



DEPARTMENT OF THE NAVY

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

TELEPHONE NO.

(804) 445-2933
IN REPLY REFER TO:

6280
1141WLC
18 SEP 1986

10/5
04/2m
408

Gene E. ...
Larry WBS
Fred ...

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

Subj: MCON PROJECT P-808, APPLIED INSTRUCTION BUILDING CONSTRUCTION AND
OPERATION PERMIT NUMBER 13615

- Ref: (a) Article 21 of Chapter 143, General Statutes of North Carolina as amended
(b) LANTNAVFACENGCOM ltr 6280 1141WLC of 24 Jul 86
(c) MCON Project P-808 Non-Discharge Permit Application (APN 008092) of 29 Jul 86
(d) North Carolina State Department of Natural Resources and Community Development ltr of 4 Sep 86

Encl: (1) Permit Number 13615 - Applied Instruction Building (P-808),
Pump Station/Force Main, Onslow County

1. In accordance with reference (a) and pursuant to references (b) and (c), reference (d) forwarded enclosure (1). Enclosure (1) grants permission for the construction and operation of sanitary sewage pump station, force main, gravity sewer piping and incidental related work for the subject project.
2. It is recommended that Marine Corps Base, Camp Lejeune review enclosure (1) conditions and limitations specified therein. The Activity has the right to an adjudicatory hearing should any parts be found unacceptable. However, such demand must be made in writing to the Director within 30 days upon receipt of this permit, identifying the specific issues to be contended.
3. Questions regarding this matter may be addressed to Mr. Wallace Carter, Code 114, AUTOVON 565-2933.

J. R. Bailey
J. R. BAILEY
By direction

108

108

From the records of the Division, it is noted that the Commission on the Status of Women, which was established in 1946, has been active in promoting the status of women in the United States.

The Commission has held numerous hearings and has issued several reports on the status of women in the United States. It has also been instrumental in the establishment of the National Commission on the Status of Women in 1961.

The National Commission on the Status of Women was established by Executive Order on July 1, 1961, and was headed by Eleanor Roosevelt. Its mandate was to study the status of women in the United States and to report to the President on its findings and recommendations.

The Commission's report, "The Status of Women in the United States," was published in 1963. It was a landmark document that provided a comprehensive overview of the status of women in the United States and identified areas where further action was needed.

The Commission's report was widely praised for its thoroughness and for its clear identification of the problems facing women in the United States. It provided a solid foundation for the development of public policy on the status of women.

The Commission's report was also instrumental in the passage of the Equal Pay Act of 1963 and the Equal Opportunity Act of 1964. These laws were landmark achievements in the fight for gender equality in the United States.

The Commission's report also identified the need for further action to improve the status of women in the United States. It recommended that the government should take steps to eliminate discrimination against women in the workplace and to provide equal opportunities for women in education and in the workforce.

The Commission's report also identified the need for further action to improve the status of women in the United States. It recommended that the government should take steps to eliminate discrimination against women in the workplace and to provide equal opportunities for women in education and in the workforce.

The Commission's report also identified the need for further action to improve the status of women in the United States. It recommended that the government should take steps to eliminate discrimination against women in the workplace and to provide equal opportunities for women in education and in the workforce.

U. S. DEPARTMENT OF JUSTICE
WASHINGTON, D. C.

RTIFICIA



State of North Carolina
 Department of Natural Resources and Community Development
 Division of Environmental Management
 512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
 S. Thomas Rhodes, Secretary

September 4, 1986

R. Paul Wilms
 Director

Mr. J. R. Bailey, P.E. Head
 Environmental Quality Branch
 U. S. Navy
 LANTNAVFACEMGOM
 Norfolk, VA 23511-6287

SUBJECT: Permit No. 13615
 U. S. Navy
 Applied Instruction Building P-808
 Pump Station/Force Main
 Onslow County

Dear Mr. Bailey:

In accordance with your application received July 29, 1986, we are forwarding herewith Permit No. 13615, dated September 4, 1986, to the U. S. Navy for the construction and operation of the subject wastewater collection system extensions.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearing, Post Office Drawer 11666, Raleigh, North Carolina 27604.

If you wish to have the hearing before the Hearing Officer with this Department, you must indicate in the petition that you waive the right to have the contested case conducted by a Hearing Officer in the office of Administrative Hearings, and wish to have the matter conducted in the Department of Natural Resources and Community Development. Unless such demands are made this permit shall be final and binding.

One (1) set of approved plans and specifications is being forwarded to you. If you have any questions or need additional information concerning this matter, please contact Ms. Cyretha Irving, telephone number 919/733-5083, ext. 119.

Sincerely yours,

R. Paul Wilms
 R. Paul Wilms

cc: Onslow County Health Department
 Hoggard-Eure Associates
 Wilmington Regional Office
 Dennis Ramsey

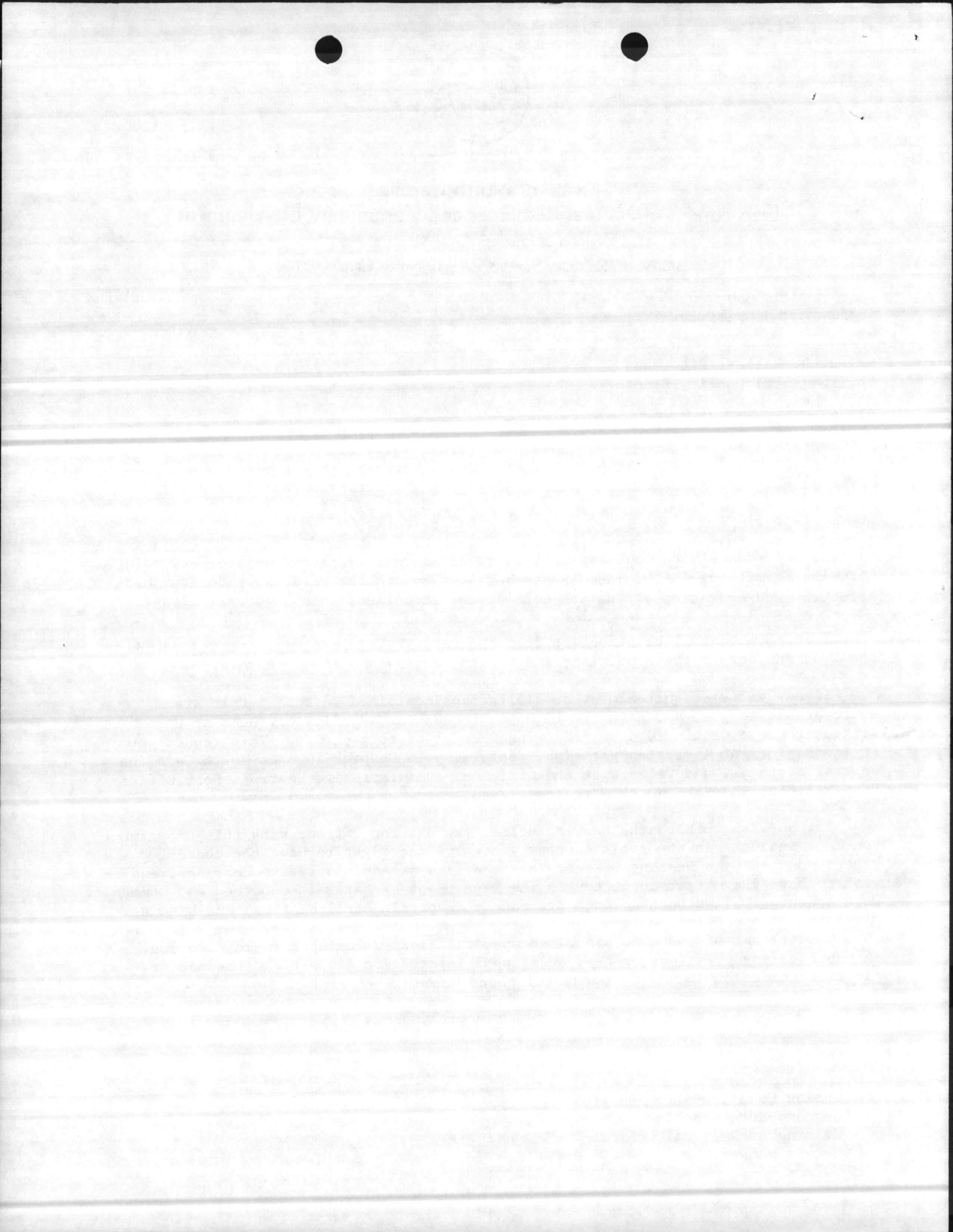
for
 Pollution Prevention Pays

P.O. Box 27687, Raleigh, North Carolina 27611-7687 Telephone 919-733-7015

jk

An Equal Opportunity Affirmative Action Employer

Encl(1)



NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

RALEIGH

P E R M I T

For the Discharge of Sewage, Industrial Wastes, or Other Wastes

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules and Regulations

PERMISSION IS HEREBY GRANTED TO

The U. S. Navy
Onslow County

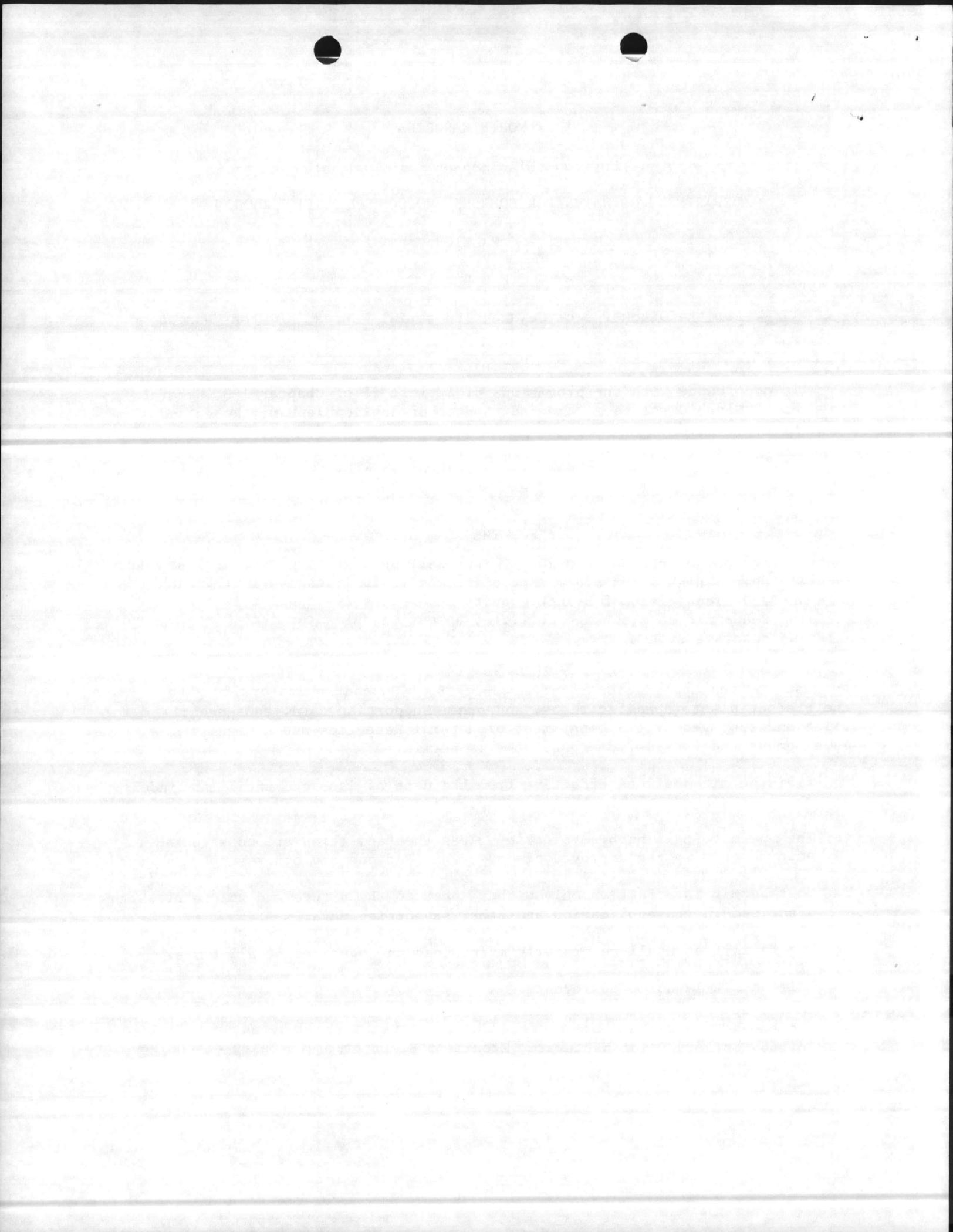
FOR THE

construction and operation of a 200 GPM wet well pump station with dual non-submersible pumps, high water alarm, approximately 1,950 lineal feet of 6-inch force main and 220 lineal feet of 8-inch gravity sewer to serve Applied Instruction Building P-808 and to discharge collected domestic wastewater into Camp Lejeune's existing sewerage system,

pursuant to the application received July 28, 1986 and in conformity with the project plans, specifications, and other supporting data, subsequently filed and approved by the Department of Natural Resources and Community Development and considered a part of this permit.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the following specified conditions and limitations.

1. This permit shall become voidable unless the facilities are constructed in accordance with the approved plans, specifications and other supporting data.
2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
3. The facilities shall be properly maintained and operated at all times.
4. This permit is not transferable.
5. The sewage and wastewater collected by this system shall be adequately treated in the Montford Point Wastewater Treatment Plant prior to being discharged into the receiving stream.



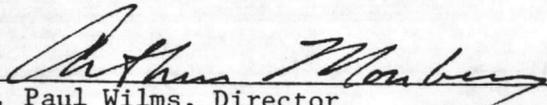
Permit No. 13615

Page -2-

6. Construction of the sewers shall be so scheduled so as not to interrupt service by the existing utilities nor result in an overflow or bypass discharge of wastewater to the surface waters of the State.

Permit issued this the 4th day of September, 1986.

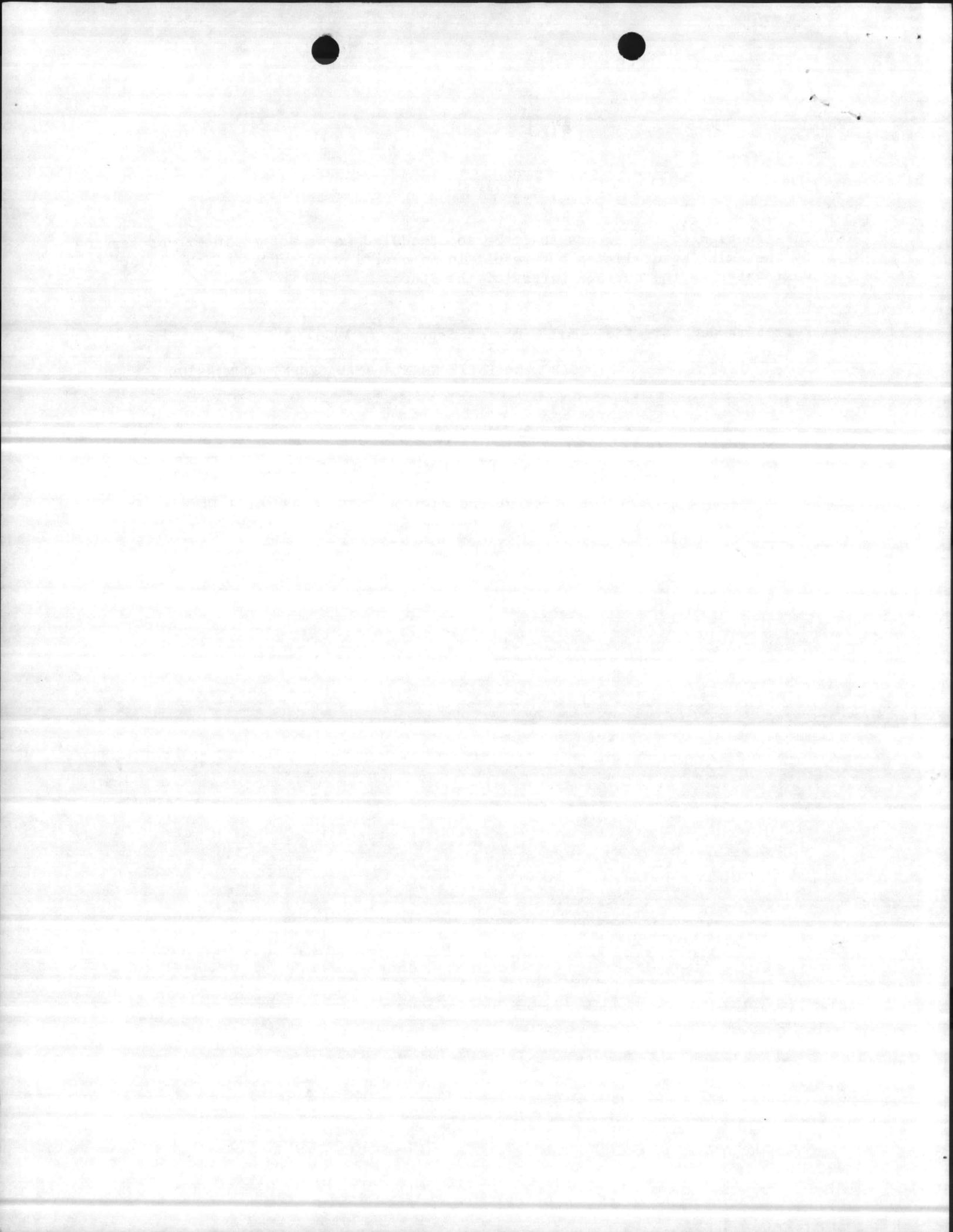
NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION


