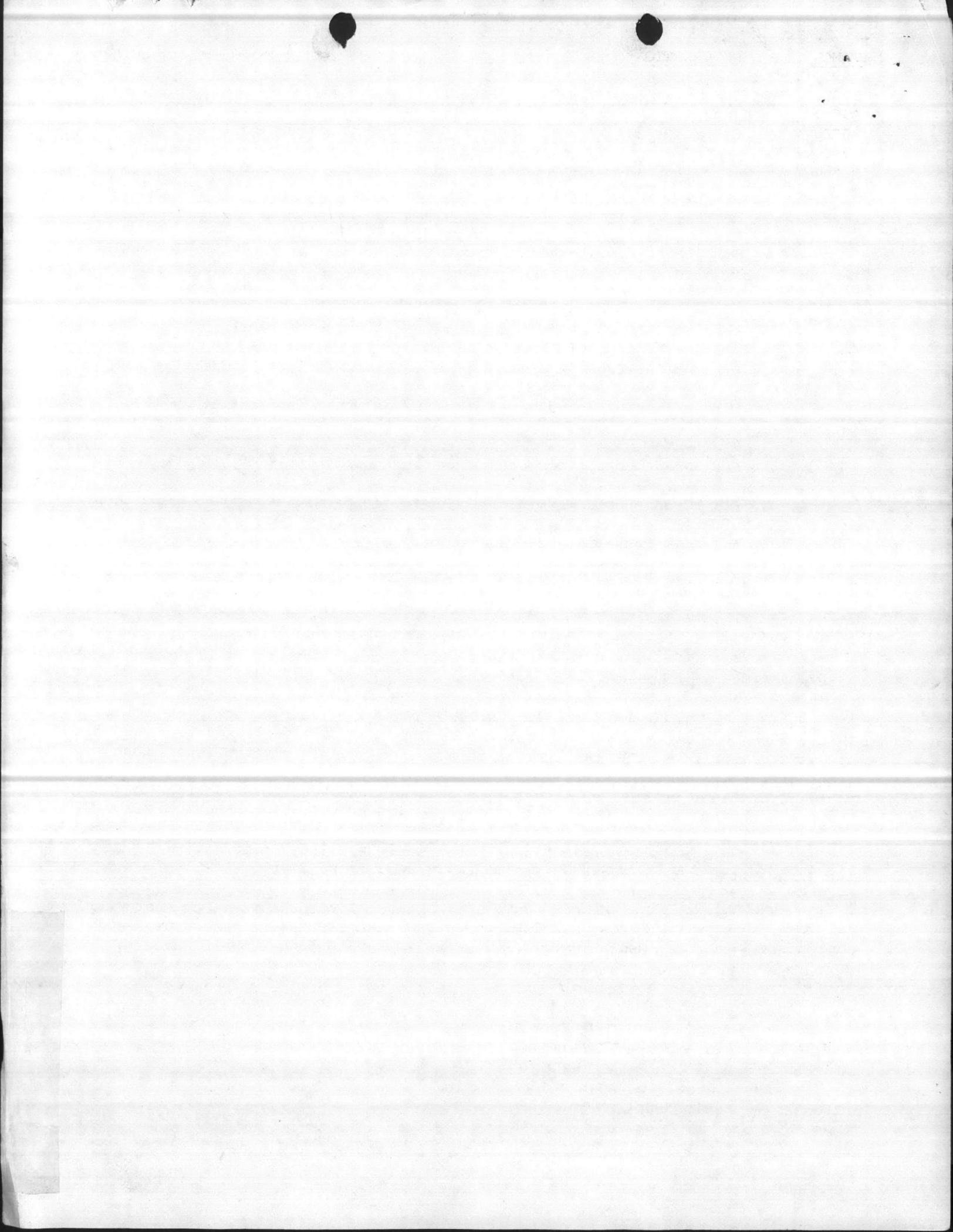
(q) Shower and locker facilities to accomodate up to 12 motor transport/artillery mechanics.

(3) General. This facility will be manned by approximately 60 Marines 10 hours per day for a five day work week. The capabilities listed are considered necessities for providing the correct maintenance on Fourth Battalion's motor transport and ordnance assets. Since this facility will house both motor transport and ordnance spaces, an effort should be made to keep both sections in their own general area. This will facilitate a more efficient shop.

b. 10th Marine Regiment Engineer Maintenance Facility/Headquarters Battery and Target Acquisition Battery (TAB) Motor Transport Facility.

(1) Space Requirement. This will be a dual purpose facility that will combine the Regiment's engineer assets and the motor transport assets of Headquarters Battery and TAB. Therefore, it should have enough asphalt space to store the following equipment:

| <u>TAMCN</u> | <u>DESCRIPTION</u>     | <u>QUANTITY</u> |
|--------------|------------------------|-----------------|
| A1815        | Radio Jeep, AN/GRC-160 | 11              |
| A1930        | Radio Jeep, AN/MRC-110 | 5               |
| A1935        | Radio Jeep, AN/MRC-138 | 7               |
| A2183        | Radio Jeep, AN/MRC-135 | 14              |



| TAMCN | DESCRIPTION                              | QUANTITY |
|-------|--|----------|
| B0579 | Generator Set (110 Kw)                   | 2        |
| B0646 | Forklift Attachment (100001b)            | 1        |
| B0730 | Generator Set MEP-106A                   | 45       |
| B0780 | Generator Set MEP-021A                   | 16       |
| B0891 | Generator Set MEP-003A                   | 3        |
| B0921 | Generator Set MEP-112A                   | 9        |
| B0953 | Generator Set MEP-005A                   | 5        |
| B0971 | Generator Set MEP-114A                   | 1        |
| B1021 | Generator Set MEP-006A                   | 3        |
| B1280 | Light Set, General Illumination          | 6        |
| B1620 | Pump Set (55 GPM)                        | 2        |
| B1650 | Refrigeration Unit (F/100 cu ft)         | 2        |
| B1690 | Refrigerator, Prefab (100 cu ft)         | 2        |
| B2004 | Skid Mounting Assembly, Air Cond.        | 6        |
| B2060 | Spray Outfit, Paint 91-4500              | 2        |
| B2462 | Tractor Cat D7G                          | 2        |
| B2463 | Tractor MC1150                           | 15       |
| B2465 | Tractor 73-31MP-2                        | 1        |
| B2565 | Forklift MC4000                          | 12       |
| D0080 | 2 Whl Trlr Chasis (3 1/2 Ton) M353       | 9        |
| D0230 | 4 Wheel Low Bed (25 Ton) M172A1          | 3        |
| D0840 | Trailer M416                             | 25       |
| D0860 | Trailer M105A2                           | 10       |
| D0875 | Two Wheel Trailer Flatbed (3/4 Ton) M752 | 52       |
| D0830 | Water Tank M149A1                        | 3        |
| D0890 | Ambulance M718A1                         | 1        |
| D1015 | Truck (1 1/2 Ton) M880                   | 3        |
| D1020 | Truck (1 1/2 Ton) M561                   | 6        |
| D1059 | Truck (5 Ton) M923                       | 31       |
| D1110 | Fuel Truck (1200 Gal)                    | 3        |
| D1134 | Truck, Tractor M931                      | 3        |
| D1160 | Truck, Utility M151A2                    | 28       |
| D1210 | Wrecker (5 Ton) M543A2                   | 1        |
| D1215 | Wrecker (5 Ton) M816                     | 2        |

352

(2) Functional Capabilities. It would be most efficient if this facility had the motor transport rooms on one side of the structure and the engineer rooms on the other side. The capabilities required are therefore broken down accordingly.

(a) Headquarters Battery/TAB Motor Transport.

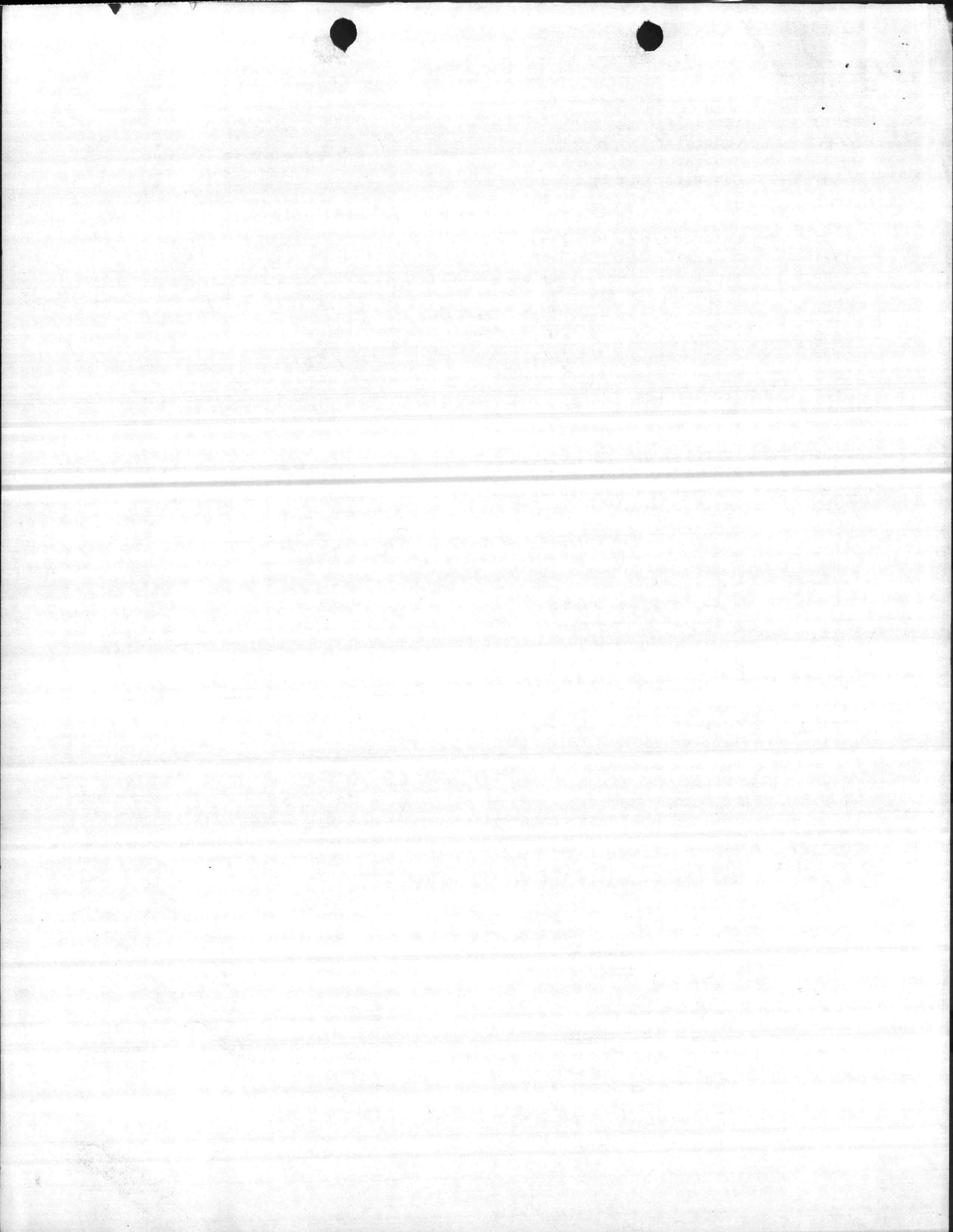
1. Four outdoor washracks (2 for jeeps, 2 for trucks), each equipped with high pressure water and high pressure steam outlets. Proper drainage with oil separation capability is mandatory.

2. Two fuel pumps (one MOGAS, one diesel).

TAB & HQ

3. Four maintenance bays (approximately 30'x60') equipped with hydraulic lifts, drop lights, an oil sump, and pressure hook-ups for oil, grease, and air with overhead dispensing outlets.

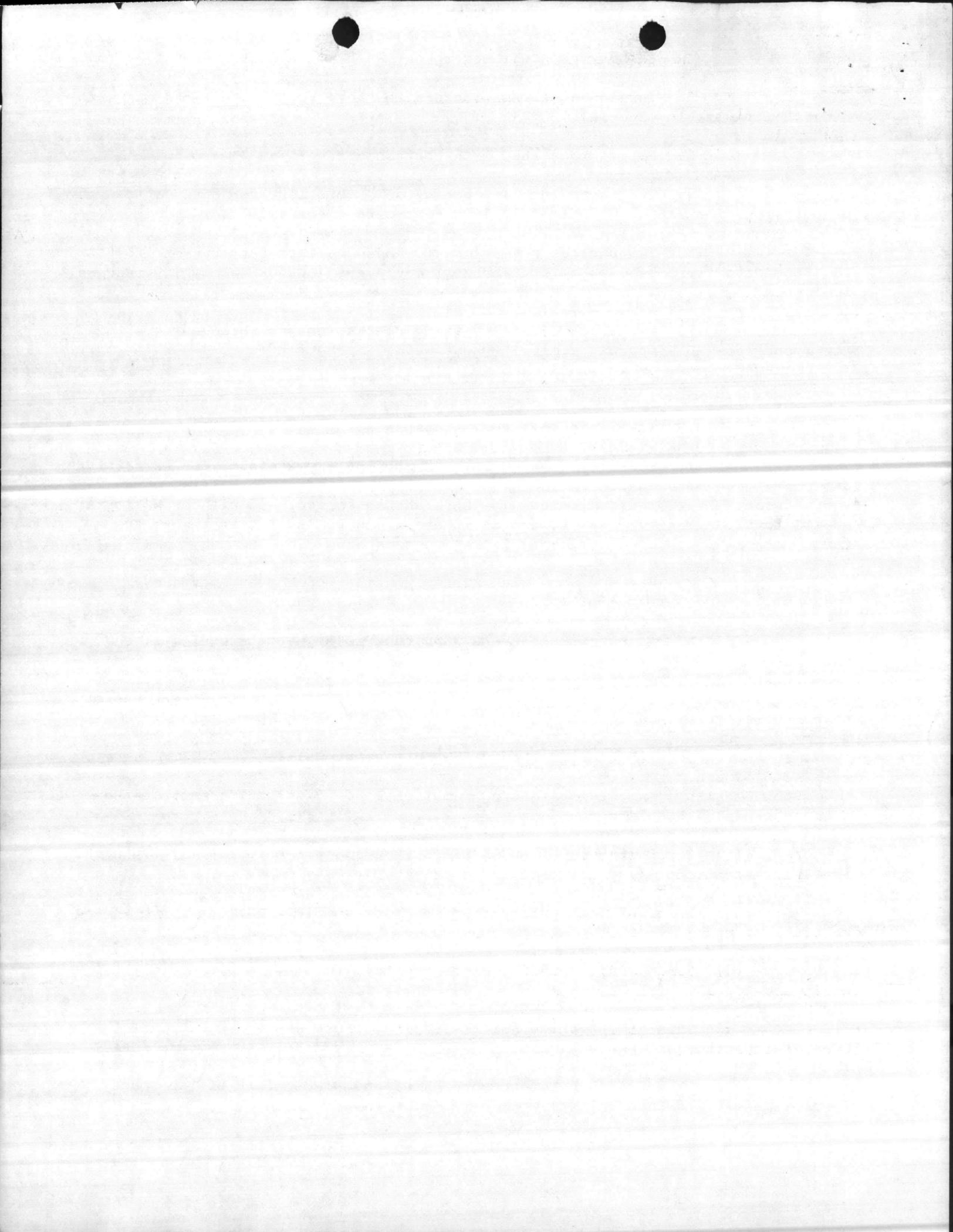
EIGHT



4. Battery shop with emergency washroom and strong ventilation.
5. Insulated storage lockers to store up to 75 gallons of paint and other flammable materials.
6. POL storage shed with containment wall.
7. Two second echelon parts/tool rooms (one for Headquarters Battery, one for TAB - approximately 1000 square feet each).
8. Two storage rooms (one for Headquarters Battery, one for TAB) to accommodate first echelon motor transport equipment (approximately 1000 square feet each).
9. Two MT Chief/Admin office spaces (one for Headquarters Battery, one for TAB - approximately 100 square feet each).
10. Restroom.

(b) 10th Marines Engineer Maintenance.

1. Four maintenance bays (approximately 20'X40') for corrective and preventive maintenance on equipment such as bulldozers, forklifts, generators, decontamination units, etc. The bays should be equipped with drop lights, an oil sump, an air compressor, and an internal exhaust system to remove the carbon monoxide produced by the equipment when running.
2. Battery room with strong ventilation and an emergency washroom.
3. An outdoor concrete wash rack to accommodate equipment as heavy as a bulldozer (MC1150).
4. Insulated storage lockers to accommodate up to 75 gallons of paint and other flammable materials.
5. POL storage shed with containment wall.
6. An outdoor loading ramp for loading/unloading equipment on high and low bed trailers.
7. Engineer OIC and NCOIC office space (approximately 300 square feet).
8. Tool room/calibration control room (approximately 300 square feet).
9. Storage room for parts and layette bins (approximately 600 square feet).
10. Admin office for the records clerk and the NCOIC's of the Generator Section and Heavy Equipment Section (approximately 400 square feet).
11. Engineer Maintenance Chief and MIMMS clerk office space (approximately 100 square feet).



12. Restroom.

13. Shower and locker facilities to accommodate up to 18 mechanics. (This will be used by both the engineer section and motor transport section and should therefore be centrally located).

(3) General. This facility will be manned by approximately 85 Marines 10 hours/day for a five day work week.

< c. Direct Support Battalion Ordnance Maintenance Facility. ✓

1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup>

(1) Space Requirement. This facility will provide second echelon maintenance on the howitzers belonging to the three D/S battalions in 10th Marines. No large equipment will be stored in this facility on a permanent basis, so a great deal of asphalt space is not required.

(2) Functional Capabilities. At a minimum, this facility should include the following:

\* *S on dwg* (a) Eight outdoor wash racks, each equipped with water and high pressure steam outlets. The wash racks must be constructed to safely accommodate the M198 howitzer and the M114 howitzer. Proper drainage at the wash point is strongly recommended.

*SIX*  
(b) ~~Six maintenance bays (two/battalion). Bays should measure 20' X 40' and be at least 40' high to allow maximum elevation of the M198. Each bay should be equipped with pressure hook-ups for grease and air.~~

(c) Three POL storage sheds (one/battalion).

(d) Three insulated storage lockers (one/battalion) to accommodate up to 100 gallons of paint and other flammable material.

(e) Three storage spaces (one/battalion) for storage of radiological equipment awaiting repair (approximately 100 square feet each).

(f) Three second echelon parts/tool rooms (one/battalion) - approximately 400 square feet each).

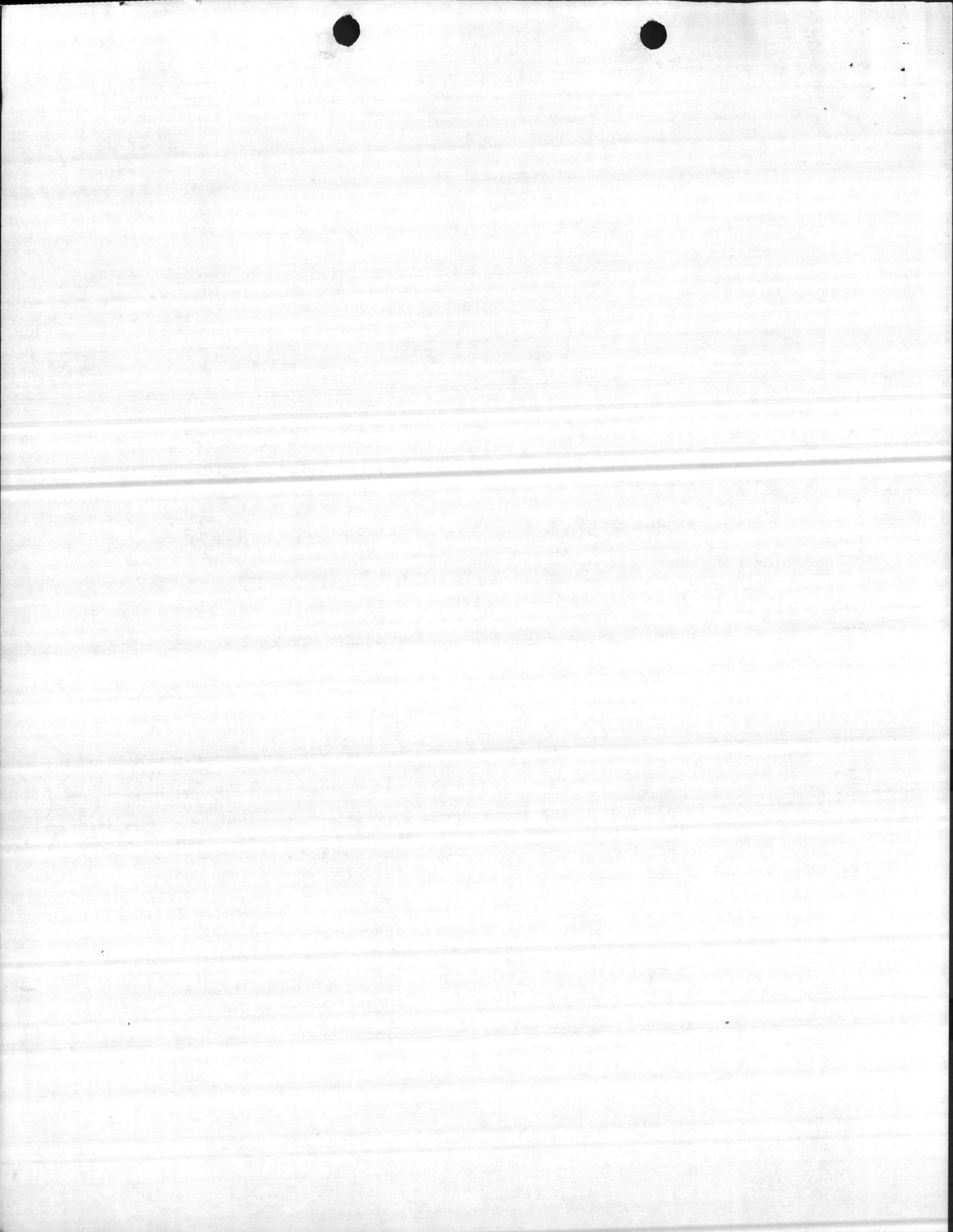
(g) Three compressed gas storage spaces (one/battalion).

(h) Three ammunition section offices (one/battalion) for the ammunition chiefs and records/publications (approximately 200 square feet each).

(i) Three office spaces (one/battalion) for the Ordnance Officers and ordnance records/publications (approximately 400 square feet each).

(j) Three office spaces (one/battalion) for the field artillery chiefs and artillery repair chiefs (approximately 300 square feet each).

(k) Three classroom spaces (one/battalion) - approximately 600 square feet each).



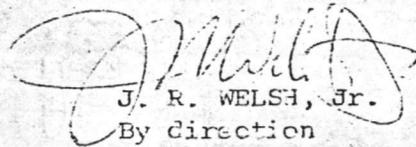
(l) Nine security cages (1/firing battery) for storage of battery optical gear and howitzer section equipment (approximately 150 square feet each)..

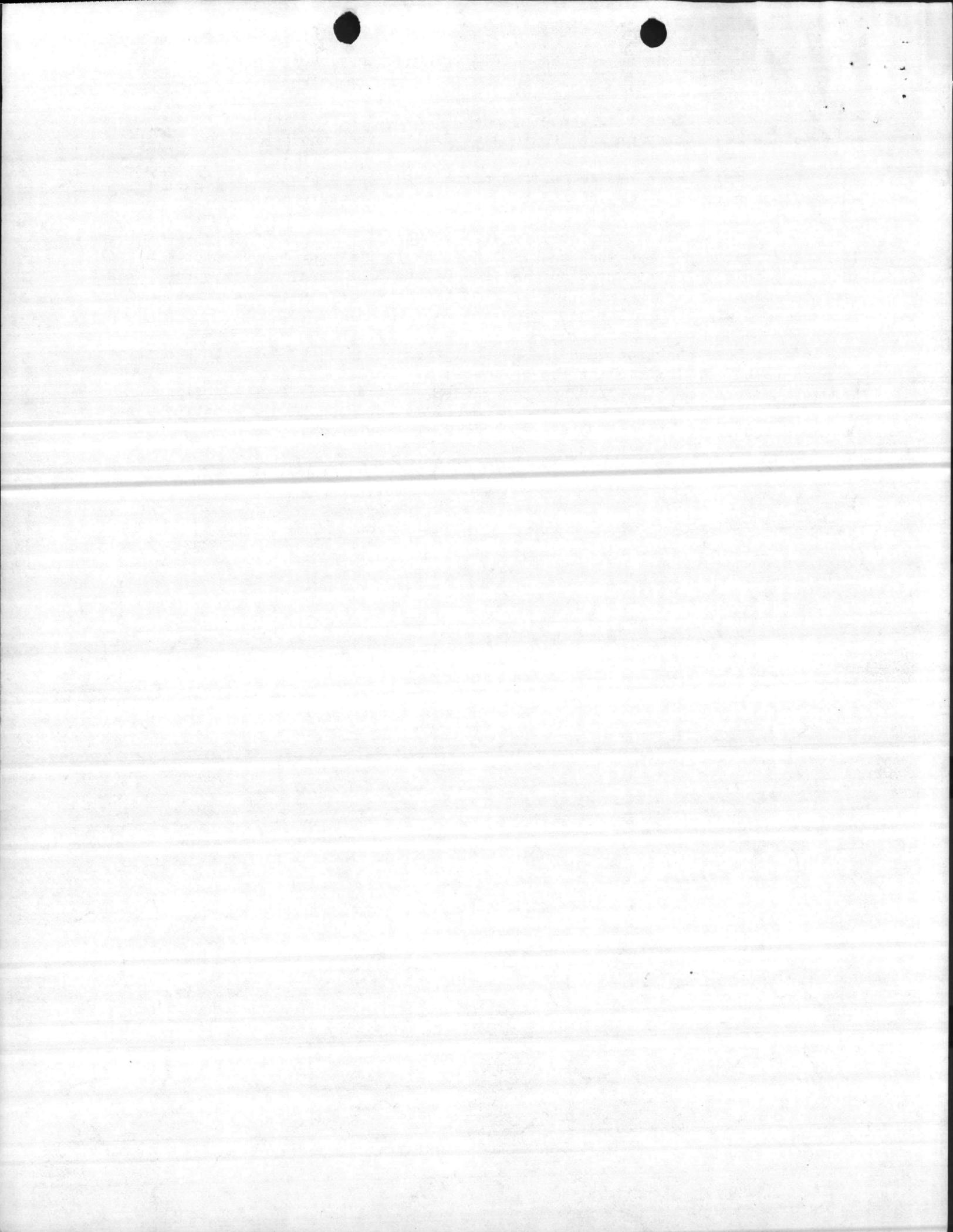
(m) Three tire changing rooms (one/battalion) where a tire changing machine can be mounted on the deck and M198/M114 tires can be changed safely.

(n) Three restrooms (one/battalion), and a centrally located shower/locker facility to accomodate up to 15 mechanics/technicians.

(3) General. This facility will be manned by approximately 45 Marines, 10 hours/day for a 5 day work week. Since the facility will house three battalions it should be constructed so that the maintenance bays, office spaces, and storage spaces for each battalion are located in their own general area, and not interspersed with the other battalion spaces.