for R. Paul Wilms, Director

Division of Environmental Management

By Authority of the Environmental Management Commission

Permit No. 13616



*Gene
Laurie
Fred*

(804) 445-2933

6280
1141WLC

18 SEP 1986

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

Subj: MCON PROJECT P-808, APPLIED INSTRUCTION BUILDING CONSTRUCTION AND
OPERATION PERMIT NUMBER 13615

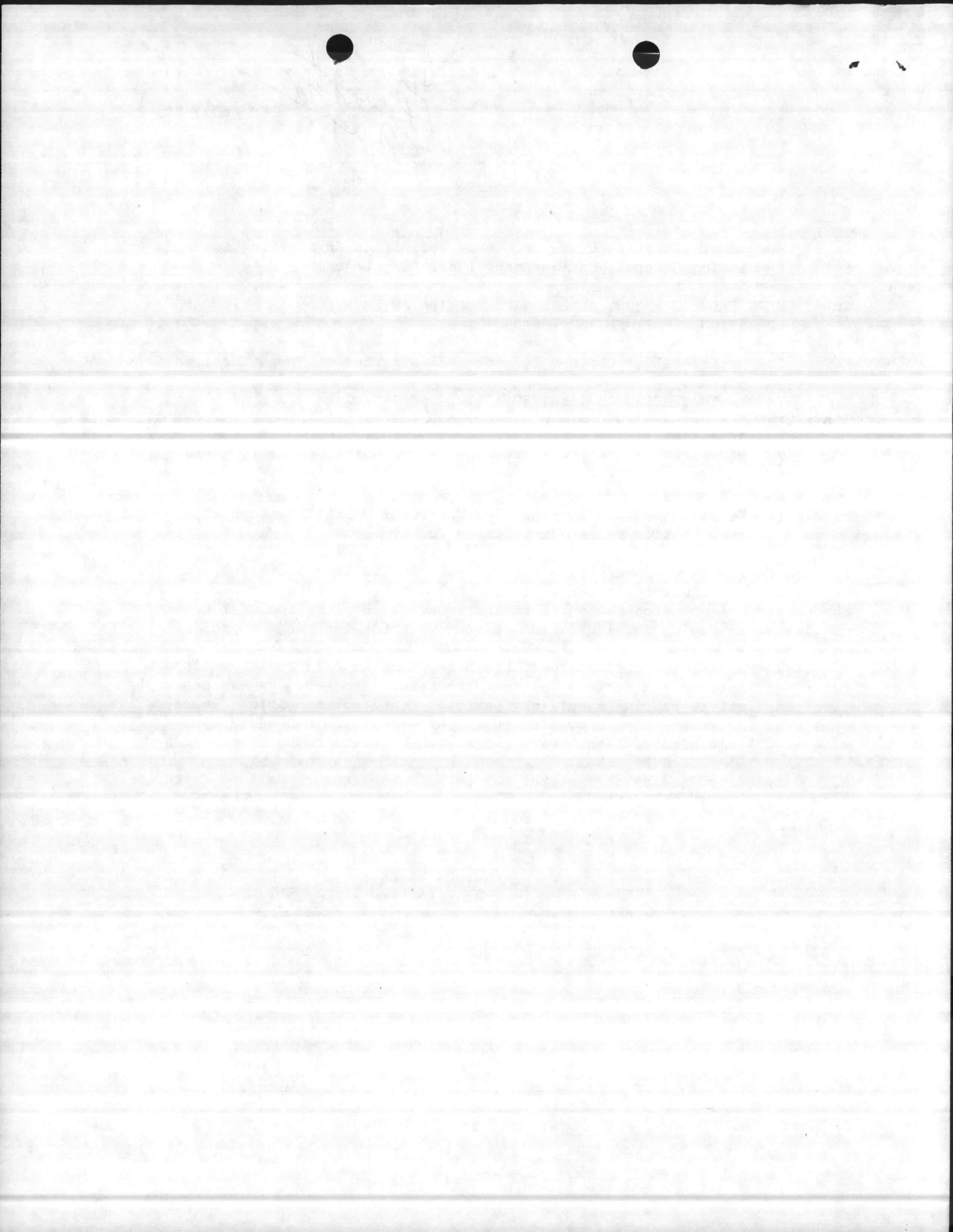
Ref: (a) Article 21 of Chapter 143, General Statutes of North Carolina as amended
(b) LANTNAVFACENGC COM ltr 6280 1141WLC of 24 Jul 86
(c) MCON Project P-808 Non-Discharge Permit Application (AFN 008092) of 29 Jul 86
(d) North Carolina State Department of Natural Resources and Community Development ltr of 4 Sep 86

Encl: (1) Permit Number 13615 - Applied Instruction Building (P-808),
Pump Station/Force Main, Onslow County

1. In accordance with reference (a) and pursuant to references (b) and (c), reference (d) forwarded enclosure (1). Enclosure (1) grants permission for the construction and operation of sanitary sewage pump station, force main, gravity sewer piping and incidental related work for the subject project.
2. It is recommended that Marine Corps Base, Camp Lejeune review enclosure (1) conditions and limitations specified therein. The Activity has the right to an adjudicatory hearing should any parts be found unacceptable. However, such demand must be made in writing to the Director within 30 days upon receipt of this permit, identifying the specific issues to be contended.
3. Questions regarding this matter may be addressed to Mr. Wallace Carter, Code 114, AUTOVON 565-2933.

J. R. BAILEY
By direction

Blind Copy to: (w/o encl)
09A2123 (w/encl) ←
11S
114 (w/encl)
114S
09BS
Doc #0904Z/pvc





State of North Carolina
Department of Natural Resources and Community Development
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
S. Thomas Rhodes, Secretary

September 4, 1986

R. Paul Wilms
Director

Mr. J. R. Bailey, P.E. Head
Environmental Quality Branch
U. S. Navy
LANTNAVFACEMGOM
Norfolk, VA 23511-6287

SUBJECT: Permit No. 13615
U. S. Navy
Applied Instruction Building P-808
Pump Station/Force Main
Onslow County

Dear Mr. Bailey:

In accordance with your application received July 29, 1986, we are forwarding herewith Permit No. 13615, dated September 4, 1986, to the U. S. Navy for the construction and operation of the subject wastewater collection system extensions.

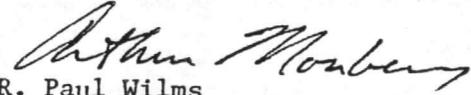
This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearing, Post Office Drawer 11666, Raleigh, North Carolina 27604.

If you wish to have the hearing before the Hearing Officer with this Department, you must indicate in the petition that you waive the right to have the contested case conducted by a Hearing Officer in the office of Administrative Hearings, and wish to have the matter conducted in the Department of Natural Resources and Community Development. Unless such demands are made this permit shall be final and binding.

One (1) set of approved plans and specifications is being forwarded to you. If you have any questions or need additional information concerning this matter, please contact Ms. Cyretha Irving, telephone number 919/733-5083, ext. 119.

Sincerely yours,


R. Paul Wilms

cc: Onslow County Health Department
Hoggard-Eure Associates
Wilmington Regional Office
Dennis Ramsey

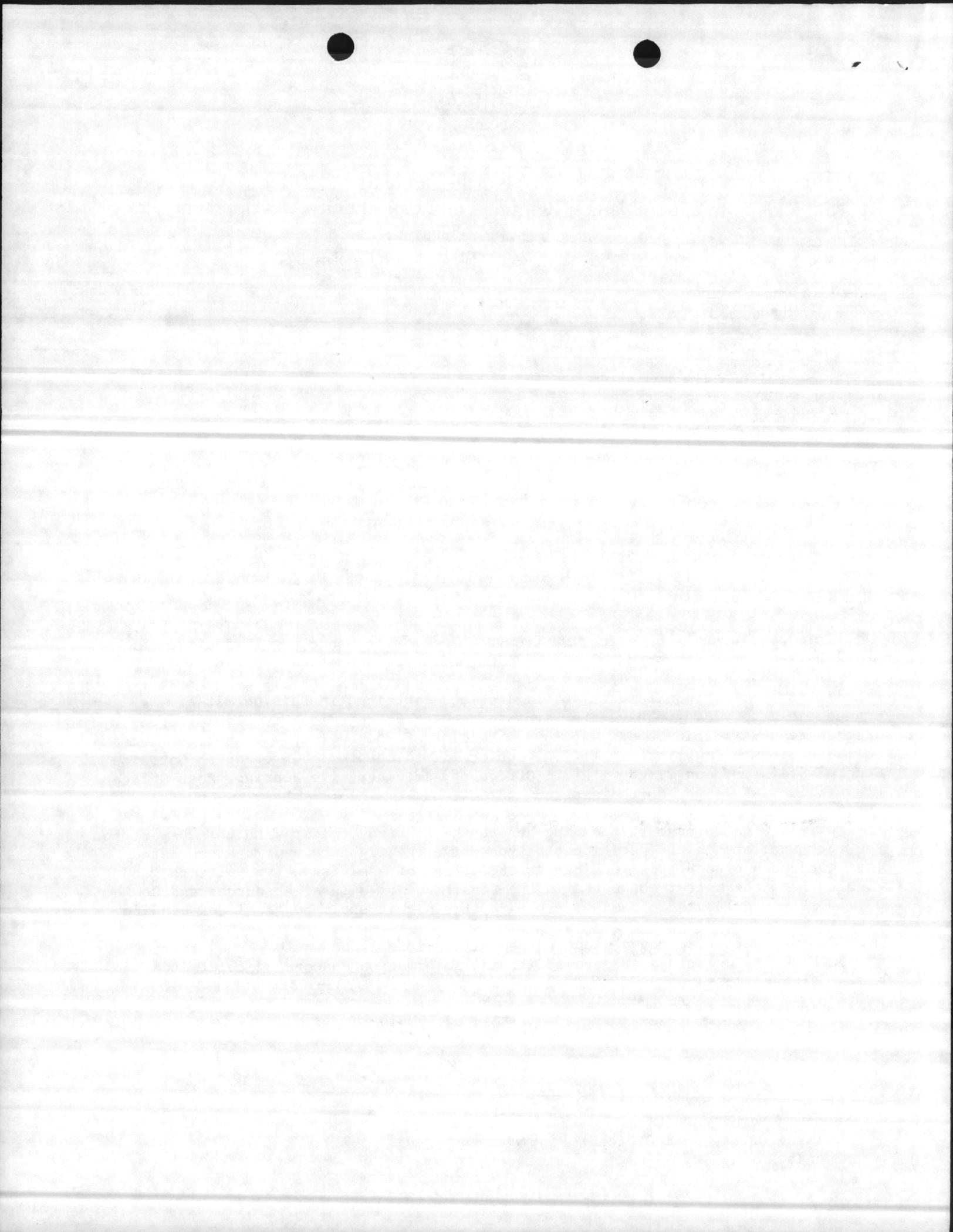
Pollution Prevention Pays

P.O. Box 27687, Raleigh, North Carolina 27611-7687 Telephone 919-733-7015

jk

An Equal Opportunity Affirmative Action Employer

Encl



NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

RALEIGH

P E R M I T

For the Discharge of Sewage, Industrial Wastes, or Other Wastes

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules and Regulations

PERMISSION IS HEREBY GRANTED TO

The U. S. Navy
Onslow County

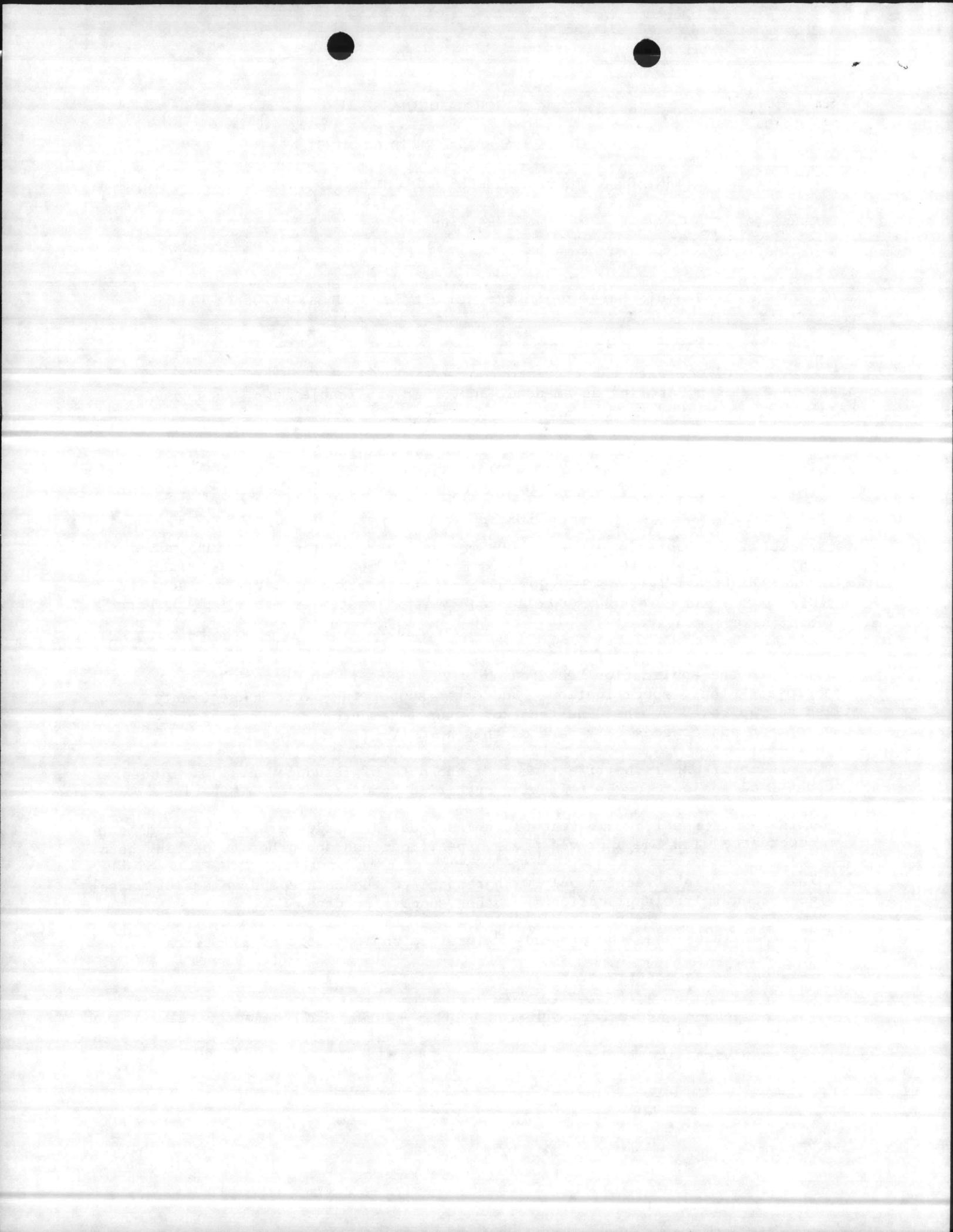
FOR THE

construction and operation of a 200 GPM wet well pump station with dual non-submersible pumps, high water alarm, approximately 1,950 lineal feet of 6-inch force main and 220 lineal feet of 8-inch gravity sewer to serve Applied Instruction Building P-808 and to discharge collected domestic wastewater into Camp Lejeune's existing sewerage system,

pursuant to the application received July 28, 1986 and in conformity with the project plans, specifications, and other supporting data, subsequently filed and approved by the Department of Natural Resources and Community Development and considered a part of this permit.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the following specified conditions and limitations.

1. This permit shall become voidable unless the facilities are constructed in accordance with the approved plans, specifications and other supporting data.
2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
3. The facilities shall be properly maintained and operated at all times.
4. This permit is not transferable.
5. The sewage and wastewater collected by this system shall be adequately treated in the Montford Point Wastewater Treatment Plant prior to being discharged into the receiving stream.



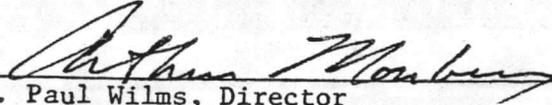
Permit No. 13615

Page -2-

6. Construction of the sewers shall be so scheduled so as not to interrupt service by the existing utilities nor result in an overflow or bypass discharge of wastewater to the surface waters of the State.

Permit issued this the 4th day of September, 1986.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

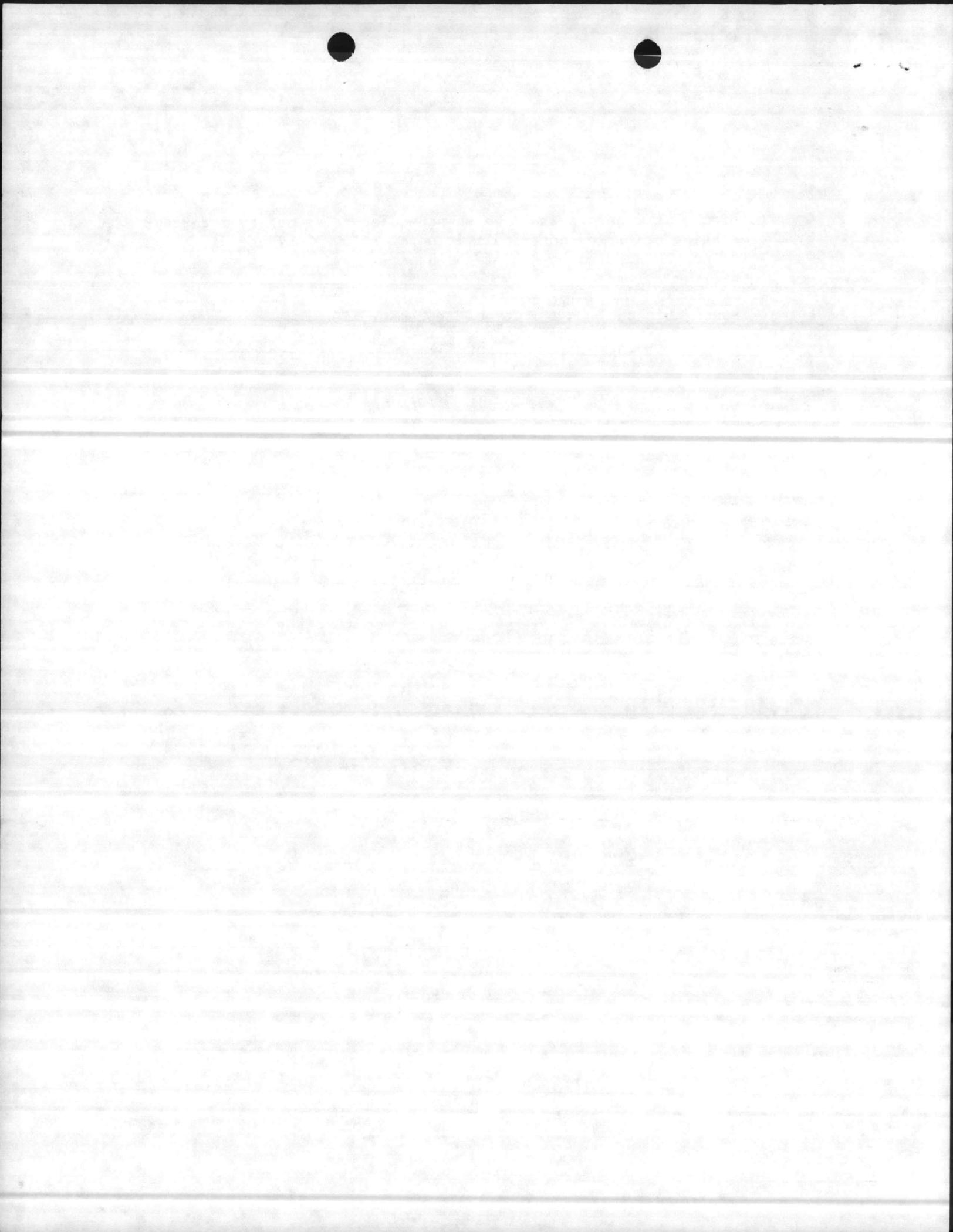


for R. Paul Wilms, Director

Division of Environmental Management

By Authority of the Environmental Management Commission

Permit No. 13616



NAKAZAWA CORPORATION
ARCHITECTS & PLANNERS
212 SOUTH TRYON STREET
CHARLOTTE, NORTH CAROLINA 28281
(704) 335-1184

Gene
Fred
Larry
WLB

NC 840437

15 November 1985

Commander, Atlantic Division
Naval Facilities Engineering Command
Naval Station, Building N-26
Norfolk, Va. 23511

Attention: Maxey L. Bryant

Subject: Contract N62480-84-C-6812;
Project P-808, Applied Instruction Bldg.,
Marine Corps Base, Camp Lejeune, N.C.

Gentlemen:

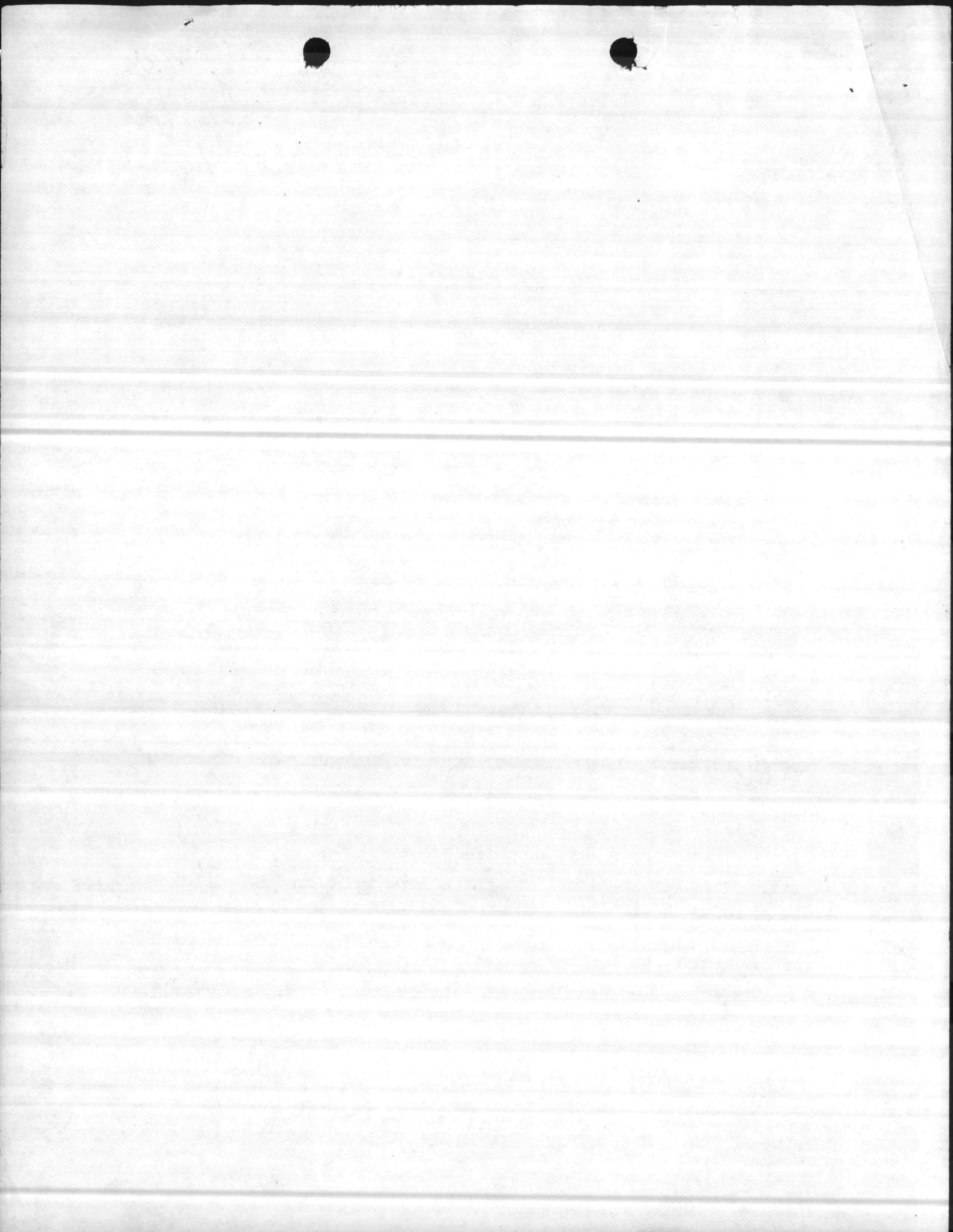
We are submitting herewith three (3) copies of the corrected final Mini-Master Plan drawings and Report in accordance with the contract requirements. Also, we are returning marked-up LANTDIV drawings and Report.

Sincerely,


Y. Nakazawa, FAIA
President

Distribution:

- 1 copy - Commanding Officer, Marine Corps Service Support School
Marine Corps Base, Camp Lejeune, North Carolina
- ✓ 2 copies - Fred W. Estes, Jr., Public Works Division,
Marine Corps Base, Camp Lejeune, North Carolina
- 1 copy - P. Nakazawa, AIA, Project Manager
- 1 copy - M.G.N. Inc., Chet Niedizela
- 1 copy - Hoggard/Eure Associates, George Hoggard



MINI-MASTER PLAN REPORT

for

PROJECTS P-808, P-809 and P-810
APPLIED INSTRUCTION BUILDING
MARINE CORPS BASE, CAMP LEJEUNE
JACKSONVILLE, N.C.

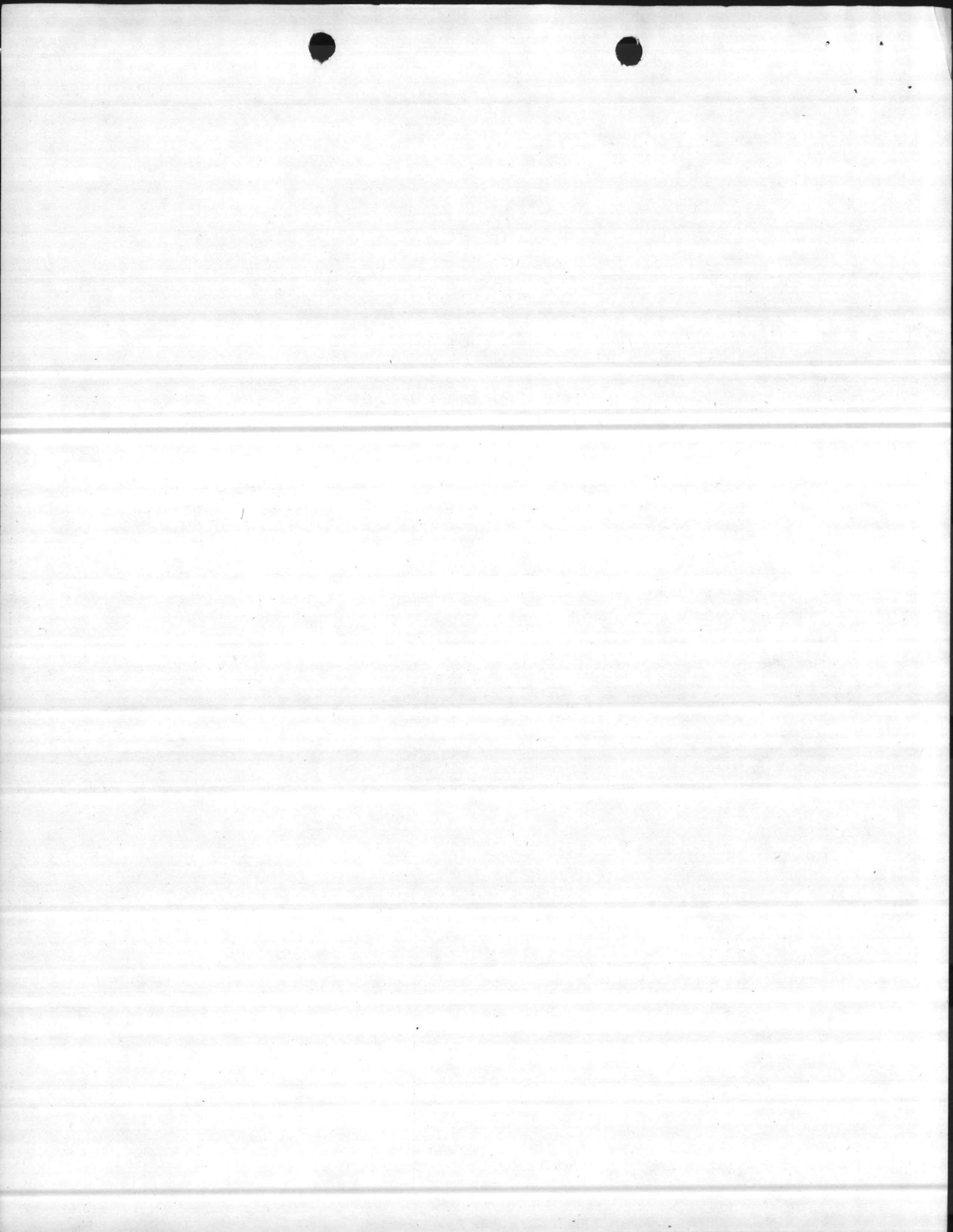
Administered By:

ATLANTIC DIVISION
Naval Facilities Engineering Command
Norfolk, Virginia 23511

Prepared By:

NAKAZAWA CORPORATION
212 South Tryon Street
Charlotte, N.C. 28281

01 DECEMBER 1984
(Revised 15 October 1985)

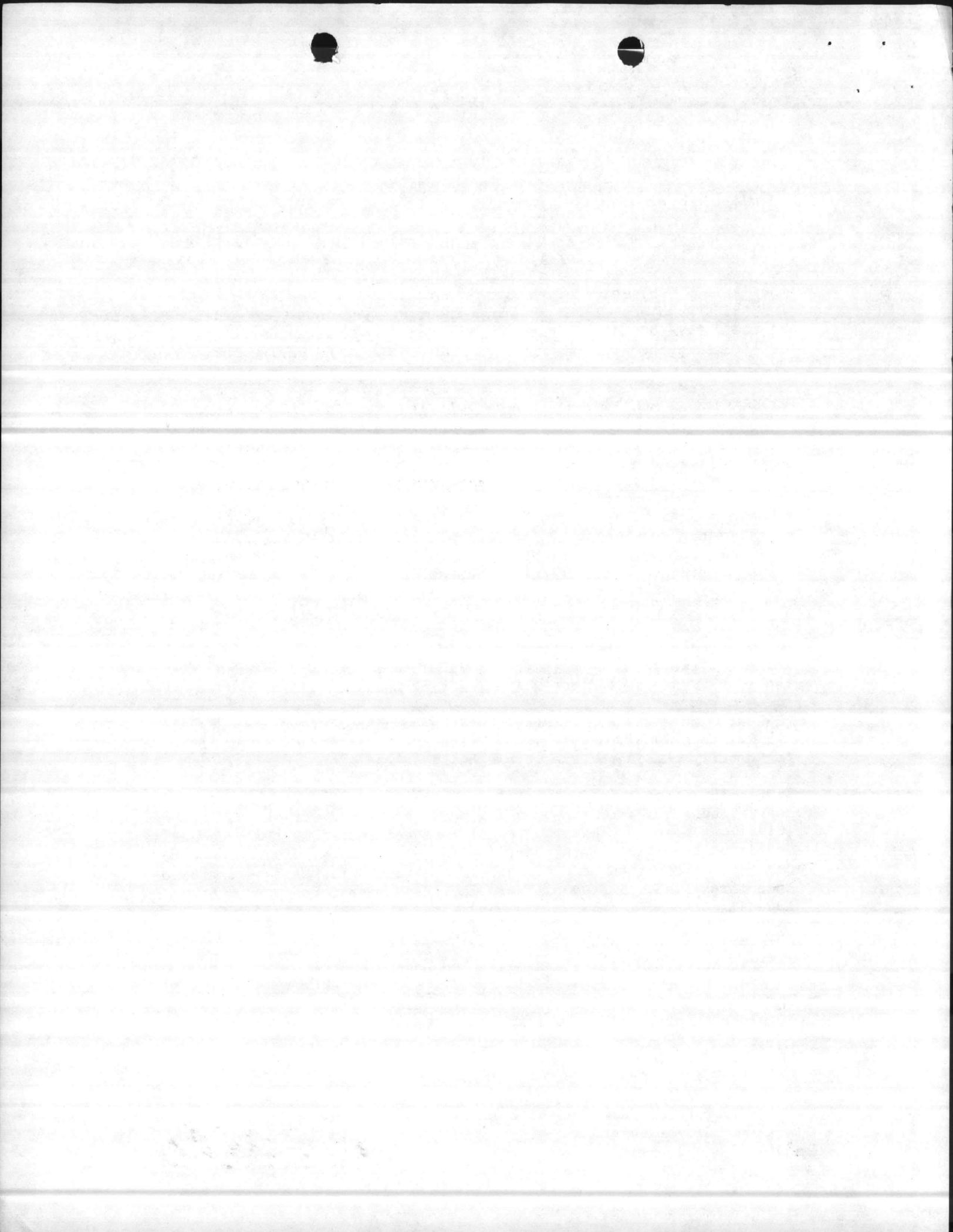


MINI-MASTER PLAN REPORT
Contract N62470-84-C-6812

1. PROJECT: Current program calls for providing 26,961 SF of applied/academic school for Motor Transport School, Marine Corps Service Support School, as Increment I of a total planned 108,665 SF of training facilities. Objective of the Mini-Master Plan is to develop the entire 108,665 SF project (three phases), insuring functional and orderly phasing of the future building additions, and providing sufficient sizing of utilities in the first increment to accommodate the entire 108,665 SF project.
2. PROGRAMMING: Meetings and interviews with the Using Agency were conducted at the Public Works Office, Marine Corps Base, Jacksonville, North Carolina, on 24 September and 24 October 1984, to obtain quantitative data from which macro plans were developed. Prior to the 24 September meeting, pre-schematic plans were prepared by the A/E, based on early program data and telephone conversations with Public Works and the Using Agency. Following the 24 September meeting, site survey and soil borings were conducted to accurately locate the proposed site, new road work and soil conditions. Upon reviewing the field data and incorporating comments of the 24 September meeting, a second submission (9 October 1984) of the mini-master plan documents was made for further review.