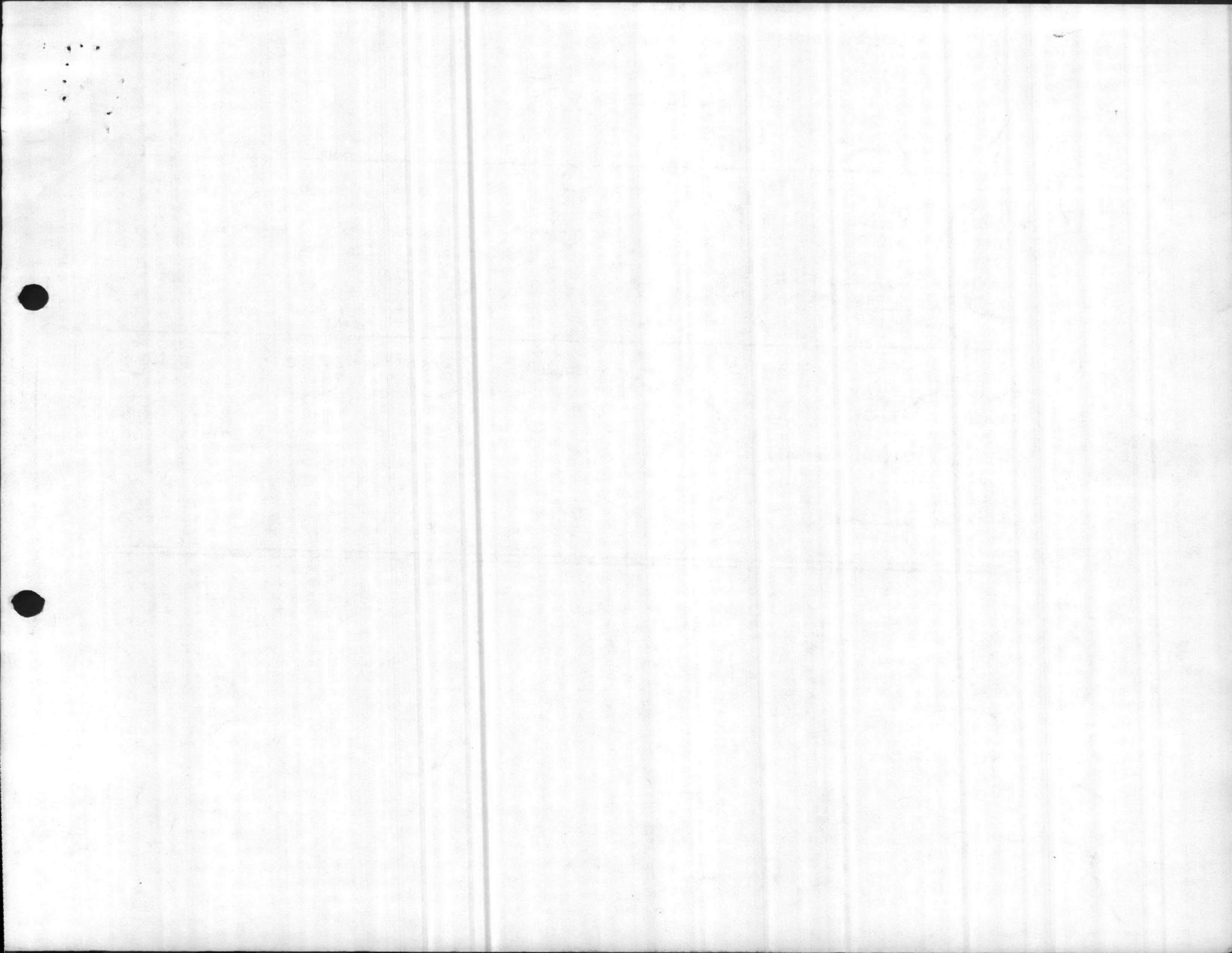
2. It must be emphasized that the capabilities and space requirements outlined in paragraph 1 are crucial if the new facilities are to be able to effectively handle the required first and second echelon maintenance. Any reduction of space or omissions of the recommended capabilities would have a negative effect on the using units ability to accomplish their mission.

  
J. R. WELSH, Jr.  
By direction



2D MARINE DIV SHOPS

| ORG   | TYPE        | SHOP   | P NO.    | G.L. | QUANTITY | UM | COST \$ (000) | CC  | P |
|---|-------------|--------|----------|------|----------|----|---------------|-----|---|
| 10TH MAR  | VE MNT SH   |        | P-138 &  | DS   | 61,441   | SF | \$4,500       | 0.0 |   |
|   | 598 (P)     | 2,800  | P-255    |      |          |    |               |     |   |
|   | 1841 (S)    | 12,000 |          |      |          |    |               |     |   |
|   | 1755 (P)    | 4,100  |          |      |          |    |               |     |   |
|   | 1750 (P)    | 4,740  |          |      |          |    |               |     |   |
|   | GP-8 (T)    | 960    |          |      |          |    |               |     |   |
|   |             | 24,600 |          |      |          |    |               |     |   |
| <p>Note: 1, 2 3 Bns Completed. 3 &amp; 4 Bns Under Construction</p> |             |        |          |      |          |    |               |     |   |
|   | E/C Mnt Fac |        | P-229    | DS   | 36,280   | SF | \$3,100       | 3.0 |   |
|   | 1602 (P)    | 2,242  |          |      |          |    |               |     |   |
|   | 1603 (P)    | 3,724  |          |      |          |    |               |     |   |
|   | 534 (P)     | 270    |          |      |          |    |               |     |   |
|   | 509 (P)     | 21,601 | Messhall |      |          |    |               |     |   |
|   | 532 (P)     | 3,729  |          |      |          |    |               |     |   |
|   | 1309 (P)    | 4,396  |          |      |          |    |               |     |   |
|   | GP-5 (T)    | 960    |          |      |          |    |               |     |   |
|   |             | 36,922 |          |      |          |    |               |     |   |



|   |  |  |  |                                  |  |
|---|--|--|--|----------------------------------|--|
| 1. COMPONENT<br>MARINE CORPS  |  | FY 1988 MILITARY CONSTRUCTION PROJECT DATA |  | 2. DATE REVISIED<br>15 Jan 1986  |  |
| 3. INSTALLATION AND LOCATION<br>MARINE CORPS BASE<br>CAMP LEJEUNE, NORTH CAROLINA 28542 |  |  | 4. PROJECT TITLE<br>COMBAT VEHICLE MAINTENANCE SHOPS |                                  |  |
| 5. PROGRAM ELEMENT  |  | 6. CATEGORY CODE<br>214-51                 | 7. PROJECT NUMBER<br>P-678                           | 8. PROJECT COST (\$000)<br>5,900 |  |

ESCALATED TO APRIL 1988

9. COST ESTIMATES

| ITEM   | U/M | QUANTITY | UNIT COST | COST (\$000)  |
|--|-----|----------|-----------|---------------|
| COMBAT VEHICLE MAINTENANCE SHOPS                                       | SF  | 61,660   | 55.87     | 3,445         |
| Building   | SF  | 61,660   | 52.00     | (3,206)       |
| Built-in Equipment   | LS  | -        | -         | (239)         |
| SUPPORTING FACILITIES  |     |          |           | 1,906         |
| Special Construction Features  |     | -        | -         | (105)         |
| Utilities  | LS  | -        | -         | (486)         |
| Roads, Parking, Sidewalks  | LS  | -        | -         | (750)         |
| Site Improvements  | LS  | -        | -         | (291)         |
| Vehicle/Gun Wash Station w/Pollution Control                           | SY  | 3,800    | 72.18     | (274)         |
| SUBTOTAL   |     |          |           | 5,357         |
| CONTINGENCY - 5%   |     |          |           | 268           |
| TOTAL CONTRACT COST  |     |          |           | 5,619         |
| SUPERVISION, INSPECTION & OVERHEAD 5.5%                                |     |          |           | 309           |
| TOTAL REQUEST*   |     |          |           | 5,928         |
| TOTAL REQUEST (ROUNDED)  |     |          |           | 5,900         |
| EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS                           | -   | -        | -         | (NON ADD) (0) |
| *Cost based on COMNAVFACENGCOM certified cost verification of 9 Dec 85 |     |          |           |               |

10. DESCRIPTION OF PROPOSED CONSTRUCTION

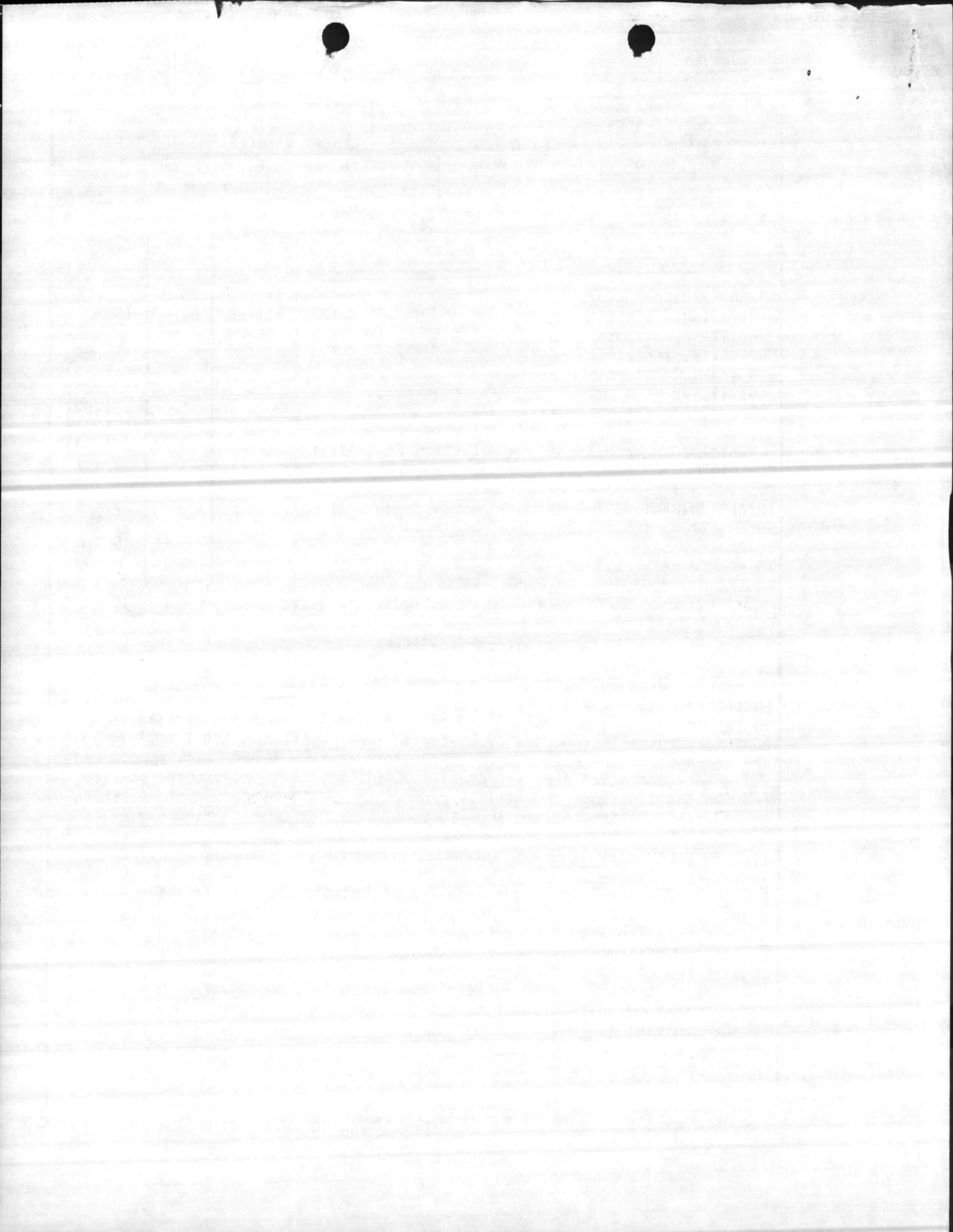
Construct two (2) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in project. Overhead shelters for howitzers, wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. (Air Conditioning: 10 tons)

11. \*REQUIREMENT: 402,531SF Adequate: 177,664SF Substandard: 133,472SF

PROJECT: Provide (two) adequate Combat Vehicle Maintenance/Ordnance Shops for the 10th Marine Regiment.

REQUIREMENT: The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The number of trucks and other vehicles organic to the Regiment is 400. Over 156 personnel will work in these facilities.

\*Requirement is based on NAVMC Form 10651 dtd 12 Nov 85



1. COMPONENT  
MARINE CORPS

FY 88 MILITARY CONSTRUCTION PROJECT DATA

DATE REVISIONS  
15 JAN 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOPS

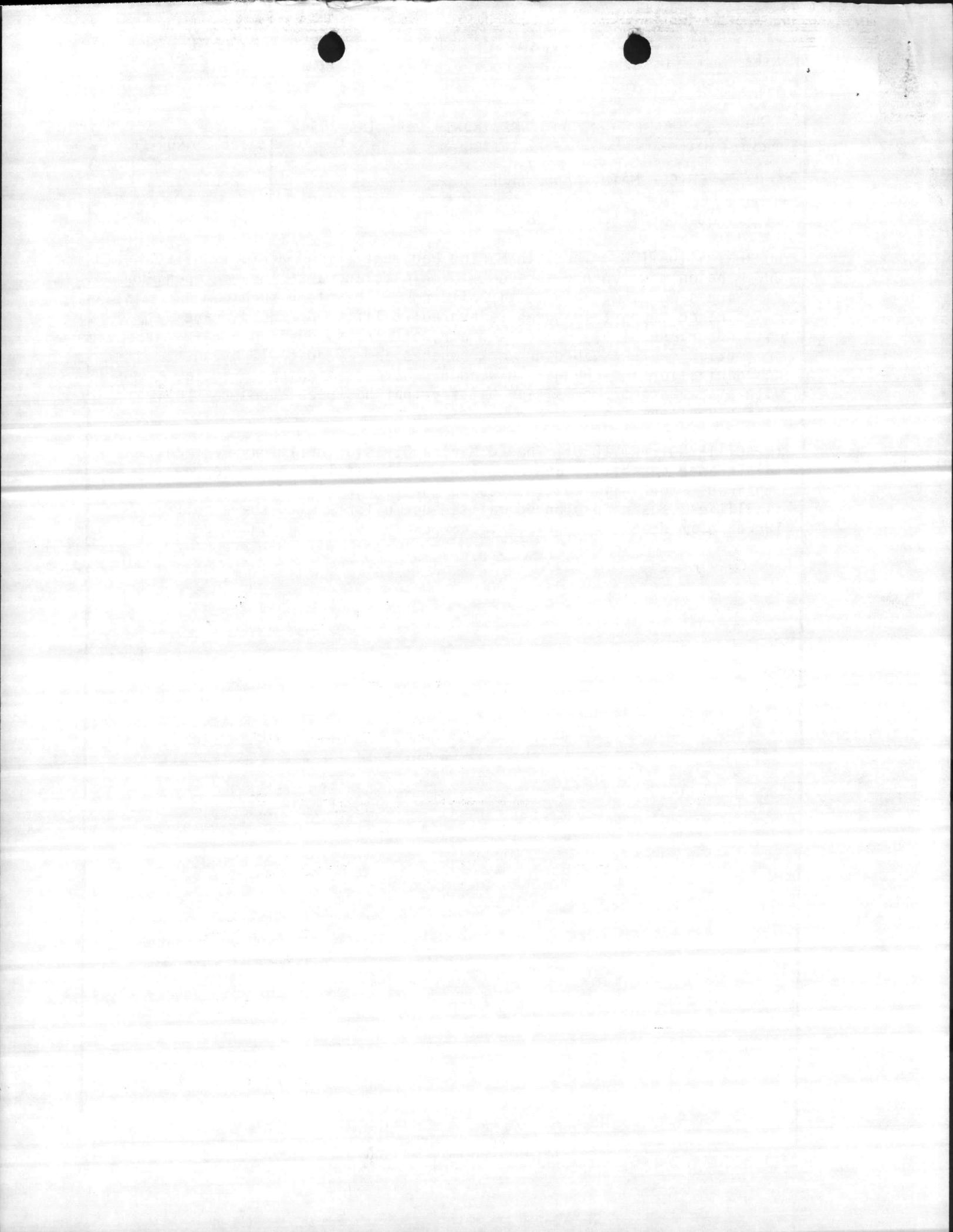
5. PROJECT NUMBER

P-678

11. REQUIREMENT (Continued)

CURRENT SITUATION: The 10th Marine Regiment is now performing 1st and 2nd echelon maintenance for combat vehicles and artillery in open Gun Park areas and temporary metal buildings. They lack such common maintenance support features as hydraulic lifts, overhead craneways, oil and grease lines, compressed air, oil traps, environmental protection features, proper work benches and adequate lighting. Reorganization and changes in weaponry have created deficiencies along with a new target acquisition battery that has been added to the 10th Marine Regiment.

IMPACT IF NOT PROVIDED: The 2d Marine Division Artillery Regiment's maintenance capability and combat readiness will continue to be impaired. Work will continue to be done in scattered substandard facilities causing prolonged maintenance efforts with the resulting increase in deadlined equipment, adversely affecting combat readiness.



1. COMPONENT  
MARINE CORPS

FY 19\_88 MILITARY CONSTRUCTION PROJECT DATA

2. DATE  
REVISED  
15 Jan 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

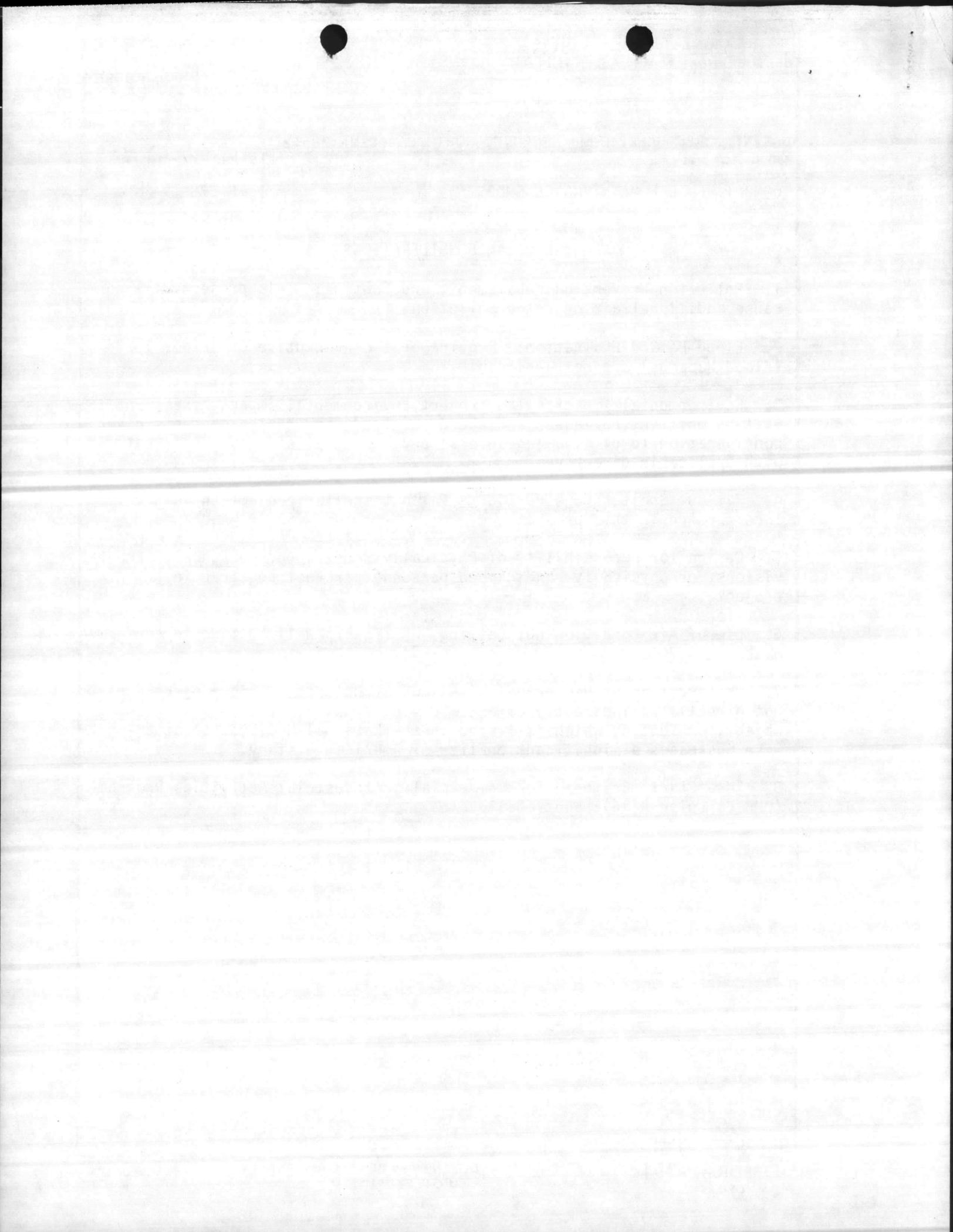
COMBAT VEHICLE MAINTENANCE SHOPS

5. PROJECT NUMBER

P-678

SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.
2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.
3. Environmental Impact: The project Environmental Impact Assessment will be written, reviewed, and where required, the design concepts given consideration to eliminating adverse environmental effects consistent with applicable directives.
4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.
5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.
6. Use of Air Conditioning: Ceiling "U" factors will be made to conform with DOD 4270.1-M.
7. Preservation of Historical Sites and Structures: This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.
8. "New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76): Not applicable.



MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

5. PROJECT NUMBER

COMBAT VEHICLE MAINTENANCE SHOP

P-678

FACILITY STUDY

1. Provide two Vehicle Maintenance Facilities for the 10th Marines Regiment; a Vehicle/Ordnance Maintenance facility for the 4th Bn, 10th Marines, a Vehicle/Engineer Support Equipment Maintenance Facility for Headquarters Battalion/Target Acquisition Battery, 10th Marines. Provide a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area.

2. Current and Planned Future Workload With Regard to this Project:  
The percentage of usage for these facilities is 100 percent of the time, and the duration of need is indefinite. There is no projected decrease in the necessary maintenance and repair of organizational equipment required to be performed in these facilities.

3. Description of Proposed Construction:

a. Type of Construction:

(1) Permanent wheeled and tracked Combat Vehicle/Ordnance/Engineer Equipment Maintenance Facilities. The facilities will be constructed with steel frame, masonry construction with pile and reinforced concrete foundations, built-up roof over insulation, interior and exterior utility systems along with telephone and telephone equipment installation.

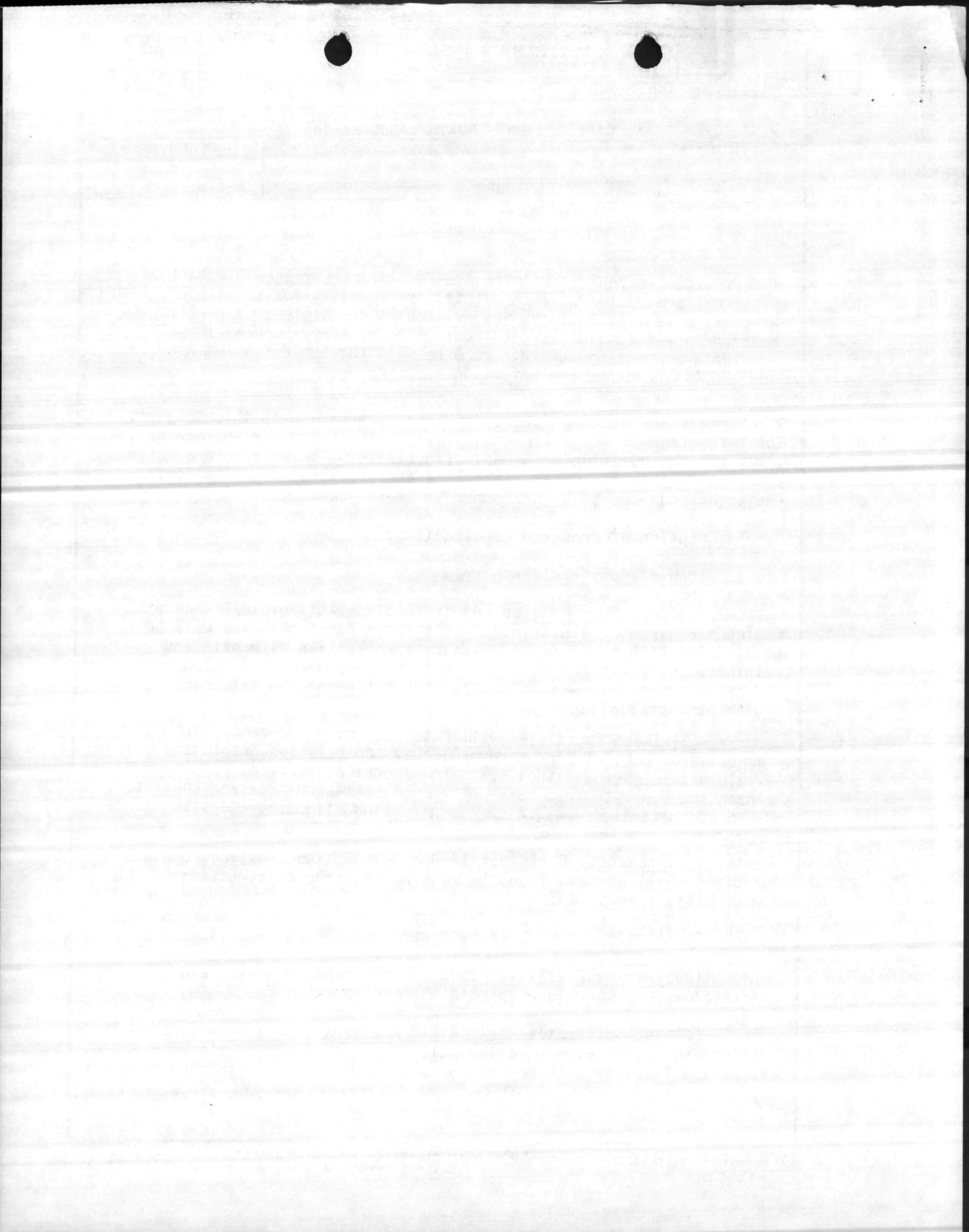
(2) These facilities will have reinforced concrete wash aprons with pollution controls and sand haul away capabilities, rigid and flexible walks, overhead shelters with electrical service, parking and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area, along with fencing, lighting and site improvements.

b. Replacement: Buildings 1750 and 1755, two substandard Block Buildings, will be demolished to make way for the construction of the new HQ Battery Facility.

c. Description of Work to be Done:

(1) Primary Facilities (3): Steel frame, modular reinforced concrete/masonry structure on pile foundation.

(2) Support Facilities: Rigid and flexible pavements, security fencing and lighting, connecting utilities site improvements wash and oil/grease facility with pollution abatement controls with sand removal capability, and overhead shelters with electrical service.



1. COMPONENT

MARINE CORPS

FY 1988 MILITARY CONSTRUCTION PROJECT DATA

2. DATE  
REVISED  
15 JAN 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER

P-678

3. Description of Proposed Construction: (Continued)

(3) Energy Conservation: Energy efficient equipment and building orientation for maximum energy conservation will be utilized.

(4) Collateral Equipment: To be provided by separate correspondence. The present Estimated Value of this equipment is \$60,000.

(5) Supporting Facilities: Special piling, foundations, connecting utilities, a connecting concrete road, site improvements, pollution abatement and hazardous flammable storage.

4. Cost Estimate: The area cost factor for Camp Lejeune is 0.86. Cost data derived from Military Construction Cost Review Guide, for FY-84 (4270.1G). Cost escalated to April 1988.

5. Justification for Project and for Scope of Project:

a. Justification for Project:

(1) Project: Proposed facility is required to provide the Artillery Regiment (10th Marines 2MARDIV) adequate and secure facilities to perform Combat Vehicle/Ordnance Maintenance.