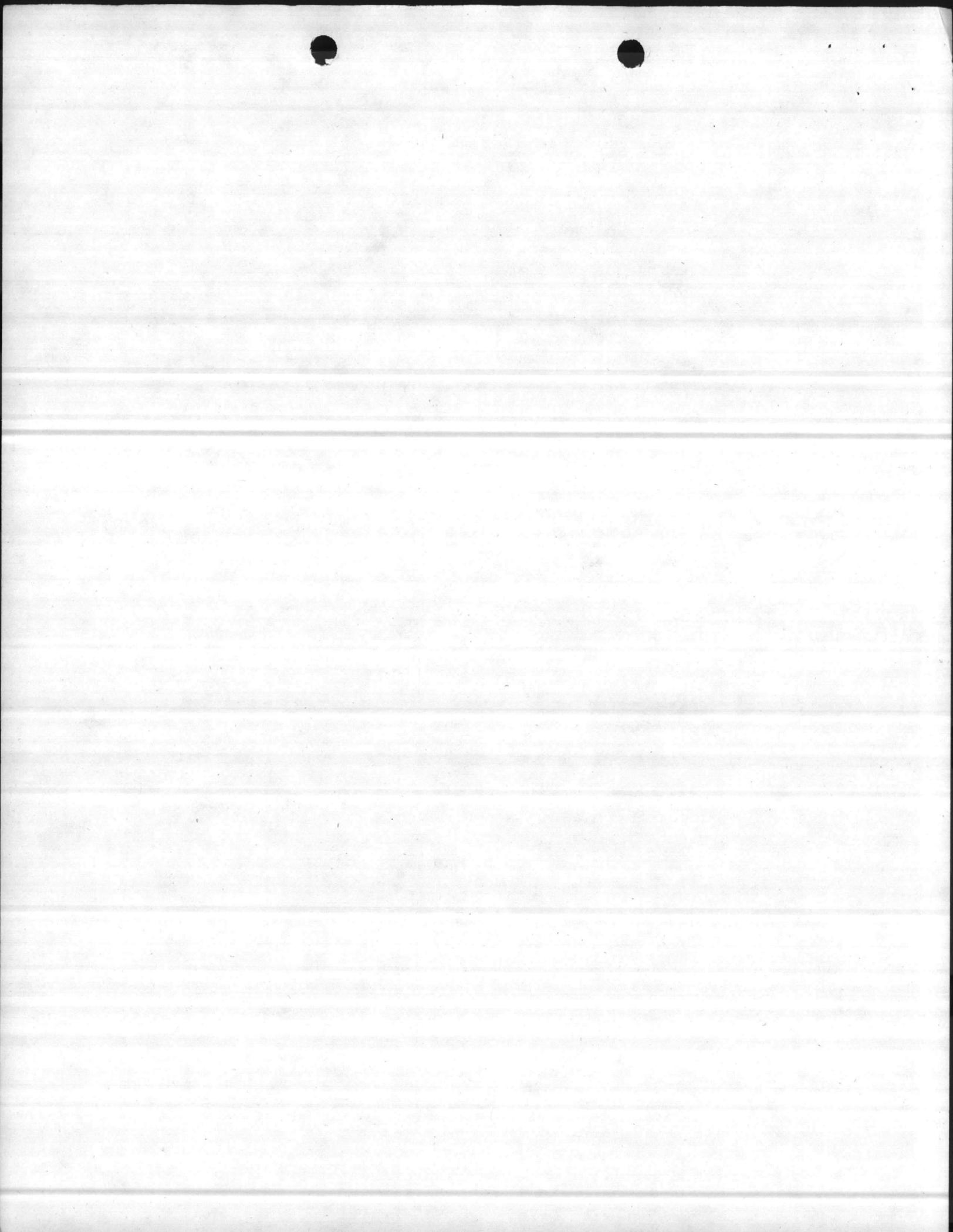
On 24 October 1984, a meeting was held at Public Works for a final review of the planning documents. Final comments were incorporated into the plans. See Appendices A & B (Meeting Notes).
3. DESIGN: There was concurrence that the modular concept presented by the A/E was functional, aesthetically pleasing, cost effective and provided for orderly phasing of the future building additions.
4. SITE: The project is located in a remote and wooded area of the base, several hundred feet from existing paved areas and utilities. Appendix D (Civil), reports the existing conditions and describes the proposed work for roads & parking, Water Distribution, sanitary sewers, and storm drainage. The proposed site was also reviewed with Harland Bartholomew & Associates, Inc., master planners for the Marine Corps Base. See Appendix C.
5. UTILITIES: Steam and electrical requirements have been sized to accommodate phases I, II and III. See Appendix E.
6. DRAWINGS: The following drawings have been prepared to show the total development of the Applied Instruction Complex in three phases.

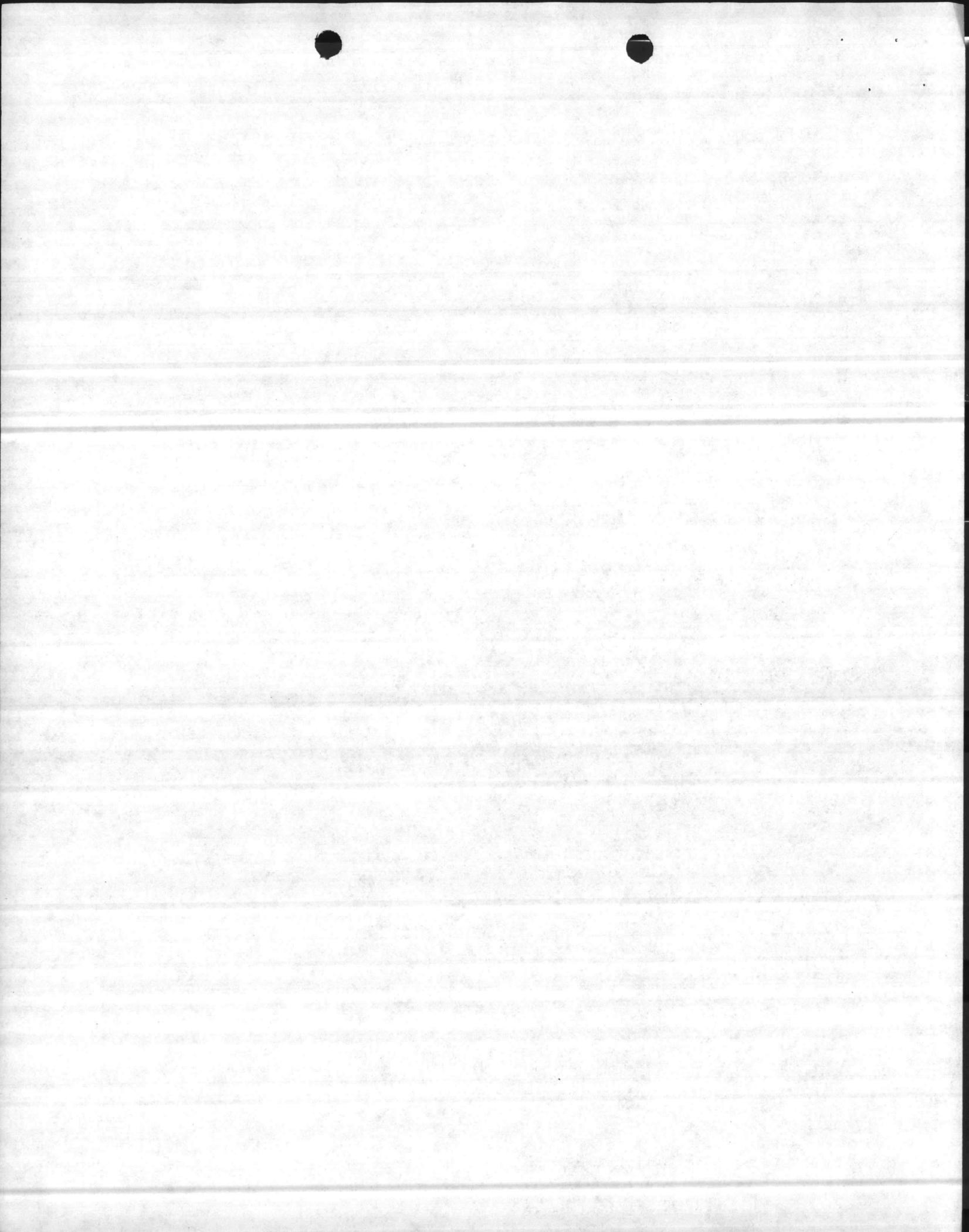
SK-1 Master Site Plan
SK-2 Building Site Plan
SK-3 Road Extensions
SK-4 Floor Plan, Phases I, II & III
SK-5 Building Elevations



- APPENDIX A - CONFERENCE NOTES &
PERTINENT LETTERS
- APPENDIX B - MEETING NOTES
DATED 24 SEPTEMBER 1984
- APPENDIX C - HARLAND BARTHOLOMEW
& ASSOC., INC., LETTER
DATED 17 OCTOBER 1984
- APPENDIX D - BASIS OF DESIGN
CIVIL ENGINEERING
- APPENDIX E - BASIS OF DESIGN
MECHANICAL - ELECTRICAL

APPENDIX





Central Office
226 N. West St.
Elmhurst, Illinois 60126
1-312-833-0043

1 E. Morehead St.
Charlotte, NC 28204
1-704-335-1183

September 17, 1985

Department of the Navy
Atlantic Division Code 403
Naval Facilities Engineering Command
Norfolk, VA 23511-6287

REF: Applied Instruction Buildings - P-808, P-809, P-810
Camp LeJeune, NC

ATTN: Mr. Steven Erickson, P.E.

Gentlemen:

As per our phone conversation on September 17, 1985 concerning the Trane Trace Study for the Applied Instruction Buildings P-808, P-809, and P-810, we are outlining the following parameters we propose to use for your consideration and approval.

Enclosed herewith is drawing SK-1 dated 9-17-85 which indicates the thermal zones we are proposing to use for the Trane Trace Program input (version 500).

The building is broken into 6 area's with each area having 5 thermal zones for a total of 30 zones. The area's in which the project will be constructed are as follows:

P-808	Area's 1 and 2
P-809	Area's 3 and 4
P-810	Area's 5 and 6

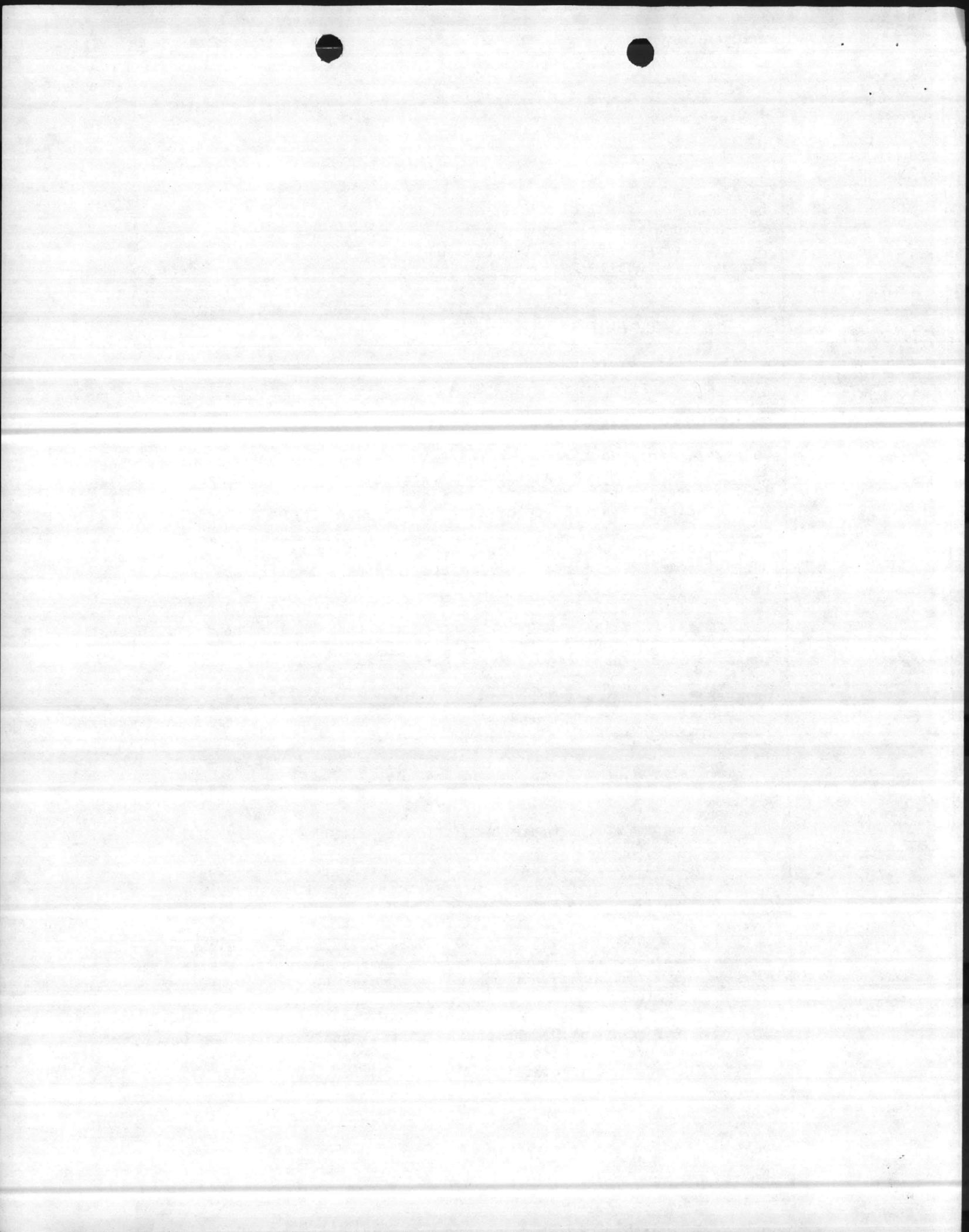
Area's 1, 3, and 5 are heated and cooled.
Area's 2, 4, and 6 are heated only.

The program will compare the following alternatives:

1. Multizone chilled water, dual temperature water system, base steam to hot water. Use air cooled packaged reciprocating chiller, economizer cycle.
2. Variable volume, chilled water, dual temperature water system, base steam to hot water. Use VAVFP-(shut off parallel fan powered boxes) air cooled reciprocating chiller, economizer cycle.
3. VAV roof top DX condensing units, base steam to hot water. Use VAV-TAB (terminal air blender series fan powered boxes) economizer cycle.



M.G.N. Consulting Engineers, Inc.
Mechanical-Electrical Engineering



4. Pre-1975 constant volume chilled water, dual temperature water system, base steam to hot water. Use hot water reheat, no economizer cycle.

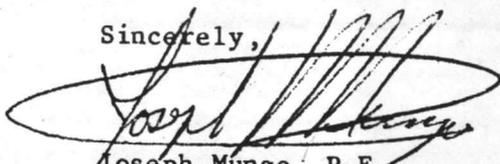
The Trace run shall include the following:

1. Exhaust air requirements
2. Domestic hot water requirements
3. Process loads
4. Non conditioned areas

The Trace run will be simulated for the entire building which will include all three phases.

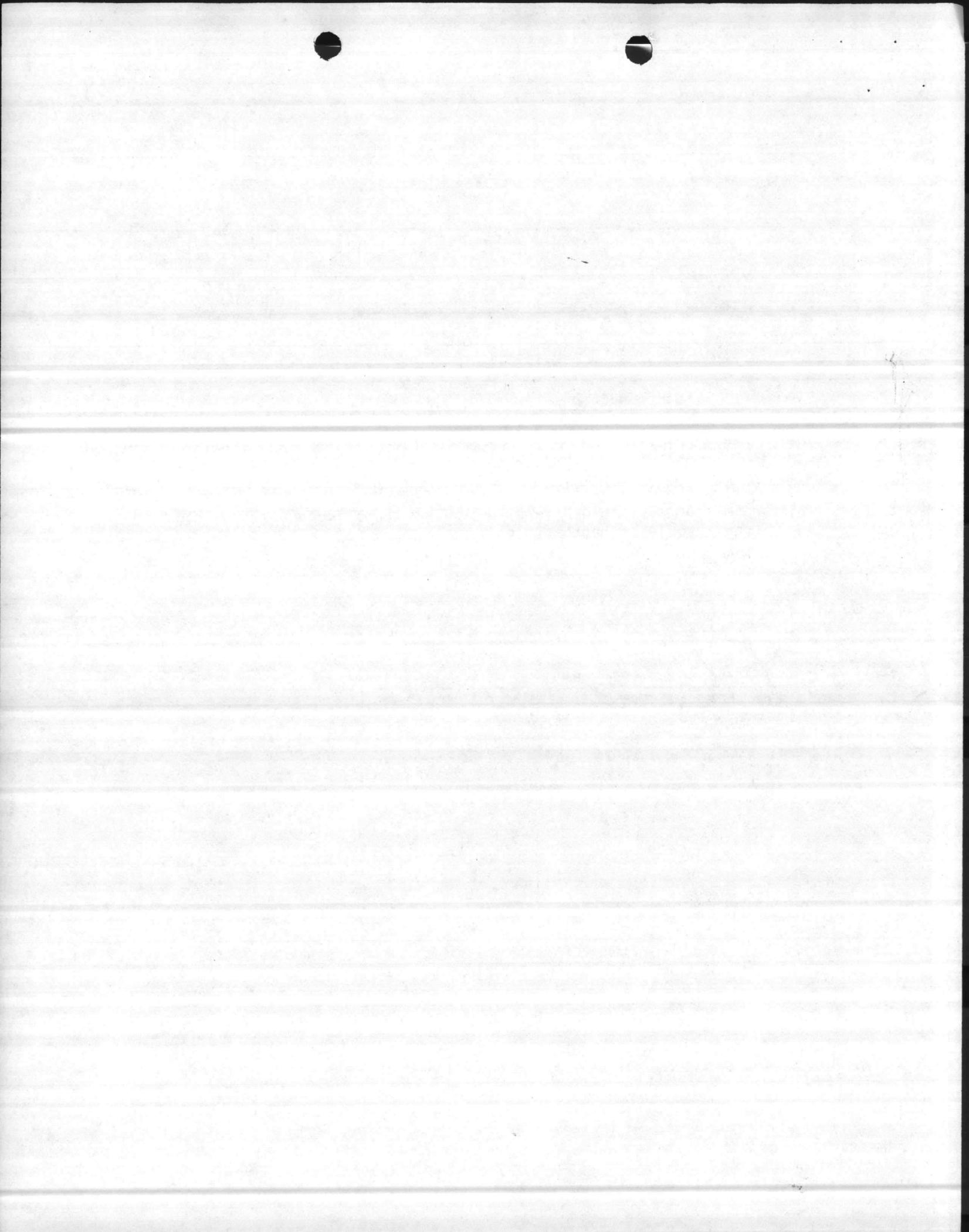
Please advise us if there are any additions or deletions to the information contained herein concerning the Trace run. Your prompt response would be appreciated.

Sincerely,



Joseph Mungo, P.E.
M.G.N., Inc.

cc: Nakazawa Corporation



Central Office
226 N. West St.
Elmhurst, Illinois 60126
1-312-833-0043

0 E. Morehead St.
Charlotte, NC 28204
1-704-335-1183

September 17, 1985

Department of the Navy
Atlantic Division Code 403
Naval Facilities Engineering Command
Norfolk, VA 23511-6287

REF: Applied Instruction Buildings - P-808, P-809, P-810
Camp LeJeune, NC

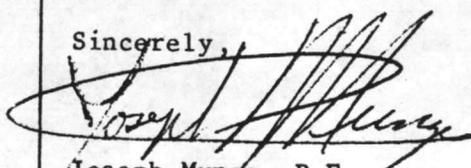
ATTN: Mr. Steven Erickson, P.E.