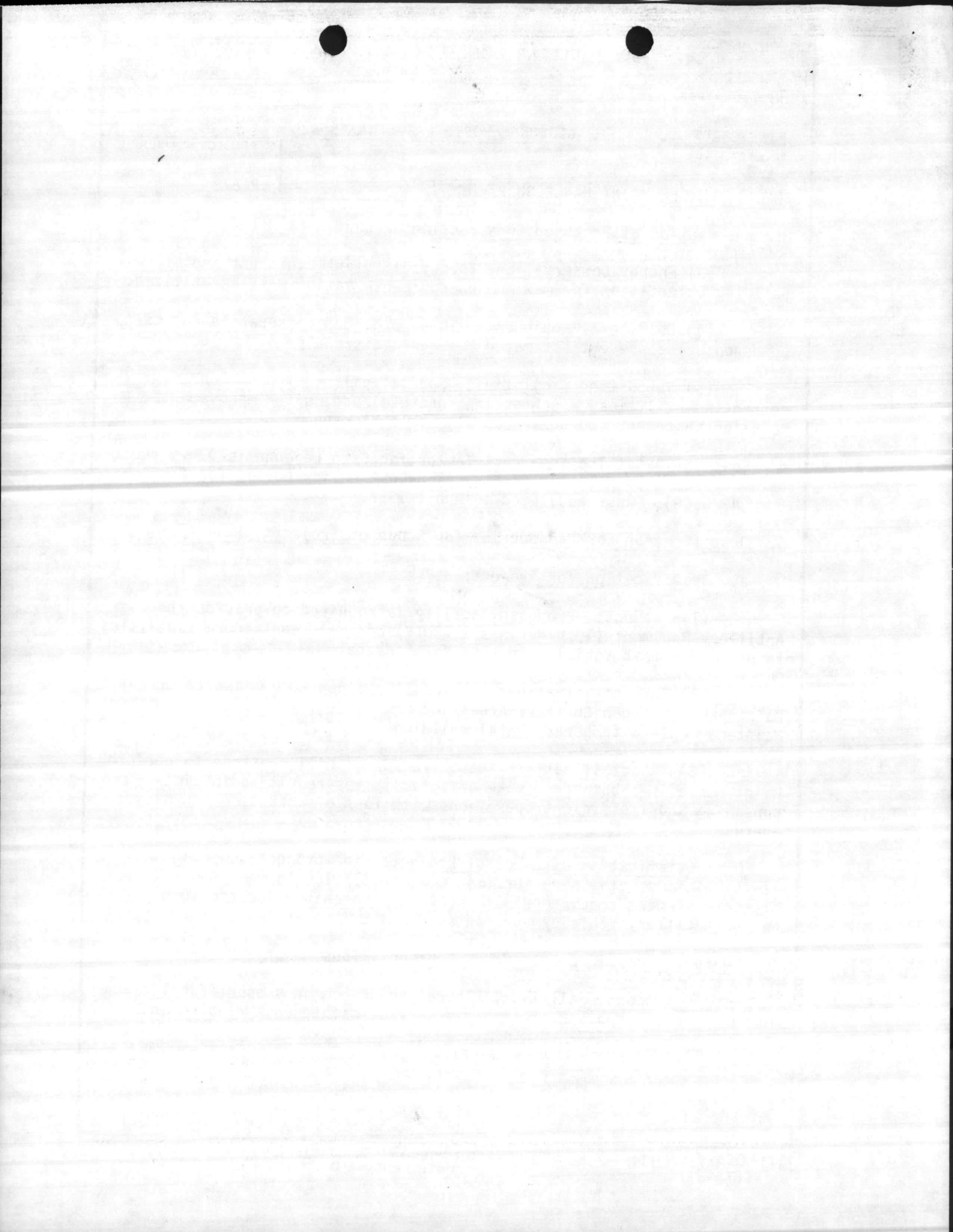
(2) Current Situation: Personnel are now accomplishing Ordnance Maintenance in open Gun Park Areas and Combat Vehicle/Engineer Equipment Maintenance in a temporary Metal Building.

(3) Impact if Not Provided: Personnel will continue to perform Maintenance in substandard makeshift facilities resulting in time-consuming and inefficient operations with loss of work time and wasted energy.

b. Justification of Scope of Project: The project scope, 61,600 is the minimum total size for (2) two facilities to meet the prescribed space requirements to perform maintenance for the 10th Marine Artillery Vehicle/Ordnance equipment.

6. Equipment Provided From Other Appropriations: Not Applicable.

7. Common Support Facilities. There are no common support facilities in Hadnot Point appropriate to this sort of maintenance requirement.



1. COMPONENT  
MARINE CORPS

FY 1988 MILITARY CONSTRUCTION PROJECT DATA

2. DATE REVISIONS  
15 JAN 1986

3. INSTALLATION AND LOCATION  
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE  
COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER  
P-678

8. Effect on Other Resources: This project will require some increase to the O&M, MC funding requirements since some of these Maintenance operations will be transferred from outdoor open lot to indoor lighted and heated areas. No additional personnel will be required to operate this function. This project will enhance and improve the morale of personnel. Proposed construction should be responsive to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977 and implemented by NAVFACINST 4100.5A.

9. Siting of the Project: These two buildings will be sited in the Division Shop Area. See enclosure (1) for the two sites.

10. Other Graphic Presentations, Including Photographs: None.

11. Economic Analysis: This facility is being constructed on a site adjacent to a developed area. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of a mission in this area.

12. Environmental Impact: An environmental impact assessment of the area has been made and it has been determined that this project will have neither a significant impact on the environment nor is it highly controversial.

13. Quantitative Data:

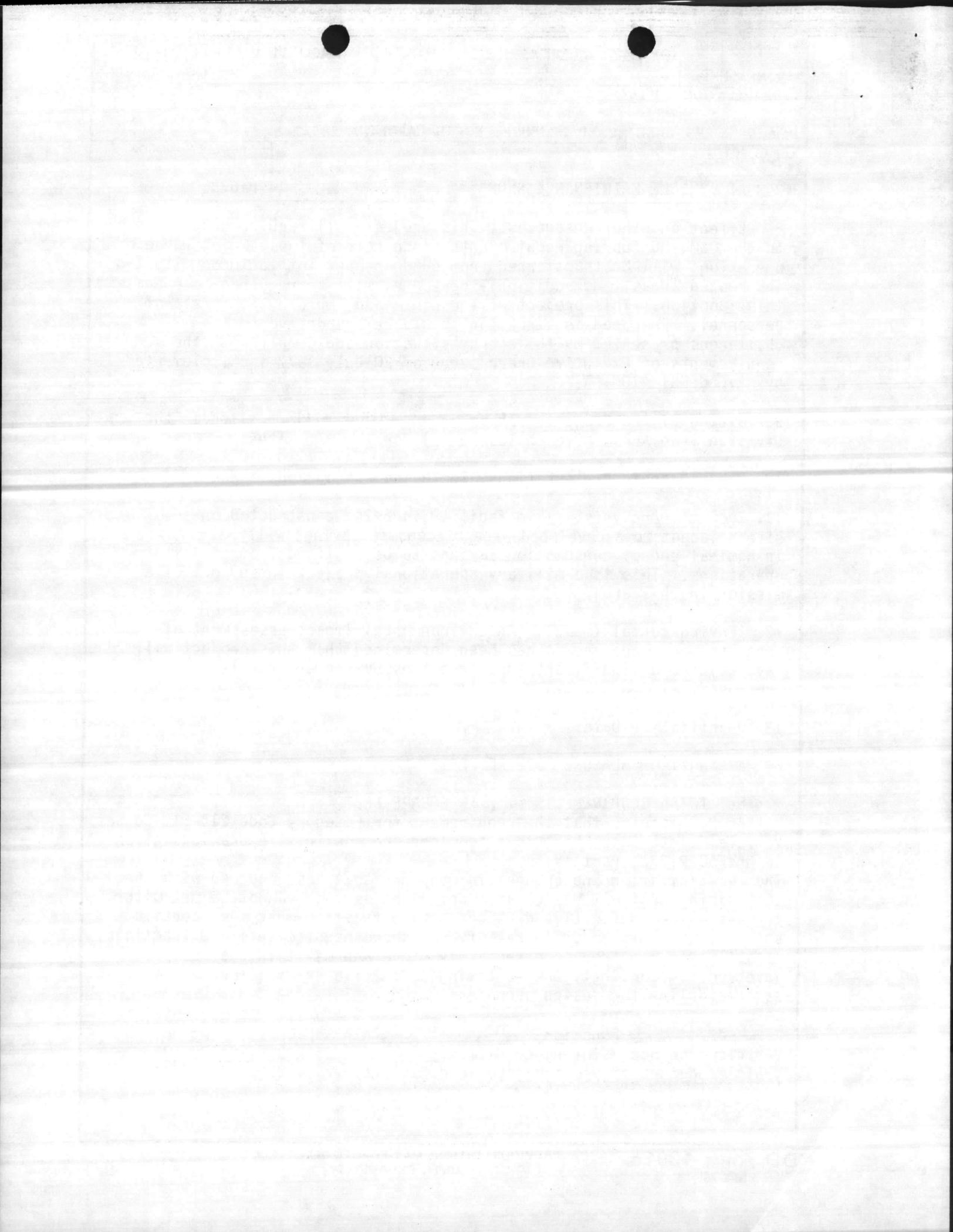
a. UNIT OF MEASURE "SQUARE FEET"

b. TOTAL REQUIREMENT: 402,531 SQUARE FEET

NAVFAC P-80 states that the requirement for Category Code 214-51, Combat Vehicle Maintenance Shop, is determined from definitive drawings given in NAVFAC P-272, Part IV.

The reorganization and changes in weaponry that has occurred with the 10th Marine Regiment has created deficiencies that cannot be met with current NAVFAC definitive drawings. Each facility must meet certain specifications in order to satisfy the space requirements and functional capabilities required to effectively store and maintain the equipment involved. Accordingly the following definitive drawings are provided as a guideline for design purposes:

| <u>Function</u>                               | <u>Total Square Ft</u> | <u>Definitive Dwg No.</u> |
|---|------------------------|---------------------------|
| Vehicle/Ordnance Maintenance Facility         | 36,260SF               | 1293372                   |
| Vehicle/Engineer Support Maintenance Facility | 25,400SF               | 1293371                   |



|   |  |  |  |                                   |  |
|---|--|--|--|-----------------------------------|--|
| 1. COMPONENT<br>MARINE CORPS  |  | FY 1988 MILITARY CONSTRUCTION PROJECT DATA |  | 2. DATE<br>REVISED<br>15 JAN 1986 |  |
| 3. INSTALLATION AND LOCATION<br>MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 |  |  |  |                                   |  |
| 4. PROJECT TITLE<br>COMBAT VEHICLE MAINTENANCE SHOP                                   |  |  |  | 5. PROJECT NUMBER<br>P-678        |  |

13. Quantitative Data: (Continued)

- c. EXISTING SUBSTANDARD 133,472 SQUARE FEET
- d. EXISTING INADEQUATE .0 SQUARE FEET
- e. EXISTING ADEQUATE 177,664 SQUARE FEET
- f. OTHER ASSETS, NOT IN INVENTORY - 0 SQUARE FEET
- g. FUNDED, NOT IN INVENTORY 70,174 SQUARE FEET

| <u>PROJ. NO.</u> | <u>AREA(SF)</u> | <u>STATUS</u> |
|------------------|-----------------|---------------|
| P-525            | 30,837          | FY-87         |
| P-196            | 30,837          | FY-90         |
| P-568            | 8,500           | FY-90         |

- h. ADEQUATE ASSETS (e + f + g) 247,838 SQUARE FEET
- i. DEFICIENCY (b - h) 155,006 SQUARE FEET

|                   |                      |
|-------------------|----------------------|
| Total Requirement | 402,531 SQUARE FEET  |
| Adequate Assets   | -247,838 SQUARE FEET |
| Deficiency        | 154,693 SQUARE FEET  |

14. Maintenance Facilities:

Planning factors have been identified in terms of quantitative workloads that have been supported by the level of utilization. Each of the three facilities have certain specifications in order to satisfy the space requirements and functional capabilities to effectively store and maintain the equipment involved. This information has been provided by letter 11000 dated 14 Jan 1985, from the Commanding Officer of the 10th Marine Regiment.

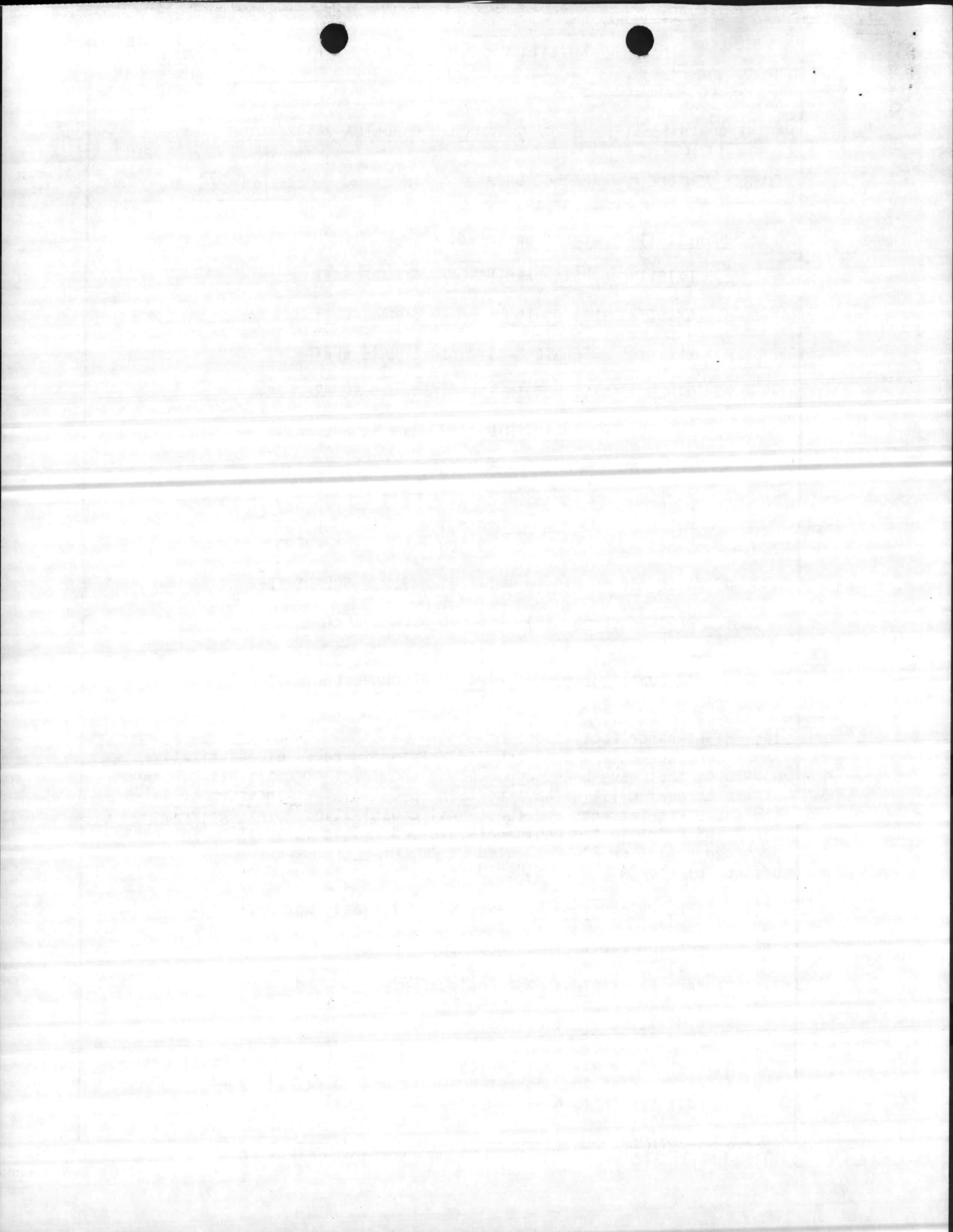
15. Morale, Welfare and Recreation Facilities: Not Applicable.

16. Relocation Facilities: Not Applicable.

17. Storage Facilities: Not Applicable.

18. Hazards Identification, Assessment and Analysis:

a. System safety engineering and management programs will be used to ensure that the highest possible degree of safety and occupational health is designed into these facilities.



1. COMPONENT

MARINE CORPS

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

2. DATE

REVISED

5 JAN 1986

5. PROJECT NUMBER

P-678

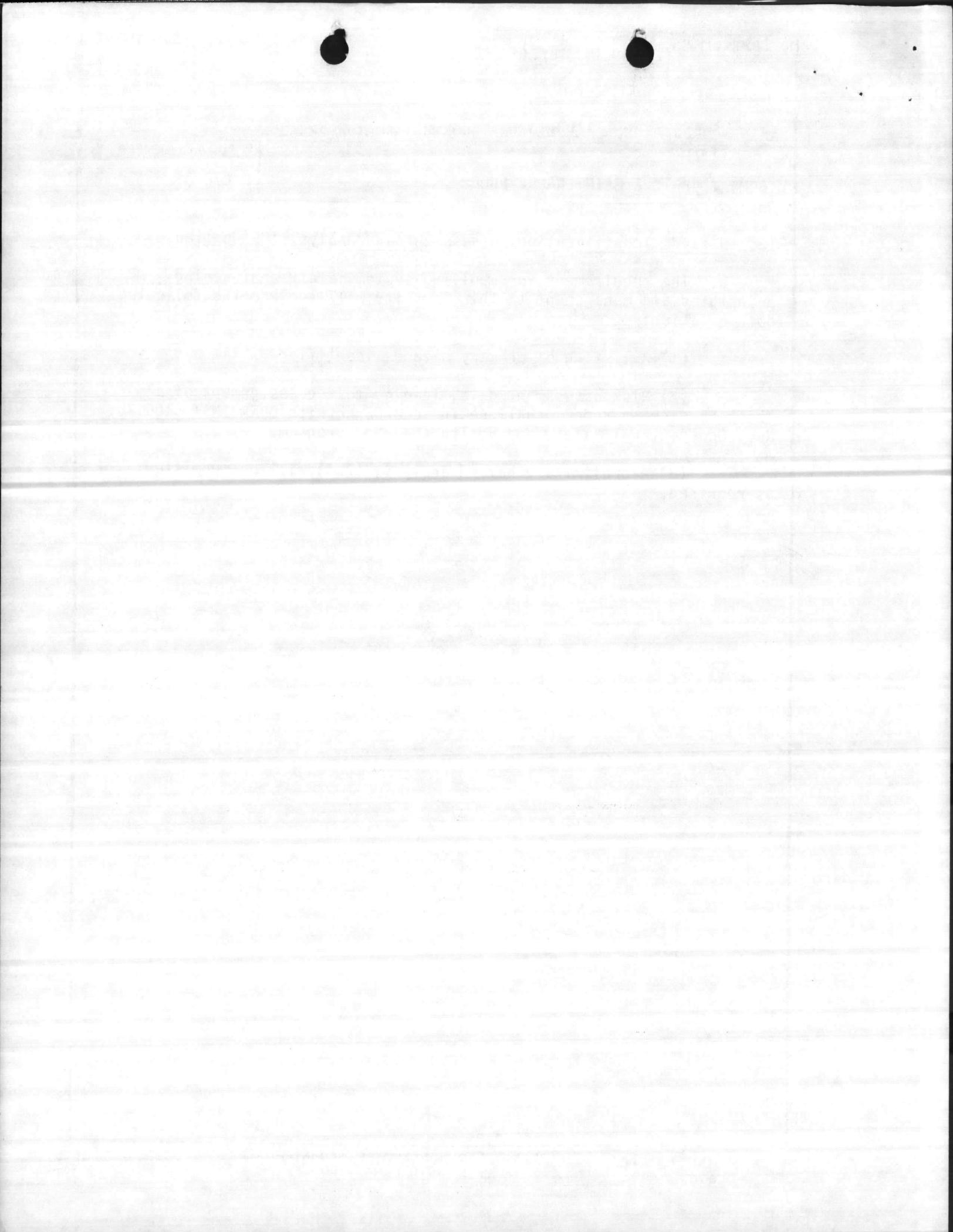
18. Hazards Identification, Assessment and Analysis: (Continued)

b. The requirement for applying system safety engineering principles and management to this facility will include the following documentation:

(1) A listing of primary hazards identified.

(2) Risk assessment data, leading to the assignment of a "risk assessment code", shall be in accordance with OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) program.

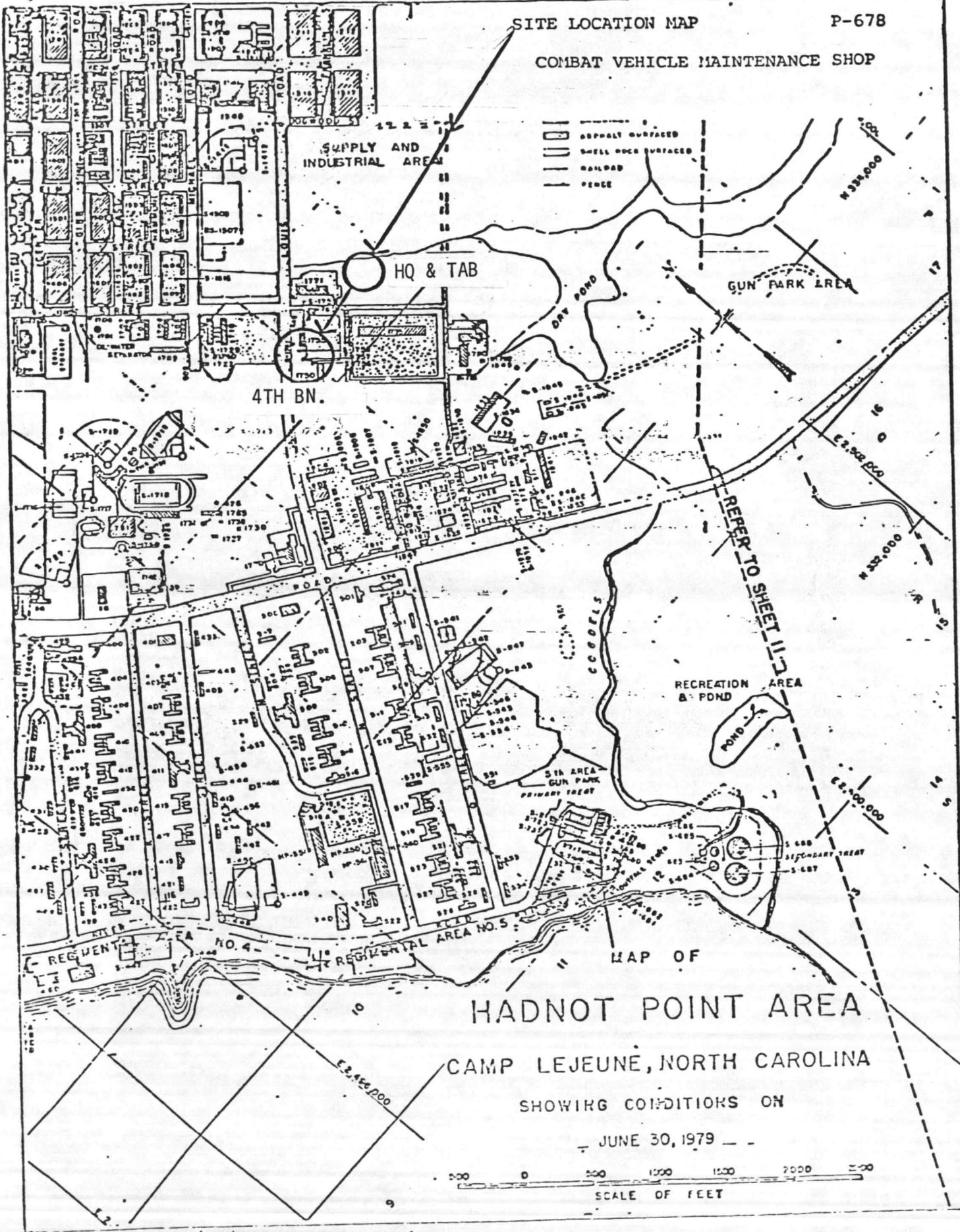
(3) A preliminary hazard analysis (PHA) will be submitted as required.