Gentlemen:

Mr. Paul Nakazawa of Nakazawa Corporation was in telephone communications on 9-17-85, 1:30 Est with Mr. Grover Ash who is the Technical Advisor to the Motor Schools at Camp LeJeune. Mr. Ash advised Mr. Nakazawa that diesel engines will be used in P-808, P-809, and P-810 facilities and that they will only operate the engines on an occasional basis for not more than one hour. The engines will not operate every day and not all engines at one time. An estimate would be 3 to 4 engines operating at one time.

We therefore respectfully suggest that any attempt for heat recovery and make up air for the vehicle exhaust system be disregarded for this project.

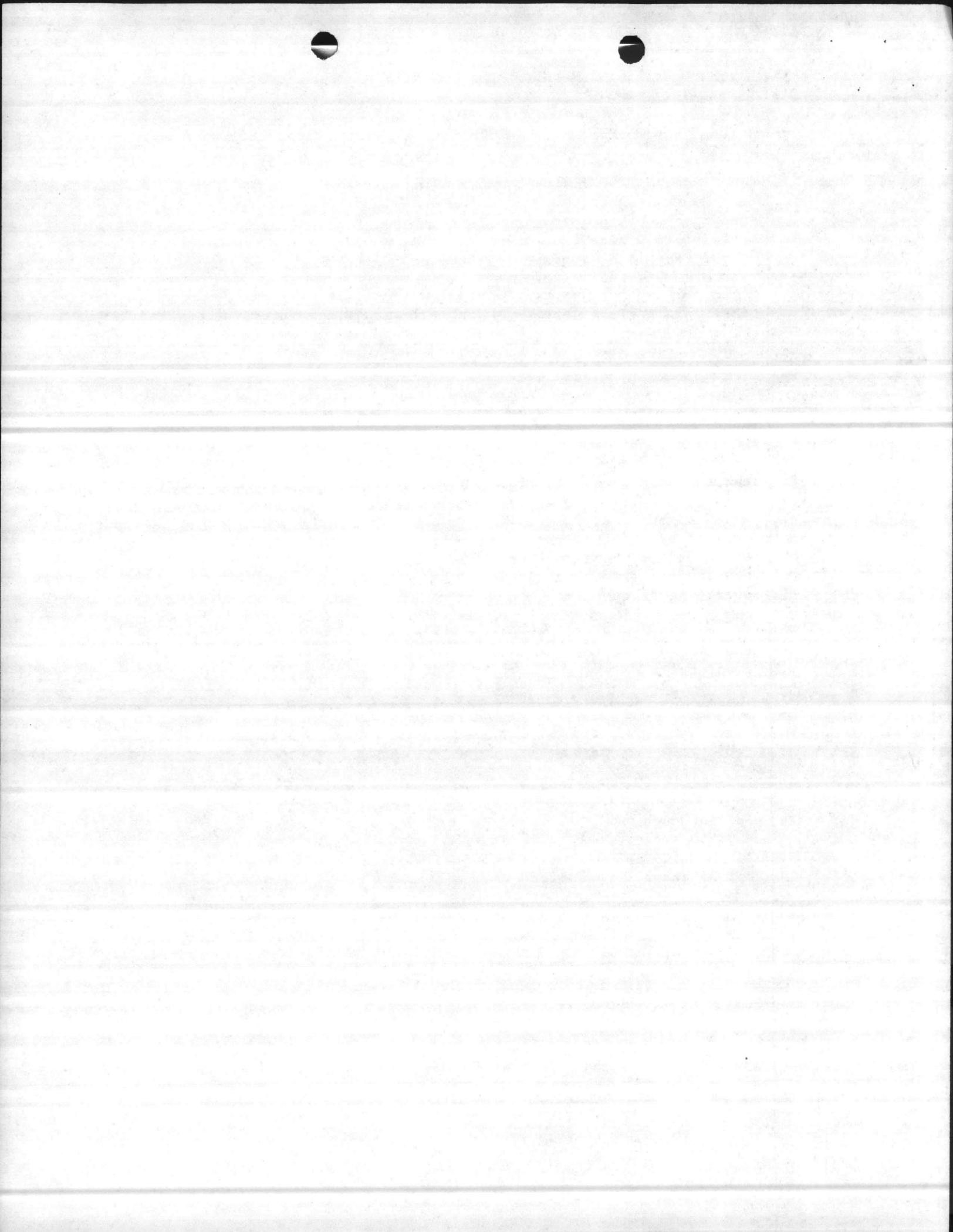
Sincerely,



Joseph Mungo, P.E.
M.G.N., Inc.

cc: Nakazawa Corporation





NAKAZAWA CORPORATION

ARCHITECTS & PLANNERS
212 SOUTH TRYON STREET
CHARLOTTE, NORTH CAROLINA 28281
(704) 335-1184

August 16, 1985

Commanding Officer, Atlantic Division
Naval Facilities Engineering Command
U.S. Naval Station, Building N-26
Norfolk, Virginia 23511

Attention: Maxey L. Bryant, Project Manager
Code 09A21B3

Subject: Applied Instruction Building
Marine Corps Base, Camp Lejeune, N.C.
Contract No. N62470-84-C-6812

Dear Maxey:

We have been in touch with Fred Estes at the Activity and apparently have a problem in establishing the Scope of Work for P-810.

Fred gave me the following breakdown for P-810:

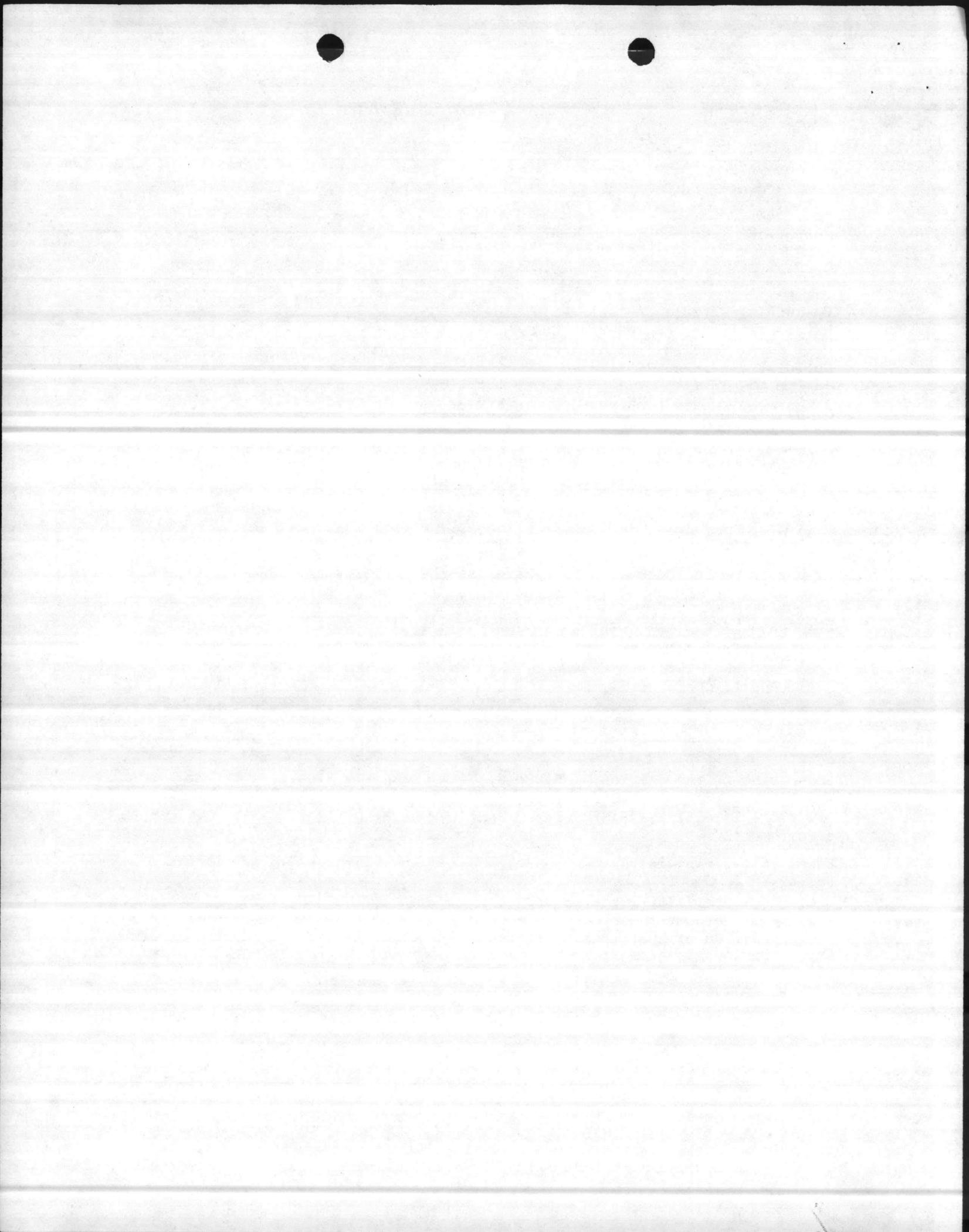
a) Original Activity 1391 scope	24,423 SF
b) 2 classrooms from P-809	4,305 SF
c) Addition of 3 offices	1,932 SF
* TOTAL SCOPE FOR P-810	<u>30,660 SF</u>

*Does not include scope for corridors, toilets and exterior wall thicknesses.

Subsequent to the original 1391 study, a mini-master plan study was made, indicating a requirement of 27,772 SF for P-810, which is (27,772 - 24,423) 3,349 SF greater than the original 1391 Scope requirements.

Based on the mini-master plan requirements, the P-810 should be as follows:

a) P-810 per mini-master plan	27,772 SF
b) 2 Classrooms (picked up from P-809)	4,305 SF
c) Addition of 3 offices/Activity	1,932 SF
ACTUAL SCOPE FOR P-810	<u>34,009 SF</u>



Commanding Officer
16 August 1985
Page 2

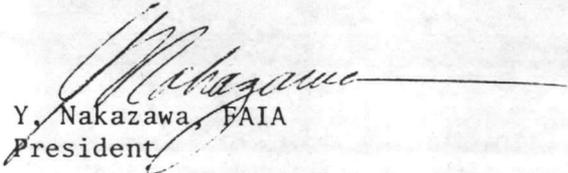
The sum of the entire three phases for the project should be as follows:

PHASE 1 - Applied Instruction (P-808)	26,961 SF
PHASE 2 - Mechanics Training Building (P-809)	47,695 SF
PHASE 3 - Project (P-810)	34,009 SF
<u>TOTAL PROGRAM</u>	<u>108,665 SF</u>

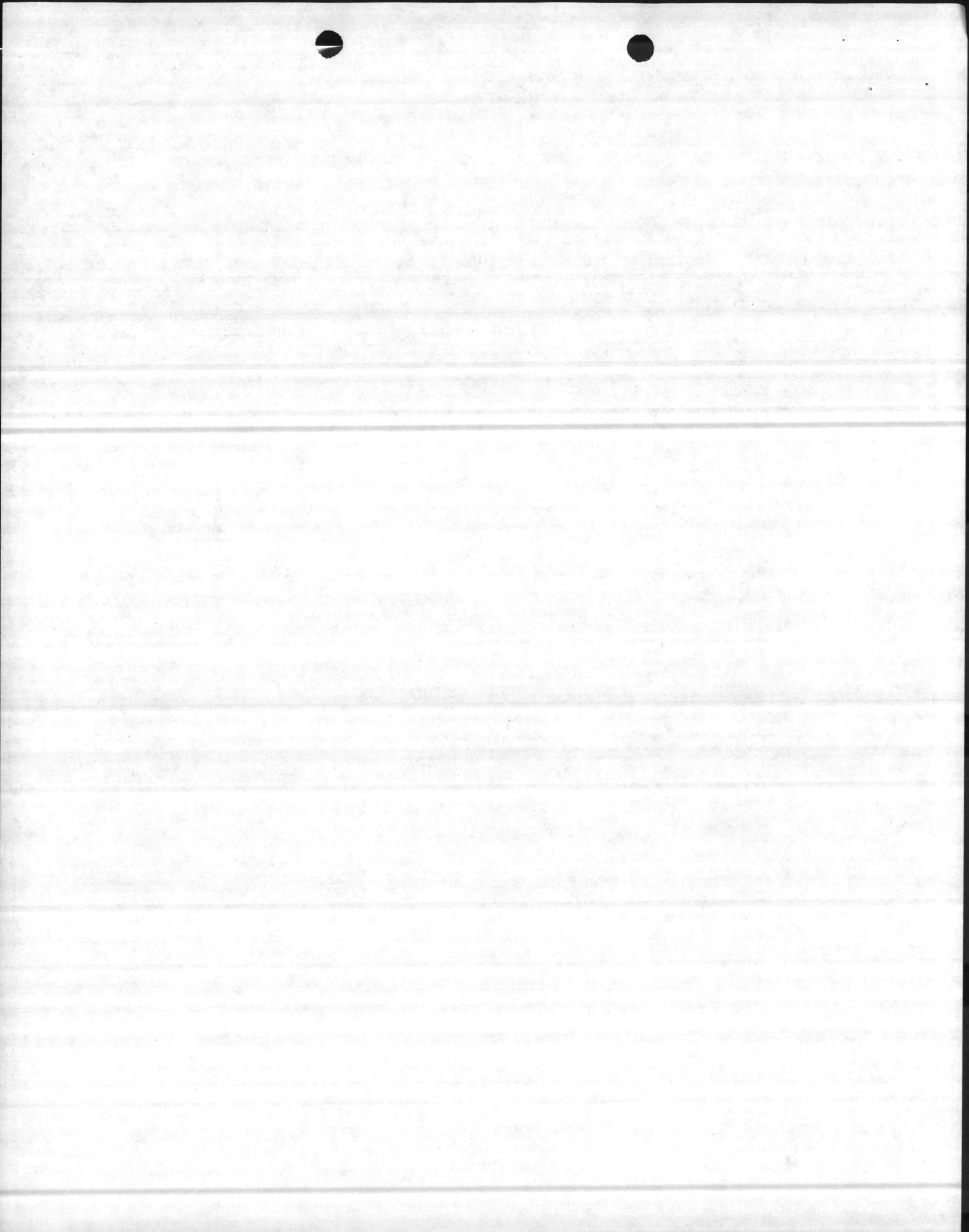
Insofar as the mini-master plan is concerned, we were advised by the Activity to contact your office for guidance. The establishment of a correct Scope of Work for P-810 and the total program scope is critical to revising the mini-master plan as well as the "Trane Trace" energy study.

Please advise at your earliest convenience.

Sincerely,


Y. Nakazawa, FAIA
President

cc: Fred Estes, Planning, PWD, Camp Lejeune
Paul W. Nakazawa, AIA, PM
Chet Niedziela, M.G.N. Inc.



Central Office
226 N. West St.
Elmhurst, Illinois 60126
1-312-833-0043

70 E. Morehead St.
Charlotte, NC 28204
1-704-335-1183

July 5, 1985

Nakazawa Corporation
906 Davis Street
Evanston, IL 60201

RE: Applied Instruction P-808
Extension of Telephone Cable from Telephone
Exchange Building 167 to Project P-808



In a meeting held on 22 Jan 1985, the A&E was instructed to ^{include} 200 pair, 22 GA, SF telephone cable from an existing telephone manhole located adjacent to telephone exchange building 167 and run underground north along Montford Landing up to the vicinity of the proposed new road, provide cross-connect cabinet, and cross under Montford Landing and head west along the proposed new road with the underground 200 pair, 22 GA, SF telephone cable up to the intersection of the second proposed new road and ending the run of the telephone cable with a cross-connect cabinet installed at the intersection.

From the cross-connect cabinet, 75 pair, 22 GA, SF telephone cable shall be extended underground to the mechanical-electrical room located in P-808. The cable size is apparently adequate to provide service for P-808, P-809 and P-810.

See attached sketch SK-1 for routing.