SITE LOCATION MAP

P-678

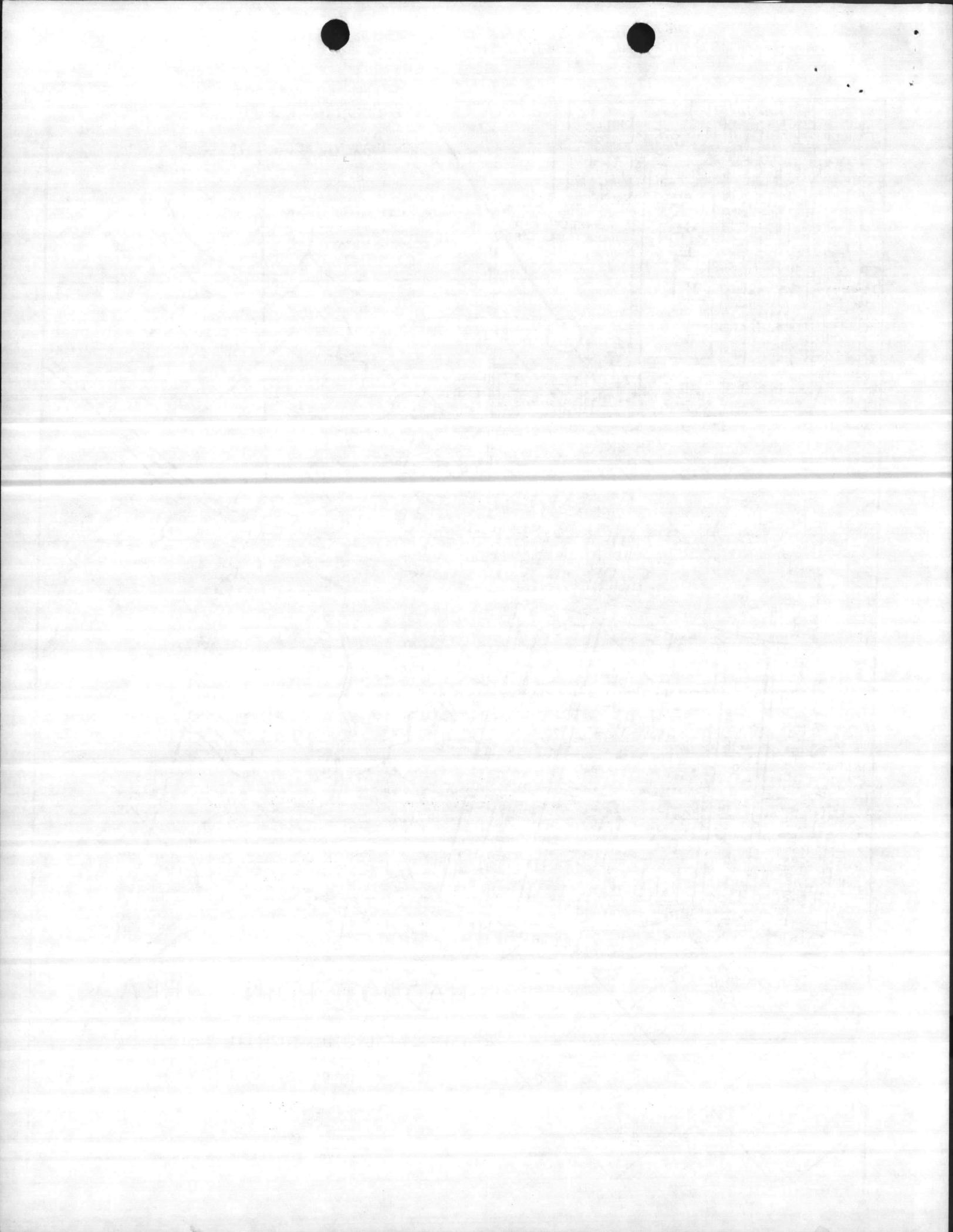
COMBAT VEHICLE MAINTENANCE SHOP



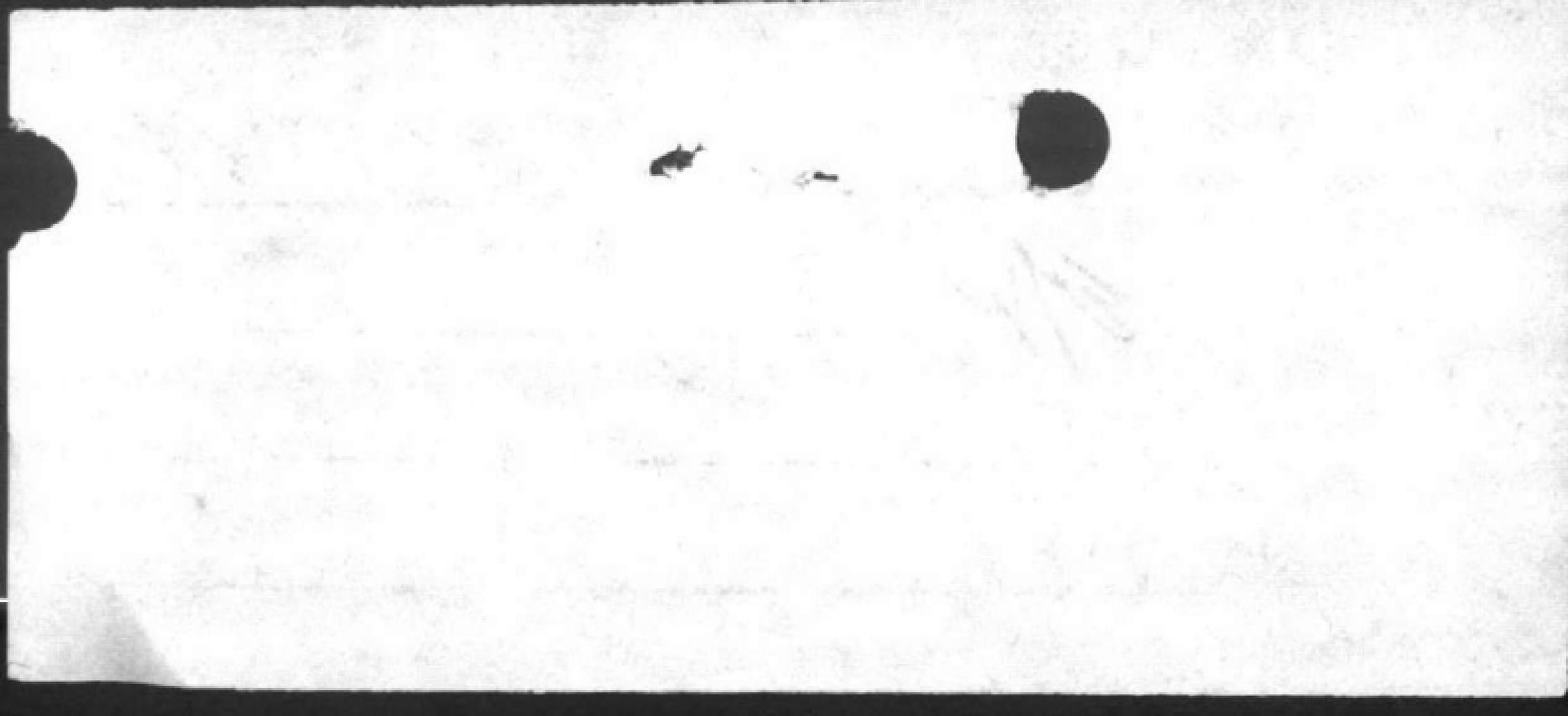
MAP OF  
**HADNOT POINT AREA**  
 CAMP LEJEUNE, NORTH CAROLINA  
 SHOWING CONDITIONS ON

JUNE 30, 1979

0 500 1000 1500 2000  
 SCALE OF FEET







ASSISTANT CHIEF OF STAFF, FACILITIES  
HEADQUARTERS, MARINE CORPS BASE

*al*

DATE 18 Nov 85

TO:

BASE MAINT O

PUBLIC WORKS O

COMM-ELECT O

DIR., NAT. RESOURCES & ENV. AFFAIRS

DIR, FAMILY HOUSING

DIR, BACHELOR HOUSING

BASE FIRE CHIEF

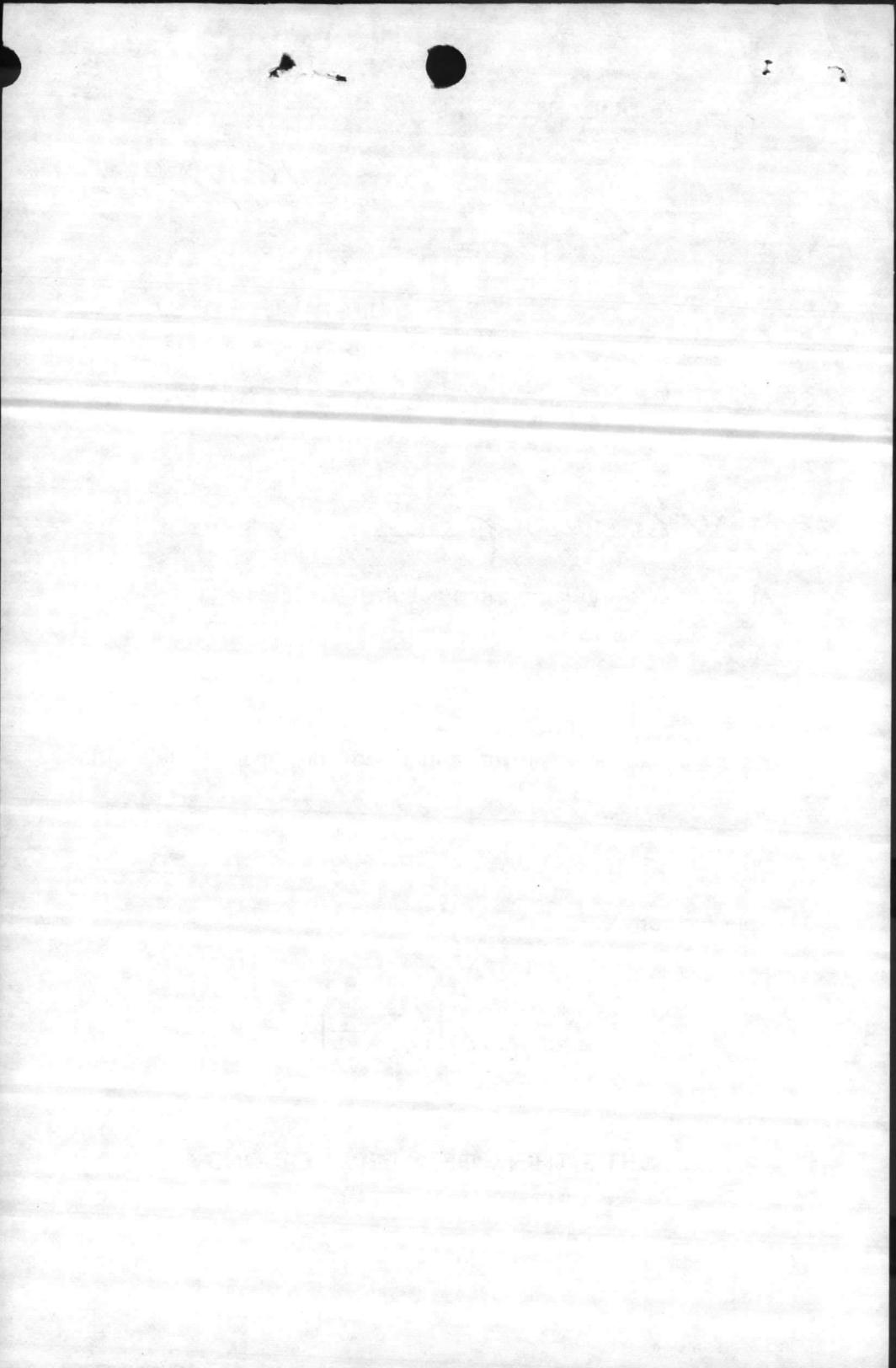
ATTN:

Planning

1. Attached is forwarded for info/action.
2. Please initial, or comment, and return all papers to this office.
3. Your file copy.

*R/S*  
*R.A. Tubb*

“LET’S THINK OF A FEW REASONS  
WHY IT CAN BE DONE”





DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND  
 200 STOVALL STREET  
 ALEXANDRIA, VA 22332

*What say you about #2 reduction?*  
 11013  
 0512C  
 08 NOV 1985

|   |               |   |
|---|---------------|---|
| 1 | 10            |   |
| 2 | <del>10</del> |   |
|   | 24            | R |
|   | 108           | A |
|   |               |   |
|   |               |   |
|   |               |   |

IN REPLY REFER TO

REPRODUCED AT GOVERNMENT EXPENSE

From: Commander, Naval Facilities Engineering Command  
 To: Commander, Atlantic Division, Naval Facilities Engineering Command  
 Subj: FY 1988 MCON PROJECT P-678, AUTOMOTIVE VEHICLE MAINTENANCE SHOPS,  
 MCB CAMP LEJEUNE, NC  
 Ref: (a) NAVFAC LTR 11013/0512 of 12 Sep 85  
 (b) NAVFACINST 11010.14N of 4 May 83  
 Encl: (1) DD Form 1391 for this project dated 1 Jul 85

1. Proceed with initial efforts to select an A&E for the design of this project. This effort includes synopsising, slating and selection; but you are not to enter into fee negotiations or proceed with specific in-house design until so authorized. The EFD validated DD Form 1391 and Facility Study must be received by this Headquarters before 35% design authorization can be released. References (a) and (b) and enclosure (1) apply.

2. The design shall be developed using the scope shown below and as described in enclosure (1). Under no circumstances shall significant scope changes be implemented without the written approval of this Headquarters. Activity initiated requests for significant scope changes must be submitted via their chain of command to this Headquarters for resolution.

3. The proposed budget price for this project is \$6,800,000. This differs from your certified cost due to adjustment by this Headquarters using current guidance unit costs developed from similar projects. Proceed with the full scope and revised cost indicated in enclosure (1).

4. Proceed under appropriation 1761205, subhead 2563; and appropriation 1771205, subhead 2573; as appropriate; and

| UIC Number | P-No. | Phase | Project Scope | Category Code | RPI Code | Package Code |
|------------|-------|-------|---------------|---------------|----------|--------------|
| M67001     | 678   | F88   | 76,210 SF     | 214-51        | 1        | MC           |

A.G. Tjomas  
 A. G. TJOUMAS  
 By direction

*3d Unit Reduction!!!*

Copy to:  
 LANTNAVFACENGCOM (09A2)  
 CMC (LFF-1)  
 COMCABEAST  
 MCB CAMP LEJEUNE, NC



*[Faint, illegible handwriting in the top left corner, possibly a name or date.]*

|   |                            |  |  |                        |  |
|---|----------------------------|--|--|------------------------|--|
| 1. COMPONENT<br>MARINE CORPS  |                            | FY 1988 MILITARY CONSTRUCTION PROJECT DATA |  | 2. DATE<br>1 July 1985 |  |
| 3. INSTALLATION AND LOCATION<br>MARINE CORPS BASE<br>CAMP LEJEUNE, NORTH CAROLINA 28542 |                            |  | 4. PROJECT TITLE<br>HADNOT POINT<br>AUTOMOTIVE<br>COMBAT VEHICLE MAINTENANCE SHOPS |                        |  |
| 5. PROGRAM ELEMENT  | 6. CATEGORY CODE<br>214-51 | 7. PROJECT NUMBER<br>P-678                 | 8. PROJECT COST (\$000)<br><del>10,500</del> 6,800                                 |                        |  |

ESCALATED TO APRIL 1988

9. COST ESTIMATES

| ITEM   | U/M | QUANTITY | UNIT COST              | COST (\$000)            |
|--|-----|----------|------------------------|-------------------------|
| COMBAT VEHICLE MAINTENANCE SHOPS             | SF  | 76,210   | <del>99.09</del> 55.87 | <del>7,552</del> 4258   |
| Building                                     | SF  | 76,210   | <del>95.18</del>       | <del>(7,254)</del> 3960 |
| Built-in Equipment                           | LS  | -        | 52.00                  | (298)                   |
| SUPPORTING FACILITIES                        |     |          |                        | 1,906                   |
| Special Construction Features                |     | -        | -                      | (105)                   |
| Utilities                                    | LS  | -        | -                      | (486)                   |
| Roads, Parking, Sidewalks                    | LS  | -        | -                      | (750)                   |
| Site Improvements                            | LS  | -        | -                      | (291)                   |
| Vehicle/Gun Wash Station w/Pollution Control | SY  | 3,800    | 72.18                  | (274)                   |
| SUBTOTAL                                     |     |          |                        | <del>9,458</del>        |
| CONTINGENCY - 5%                             |     |          |                        | 473                     |
| TOTAL CONTRACT COST                          |     |          |                        | 9,931                   |
| SUPERVISION, INSPECTION & OVERHEAD 5.5%      |     |          |                        | 546                     |
| TOTAL REQUEST                                |     |          |                        | 10,477                  |
| TOTAL REQUEST (ROUNDED)                      |     |          |                        | 10,500                  |
| EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS | -   | -        | - (NON ADD)            | (0)                     |

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct three (3) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in project. Wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. (Air Conditioning: 24 tons).

11. REQUIREMENT: 402,844SF Adequate: 177,664SF Substandard: 145,472SF  
~~Inadequate: 2800SF~~

PROJECT: Provide (three) adequate Combat Vehicle Maintenance/Ordnance Shops for the 10th Marine Regiment.

REQUIREMENT: The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The number of trucks and other vehicles organic to the Regiment is 258. Other vehicles organic to the Regiment is 258. Over 105 personnel will work in these facilities.

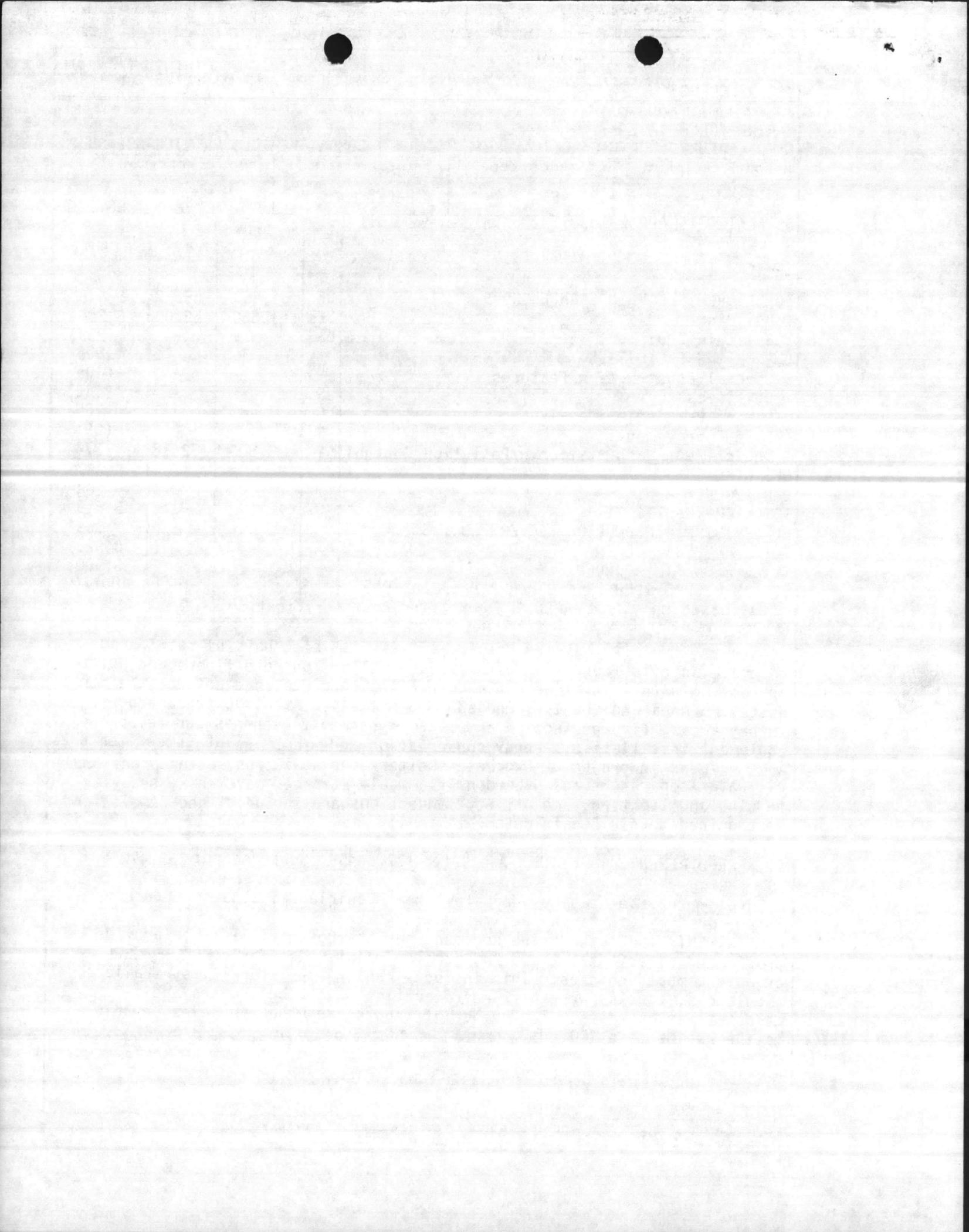
PRODUCED AT GOVERNMENT EXPENSE USE REPRODUCED AT GOVERNMENT EXPENSE

ENCL (2)

~~8-16-85~~ 10.4.85



|   |  |  |                            |  |                                  |  |
|---|--|--|----------------------------|--|----------------------------------|--|
| 1. COMPONENT<br>MARINE CORPS  |  | FY 1988 MILITARY CONSTRUCTION PROJECT DATA |                            |  | 2. DATE REVISION<br>15 Jan 1986  |  |
| 3. INSTALLATION AND LOCATION<br>MARINE CORPS BASE<br>CAMP LEJEUNE, NORTH CAROLINA 28542   |  |  |                            | 4. PROJECT TITLE<br>COMBAT VEHICLE MAINTENANCE SHOPS |                                  |  |
| 5. PROGRAM ELEMENT  |  | 6. CATEGORY CODE<br>214-51                 | 7. PROJECT NUMBER<br>P-678 |  | 8. PROJECT COST (\$000)<br>5,900 |  |
| ESCALATED TO APRIL 1988   |  |  |                            | 9. COST ESTIMATES                                    |                                  |  |
| ITEM  |  | U/M  | QUANTITY                   | UNIT COST  | COST (\$000)                     |  |
| COMBAT VEHICLE MAINTENANCE SHOPS  |  | SF   | 61,660                     | 55.87  | 3,445                            |  |
| Building  |  | SF   | 61,660                     | 52.00  | (3,206)                          |  |
| Built-in Equipment  |  | LS   | -                          | -  | (239)                            |  |
| SUPPORTING FACILITIES   |  |  |                            |  | 1,906                            |  |
| Special Construction Features   |  |  |                            |  | (105)                            |  |
| Utilities   |  | LS   | -                          | -  | (486)                            |  |
| Roads, Parking, Sidewalks   |  | LS   | -                          | -  | (750)                            |  |
| Site Improvements   |  | LS   | -                          | -  | (291)                            |  |
| Vehicle/Gun Wash Station w/Pollution Control  |  | SY   | 3,800                      | 72.18  | (274)                            |  |
| SUBTOTAL  |  |  |                            |  | 5,357                            |  |
| CONTINGENCY - 5%  |  |  |                            |  | 268                              |  |
| TOTAL CONTRACT COST   |  |  |                            |  | 5,619                            |  |
| SUPERVISION, INSPECTION & OVERHEAD 5.5%   |  |  |                            |  | 309                              |  |
| TOTAL REQUEST*  |  |  |                            |  | 5,928                            |  |
| TOTAL REQUEST (ROUNDED)   |  |  |                            |  | 5,900                            |  |
| EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS  |  | -  | -                          | -  | (NON ADD) (0)                    |  |
| *Cost based on COMNAVFACENGCOM certified cost verification of 9 Dec 85  |  |  |                            |  |                                  |  |
| 10. DESCRIPTION OF PROPOSED CONSTRUCTION  |  |  |                            |  |                                  |  |
| Construct two (2) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in project. Overhead shelters for howitzers, wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. (Air Conditioning: 10 tons) |  |  |                            |  |                                  |  |
| 11. *REQUIREMENT: <u>402,531SF</u> Adequate: <u>177,664SF</u> Substandard: <u>133,472SF</u>   |  |  |                            |  |                                  |  |
| PROJECT: Provide (two) adequate Combat Vehicle Maintenance/Ordnance Shops for the 10th Marine Regiment.   |  |  |                            |  |                                  |  |
| REQUIREMENT: The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The number of trucks and other vehicles organic to the Regiment is 400. Over 156 personnel will work in these facilities.  |  |  |                            |  |                                  |  |
| *Requirement is based on NAVMC Form 10651 dtd 12 Nov 85   |  |  |                            |  |                                  |  |



1. COMPONENT  
MARINE CORPS | FY 88 | MILITARY CONSTRUCTION | OBJECT DATA | DATE REVISED  
15 JAN 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOPS

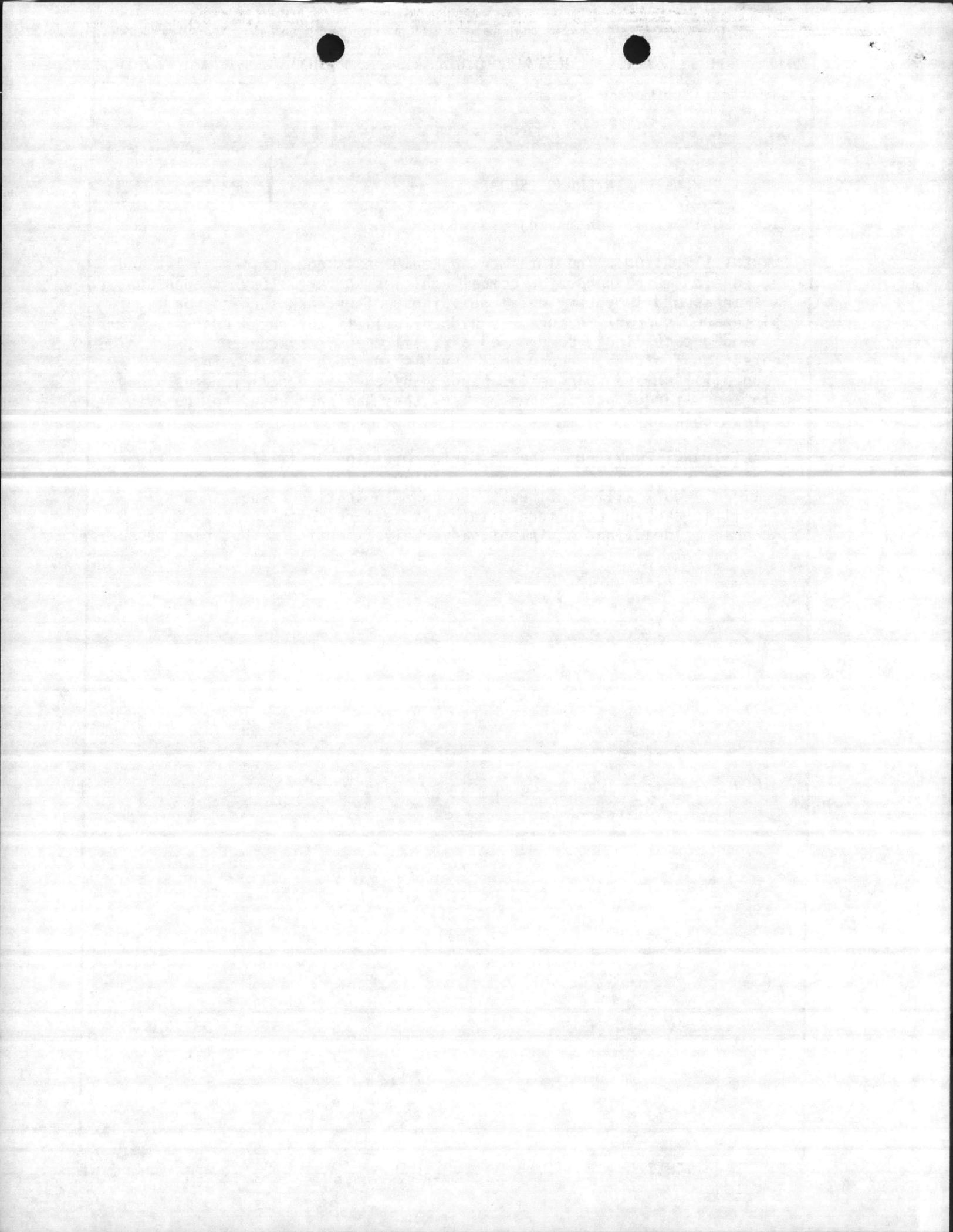
5. PROJECT NUMBER

P-678

11. REQUIREMENT (Continued)

CURRENT SITUATION: The 10th Marine Regiment is now performing 1st and 2nd echelon maintenance for combat vehicles and artillery in open Gun Park areas and temporary metal buildings. They lack such common maintenance support features as hydraulic lifts, overhead craneways, oil and grease lines, compressed air, oil traps, environmental protection features, proper work benches and adequate lighting. Reorganization and changes in weaponry have created deficiencies along with a new target acquisition battery that has been added to the 10th Marine Regiment.

IMPACT IF NOT PROVIDED: The 2d Marine Division Artillery Regiment's maintenance capability and combat readiness will continue to be impaired. Work will continue to be done in scattered substandard facilities causing prolonged maintenance efforts with the resulting increase in deadlined equipment, adversely affecting combat readiness.



1. COMPONENT  
MARINE CORPS | FY 1988 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE  
REVISED  
15 Jan 1986

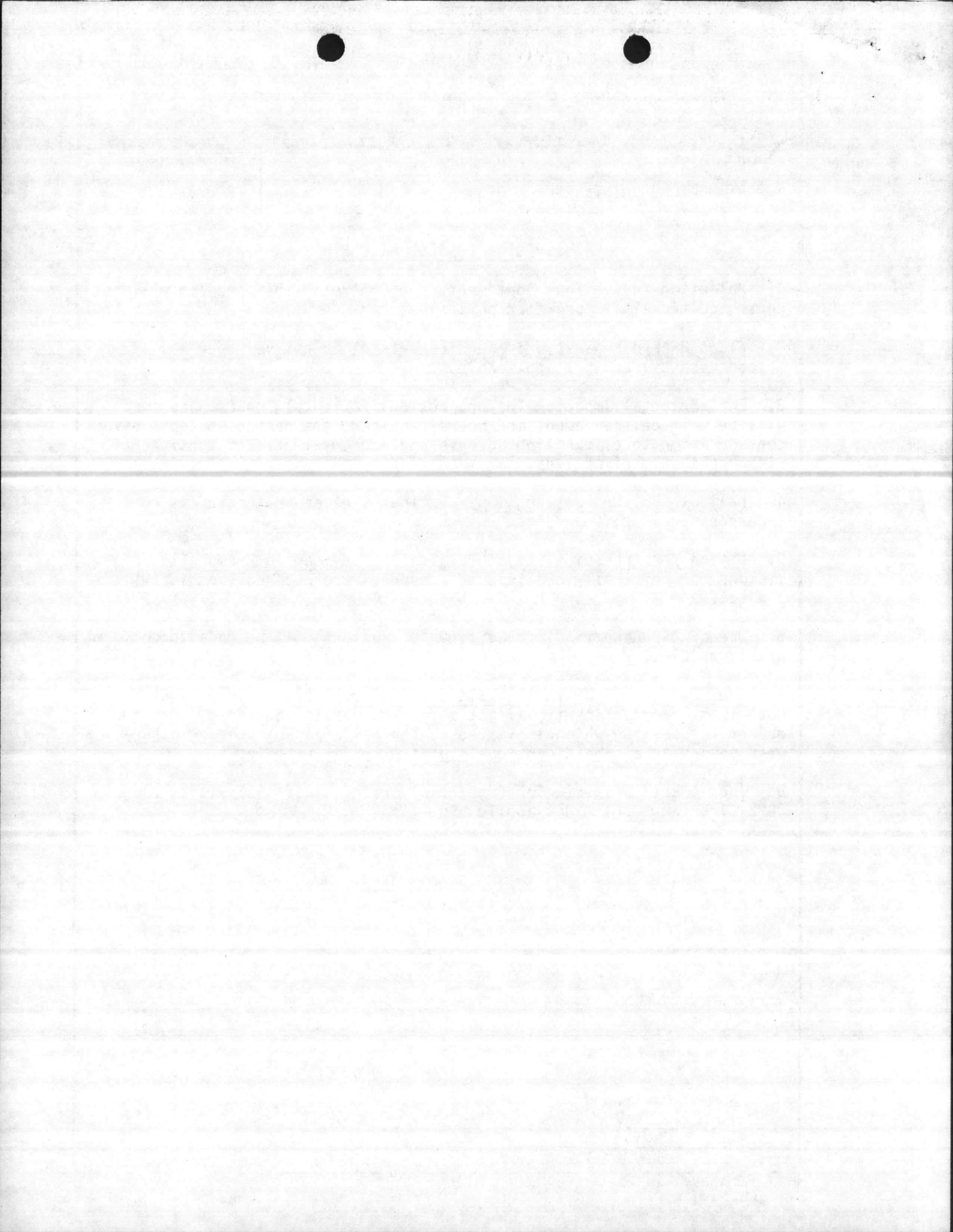
3. INSTALLATION AND LOCATION  
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE  
COMBAT VEHICLE MAINTENANCE SHOPS

5. PROJECT NUMBER  
P-678

SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.
2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.
3. Environmental Impact: The project Environmental Impact Assessment will be written, reviewed, and where required, the design concepts given consideration to eliminating adverse environmental effects consistent with applicable directives.
4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.
5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.
6. Use of Air Conditioning: Ceiling "U" factors will be made to conform with DOD 4270.1-M.
7. Preservation of Historical Sites and Structures: This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.
8. "New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76): Not applicable.



3. INSTALLATION AND LOCATION  
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE  
COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER  
P-678

3. Description of Proposed Construction: (Continued)

(3) Energy Conservation: Energy efficient equipment and building orientation for maximum energy conservation will be utilized.

(4) Collateral Equipment: To be provided by separate correspondence. The present Estimated Value of this equipment is \$60,000.

(5) Supporting Facilities: Special piling, foundations, connecting utilities, a connecting concrete road, site improvements, pollution abatement and hazardous flammable storage.

4. Cost Estimate: The area cost factor for Camp Lejeune is 0.86. Cost data derived from Military Construction Cost Review Guide, for FY-84 (4270.1G). Cost escalated to April 1988.

5. Justification for Project and for Scope of Project:

a. Justification for Project:

(1) Project: Proposed facility is required to provide the Artillery Regiment (10th Marines 2MARDIV) adequate and secure facilities to perform Combat Vehicle/Ordnance Maintenance.

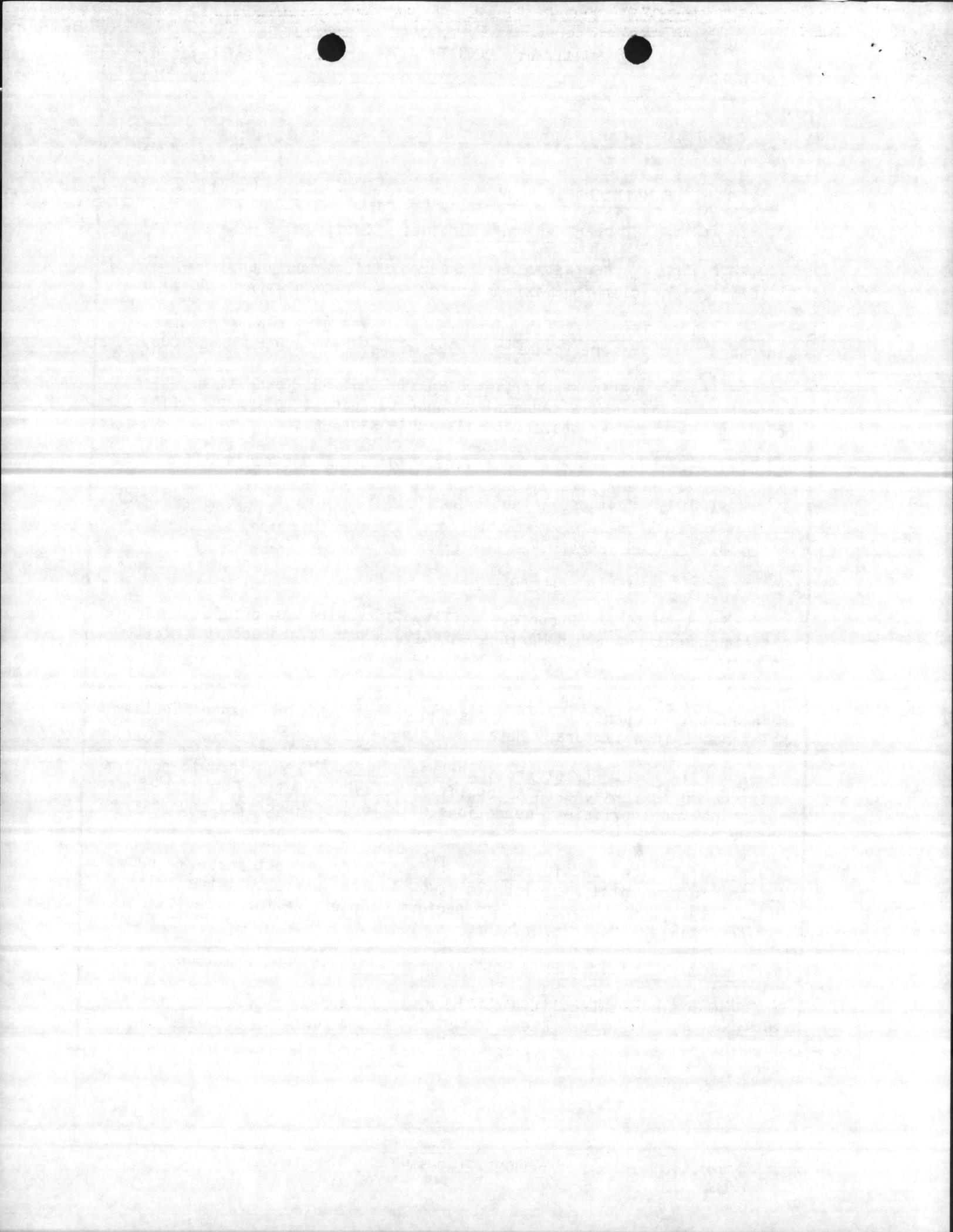
(2) Current Situation: Personnel are now accomplishing Ordnance Maintenance in open Gun Park Areas and Combat Vehicle/Engineer Equipment Maintenance in a temporary Metal Building.

(3) Impact if Not Provided: Personnel will continue to perform Maintenance in substandard makeshift facilities resulting in time-consuming and inefficient operations with loss of work time and wasted energy.

b. Justification of Scope of Project: The project scope, 61,600 is the minimum total size for (2) two facilities to meet the prescribed space requirements to perform maintenance for the 10th Marine Artillery Vehicle/Ordnance equipment.

6. Equipment Provided From Other Appropriations: Not Applicable.

7. Common Support Facilities. There are no common support facilities in Hadnot Point appropriate to this sort of maintenance requirement.



1. COMPONENT

MARINE CORPS

FY 88 MILITARY CONSTRUCTION PROJECT DATA

2. DATE  
REVISED

15 JAN 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER

P-678

8. Effect on Other Resources: This project will require some increase to the O&M, MC funding requirements since some of these Maintenance operations will be transferred from outdoor open lot to indoor lighted and heated areas. No additional personnel will be required to operate this function. This project will enhance and improve the morale of personnel. Proposed construction should be responsive to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977 and implemented by NAVFACINST 4100.5A.

9. Siting of the Project: These two buildings will be sited in the Division Shop Area. See enclosure (1) for the two sites.

10. Other Graphic Presentations, Including Photographs: None.

11. Economic Analysis: This facility is being constructed on a site adjacent to a developed area. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of a mission in this area.

12. Environmental Impact: An environmental impact assessment of the area has been made and it has been determined that this project will have neither a significant impact on the environment nor is it highly controversial.

13. Quantitative Data:

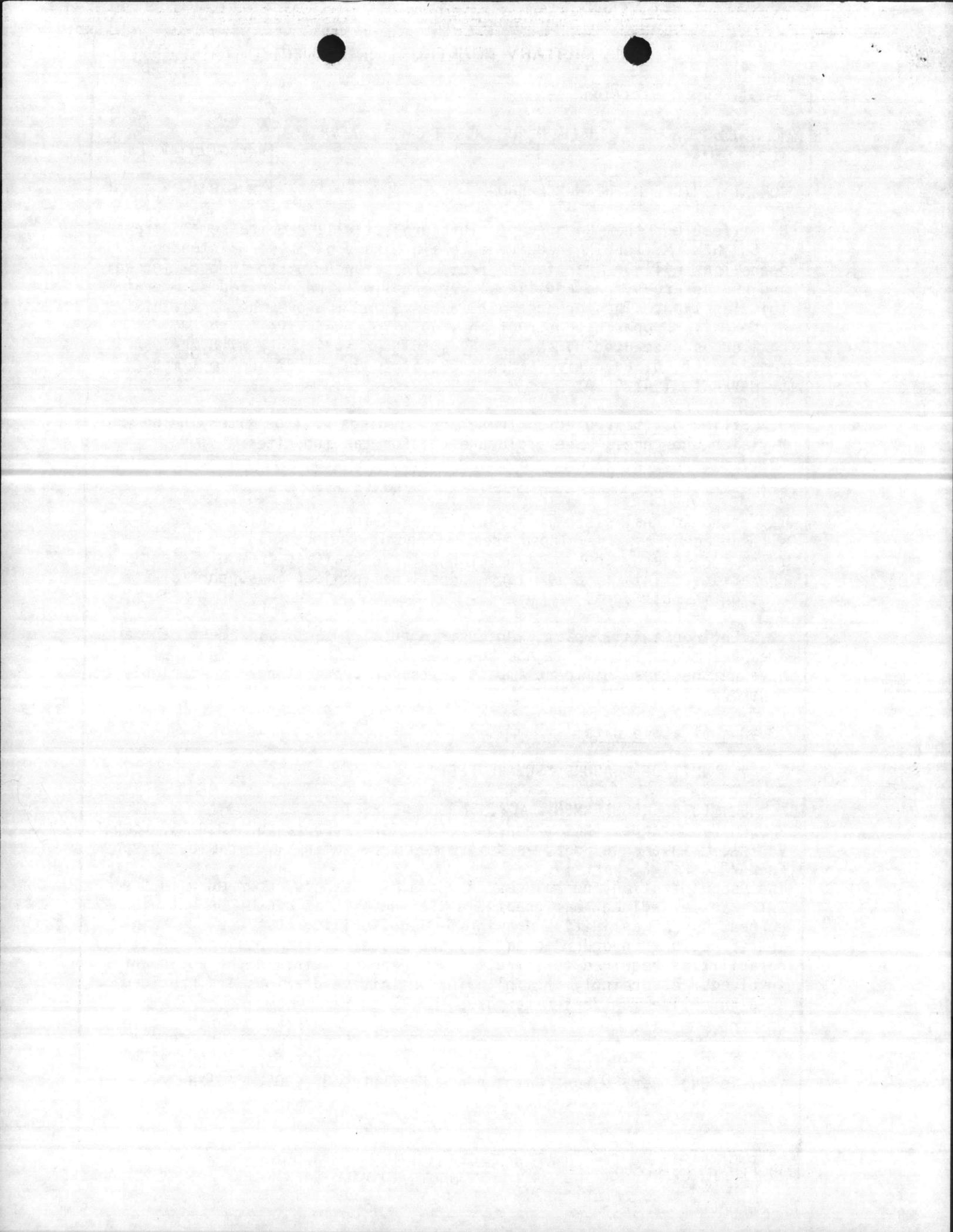
a. UNIT OF MEASURE "SQUARE FEET"

b. TOTAL REQUIREMENT: 402,531 SQUARE FEET

NAVFAC P-80 states that the requirement for Category Code 214-51, Combat Vehicle Maintenance Shop, is determined from definitive drawings given in NAVFAC P-272, Part IV.

The reorganization and changes in weaponry that has occurred with the 10th Marine Regiment has created deficiencies that cannot be met with current NAVFAC definitive drawings. Each facility must meet certain specifications in order to satisfy the space requirements and functional capabilities required to effectively store and maintain the equipment involved. Accordingly the following definitive drawings are provided as a guideline for design purposes:

| Function                                      | Total<br>Square Ft | Definitive<br>Dwg No. |
|---|--------------------|-----------------------|
| Vehicle/Ordnance Maintenance Facility         | 36,260SF           | 1293372               |
| Vehicle/Engineer Support Maintenance Facility | 25,400SF           | 1293371               |



1. COMPONENT

FY 88 MILITARY CONSTRUCTION PROJECT DATA

2. DATE REVISED

15 JAN 1986

MARINE CORPS

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER

P-678

13. Quantitative Data: (Continued)

- c. EXISTING SUBSTANDARD 133,472 SQUARE FEET
- d. EXISTING INADEQUATE .0 SQUARE FEET
- e. EXISTING ADEQUATE 177,664 SQUARE FEET
- f. OTHER ASSETS, NOT IN INVENTORY - 0 SQUARE FEET
- g. FUNDED, NOT IN INVENTORY 70,174 SQUARE FEET

| <u>PROJ. NO.</u> | <u>AREA(SF)</u> | <u>STATUS</u> |
|------------------|-----------------|---------------|
| P-525            | 30,837          | FY-87         |
| P-196            | 30,837          | FY-90         |
| P-568            | 8,500           | FY-90         |

- h. ADEQUATE ASSETS (e + f + g) 247,838 SQUARE FEET
- i. DEFICIENCY (b - h) 155,006 SQUARE FEET

|                   |                      |
|-------------------|----------------------|
| Total Requirement | 402,531 SQUARE FEET  |
| Adequate Assets   | -247,838 SQUARE FEET |
| Deficiency        | 154,693 SQUARE FEET  |

14. Maintenance Facilities:

Planning factors have been identified in terms of quantitative workloads that have been supported by the level of utilization. Each of the three facilities have certain specifications in order to satisfy the space requirements and functional capabilities to effectively store and maintain the equipment involved. This information has been provided by letter 11000 dated 14 Jan 1985, from the Commanding Officer of the 10th Marine Regiment.

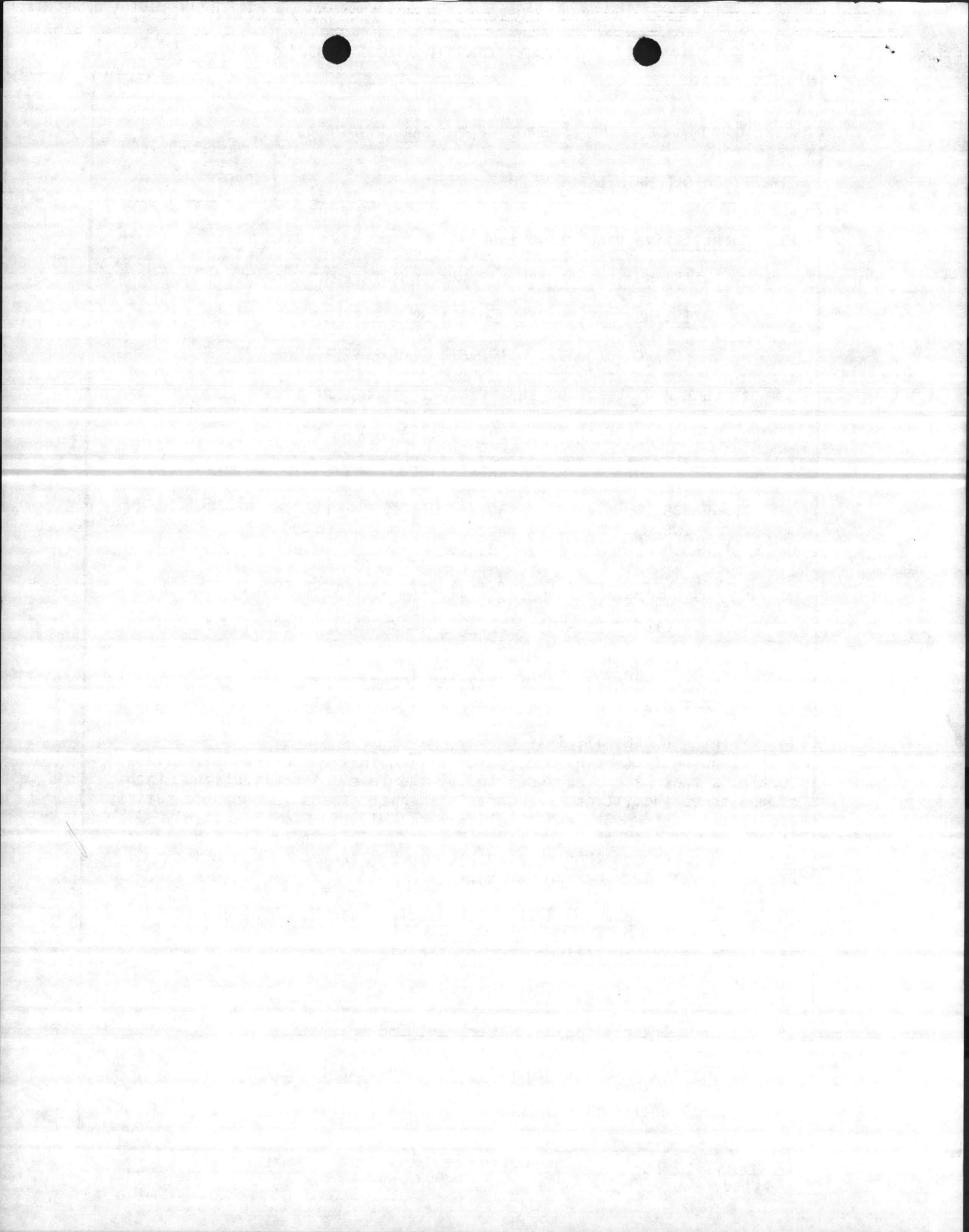
15. Morale, Welfare and Recreation Facilities: Not Applicable.

16. Relocation Facilities: Not Applicable.

17. Storage Facilities: Not Applicable.

18. Hazards Identification, Assessment and Analysis:

a. System safety engineering and management programs will be used to ensure that the highest possible degree of safety and occupational health is designed into these facilities.



1. COMPONENT

MARINE CORPS

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

2. DATE

REVISED

15 JAN 1986

PROJECT DATA

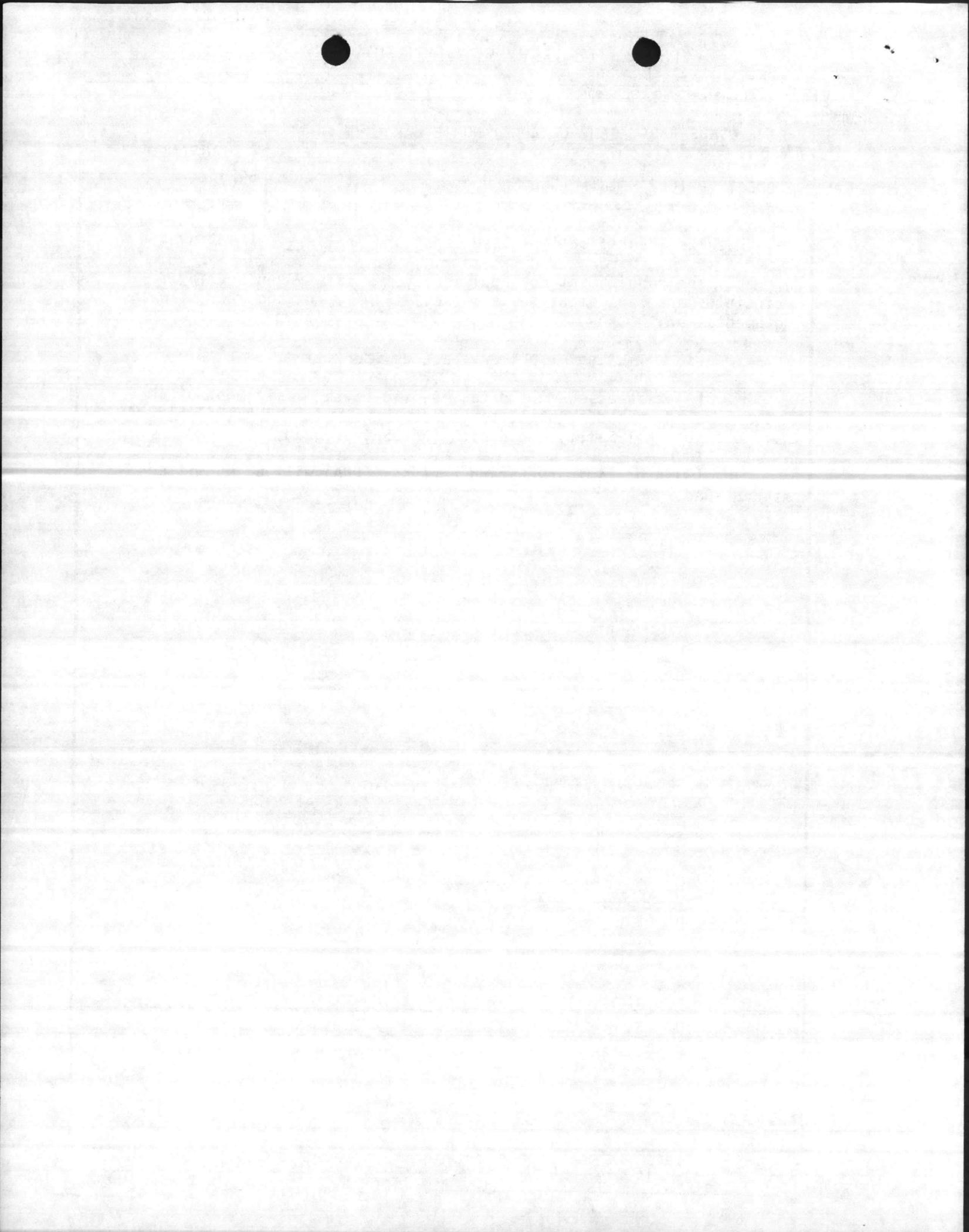
18. Hazards Identification, Assessment and Analysis: (Continued)

b. The requirement for applying system safety engineering principles and management to this facility will include the following documentation:

(1) A listing of primary hazards identified.

(2) Risk assessment data, leading to the assignment of a "risk assessment code", shall be in accordance with OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) program.

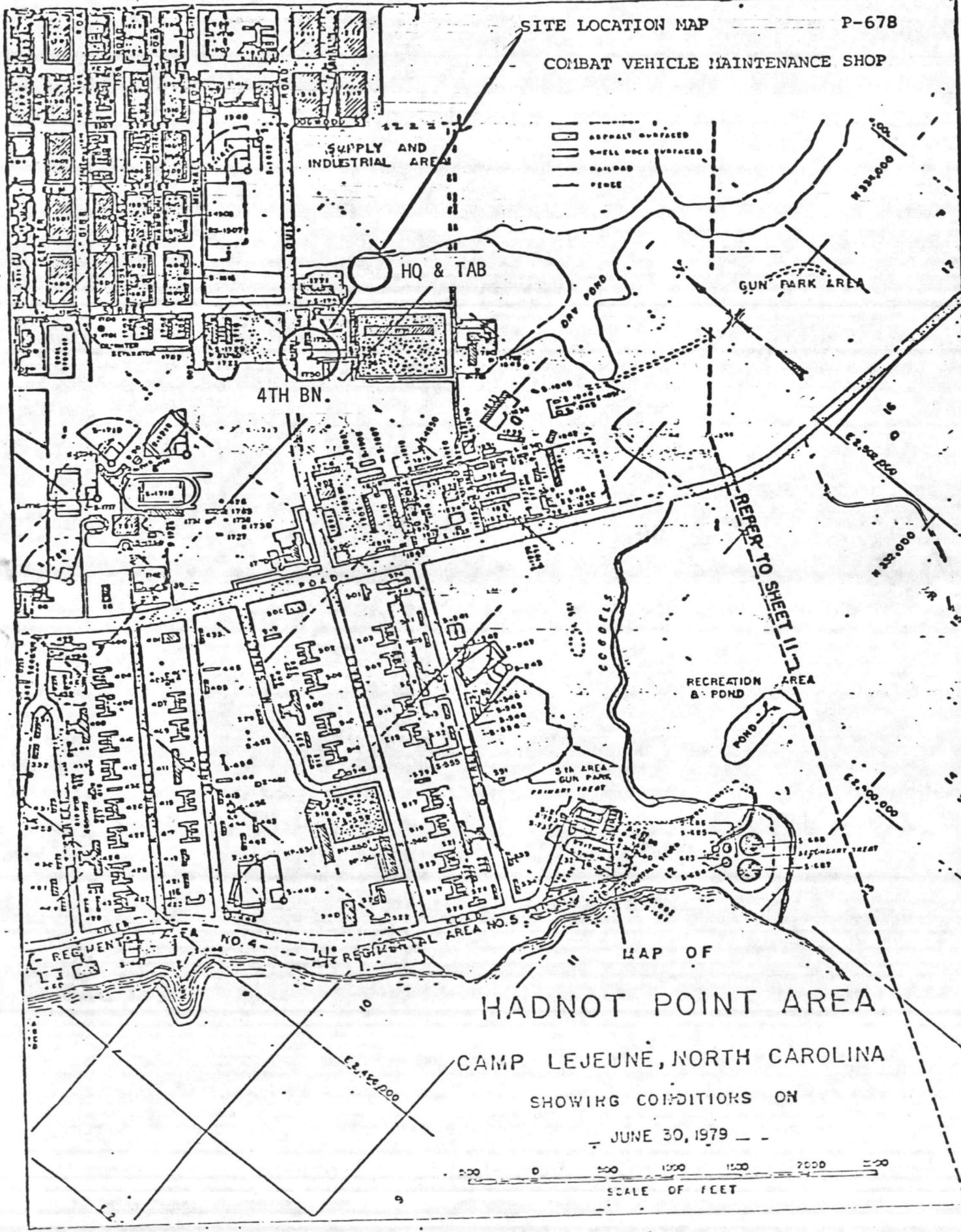
(3) A preliminary hazard analysis (PHA) will be submitted as required.