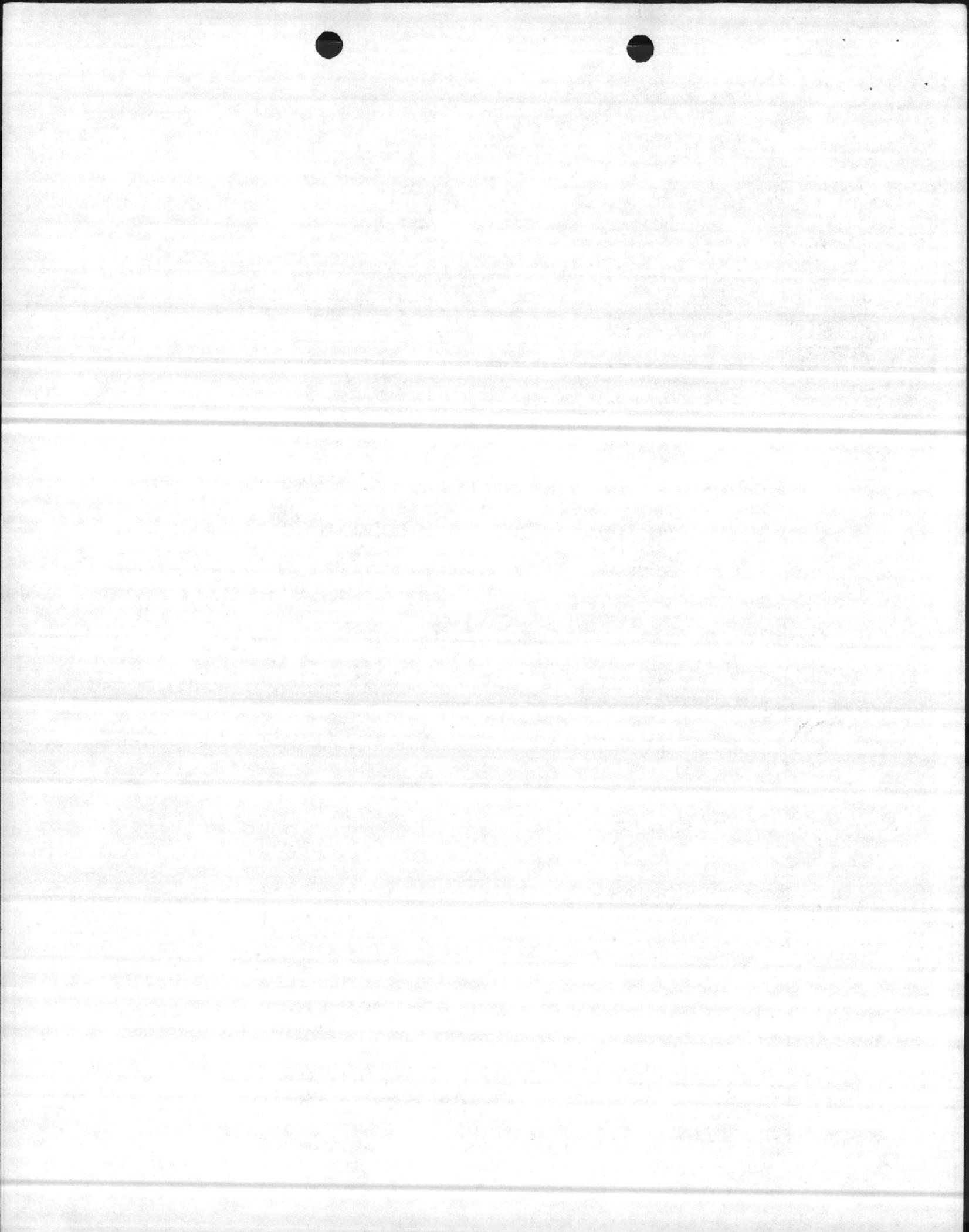
Chet Niedziela

Enclosure: Sketch SK-1

RECEIVED

JUL 09 1985

NAKAZAWA CORPORATION
By _____



NAKAZAWA CORPORATION

ARCHITECTS & PLANNERS

212 SOUTH TRYON STREET

CHARLOTTE, NORTH CAROLINA 28281

(704) 335-1184

CONFERENCE NOTES

Date: October 24, 1984 @ 13:30 Hours

Place: Public Works Division, Building 1005 - Conference Room
Marine Corps Base, Camp Lejeune, NC 28542

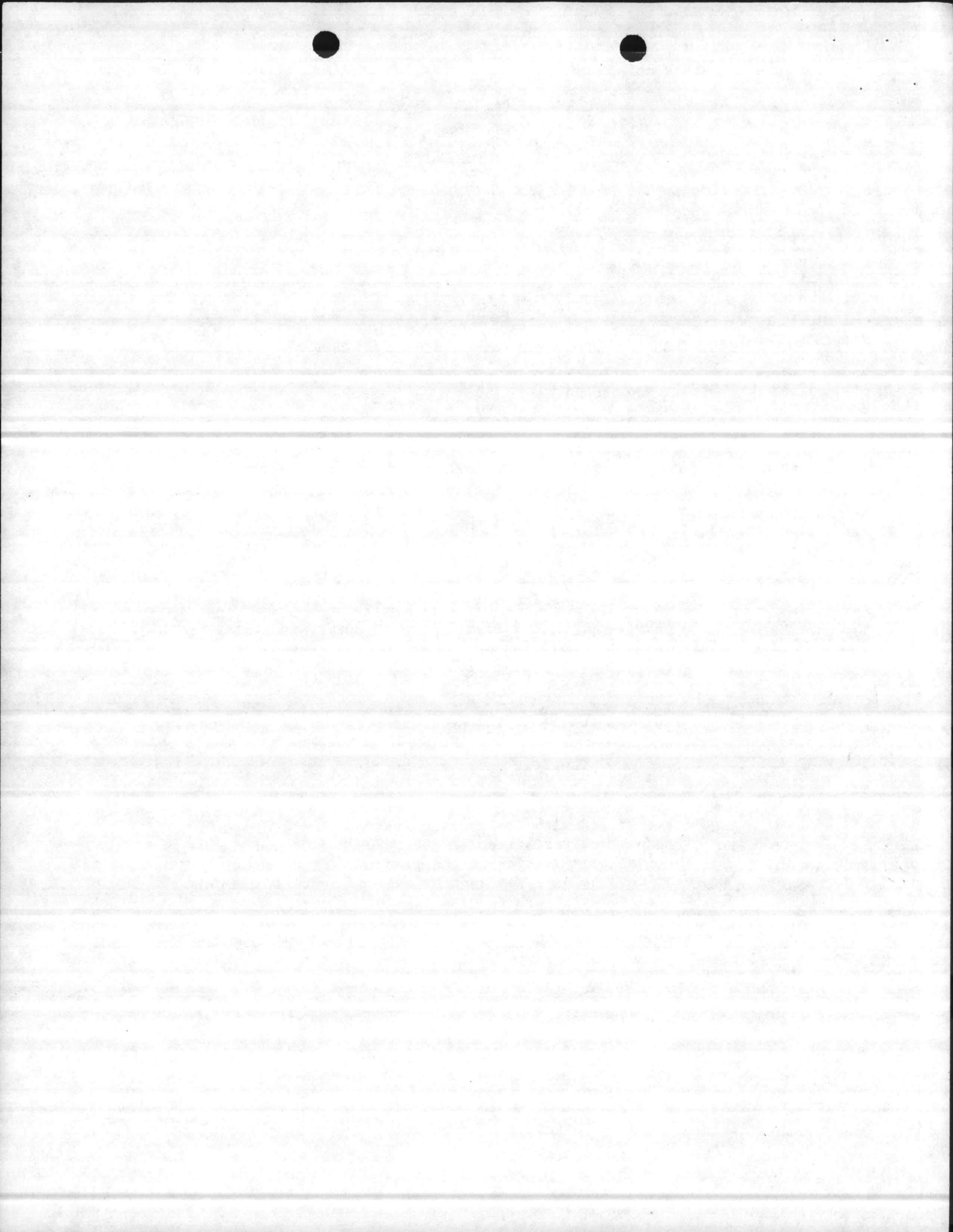
Project: Applied Instruction Building, P-808, FY 1986 MCON,
MCB, Montford Point Area, Camp Lejeune, NC
A/E Contract Number: N62470-84-C-6812

Subject: Presentation of Mini Master Plan

Attendees: Lt. Col. Browning, Commander, MTSC, MCSSS (919) 451-0985
Capt. T.L. Kassab, AO MTSC, MCSSS (919) 451-0946
E.G. Jones, Manager, Planning Section (919) 451-1833
F.W. Estes, Jr., Proj. Mgr., Planning Sec. (919) 451-1833
P.W. Nakazawa, A/E (704) 335-1184

- AGENDA:
- A. Review of Master Plan Siting (P-808/P-809/P-810) and Internal Plan Organization of Each Phase
 - B. Discussion of Plans Submitted to the User for Comments
 - C. Discussion of Topics Related Specifically to P-808
-

A.1.0 A/E reviewed with the user the master plan siting of the combined facilities (P-808/P-809/P-810) and the internal organization of the plans. Prior to the meeting, the user was sent by mail an overall site plan, indicating phasing; an overall floor plan of the three phases; and building elevations/massing indicating salient features of design and construction.

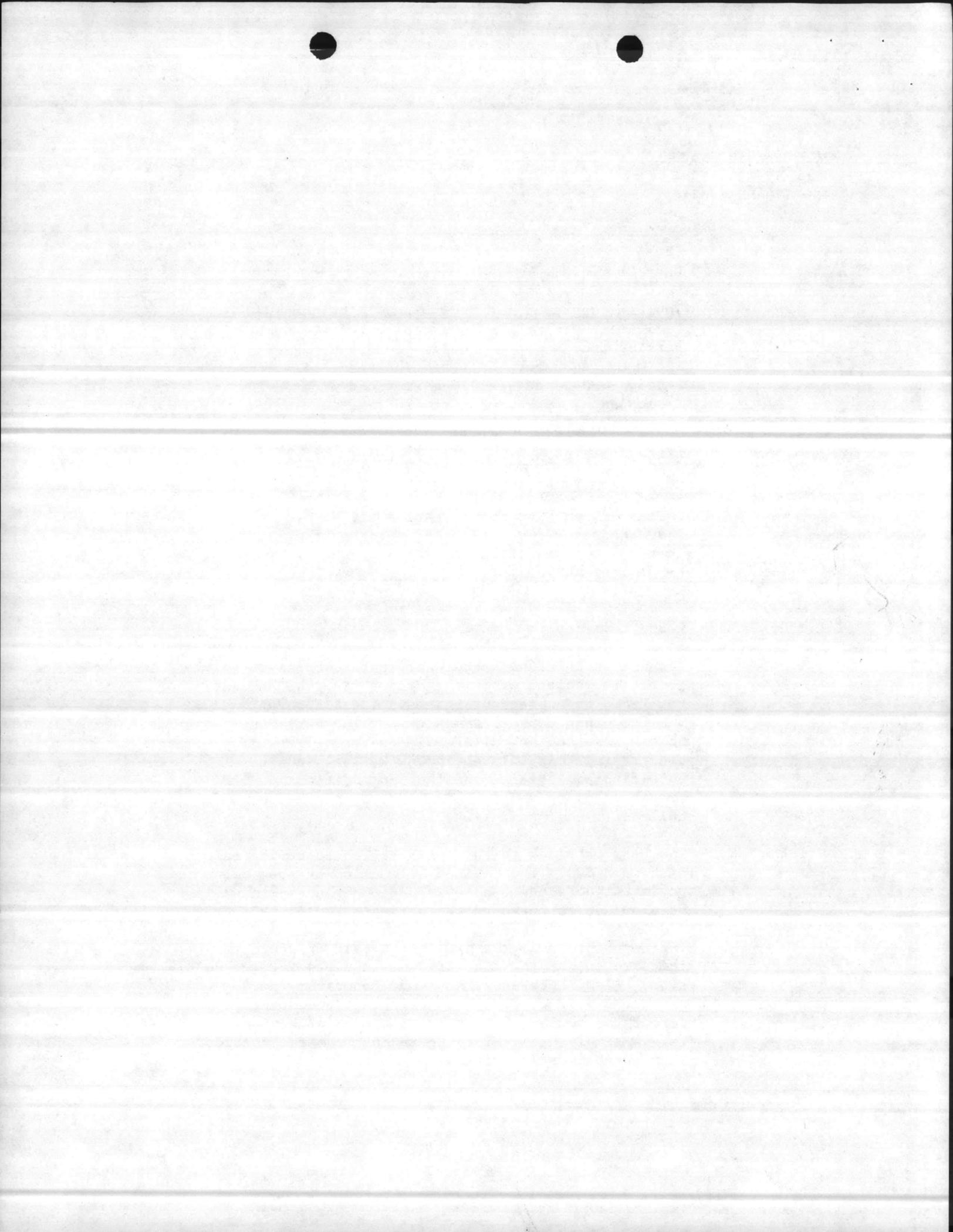


B.1.0 User Comments:

- 1.1 The User approved the site plan of the combined facilities with the sole exception of the number of parking spaces to be provided for each phase. The User requested that each increment (i.e., P-808, P-809, and P-810) be provided with 40 POV spaces each, for a total of 120 POV spaces.
- 1.2 The User approved the floor plans of each phase, with specific modifications to P-808 as indicated below. The User also requested the A/E to explore a way to incorporate office space for the school commander and his administrative staff into P-808 and/or P-809. [The A/E informed the user that no scope modifications were authorized for P-808 from LANTDIV].

C.1.0 P-808 Comments:

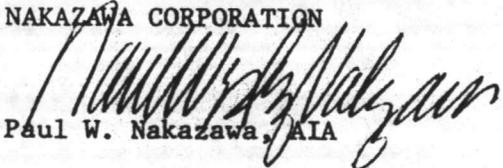
- 1.1 The A/E verified with the User that no built-in monorails, hoists or bridge cranes would be necessary for P-808 or subsequent phases. The A/E questioned the fact that no "A" frames or similar portable hoists were on the collateral equipment list. The User stated that this equipment was on hand in sufficient quantities and that no additional portable hoists would be included in the P-808 collateral equipment list.
- 1.2 The User provided to the A/E a sketch to revise one area of P-808. The revised allocation of area has no impact on scope. A revised P-808 floor plan will be provided to the User reflecting these changes.
- 1.3 The User informed the A/E that a pair of doors to the exterior of the facility was required for the AGARTS room. Also, Laboratory No.1 and Laboratory No.2 require a pair of doors of sufficient breadth to permit the moving of very large pieces of equipment (e.g., simulators). Turning radius from the corridor into these labs is critical.



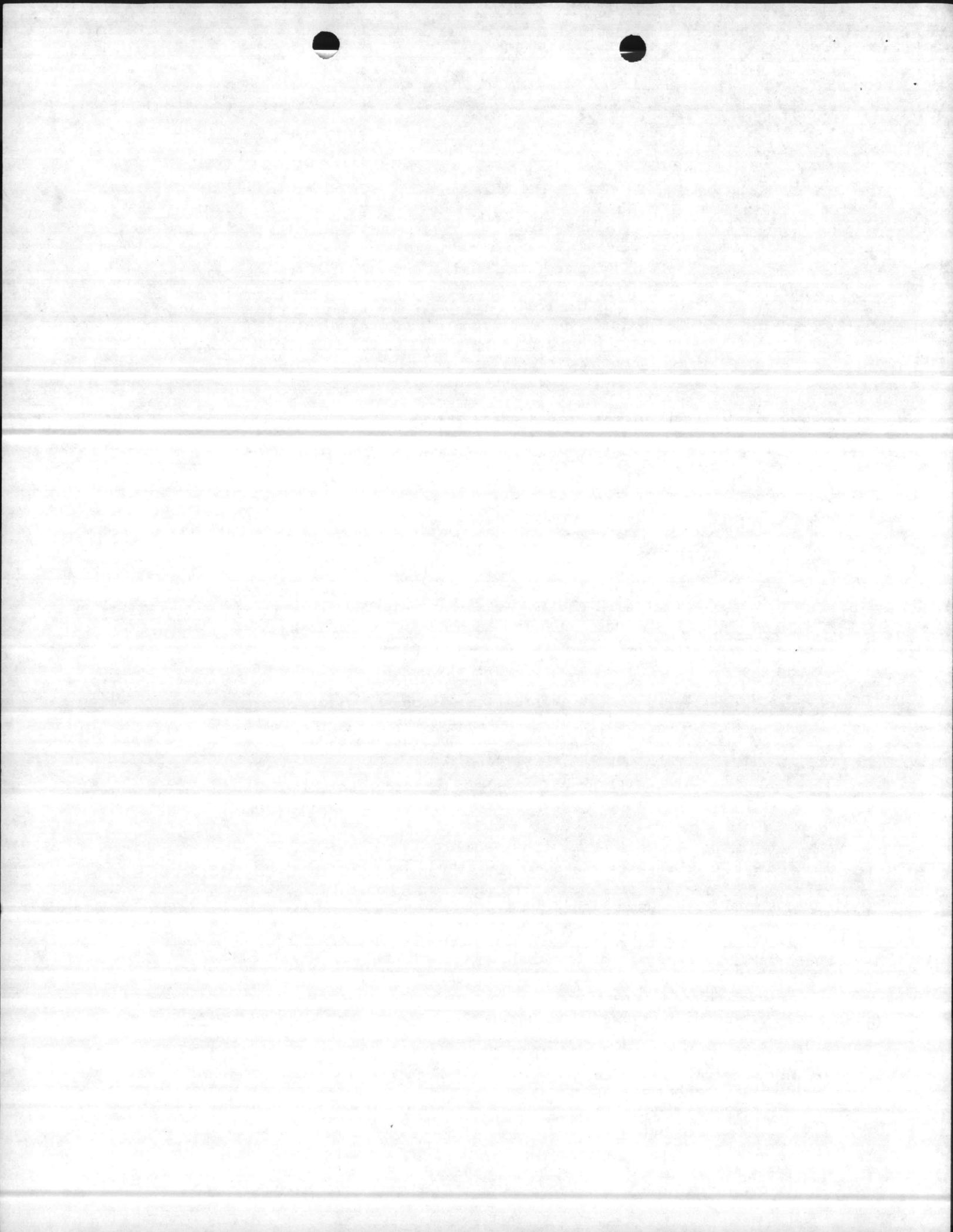
- C.1.0 P-808 Comments (Continued)
- 1.4 The A/E indicated to the User the location of a mechanical equipment room to be used primarily for domestic hot water supply, steam converter, telephone equipment and electrical distribution. The User concurs with the location.
- 1.5 Additional office space for the commander of the motor school and his administrative staff is not within the current scope for the P-808 project. The User is advised to pursue this matter through Public Works and LANTDIV for inclusion in a subsequent phase.
- D.1.0 ACTION ITEMS
- 1.1 User: Pursue request for additional administrative space with Public Works and LANTDIV so that it will be included in a future phase. The A/E has no authority to alter the scope of work. Direction must be given from LANTDIV.
- 1.2 User: Verify critical dimensions of simulators to be placed in Laboratory No.1 and No.2. A/E will provide sufficient clear openings to these spaces based on data provided.
- 1.3 A/E: Will provide to User revised plans based upon this meeting, including revision to site parking.

The foregoing represents the undersigned's understanding of the proceedings of the meeting. Please forward any additional comments, exceptions or corrections to the undersigned immediately.