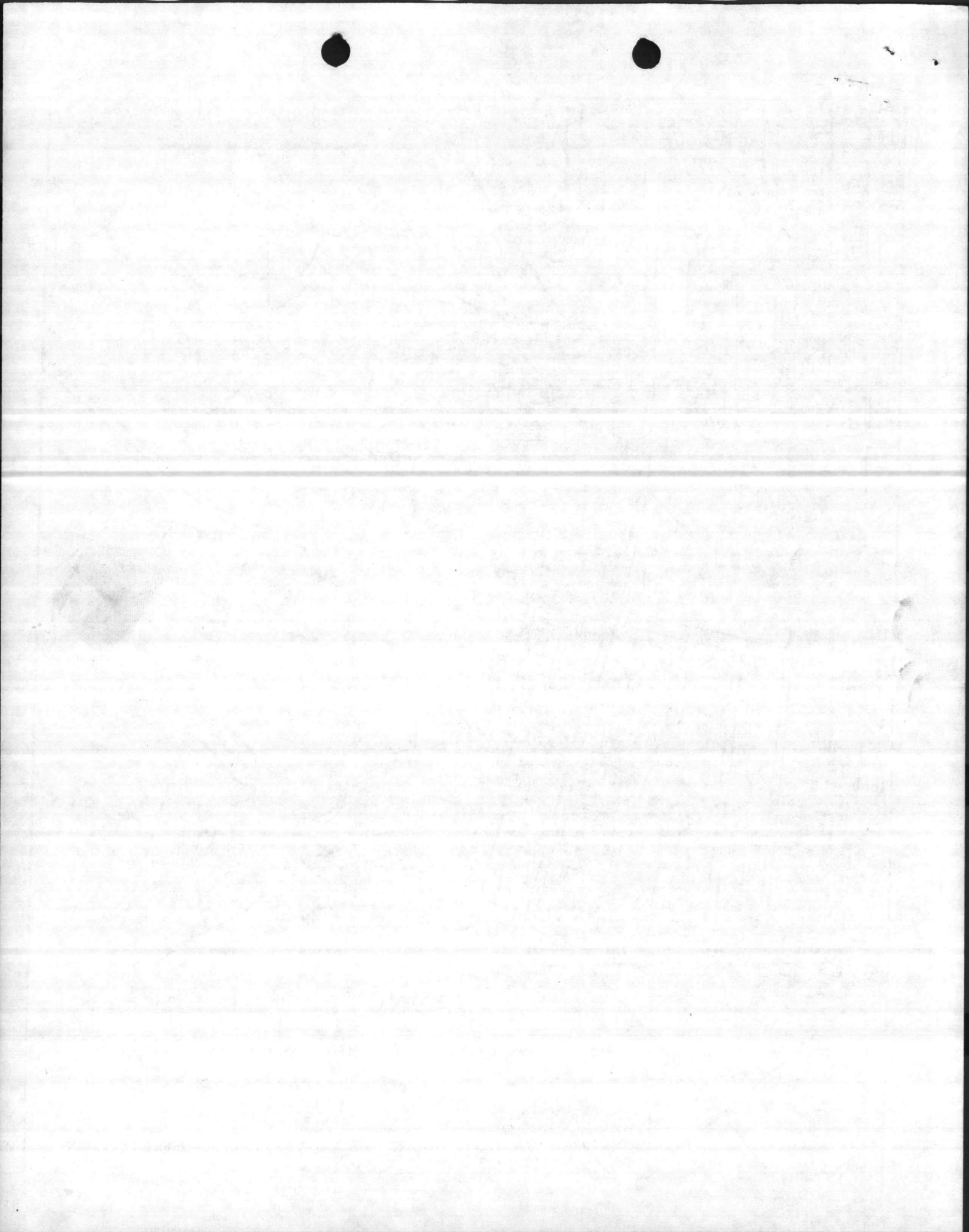


SITE LOCATION MAP

P-678

COMBAT VEHICLE MAINTENANCE SHOP







Q-678  
Collateral  
EQUIPMENT

| ITEM NO. | ITEM DESCRIPTION   | SPEC.  | NO. | MOTOR |      |        |      | TRANSPORT |          |           | AND             |      | REMARKS | ITEM NO.  | ITEM DESCRIPTION | SPEC. | NO. | EQUIPMENT |        |      |       | SCHEDULE |           |                                   | REMARKS |
|----------|--|--------|-----|-------|------|--------|------|-----------|----------|-----------|-----------------|------|---------|---|------------------|-------|-----|-----------|--------|------|-------|----------|-----------|-----------------------------------|---------|
|          |  |        |     | FUND  | K.W. | H.P.   | VOLT | PHASE     | ELECTRIC | NO. WIRES | OTHER UTILITIES | FUND |         |   |                  |       |     | K.W.      | H.P.   | VOLT | PHASE | ELECTRIC | NO. WIRES | OTHER UTILITIES                   |         |
| 1        | BENCHES, WORK PORTABLE 48" x 28" x 34" HIGH  | *      |     |       |      |        |      |           |          |           |                 |      | 52      | WELDING TABLE, STEEL 60" x 82" x 30"                        | *                |       |     |           |        |      |       |          |           | EXHAUST HOOD OVER - BY M.C.F.     |         |
| 2        | BENCHES, WORK PORTABLE 72" x 28" x 34" HIGH  | *      |     |       |      |        |      |           |          |           |                 |      | 53      | TEMPERING BOX (SAND FILLED) 24" x 40" ON STAND.             | *                |       |     |           |        |      |       |          |           |                                   |         |
| 3        | BENCH, WORK STATIONARY 28" DEEP x 34" HIGH, SEE PLAN FOR LGTH  | *      |     |       |      |        |      |           |          |           |                 |      | 54      | TEMPERING BOX (ASBESTOS FILLED) 24" x 40" ON STAND          | *                |       |     |           |        |      |       |          |           |                                   |         |
| 4        | PARTS BINS, ADJ. SHELVING 14" B 24" DEEP   | *      |     |       |      |        |      |           |          |           |                 |      | 55      | ELECTRIC WELDER, INERT GAS (ARGON) ON CART                  | *                | 30    |     | 220 V     | 3      |      |       |          |           | GENERATOR, ENGINE POWERED         |         |
| 5        | TIRE STORAGE RACKS 48" x 18" x 73 1/4" - 81 1/2" x 48" x 63 1/4"   | *      |     |       |      |        |      |           |          |           |                 |      | 56      | GAS WELDING/CUTTING (OX. ACET.) UNIT ON CART                | *                |       |     |           |        |      |       |          |           |                                   |         |
| 6        | PARTS ROTA BINS  | *      |     |       |      |        |      |           |          |           |                 |      | 57      | HOT LOCKER-WELDING RODS, 3/6" x 48" x 60" HIGH              | *                |       |     | 110 V.    |        |      |       |          |           | 300 WATT BULB HEATING REQUIREMENT |         |
| 7        | TIRE CHANGER H.D. ELEC. AIR  | M.C.F. |     | 2     |      | 220 V. | 3    |           |          |           |                 |      | 58      | OPTICAL CALIBRATION STAND (VISUAL SIGHTING)                 | *                |       |     |           |        |      |       |          |           |                                   |         |
| 8        | TEST TANK (WATER) 24" x 50" x 18"  | *      |     |       |      |        |      |           |          |           |                 |      | 59      | 105-MM RECOLESS RIFLE VENT BUSHING REMOVER                  | *                |       |     |           |        |      |       |          |           |                                   |         |
| 9        | ACETYLENE CUTTING AND WELDING KIT  | *      |     |       |      |        |      |           |          |           |                 |      | 60      | 106 MM MORTAR GROUND REPAIR JIGS & BENCH 30" x 82" x 14" H. | *                |       |     |           |        |      |       |          |           |                                   |         |
| 10       | WELDER, ELEC. A.L. SHOP TYPE   | *      | 30  |       |      | 220 V. | 3    |           |          |           |                 |      | 61      | VOLUMETRIC TESTER (FLAME THROWER) BENCH MOUNTED.            | *                |       |     |           | 110 V. |      |       |          |           |                                   |         |
| 11       | AIR HOSE REEL 150 PSI, H.D. W/HOSE CONTROL VALVE AND HOSE STOPS (CEILING OR WALL MOUNTED SEE PLAN FOR TYPE)  | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 62      | OUTLETS FOR ENGINE STARTING (1-EACH REPAIR STALL)           | M.C.F.           |       |     | 24 V.     |        |      |       |          |           |                                   |         |
| 12       | ELEC. EXTENSION CORD REEL H.D. W/CORD STOP (CEILING OR WALL MOUNTED SEE PLAN FOR TYPE.)  | M.C.F. |     |       |      | 110 V. | 1    |           |          |           |                 |      | 63      | OUTLETS FOR REFRIG. UNIT TEST (UTILITIES REPAIR)            | *                |       |     | 220 V.    |        |      |       |          |           |                                   |         |
| 13       | WATER HOSE REEL, H.D. W/HOSE CONTROL VALVE AND HOSE STOP (CEILING OR WALL MOUNTED SEE PLAN FOR TYPE)   | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 64      | HARD SURFACE WELDER (ELEC.) ON CART                         | *                |       |     |           |        |      |       |          |           | GENERATOR, ENGINE POWERED         |         |
| 14       | HOSE REELS ASSEMBLY W/CONTROL VALVES, H.D. OVERHEAD, AUTOMATIC HOSE STOPS, AND MEYERS.<br>(14A) 1-CHASSIS LUBE, 2-MOTOR OIL, 1-GEAR OIL, 1-HYDRAULIC FLUID<br>(14B) 1-CHASSIS LUBE, 1-MOTOR OIL, 1-GEAR OIL, 1-HYDRAULIC OIL | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 65      | BENCH WORK STATIONARY 36" DEEP, 34" HIGH, SEE PLAN FOR LGTH | *                |       |     |           |        |      |       |          |           |                                   |         |
| 15       | EXHAUST SYSTEM UNDERGROUND (AUTOMOTIVE OR CONST. EQUIP)  | M.C.F. |     | 1/2   |      | 220 V. | 3    |           |          |           |                 |      | 66      | AZIMUTH TEST FIXTURE - BENCH MOUNTED                        | *                |       |     |           |        |      |       |          |           |                                   |         |
| 16       | EXHAUST SYSTEM OVERHEAD (CONST. EQUIP)   | M.C.F. |     | 1/2   |      | 220 V. | 3    |           |          |           |                 |      | 67      | WORK TABLE (PORTABLE) 36" x 42" x 32" HIGH.                 | *                |       |     |           |        |      |       |          |           |                                   |         |
| 17       | DELUGE SHOWER W/EYE WASH   | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 68      | 5 TON OVHD BRIDGE CRANE                                     | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 18       | ACID RESISTANT SINK  | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 69      | 10 TON OVHD BRIDGE CRANE                                    | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 19       | EXHAUST HOOD (OVER)  | M.C.F. |     | 1/3   |      | 110 V. | 1    |           |          |           |                 |      | 70      | TWIN-POST HYDRAULIC LIFT, HD 24,000 LB CAPACITY             | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 20       | BATTERY CHARGER 6 OR 12 V. SELENIUM TYPE-BATTERY TESTER 6 & 12 VOLT  | *      |     | 2.2   |      | 220 V. |      |           |          |           |                 |      | 71      | TWIN-POST HYDRAULIC LIFT, LD 11,000 LB CAPACITY             | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 21       | TIRE VULCANIZER H.D.-VULCANIZING MOLDS   | *      |     |       |      |        |      |           |          |           |                 |      | 72      | 10 TON OVHD. MONO-RAIL                                      | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 22       | PASS WINDOW-4'-0" WIDE W/COUNTER B LABEL ROLL DOWN SHUTTER (W/FUSIBLE LINK)  | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 73      | 1 TON OVHD. MONO-RAIL                                       | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 23       | LUBE DISPENSING EQUIPMENT W/ACCESSORIES (COUPLERS, VALVES REGULATORS, ETC.)  | M.C.F. |     |       |      |        |      |           |          |           |                 |      | 74      | 5 TON OVHD. MONO-RAIL                                       | M.C.F.           |       |     |           |        |      |       |          |           |                                   |         |
| 24       | AIR PUMPS, 400 LB. DRUMS FOR OIL (CHASSIS, GEAR, MOTOR OIL, TRANSMISSION FLUID, HYDRAULIC FLUID) AS REQUIRED IN 14A, 14B   | M.C.F. |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 25       | 14" W. SHELVING W/ADJ. STANDARDS   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 26       | 12" W. SHELVING W/ADJ. STANDARDS   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 27       | ACID STORAGE RACK 24" x 24"  | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 28       | DRILL STAND 1/2" TO 1", SIZE 60  | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 29       | GRINDER BENCH 7"   | *      |     | 3/4   |      | 220 V. | 3    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 30       | GRINDER PEDESTAL 10"   | *      |     | 1     |      | 220 V. | 3    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 31       | HYDRAULIC PRESS 80 & 60 TON  | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 32       | HYDRAULIC PRESS 10 TON   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 33       | GENERATOR REGULATOR TIMING TESTER  | *      |     |       |      | 220 V. |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 34       | OUTLETS FOR PORTABLE ARC WELDER  | M.C.F. |     |       |      | 220 V. |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 35       | CLEANING TANK (PARTS) 38" x 22" x 34" (PORTABLE)   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 36       | BRAKE SHOE GRINDER   | *      |     | 1/2   |      | 220 V. | 3    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 37       | BRAKE SHOE RIVETER   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 38       | POWER HACK SAW   | *      |     | 1/4   |      | 110 V. | 1    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 39       | BAND SAW   | *      |     | 1/4   |      | 110 V. | 1    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 40       | POWER METAL SHEARS   | *      |     | 1/3   |      | 110 V. | 1    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 41       | POWER METAL BRAKE  | *      |     | 1/3   |      | 110 V. | 1    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 42       | ANVIL  | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 43       | FORGE (PORTABLE)   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 44       | LOAD BANK TESTER   | *      | 60  |       |      | 220 V. | 3    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 45       | 300 GAL. TEST TANK FOR OUTBOARD MOTORS (PORTABLE)  | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 46       | BRAKE DRUM LATH H.D. 24" DIAM. 450#  | M.C.F. |     | 1/3   |      | 110 V. | 1    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 47       | LATH-METAL   | *      |     | 1/4   |      | 110 V. | 1    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 48       | DRILL PRESS 3/4" PEDESTAL MOUNTED  | *      |     | 1/2   |      | 220 V. | 3    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 49       | AIR COMPRESSOR 100 PSI.  | M.C.F. |     | 1/2   |      | 220 V. | 3    |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 50       | WELDING TABLE (REFRACTORY TYPE) 36" x 36" x 32" HIGH   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |
| 51       | WELDING TABLE, STEEL 54" x 36" x 30"   | *      |     |       |      |        |      |           |          |           |                 |      |         |   |                  |       |     |           |        |      |       |          |           |                                   |         |

**LEGEND**

M.C.F. - MILITARY CONSTRUCTION FUND  
 \* - MARINE CORPS FUND  
 H.D. - HEAVY DUTY  
 C.W. - COLD WATER  
 OX. - OXYGEN  
 ACET. - ACETYLENE  
 L.D. - LIGHT DUTY  
 OVHD. - OVERHEAD

ELECTRICAL LOADS IN SCHEDULE ABOVE ARE APPROXIMATE & ARE INTENDED FOR ESTIMATING PURPOSES ONLY. ACTUAL LOADS WILL BE DETERMINED BY EQUIP. PURCHASED &/OR AVAILABLE. ELECTRICAL LOADS HAVE BEEN OMITTED FOR EQUIP. WITH WIDE VARIATION IN LOAD REQUIREMENTS.

SIZE & TYPE TO BE DETERMINED LOCALLY  
 ELEC. AS REQUIRED BY EQUIPMENT

VENTILATION UNDER M.C.F.

BUILDING SYSTEM-  
 EXHAUST HOOD OVER - BY M.C.F.  
 EXHAUST HOOD OVER - BY M.C.F.

TAB & HQS. BTRY  
 25,400 SF

|   |               |  |                      |
|---|---------------|--|----------------------|
| LYLES, BISSETT, CARLISLE & WOLFF<br>ENGINEERS / ARCHITECTS / SURVEYORS<br>CORPORATION<br>WASHINGTON<br>DISTRICT OF COLUMBIA |               | DEPARTMENT OF THE NAVY<br>NAVAL FACILITIES ENGINEERING COMMAND<br>WASHINGTON, D.C. |                      |
| DESIGN: M.H.   DRAWN: D.R.   CH. W.D.   | DATE: 9/27/70 | DEFINITIVE DRAWING   |                      |
| SUBMITTED BY: [Signature]   |               | SHOP EQUIPMENT SCHEDULE for  |                      |
| NAVYAC TITLE: [Signature]   |               | ORDNANCE & COMBAT/AUTOMOTIVE/ TRACK  |                      |
|   |               | FIELD MAINTENANCE SHOPS  |                      |
|   |               | U. S. M. C.  |                      |
| APPROVED: [Signature]   | DATE: 9/27/70 | SIZE: F  | CODE SHEET NO. 80091 |
| OFFICE IN CHARGE: [Signature]   | DATE: 9/27/70 | NAVFAC DRAWING NO. 129445I   |                      |
| FOR COMMANDER NAVYAC  |               | CONTR. CONTROL NO. [Blank]   |                      |
| SCALE AS NOTED  |               | SHEET NO. [Blank]  |                      |

P-67B  
Collateral  
EQUIPMENT

| ITEM NO. | ITEM DESCRIPTION   | SPEC.  | NO. | FUND STATUS | MOTOR TRANSPORT AND WEAPONS MAINTENANCE FACILITY |      |      |                                      | REMARKS | ITEM NO. | ITEM DESCRIPTION  | SPEC.  | NO. | FUND STATUS | EQUIPMENT SCHEDULE |                 |                                   |                             | REMARKS |
|----------|--|--------|-----|-------------|--|------|------|--------------------------------------|---------|----------|---|--------|-----|-------------|--------------------|-----------------|-----------------------------------|-----------------------------|---------|
|          |  |        |     |             | K.W.   | H.P. | VOLT | PHASE                                |         |          |   |        |     |             | ELECTRIC           | OTHER UTILITIES | K.W.                              | H.P.                        |         |
| 1        | BENCHES, WORK PORTABLE 48" x 28" x 34" HIGH  | *      |     |             |  |      |      |                                      |         | 52       | WELDING TABLE, STEEL 60" x 82" x 30"                        | *      |     |             |                    |                 |                                   | EXHAUST HOOD OVER BY M.C.F. |         |
| 2        | BENCHES, WORK PORTABLE 72" x 28" x 34" HIGH  | *      |     |             |  |      |      |                                      |         | 53       | TEMPERING BOX (SAND FILLED) 24" x 40" ON STAND.             | *      |     |             |                    |                 |                                   |                             |         |
| 3        | BENCH, WORK STATIONARY 28" DEEP x 34" HIGH .SEE PLAN FOR LGTH  | *      |     |             |  |      |      |                                      |         | 54       | TEMPERING BOX (ASBESTOS FILLED) 24" x 40" ON STAND          | *      |     |             |                    |                 |                                   |                             |         |
| 4        | PARTS BINS, ADJ. SHELVING 14" x 24" DEEP   | *      |     |             |  |      |      |                                      |         | 55       | ELECTRIC WELDER, INERT GAS (ARGON) ON CART                  | *      | 30  | 220 V       | 3                  |                 | GENERATOR, ENGINE POWERED         |                             |         |
| 5        | TIRE STORAGE RACKS 48"x18"x73/4" - @ 1/2"x48"x63 1/4"  | *      |     |             |  |      |      |                                      |         | 56       | GAS WELDING/CUTTING (OX. ACET.) UNIT ON CART                | *      |     |             |                    |                 |                                   |                             |         |
| 6        | PARTS ROTA BINS  | *      |     |             |  |      |      |                                      |         | 57       | HOT LOCKER-WELDING RODS, 36" x 48" x 60" HIGH               | *      |     | 110 V.      |                    |                 | 300 WATT BULB HEATING REQUIREMENT |                             |         |
| 7        | TIRE CHANGER H.D. ELEC. AIR  | M.C.F. |     | 2           | 220 V  | 3    |      | 150 P.S.I. COMP AIR                  |         | 58       | OPTICAL CALIBRATION STAND (VISUAL SIGHTING)                 | *      |     |             |                    |                 |                                   |                             |         |
| 8        | TEST TANK (WATER) 24" x 50" x 18"  | *      |     |             |  |      |      | C.W.                                 |         | 59       | 105 MM RECOILESS RIFLE VENT BUSHING REMOVER                 | *      |     |             |                    |                 |                                   |                             |         |
| 9        | ACETYLENE CUTTING AND WELDING KIT  | *      |     |             |  |      |      |                                      |         | 60       | 106 MM MORTAR GROUND REPAIR JIGS B BENCH 30"x82"x14"H.      | *      |     |             |                    |                 |                                   |                             |         |
| 10       | WELDER, ELEC. A.L. SHOP TYPE   | *      | 30  | 220 V       | 3  |      |      |                                      |         | 61       | VOLUMETRIC TESTER (FLAME THROWER) BENCH MOUNTED             | *      |     | 110 V.      |                    |                 |                                   |                             |         |
| 11       | AIR HOSE REEL 150 P.S.I. H.D. W/HOSE CONTROL VALVE AND HOSE STOPS (CEILING OR WALL MOUNTED SEE PLAN FOR TYPE)  | M.C.F. |     |             |  |      |      |                                      |         | 62       | OUTLETS FOR ENGINE STARTING (1-EACH REPAIR STALL)           | M.C.F. |     | 24 V.       |                    |                 |                                   |                             |         |
| 12       | ELEC. EXTENSION CORD REEL H.D. W/CORD STOP (CEILING OR WALL MOUNTED SEE PLAN FOR TYPE.)  | M.C.F. |     | 110 V.      | 1  |      |      |                                      |         | 63       | OUTLETS FOR REFRIG. UNIT TEST (UTILITIES REPAIR)            | *      |     | 220 V.      |                    |                 |                                   |                             |         |
| 13       | WATER HOSE REEL H.D. W/HOSE CONTROL VALVE AND HOSE STOP (CEILING OR WALL MOUNTED SEE PLAN FOR TYPE)  | M.C.F. |     |             |  |      |      |                                      |         | 64       | HARD SURFACE WELDER (ELEC.) ON CART                         | *      |     |             |                    |                 | GENERATOR, ENGINE POWERED         |                             |         |
| 14       | HOSE REELS ASSEMBLY W/CONTROL VALVES, H.D. OVERHEAD, AUTOMATIC HOSE STOPS, AND METERS.<br>(14A) I-CHASSIS LUBE, 2 MOTOR OIL, I-GEAR OIL, I-HYDRAULIC FLUID<br>(14B) I-CHASSIS LUBE, I-MOTOR OIL, I-GEAR OIL, I-HYDRAULIC OIL | M.C.F. |     |             |  |      |      |                                      |         | 65       | BENCH WORK STATIONARY 36" DEEP 34" HIGH, SEE PLAN FOR LGTH. | *      |     |             |                    |                 |                                   |                             |         |
| 15       | EXHAUST SYSTEM UNDERGROUND (AUTOMOTIVE OR CONST. EQUIP)  | M.C.F. |     | 1/2         | 220 V.   | 3    |      |                                      |         | 66       | AZIMUTH TEST FIXTURE - BENCH MOUNTED                        | *      |     |             |                    |                 |                                   |                             |         |
| 16       | EXHAUST SYSTEM OVERHEAD (CONST. EQUIP)   | M.C.F. |     | 1/2         | 220 V.   | 3    |      |                                      |         | 67       | WORK TABLE (PORTABLE) 36" x 42" x 32" HIGH.                 | *      |     |             |                    |                 |                                   |                             |         |
| 17       | DELUGE SHOWER W/EYE WASH   | M.C.F. |     |             |  |      |      | C.W.                                 |         | 68       | 5 TON OVHD. BRIDGE CRANE                                    | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 18       | ACID RESISTANT SINK  | M.C.F. |     |             |  |      |      | C.W.                                 |         | 69       | 10 TON OVHD. BRIDGE CRANE                                   | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 19       | EXHAUST HOOD (OVER)  | M.C.F. |     | 1/3         | 110 V.   | 1    |      |                                      |         | 70       | TWIN-POST HYDRAULIC LIFT, HD 24,000 LB. CAPACITY            | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 20       | BATTERY CHARGER 6 OR 12 V. SELENIUM TYPE-BATTERY TESTER 6 & 12 VOLT  | *      |     | 2.2         | 220 V.   |      |      |                                      |         | 71       | TWIN-POST HYDRAULIC LIFT, LD 11,000 LB. CAPACITY            | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 21       | TIRE VULCANIZER H.D.-VULCANIZING MOLDS   | *      |     |             |  |      |      |                                      |         | 72       | 10 TON OVHD. MONO-RAIL                                      | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 22       | PASS WINDOW-4'-0" WIDE W/COUNTER B 'B' LABEL ROLL DOWN SHUTTER (W/FUSIBLE LINK)  | M.C.F. |     |             |  |      |      |                                      |         | 73       | 1 TON OVHD. MONO-RAIL                                       | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 23       | LUBE DISPENSING EQUIPMENT, W/ACCESSORIES (COUPLERS, VALVES REGULATORS, ETC.)   | M.C.F. |     |             |  |      |      |                                      |         | 74       | 5 TON OVHD. MONO-RAIL                                       | M.C.F. |     |             |                    |                 |                                   |                             |         |
| 24       | AIR PUMPS, 400 LB. DRUMS FOR OIL (CHASSIS, GEAR, MOTOR OIL, TRANSMISSION FLUID, HYDRAULIC FLUID) AS REQUIRED IN 14A, 14B   | M.C.F. |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 25       | 14" W. SHELVING W/ADJ. STANDARDS   | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 26       | 12" W. SHELVING W/ADJ. STANDARDS   | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 27       | ACD STORAGE RACK 24" x 24"   | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 28       | DRILL STAND 1/2" TO 1", SIZE 60  | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 29       | GRINDER BENCH 7"   | *      |     | 3/4         | 220 V  | 3    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 30       | GRINDER PEDESTAL 10"   | *      |     | 1           | 220 V  | 3    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 31       | HYDRAULIC PRESS 80 & 60 TON  | *      |     |             |  |      |      | SIZE & TYPE TO BE DETERMINED LOCALLY |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 32       | HYDRAULIC PRESS 10 TON   | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 33       | GENERATOR REGULATOR TIMING TESTER  | *      |     |             | 220 V.   |      |      | ELEC. AS REQUIRED BY EQUIPMENT       |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 34       | OUTLETS FOR PORTABLE ARC WELDER  | M.C.F. |     |             | 220 V.   |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 35       | CLEANING TANK (PARTS) 36" x 22" x 34" (PORTABLE)   | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 36       | BRAKE SHOE GRINDER   | *      |     | 1/2         | 220 V.   | 3    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 37       | BRAKE SHOE RIVETER   | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 38       | POWER HACK SAW   | *      |     | 1/4         | 110 V.   | 1    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 39       | BAND SAW   | *      |     | 1/4         | 110 V.   | 1    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 40       | POWER METAL SHEARS   | *      |     | 1/3         | 110 V.   | 1    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 41       | POWER METAL BRAKE  | *      |     | 1/3         | 110 V.   | 1    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 42       | ANVIL  | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 43       | FORGE (PORTABLE)   | *      |     |             |  |      |      | VENTILATION UNDER                    | M.C.F.  |          |   |        |     |             |                    |                 |                                   |                             |         |
| 44       | LOAD BANK TESTER   | *      | 60  |             | 220 V.   | 3    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 45       | 300 GAL. TEST TANK FOR OUTBOARD MOTORS (PORTABLE)  | *      |     |             |  |      |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 46       | BRAKE DRUM LATH H.D. 24" DIAM. 450"  | M.C.F. |     | 1/3         | 110 V.   | 1    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 47       | LATH-METAL   | *      |     | 1/4         | 110 V.   | 1    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 48       | DRILL PRESS 3/4" PEDESTAL MOUNTED  | *      |     | 1/2         | 220 V.   | 3    |      |                                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 49       | AIR COMPRESSOR 100 P.S.I.  | M.C.F. |     | 1/2         | 220 V  | 3    |      | BUILDING SYSTEM                      |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 50       | WELDING TABLE (REFRACTORY TYPE) 36" x 36" x 32" HIGH   | *      |     |             |  |      |      | EXHAUST HOOD OVER - BY M.C.F.        |         |          |   |        |     |             |                    |                 |                                   |                             |         |
| 51       | WELDING TABLE, STEEL 54" x 36" x 30"   | *      |     |             |  |      |      | EXHAUST HOOD OVER - BY M.C.F.        |         |          |   |        |     |             |                    |                 |                                   |                             |         |

**LEGEND**  
M.C.F. - MILITARY CONSTRUCTION FUND  
\* - MARINE CORPS FUND  
H.D. - HEAVY DUTY  
C.W. - COLD WATER  
OX. - OXYGEN  
ACET. - ACETYLENE  
L.D. - LIGHT DUTY  
OVHD. - OVERHEAD

ELECTRICAL LOADS IN SCHEDULE ABOVE ARE APPROXIMATE & ARE INTENDED FOR ESTIMATING PURPOSES ONLY. ACTUAL LOADS WILL BE DETERMINED BY EQUIP. PURCHASED &/OR AVAILABLE. ELECTRICAL LOADS HAVE BEEN OMITTED FOR EQUIP. WITH WIDE VARIATION IN LOAD REQUIREMENTS.

*44 BN*  
*36,260 SF*

|  |                |  |                         |
|--|----------------|--|-------------------------|
| LITTLE, BISSETT, CARLISLE & WOLFE<br>ARCHITECTS / ENGINEERS / PLUMBERS<br>1111 15th St. N.E. WASHINGTON, D.C. 20002                |                | DEPARTMENT OF THE NAVY<br>NAVAL FACILITIES ENGINEERING COMMAND<br>WASHINGTON, D.C. |                         |
| DESIGN - W.H. LITTLE<br>DRAWN - D.R. CARLISLE<br>CHECKED - W.H. LITTLE   | DATE - 9/2/70  | SCALE - AS NOTED   | BY - W.H. Little        |
| DEFINITIVE DRAWING<br>SHOP EQUIPMENT SCHEDULE for<br>ORDNANCE B. COMBAT/AUTOMOTIVE/TRACK<br>FIELD MAINTENANCE SHOPS<br>U. S. M. C. |                | NAVYAC DRAWING NO.<br>12 94451   | DATE<br>9/2/70          |
| APPROVED<br>OFFICER IN CHARGE<br>FOR COMBANDOR NAVYAC  | DATE<br>9/2/70 | SIZE<br>F  | CODE IDENT NO.<br>80091 |
| USE DIRECTED AT MARINE CORPS ACTIVITIES<br><i>W.C. O'Keefe</i>   |                | CONTROL CODE NO.   | UNIT                    |

12

111

1

2

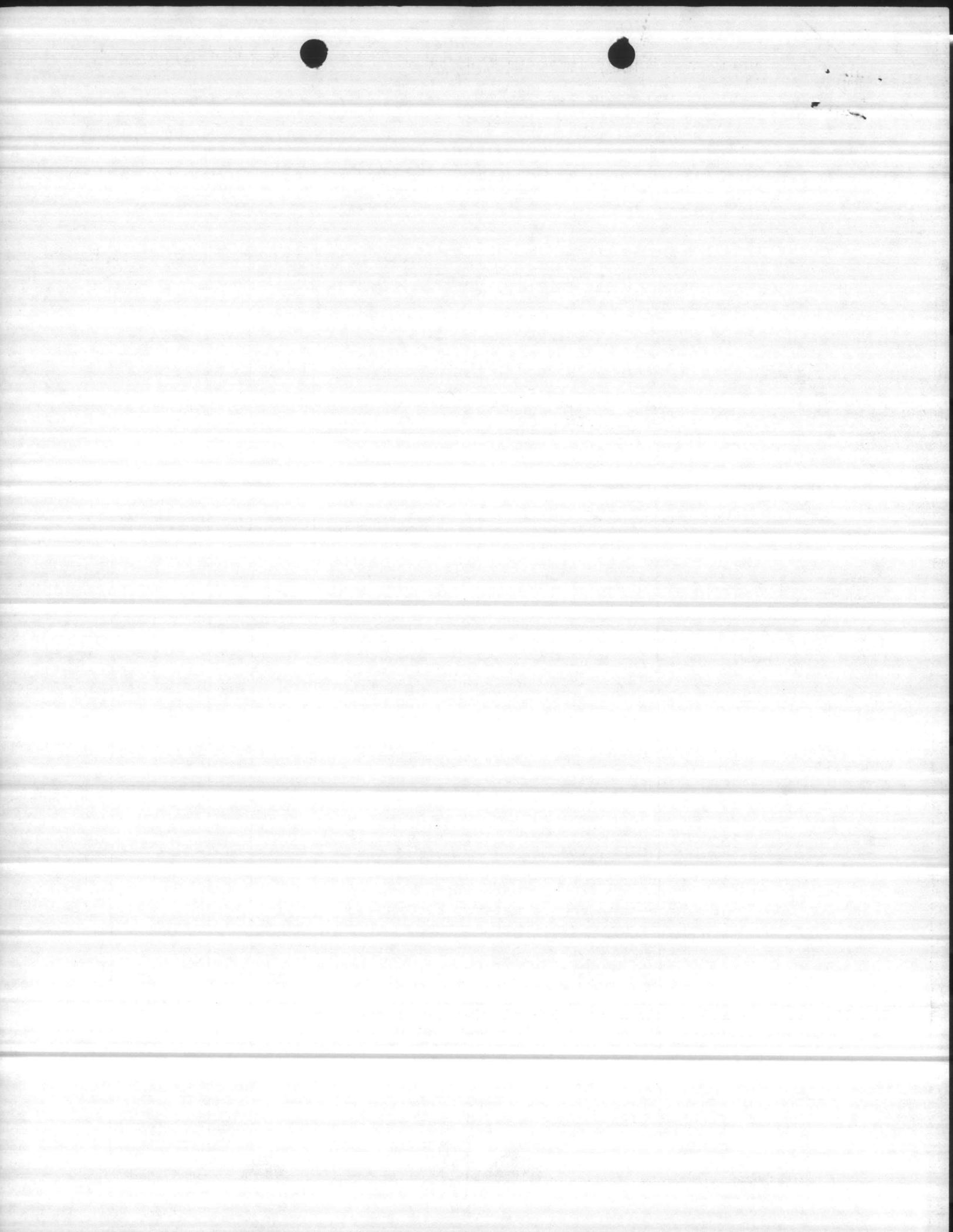
3

4

5

6





LATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)  
 ANT DIV NORVA 4-11010/6 (Rev. 11/81)

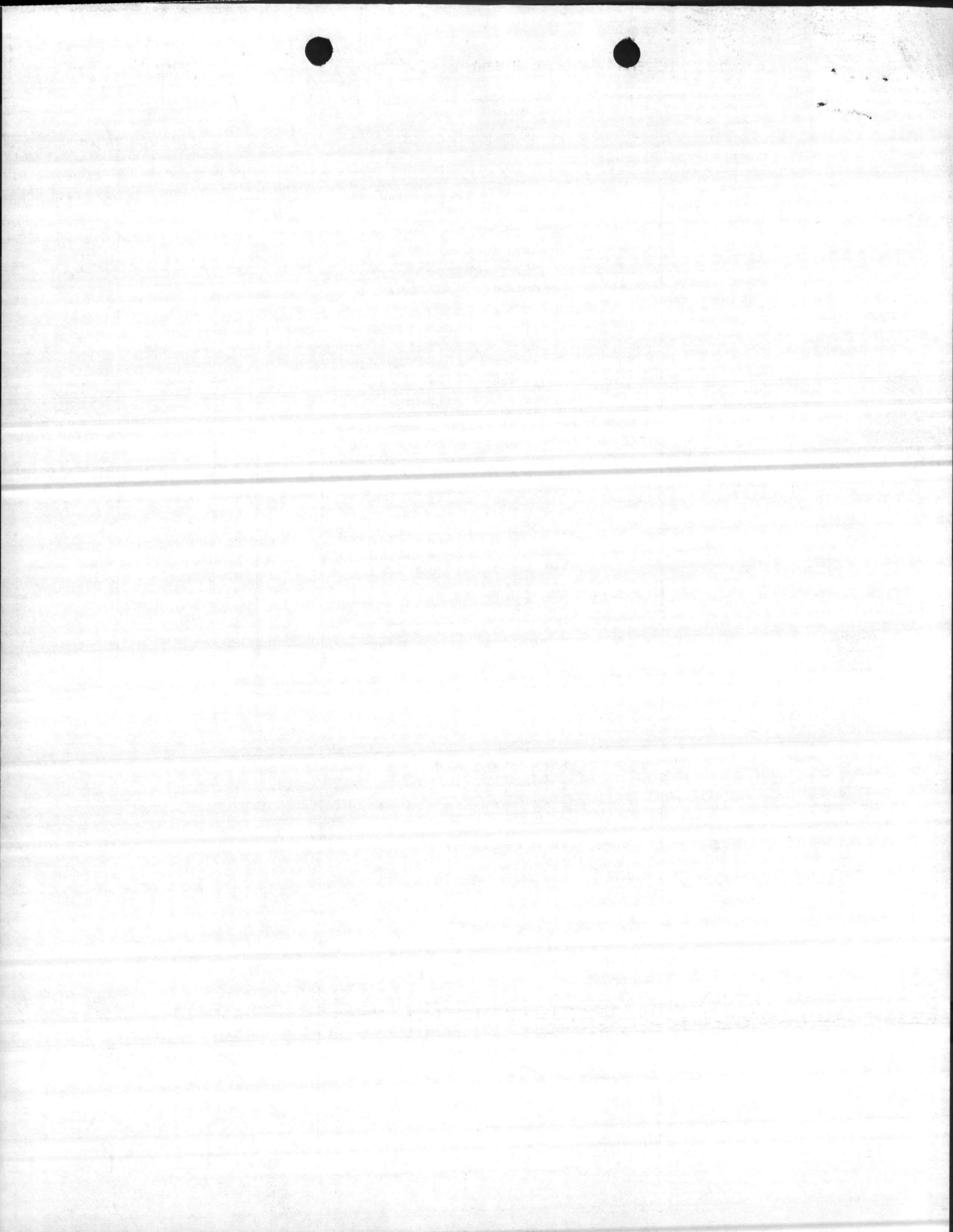
DATE

1. ACTIVITY (Name and Location)  
 MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PROJECT TITLE  
 COMBAT VEHICLE MAINTENANCE SHOP

P. NO. P-240

| COG. SYMBOL AND<br>FED. STOCK NO. OR<br>OTHER SOURCE | ITEM/EQUIPMENT DESCRIPTION   | QUAN-<br>TITY | UNIT<br>OF<br>ISSUE | UNIT<br>PRICE | TOTAL<br>COST |
|--|--|---------------|---------------------|---------------|---------------|
|  | *Counter, dispatcher's   |               | EA                  |               |               |
|  | *Lube dispensing equipment<br>w/access (couplers, valves,<br>regulators, etc.)                         |               | EA                  |               |               |
|  | *Air pumps, 400 lb drums for oil<br>(chassis, gear, motor oil, trans<br>and hydraulic fluid, as req'd. |               | EA                  |               |               |
|  | *Twin post pneumatic lifts, one<br>HD, 24,000 lb cap., 150 PSI<br>comp air                             |               | EA                  |               |               |
|  | *Air compressor, 150 PSI (2-stage,<br>32 CFM), 3-phase, 3-wire, 220V<br>15 HP                          |               | EA                  |               |               |
|  | *Twin post pneumatic lift, LD,<br>11,000 lb cap., 150 PSI comp air                                     |               | EA                  |               |               |
|  | *1-Ton overhead monorail, 1-1/4 HP,<br>220V, 3-phase, 60 cycle, 120V<br>power to controls and switches |               | EA                  |               |               |
|  | *Outlets for portable arc welder<br>(grounded)   |               |                     |               |               |
|  | *Equipment with associated installation cost.  |               |                     |               |               |
| <b>2. EXPENSE ITEMS:</b>                             |  |               |                     |               |               |
| GSA 7110-00-149-1630                                 | Desk, flat top, dbl ped  |               |                     |               |               |
| GSA 7110-00-149-1628                                 | Desk, flat top, single ped   |               |                     |               |               |
| GSA 7110-00-082-6229                                 | Chair, rotary, tilting seat and<br>back with arms  |               |                     |               |               |
| GSA 7110-00-685-5534                                 | Stand, office machine, 2 drop<br>leaves  |               |                     |               |               |
| GSA 7125-00-764-6129                                 | Cabinet, storage, dbl door   |               |                     |               |               |
| GSA 7110-00-112-0045                                 | Bookcase, base   |               |                     |               |               |
| GSA 7110-00-831-7430                                 | Bookcase, section, w/o doors   |               |                     |               |               |
| GSA 7110-00-471-4039                                 | Bookcase, top  |               |                     |               |               |
| GSA 7195-00-004-6716                                 | Rack, wearing apparel, 6 mtl<br>hangers  |               |                     |               |               |
| GSA 7520-00-285-5416                                 | Basket, waste, 24 gauge steel  |               |                     |               |               |
| GSA 7240-00-634-0133                                 | Trashcan, 15-gal plastic, push-<br>type lid, Rubbermaid, #8160   |               |                     |               |               |
| GSA 7110-00-143-0821                                 | Table, general purpose   |               |                     |               |               |
| GSA 7110-00-497-2012                                 | Cabinet, filing, 5 dwr, legal<br>size  |               |                     |               |               |



1. ACTIVITY (Name and Location)

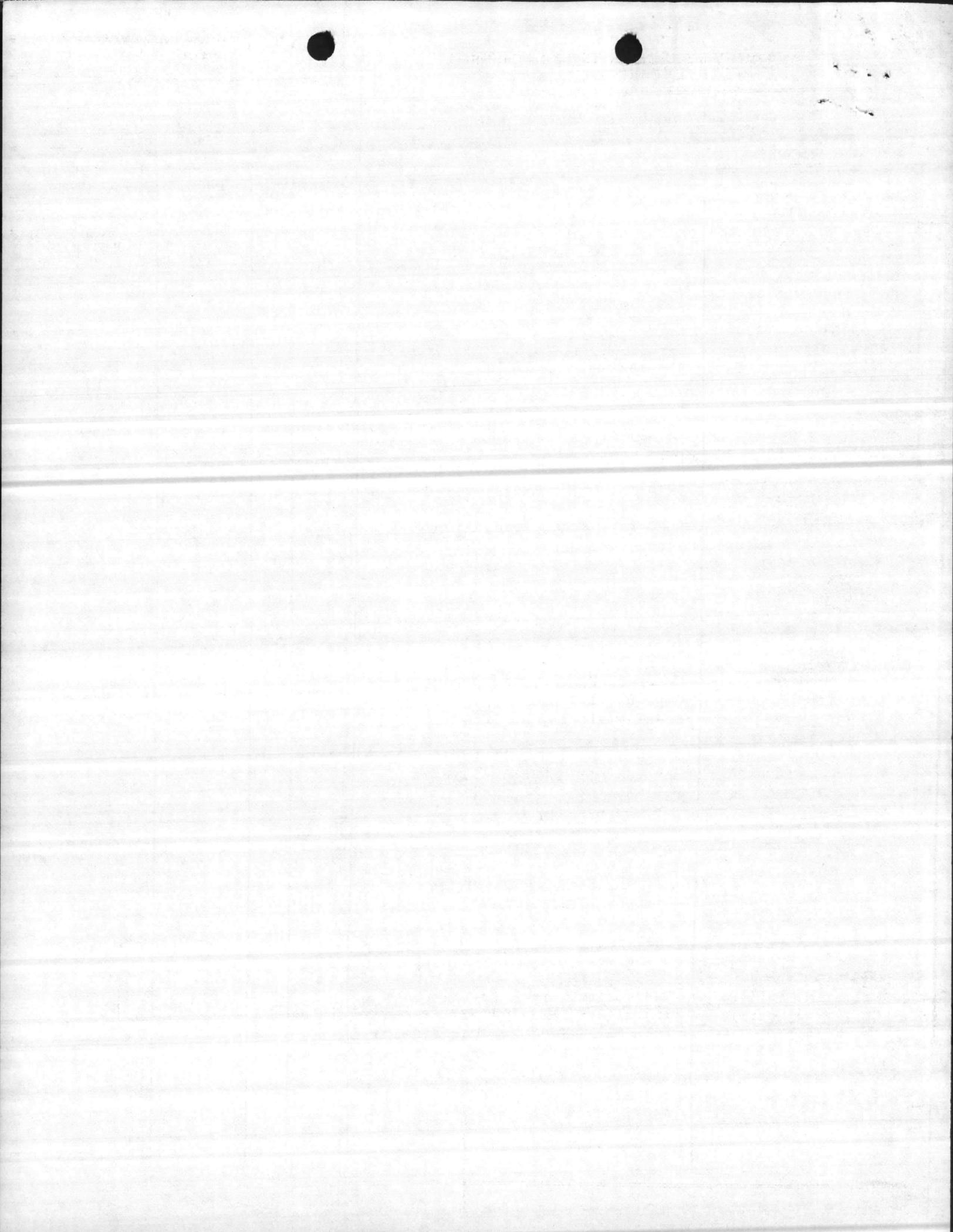
MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

P. NO.

| COG. SYMBOL AND<br>FED. STOCK NO. OR<br>OTHER SOURCE   | ITEM/EQUIPMENT DESCRIPTION   | QUAN-<br>TITY | UNIT<br>OF<br>ISSUE | UNIT<br>PRICE | TOTAL<br>COST |
|--|--|---------------|---------------------|---------------|---------------|
| 2. EXPENSE ITEMS (cont d...)   |  |               |                     |               |               |
| OP McMaster-Carr Supply<br>Co., Post Office Box<br>440, New Brunswick,<br>NJ 08903, Cat #90<br>(201)329-3200 | Workbench, extra-heavy duty steel<br>72"x30" Model #4878T43, pg 148                                    |               |                     |               |               |
| "  | Cabinet, tool, portable, Model<br>#4661T24, pg 155   |               |                     |               |               |
| "  | Stand, parts, stationary floor,<br>40 bins, Model #4655T56, pg 137                                     |               |                     |               |               |
| "  | Shelving, steel, ledge-type<br>sectional, Model # 5097T38 pg 127<br>(starting unit for below add-on)   |               |                     |               |               |
| "  | Shelving, steel, ledge-type<br>sectional, Model #5097T48, pg 127<br>(add on unit for above)            |               |                     |               |               |
| "  | Charger, battery, multiple, 12<br>Amps DC, 115/230 AC Input volts<br>Model #7318K12, pg 1284           |               |                     |               |               |
| "  | Jumpers, battery, 16"L #14 rubber<br>covered wire, Model #7318K14,<br>pg 1284                          |               |                     |               |               |
| "  | Welding kit, portable, Model #<br>7843A11 pg 1933  |               |                     |               |               |
| "  | Cart, welding, 2-wheel, Model #<br>2561T11 pg 276  |               |                     |               |               |
| "  | Shelving, wide span, 96"L x 87"H<br>5 shelves, Model #5051T14 pg 127                                   |               |                     |               |               |
| OP Walter M. Ballard<br>Co., 7705 Georgia Ave<br>NW, Washington, DC<br>(202)829-1181                         | Rack, tire, truck, 3-tier 96"W x<br>16"D x 144"H, Model #7527 (from<br>Lyon Metal Products Cat #100-D) |               |                     |               |               |
|  | Assembly for above truck tire<br>rack, 144"H   |               |                     |               |               |



LATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)  
 DIVISION NORVA 4-11010/6 (Rev. 11/81)

DATE

ACTIVITY (Date and Location)

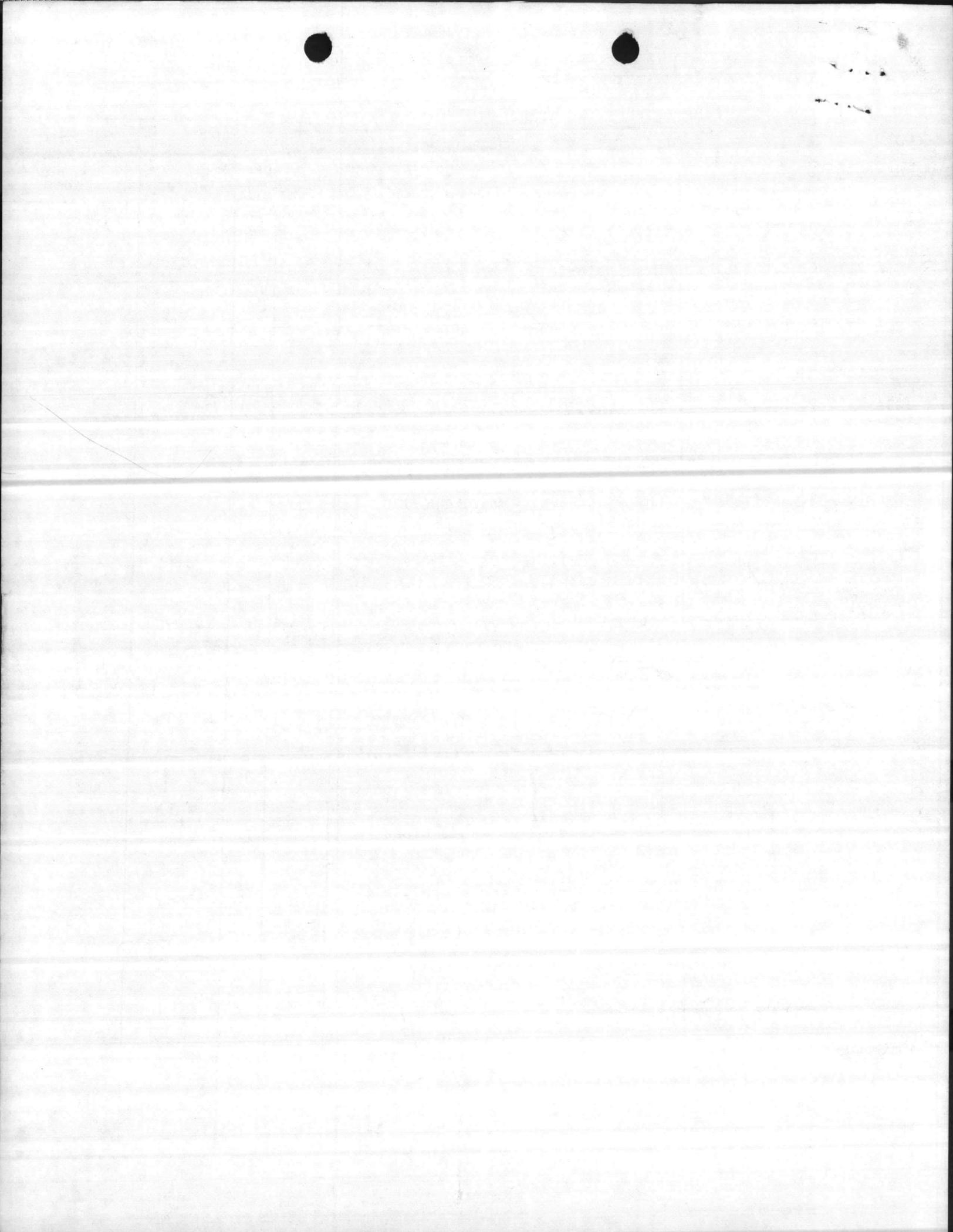
MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

P. NO.

| COG. SYMBOL AND<br>FED. STOCK NO. OR<br>OTHER SOURCE | ITEM/EQUIPMENT DESCRIPTION  | QUAN-<br>TITY | UNIT<br>OF<br>ISSUE | UNIT<br>PRICE | TOTAL<br>COST |
|--|---|---------------|---------------------|---------------|---------------|
| 2. EXPENSE ITEMS: (cont'd...)                        |   |               |                     |               |               |
| GSA 7110-01-015-1361                                 | Desk, single ped; for below attachment  |               |                     |               |               |
| GSA 7110-01-016-6580                                 | Desk Attachment for above desk  |               |                     |               |               |
| GSA 7110-00-782-3503                                 | Chair, straight, w/o arms   |               |                     |               |               |
| GSA 7195-00-242-3503                                 | Costumer, wearing apparel, 4 dbl hooks  |               |                     |               |               |
| OP   | Board, bulletin, 48"x72", cork  |               |                     |               |               |
| <del>OP Heywood Wakefield</del>                      | Chair, student, Model #HC7730 PABS-PP   |               |                     |               |               |
| OP-Carolina Office Sup.                              | Easel; portable, 29"x40" expandable Model #T5-80E   |               |                     |               |               |
| NSN 6230-00-682-3423                                 | Lamp, desk  |               |                     |               |               |
| OP   | Draperies and Hardware  |               |                     |               |               |
| Contract GS-08F-37132<br>NSN 4210-00-965-1111        | Extinguisher, fire, dry chemical class B/C, CO <sub>2</sub> gas cartridge operated, 20 lb capacity; Ansul brand |               |                     |               |               |
| NSN 4210-00-202-7858                                 | Extinguisher, fire, 15 lb. cap. CO <sub>2</sub> cartridge operated, class B/C                                   |               |                     |               |               |
| NSN 4210-00-720-1815                                 | Extinguisher, fire, 2½ gal. air-expelled water, class A, stainless steel (S9C)                                  |               |                     |               |               |



II R 7



|     |      |
|-----|------|
| 04  | 207A |
| 408 |      |
|     |      |
|     |      |
|     |      |

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

TELEPHONE NO.