For: NAKAZAWA CORPORATION


Paul W. Nakazawa, AIA

Distribution: All Attendees
Maxie Bryant, PE, LANTDIV
Y. Nakazawa, FAIA
Project File



NAKAZAWA CORPORATION

ARCHITECTS & PLANNERS
212 SOUTH TRYON STREET
CHARLOTTE, NORTH CAROLINA 28281
(704) 335-1184

MEETING NOTES

Date: Monday, September 24, 1984, 0830 Hours
Place: Public Works Office, Marine Corps Base
Camp Lejeune, North Carolina
Project: Applied Instruction Building, P-808, FY 86 MCON,
Montford Point Area, Marine Corps Base,
Camp Lejeune, North Carolina
Attendees:

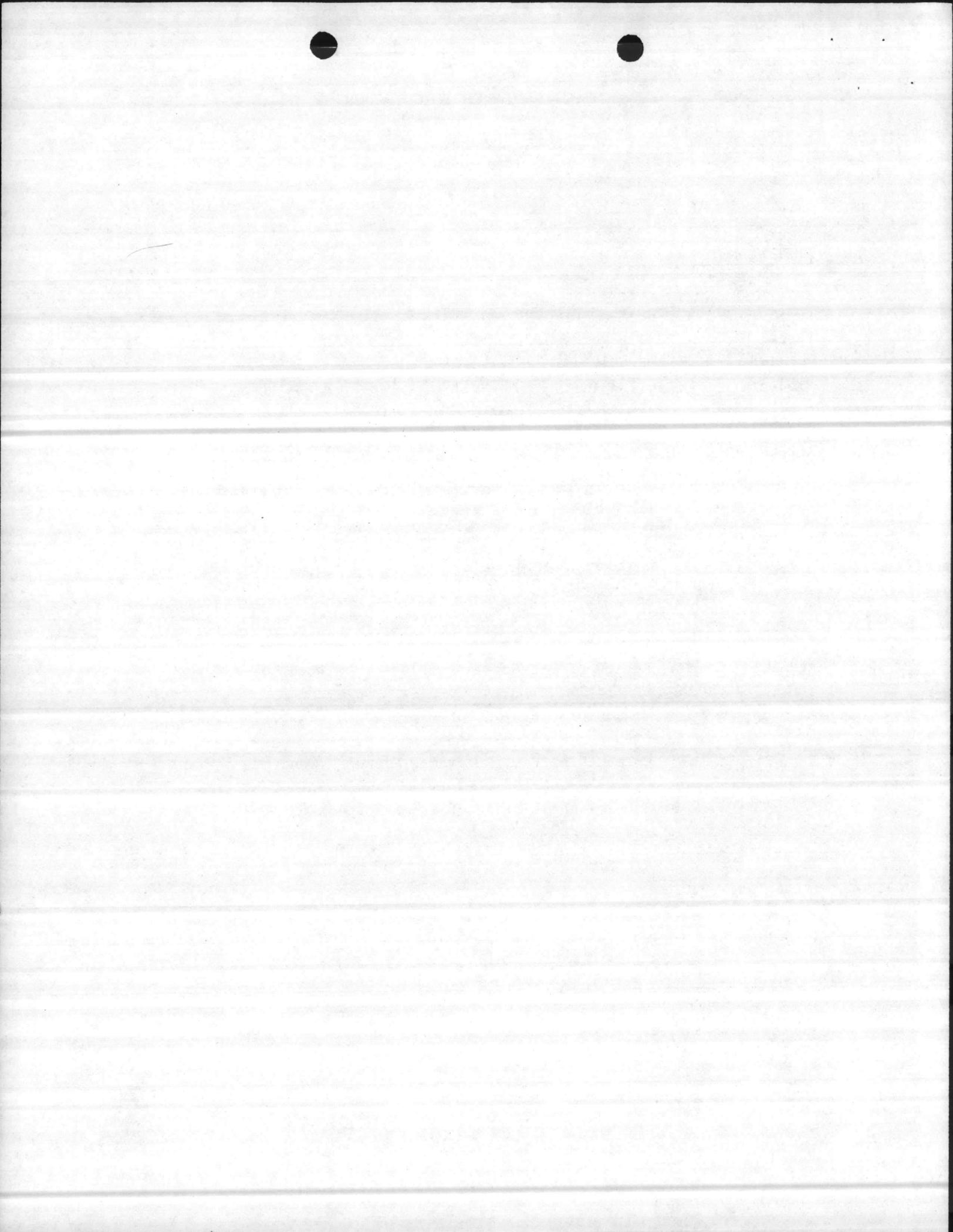
E.G. Jones, Manager, Planning Branch	919-451-1833
F.W. Estes, Jr., Public Works	919-451-1833
Lt. Col. Browning, MCSSS	919-451-0985
Capt. P.D. Greene, S-4, MCSSS	919-451-0973
Capt. T.L. Kassab, AO MTSCOL, MCSSS	919-451-0946
G. Ash, TRNG SPEC, MCSSS	919-451-0923
P.W. Nakazawa, AIA, A/E	704-335-1184
M.B. Nikich, AIA, A/E	704-335-1184
C. Niedziela, PE, A/E	704-335-1183

Agenda:

- A. Review of Pre-Schematic Plans Submitted to A/E by User.
- B. Review of A/E Plan for P-808 and Overall Plan for P-808/P-809/P-810.
- C. Comments by User Regarding Planning Concepts & Plans Presented by the A/E
- D. Summary and Listing of Items for Action
Adjournment
- E. A/E Site Visit & Collection of Documents

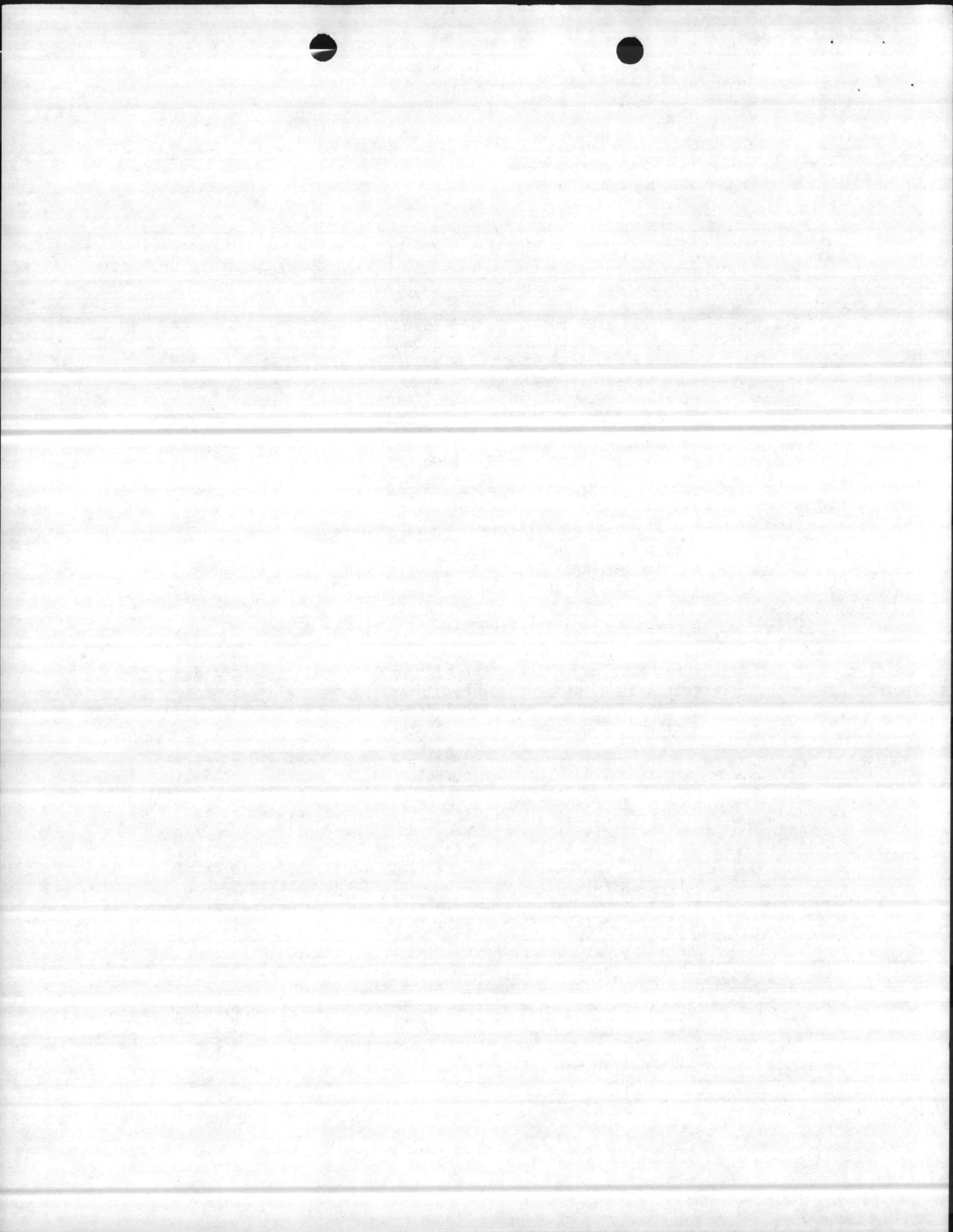
Continued .../

APPENDIX B



- A.1.0 Reviewed diagramatic plans as submitted by the User to LANTDIV and the A/E (23 APR 84) for P-808, P-809, P-810.
- B.1.0 A/E presented two schematic plans (SK-1, SK-2, Dated 1 October 1984) hereafter attached for record. SK-1 depicts proposed plan for P-808. The A/E noted that some modifications would be made, viz.: 1) Rearrangement of the AGARTS, F&E Classroom, Training Aids, and Laboratory No.1, so that these spaces are contiguous to academic classrooms and Laboratory No.2; 2) Consolidate toilet facilities, eliminating the second men and women's toilet rooms; 3) Reconsideration of mechanical equipment room locations and space requirements. SK-2 depicts the proposed overall planning scheme for P-808, P-809 and P-810. The A/E noted the flexibility of this concept for future additions to P-808, functional development in relation to the plans submitted by the User, and cost justifications for the proposed plan.
- C.1.0 Discussion and User Comments
- C.1.1 [SK-2] User concurs with the A/E that the open buffer zones provided between the high bay laboratories containing vehicles and component laboratories is desirable from the standpoint of acoustical separation and controlled movement of personnel through the facility.
- C.1.2 [SK-1] Number and required dimensions of overhead doors was discussed. The user stated that the present facilities provide poor accessibility for vehicles to the instructional laboratories. The user desires sufficient access in the new facilities to enable vehicles to be readily moved into and out of laboratories for test drives, etc. Furthermore, the user requires that the facility access openings be of sufficient dimension to accommodate large vehicles, such as the Dragon Wagon. Minimum width for overhead door openings is 12'-0" clear (High bay vehicle labs only.)
- C.1.3. [SK-1] Access to component labs was discussed in terms of three options: 1) Overhead Doors; 2) Pair of Hollow Metal Doors; 3) Knock-out Panel. The A/E does not recommend the third option for reasons of functionality, maintenance and cost. User will advise A/E of the desired access dimensions to the component laboratories, and the A/E will analyse alternatives.

Continued .../

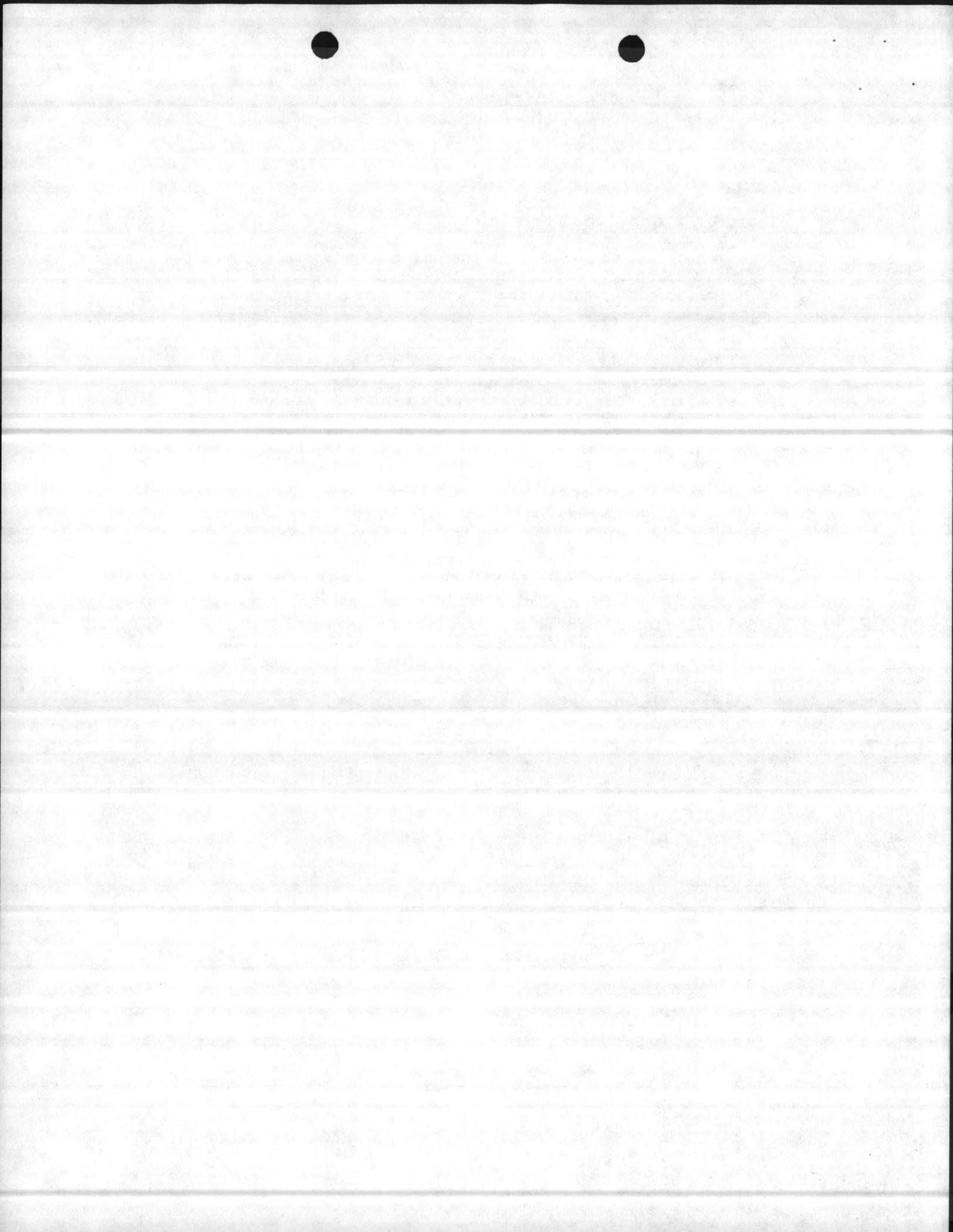


- C.1.4. A/E informed User that internal circulation (i.e., enclosed corridors) was kept to a minimum in order to allocate as much space as possible to the instructional areas. Enclosed circulation is not provided between many areas, but the User concurs with the A/E that there is no necessity for such connections.
- C.1.5. Handicap Provisions: The User requested that minimal provisions be made for handicapped persons since only able bodied personnel are normally in attendance at the facility. A/E will design for classroom access and toilet facilities only.
- C.1.6. Toilet Fixtures: A/E to assume population distribution of 75% Men and 25% Women for fixture count.
- C.1.7. Parking Requirements: A/E was directed to assume no student parking on the site and full instructional staff parking. User will provide A/E with number of spaces required.
- C.1.8. New Site Access Roads: New access road from Montford Landing Road will align with new access road (presently under construction) to UEPH project to the North.
- C.1.9. A/E requested from user a complete and current Collateral Equipment List, together with work module layouts. This will permit the A/E to properly plan and dimension rooms for each function.

D.1.0. ACTION ITEMS:

D.1.1.	<u>Item</u>	<u>Who Provides</u>	<u>By (Date)</u>
	Collateral Equipment List with phase identification and room locations.	User [Ash]	8 OCT 84
	Work/Equipment Modules.	User [Ash]	8 OCT 84
	Facility Populations for P-808, P-809, P-810.	User [Browning]	8 OCT 84
	Parking Requirements for P-808, P-809, P-810.	User [Browning]	8 OCT 84
	Minimum Access Dimensions to Laboratories & Instructional Areas.	User [Ash]	8 OCT 84
	Environmental Assessment for Revised PED.	Public Works [Jones/Estes]	8 OCT 84

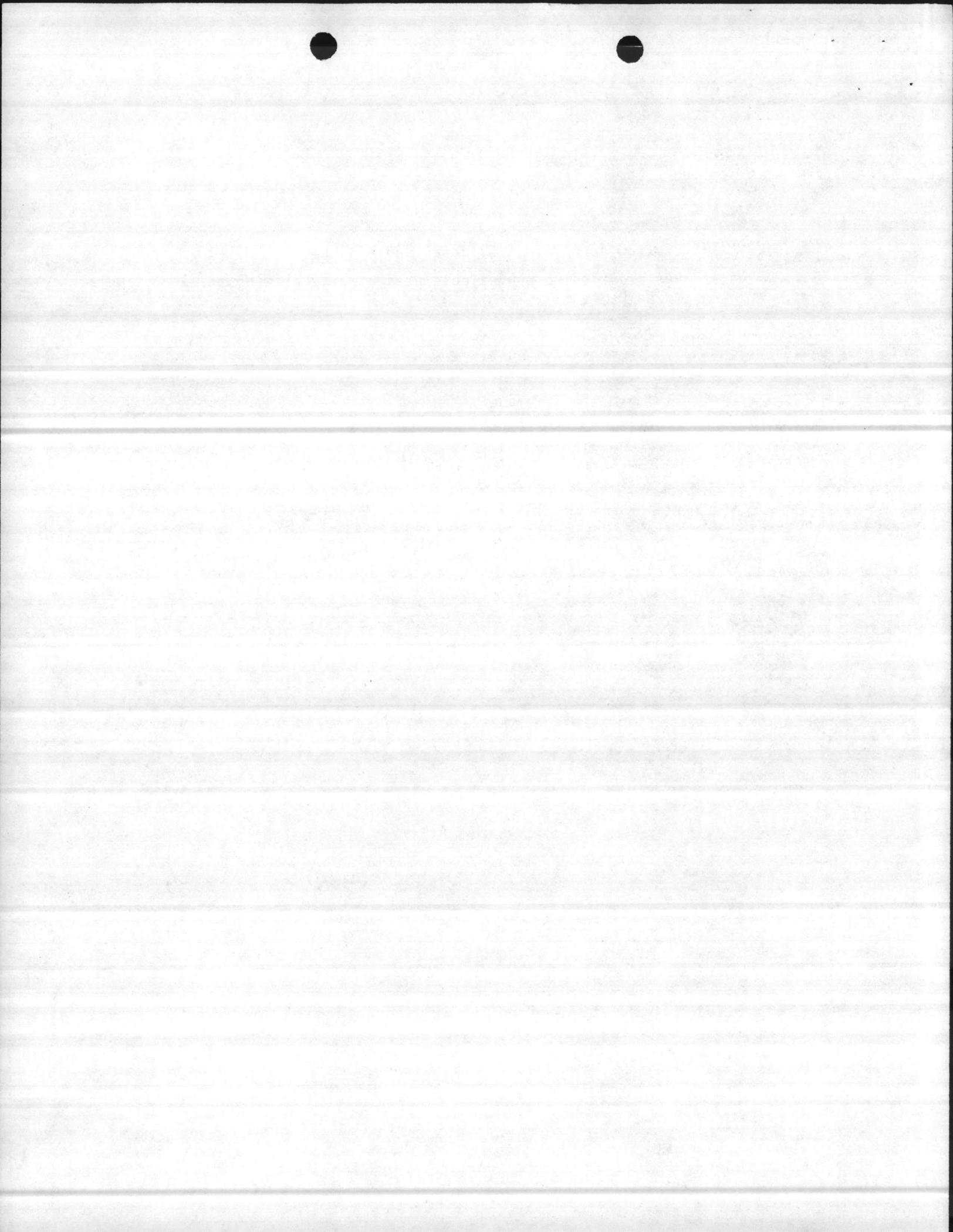
Continued .../



- E.1.0. A/E visited site with E.G. Jones and F.W. Estes.
 - E.1.2. A/E was provided with available area utility drawings from Public Works files.
-

Distribution: Attendees
Maxie Bryant, PE, LANTDIV
Project File

Please forward in writing any additions, changes or dissensions from the foregoing to the A/E.