444-9670

IN REPLY REFER TO:

09A21B3

11010

12 AUG 1985

P-678

From: Commander, Atlantic Division, Naval Facilities Engineering Command  
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE,  
CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

Ref: (a) MCB CAMP LEJEUNE ltr 11000 PWO of 1 Jul 85

- Encls:
- (1) Projected COMNAVFACENGCOM Cost Index dated 1 Oct 84
  - (2) Copy of Award Cost Data for CES Historical
  - (3) Draft copy of Guide for Preparation of 1391
  - (4) Draft copy of DM-10
  - (5) Copy of CES Unit Price Guide (FY 87)

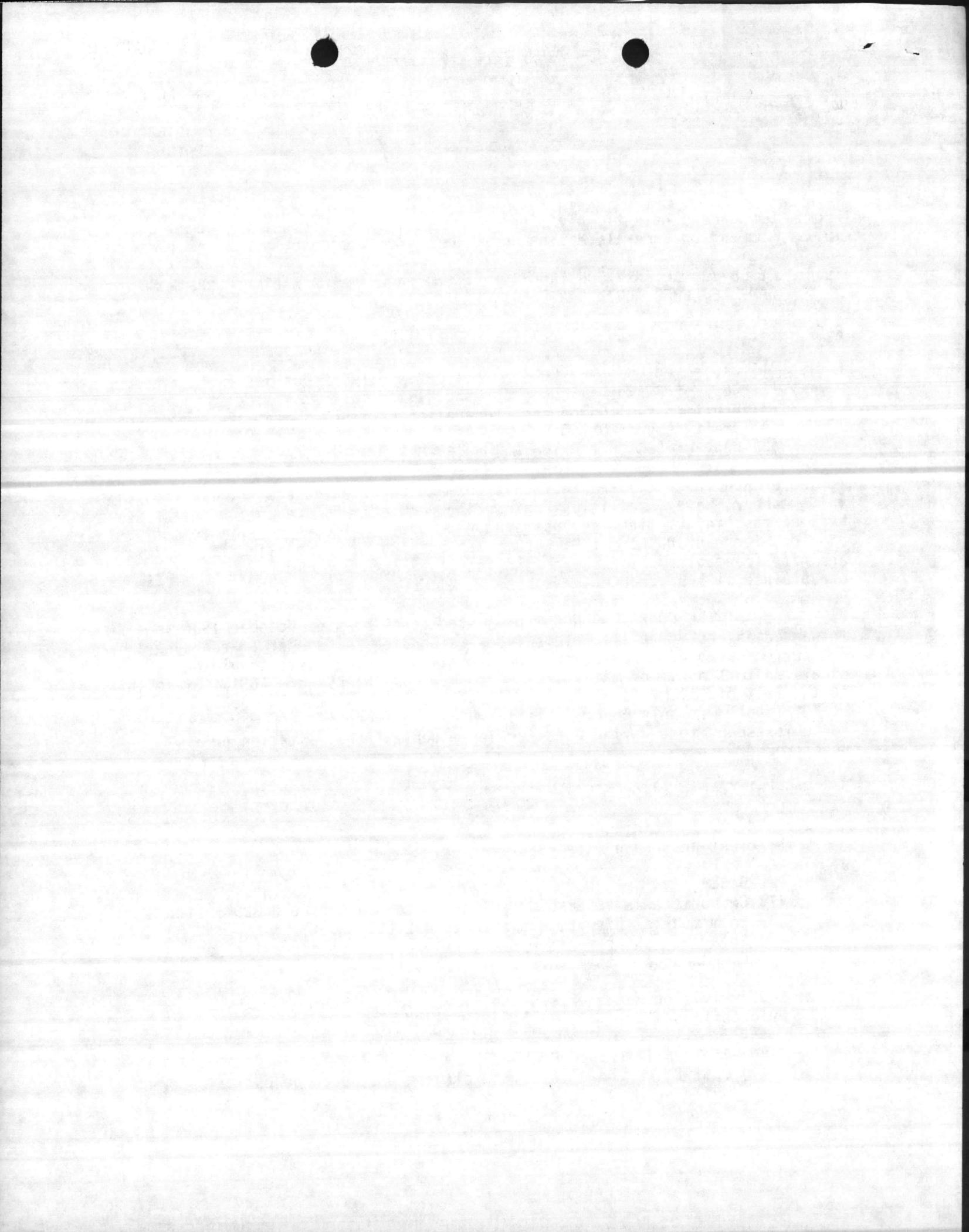
1. Reference (a) requested that this Command certify the cost of all projects to Commander, Naval Facilities Engineering Command. To accomplish this, back-up cost information is considered necessary. A back-up estimate must be provided for each DD Form 1391. Lump-sum entries for supporting facilities are not acceptable. High supporting facility costs with lump-sum entries unexplained will be reduced.

2. A copy of the COMNAVFACENGCOM projected cost index of October 1984 is forwarded as enclosure (1). This index is updated in October of each year. The current area cost factor for your location is 0.86 Costs should be escalated to 1 April of the fiscal year shown on the DD Form 1391. State this to the left of "item" in block nine (cost estimates.) A contingency allowance of 10% is allowed only on projects in which the scope of work may be expanded for unforeseen items during construction, such as rehabilitation or underground.

3. General comments for MCB CAMP LEJEUNE FY 88 MCON program follows:

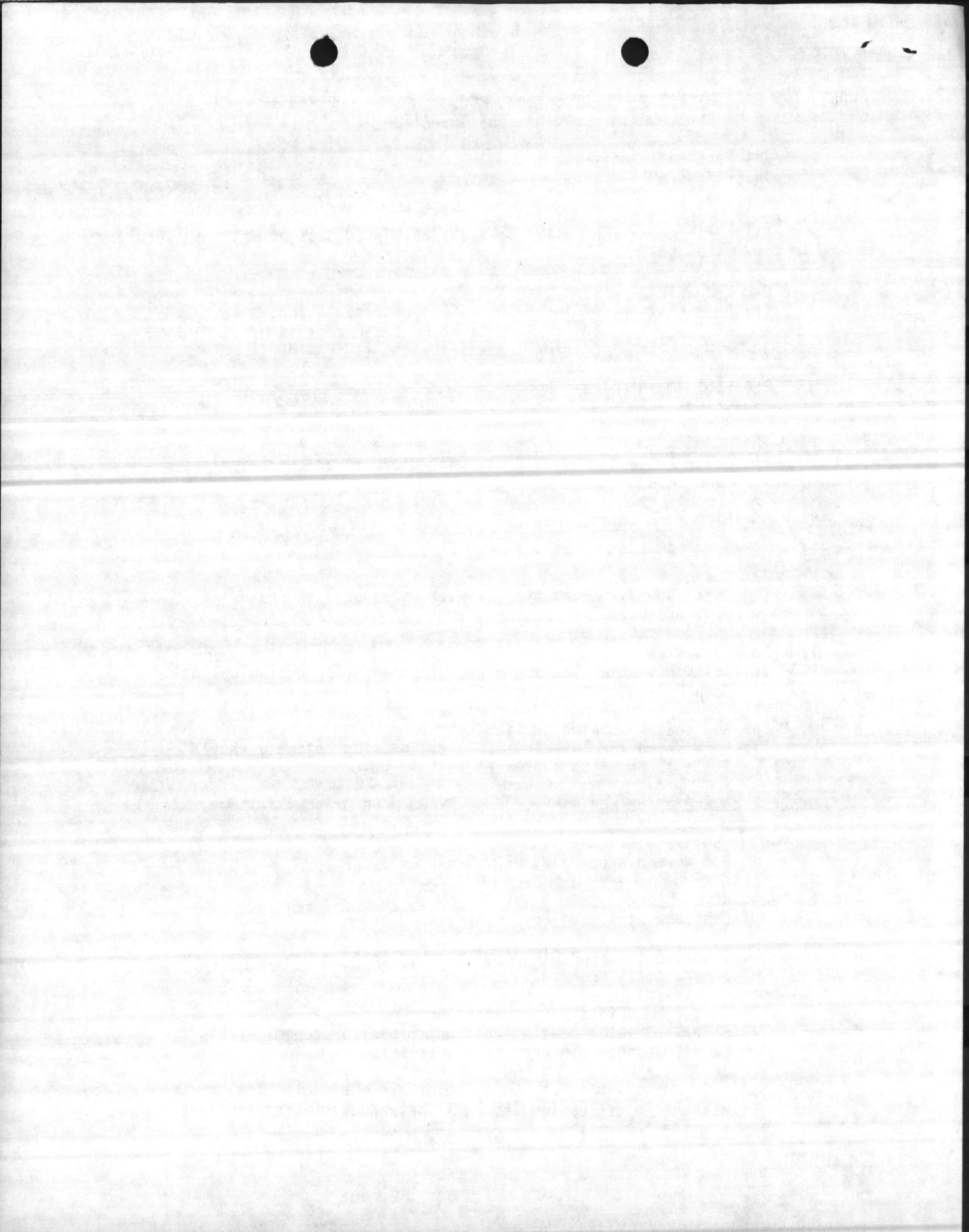
- a. P-846 MOUT Training Complex  
No questions, have made prior review.
- b. P-626 BEQ
  - (1) Current LANTNAVFACENGCOM policy is to budget BEQ @ 820 sq.ft./2 room module this adjusts area to 492,000 sq. ft.
  - (2) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.
- c. P-057 Division Headquarters was FY 87  
NO questions.
- d. P-803 Field Maintenance Complex
  - (1) Unit Price Shown is beyond all reason. Back up estimate for building must explain why cost is so high.

RECEIVED  
11 AUG 1985



Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE,  
CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

- e. P-841 Mess Hall Addition  
No questions.
  - f. P-678 Combat Vehicle Maintenance Shop  
(1) Unit costs for buildings are very high. Back up estimate should show why.
  - g. P-810 Mechanics Training Bldg Inc #3  
(1) Unit costs FT 87 for P-809 1391 certified 15 Jun, were \$57/sq. ft. Bldg costs will be adjusted to this pricing level unless additional justification is provided.
  - h. P-256 Field Maintenance Shop  
No questions.
  - i. P-124 BOQ  
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.
  - j. P-851 Electrical Dist. Imp.  
No questions.
  - k. P-824 Chapel  
(1) Cost shown is excessive, it will be reduced to cost similar to past projects.
  - l. P-065 Gymnasium  
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.
  - m. P-842 Regional Automated Service Center  
(1) Cost shown for building are high, back up estimate should state scope of unusual features.
4. General comments for MCB CAMP LEJEUNE FY 89 MCON program follows:
- a. P-529 BEQ  
See comments on FY 88 BEQ, P-626
  - b. P-849 BOQ  
See comments on FY 88 BOQ, P-124.
  - c. P-804 Combat/Auto/Track Field Maintenance Shop  
See comments on P-803.
  - d. P-679 Elec/Comm. Field Maintenance Shop  
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.  
  
(2) Unit costs shown for the building are extremely high, without justification they will be reduced to those paid for similar facilities.



12 AUG 1985

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE,  
CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

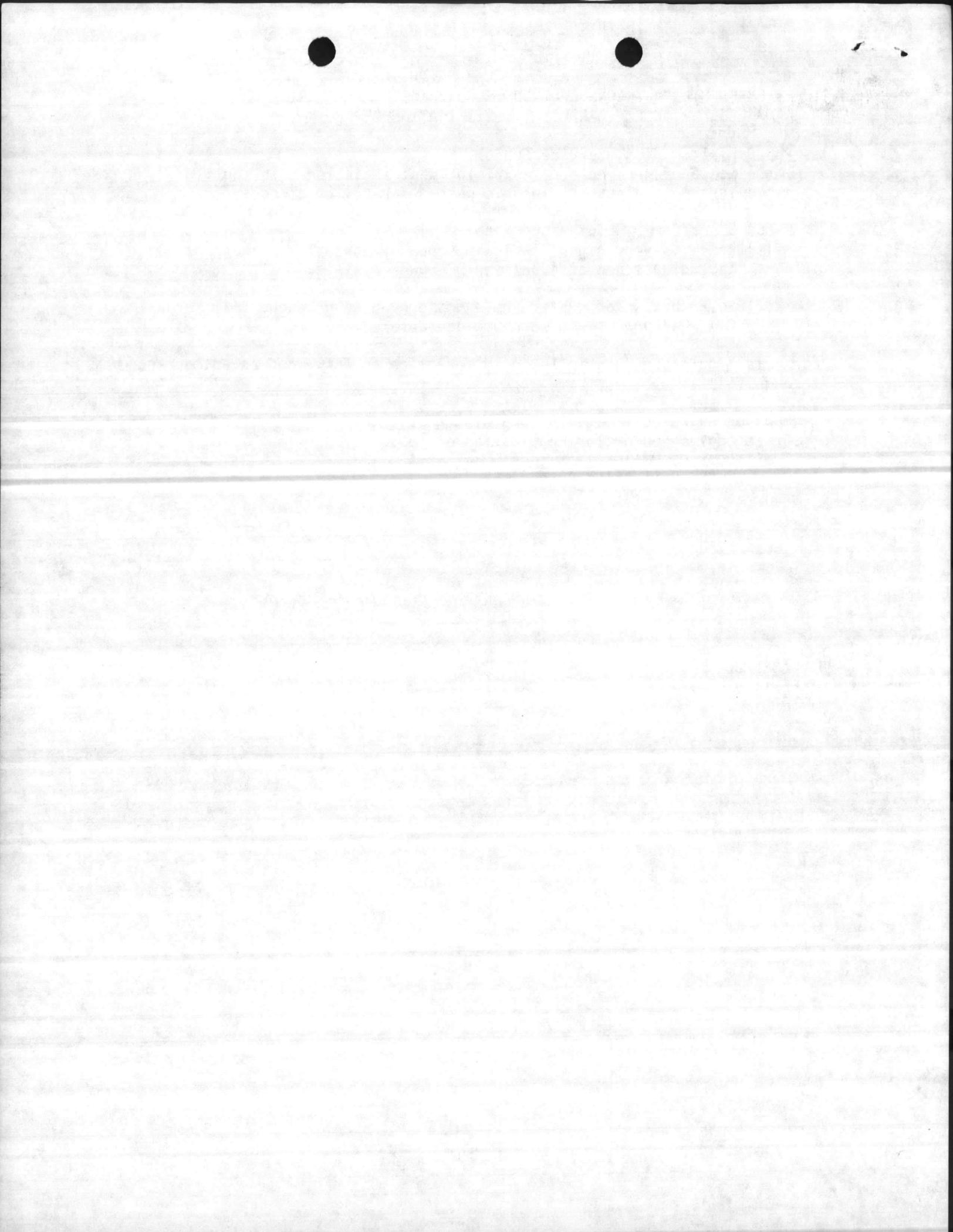
- e. P-828 Field Medical Service School
  - (1) Scope of work does not explain what is included in applied instruction space. This is needed for review of cost.
- f. P-564 Elect/Comm. Maintenance Shop
  - (1) Price is very high. Indicate scope of unusual features including scope of 400HZ and DC power systems.
  - (2) Solar hot water systems have not proven to be economical in Camp Lejeune. This work will be deleted.

5. For future guidance, the following information is forwarded as enclosures (2) through (5):

- Copy of Award Cost Data for CES Historical.
- Draft copy of Guide for Preparation of 1391.
- Draft copy of DM-10.
- Copy of CES Unit Price Guide (FY 87.)

  
D. H. FIELDS  
By direction

Copy to: (w/o encls.)  
COMNAVFACENGCOM  
CMC (LFF-1)





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

IN REPLY REFER TO:  
11000  
PWO

From: Commanding General, Marine Corps Base, Camp Lejeune  
To: Commandant of the Marine Corps (Code LFF-1)

Subj: DD-1391's FOR 1988 MILITARY CONSTRUCTION PROGRAM

Ref: (a) CMC ltr 11000 LFF-1 of 9 Oct 85

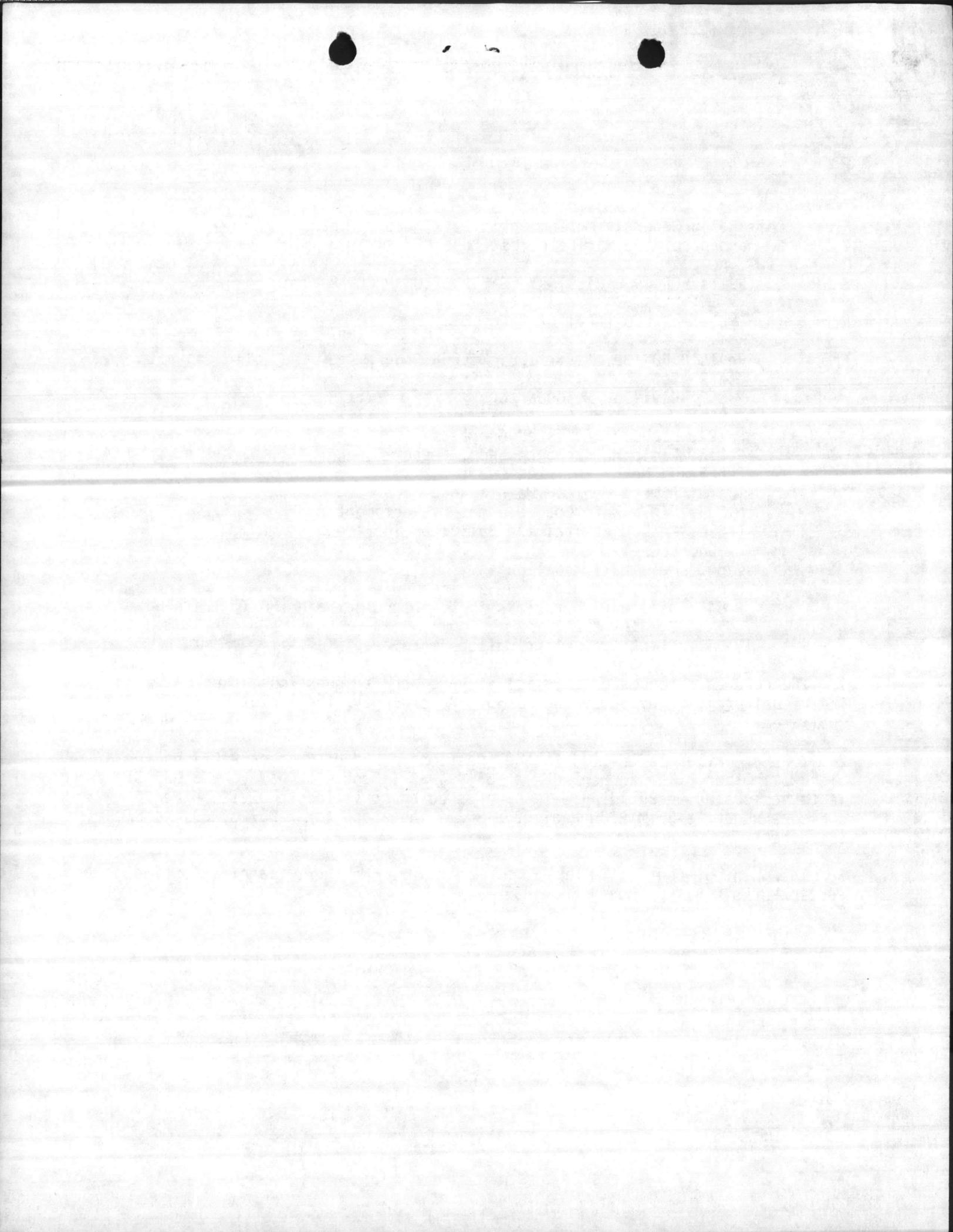
Encl: (1) Revised DD-1391's for 1988 MILCON Program for the following all  
dtd 28 Oct 85:  
P-057, Division Headquarters  
P-065, Gymnasium  
P-124, Bachelor Enlisted Quarters  
P-256, Field Maintenance Shop, French Creek  
P-626, Bachelor Enlisted Quarters  
P-678, Combat Vehicle Maintenance Shop  
P-803, Field Maintenance Complex, Increment 2  
P-810, Mechanics Training Building, Increment 3  
P-824, Chapel  
P-841, Mess Hall Addition  
P-842, Regional Automated Service Center  
P-846, Military Operations in Urbanized Terrain (MOUT) Training  
Complex  
P-851, Electrical Distribution Improvements

1. The reference requested this activity respond to questions asked on individual projects by 1 November 1985. Accordingly, the enclosure is submitted.
2. Your attention is invited to the questions asked of Project P-057 under block 11, other. The current BFR of 63,994 SF is correct, however, 3,350 SF is to be located in Building H-1 which is being converted to Division Headquarters under FY-85 MILCON Project P-802. The scope for P-057 of 60,444 SF is correct.
3. The point of contact is Mr. E. G. Jones, Jr., Manager, Planning Section, Public Works Division on AV 484-1833.

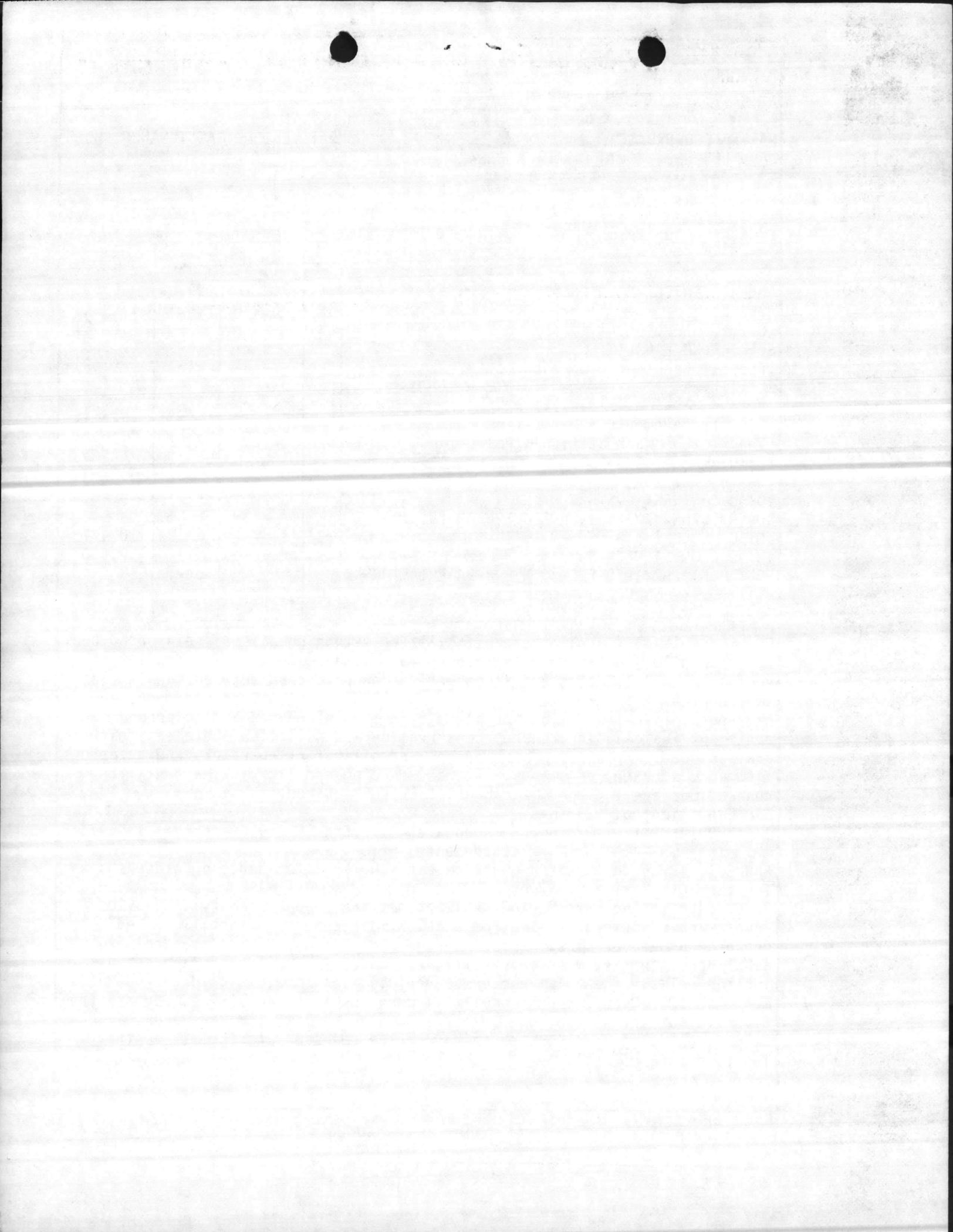
R. A. TIEBOUT  
By direction

Blind copy to:  
FAC

Author: Gene Jones  
Typist: Mary Thompson  
29 Oct 85, 1833



|   |  |  |                            |  |                                   |  |
|---|--|--|----------------------------|--|-----------------------------------|--|
| 1. COMPONENT<br>NAVY  |  | FY 19 <sup>88</sup> MILITARY CONSTRUCTION PROJECT DATA |                            |  | 2. DATE<br>28 Oct 85              |  |
| 3. INSTALLATION AND LOCATION<br>MARINE CORPS BASE<br>CAMP LEJEUNE, NORTH CAROLINA 28542   |  |  |                            | 4. PROJECT TITLE<br>COMBAT VEHICLE MAINTENANCE SHOPS |                                   |  |
| 5. PROGRAM ELEMENT  |  | 6. CATEGORY CODE<br>214-51                             | 7. PROJECT NUMBER<br>P-678 |  | 8. PROJECT COST (\$000)<br>10,500 |  |
| ESCALATED TO APRIL 1988   |  |  |                            | 9. COST ESTIMATES                                    |                                   |  |
| ITEM  |  | U/M  | QUANTITY                   | UNIT COST  | COST (\$000)                      |  |
| COMBAT VEHICLE MAINTENANCE SHOPS  |  | SF   | 76,210                     | 99.09  | 7,552                             |  |
| Building  |  | SF   | 76,210                     | 95.18  | (7,254)                           |  |
| Built-in Equipment  |  | LS   | -                          | -  | (298)                             |  |
| SUPPORTING FACILITIES   |  |  |                            |  | 1,906                             |  |
| Special Construction Features   |  |  |                            |  | (105)                             |  |
| Utilities   |  | LS   | -                          | -  | (486)                             |  |
| Roads, Parking, Sidewalks   |  | LS   | -                          | -  | (750)                             |  |
| Site Improvements & Demolition  |  | LS   | -                          | -  | (291)                             |  |
| Vehicle/Gun Wash Station w/Pollution Control  |  | SY   | 3,800                      | 72.18  | (274)                             |  |
| SUBTOTAL  |  |  |                            |  | 9,458                             |  |
| CONTINGENCY (5%)  |  |  |                            |  | 473                               |  |
| TOTAL CONTRACT COST   |  |  |                            |  | 9,931                             |  |
| SUPERVISION, INSPECTION & OVERHEAD (5.5%)   |  |  |                            |  | 546                               |  |
| TOTAL REQUEST   |  |  |                            |  | 10,477                            |  |
| TOTAL REQUEST ROUNDED   |  |  |                            |  | 10,500                            |  |
| EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS  |  |  |                            | NonAdd   |                                   |  |
| 10. DESCRIPTION OF PROPOSED CONSTRUCTION  |  |  |                            |  |                                   |  |
| Construct three (3) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation and a connecting concrete road between the 5th Battalion Areas and the 1st, 2nd and 3d Battalion Areas. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in project. Wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. |  |  |                            |  |                                   |  |
| Air Conditioning: 24 Tons   |  |  |                            |  |                                   |  |
| 11. REQUIREMENT: 402,844 SF Adequate: 177,664 SF Substandard: 145,472 SF<br>Inadequate: 2,800 SF  |  |  |                            |  |                                   |  |
| PROJECT. Provide three adequate combat vehicle maintenance/ordnance shops for the 10th Marine Regiment.   |  |  |                            |  |                                   |  |
| REQUIREMENT. The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The total number of vehicles that are assigned to the Regiment is 258. Over 105 personnel will work in these facilities. Due to the diversity of the 4th Bn, Headquarters Bn and the 1st, 2nd and 3d Battalions' requirements, it is necessary to have three (3) separate facilities that function independently.                                    |  |  |                            |  |                                   |  |



|                      |                                       |                      |
|----------------------|---------------------------------------|----------------------|
| 1. COMPONENT<br>NAVY | 88 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE<br>28 Oct 85 |
|----------------------|---------------------------------------|----------------------|

3. INSTALLATION AND LOCATION  
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

|  |                            |
|--|----------------------------|
| 4. PROJECT TITLE<br>COMBAT VEHICLE MAINTENANCE SHOPS | 5. PROJECT NUMBER<br>P-678 |
|--|----------------------------|

11. REQUIREMENT (Continued)

CURRENT SITUATION: The 10th Marine Regiment is now performing 1st and 2nd echelon maintenance for combat vehicles and artillery in open Gun Park areas and temporary metal buildings. They lack such common maintenance support features as hydraulic lifts, overhead craneways, oil and grease lines, compressed air, oil traps, environmental protection features, proper work benches and adequate lighting. Reorganization and changes in weaponry have created deficiencies along with a new target acquisition battery that has been added to the 10th Marine Regiment.

IMPACT IF NOT PROVIDED: The 2d Marine Division Artillery Regiment's maintenance capability and combat readiness will continue to be impaired. Work will continue to be done in scattered substandard facilities causing prolonged maintenance efforts with the resulting increase in deadlined equipment, adversely affecting combat readiness.