HARLAND BARTHOLOMEW & ASSOCIATES, INC.

PLANNING • ENGINEERING • LANDSCAPE ARCHITECTURE

October 17, 1984

RECEIVED

OCT 19 1984

NAKAZAWA CORPORATION

Mr. Y. Nakazawa
President
Nakazawa Corporation
212 South Tryon Street
Charlotte, NC 28281

RE: Master Plan Update, Marine Corps Base, North Carolina

Dear Mr. Nakazawa:

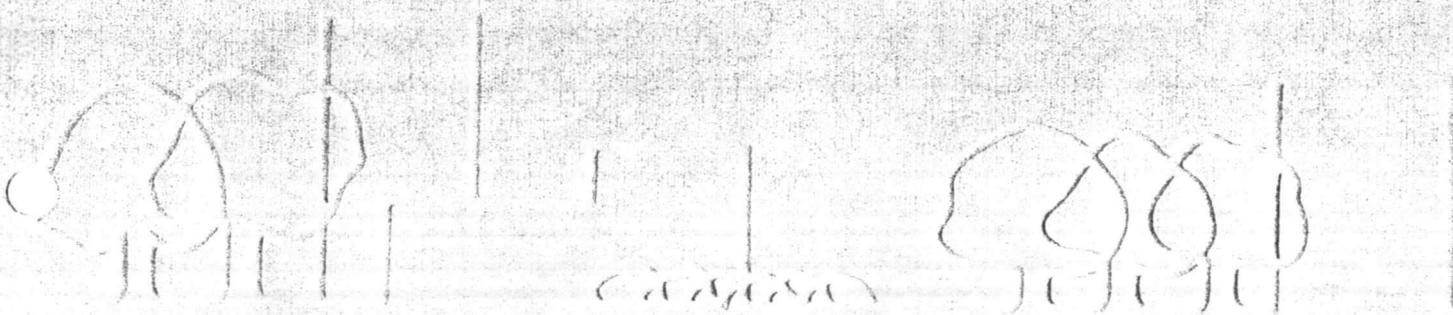
This letter is in response to your request for review and comment on the proposed site development plan, dated October 12, 1984, for Applied Instruction Building, project numbers P-808, P-809 and P-810 at the Marine Corps Base, Camp Lejeune, North Carolina.

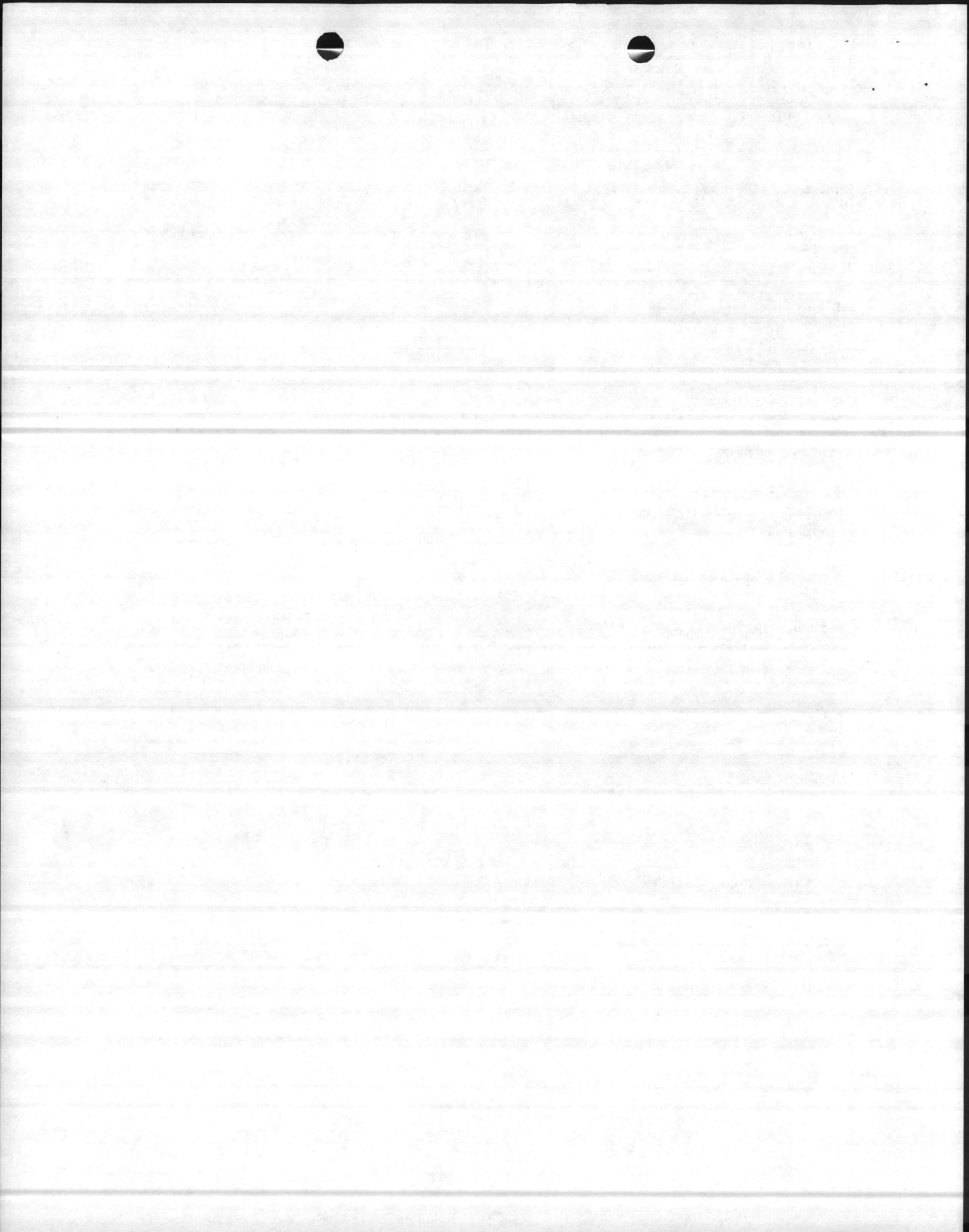
The proposed site development plan conforms with the preliminary Master Plan concept for Montford Point in terms of site location and size. It is my understanding that the final orientation of the project as indicated on this site development plan will be shown in accordance with base grid maps.

Sincerely,

George E. Hull
Project Manager

APPENDIX C





BASIS OF DESIGN - CIVIL
APPLIED INSTRUCTION BUILDING
CAMP LEJEUNE, NORTH CAROLINA

1. GENERAL

This project is located in a generally remote and wooded area of the base several hundred feet from existing paved roads. This will require long access roads to be constructed into the site for ingress and egress and will also necessitate long runs of associated utilities.

2. ROADS AND PARKING

Preliminary soil investigation reports indicate poor conditions and some extra preparation will be necessary for subgrades. All roads and parking lots will be constructed on a suitably prepared subgrade with a stone base and asphalt paving. Curb and gutters will be used within the parking lots but no curbs or sidewalks will be used on the ingress and egress roads.

3. WATER DISTRIBUTION

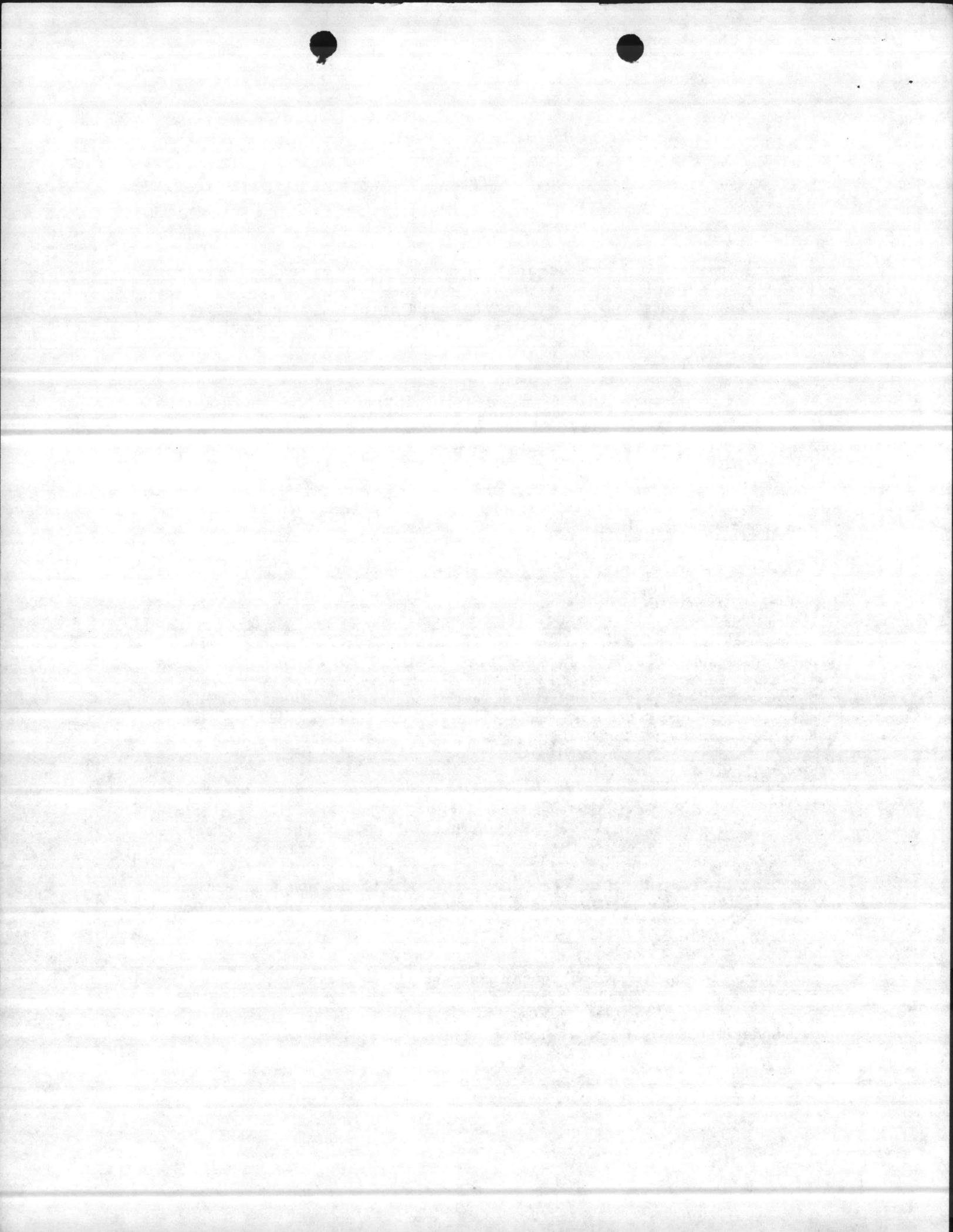
There is an existing 10" water line on Hoover Road to the south of the project and an existing 8" water line along Montford Landing Road to the east. We will serve the new complex by connecting an 8" line to the existing 10" water line at Hoover Road and running to the north along the new road to the complex. This line will continue pass the complex and loop back into Montford Landing Road where a connection will be made with the existing 8" line. This will provide a complete looped system and will also provide water service for future buildings that may be constructed in the area. Fire hydrants will be placed at intervals along the new loop.

4. SANITARY SEWERS

There are no existing gravity lines in the area that are deep enough to serve this new complex without a sewage pumping station. We will construct a new sewage lift station in a central location that will serve all phases of the planned construction and run a 4" or 6" diameter force main south along the new road to Hoover Road and then to an existing manhole adjacent to Building M129.

5. STORM DRAINAGE

There is an existing large drainage ditch running through the property and this ditch will be filled and rerouted along the edge of the new roads. Drop inlets will be constructed within the parking lot with underground piping to the existing ditch outfall. Roadside ditches will be used along the new access roads for drainage.



BASIS OF DESIGN - MECHANICAL/ELECTRICAL
 APPLIED INSTRUCTION BUILDING
 CAMP LEJEUNE, NORTH CAROLINA

STEAM: Sizing of steam requirements for phases I, II and III. (includes heat loss and ventilation).

Phase II	400#/Hr
Phase II & III	<u>1,100#/Hr</u>
 TOTAL REQ'D	 1,500#/Hr (5# Steam)

Pipe Sizes - 4" diameter supply
 2 1/2" diameter condensate return

ELECTRICAL: Electrical power requirements for phases I, II and III.

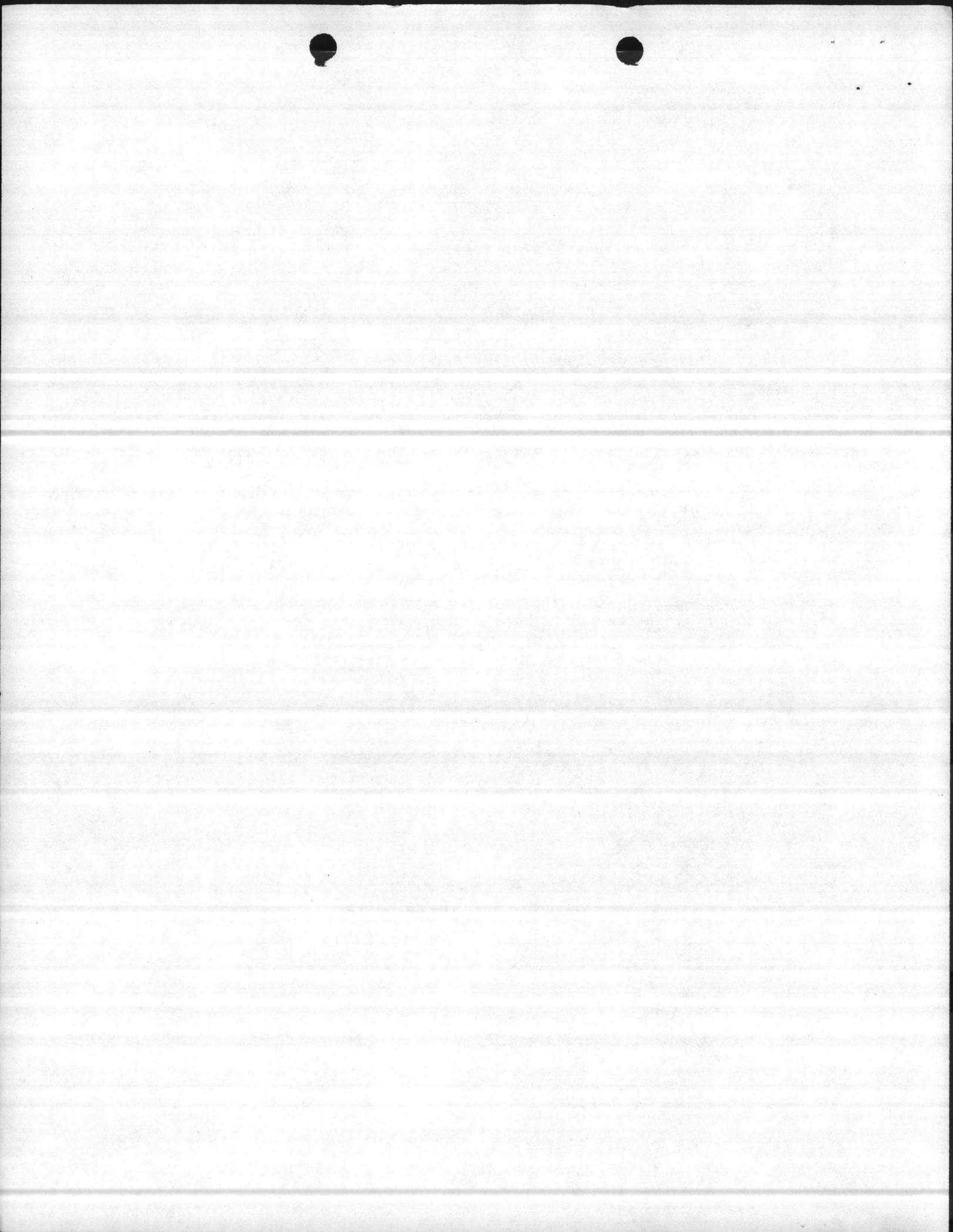
Phase I:	HVAC - 43T. x 2.1KW =	90KW
	Lighting 27,000SF x 2.0W/SF =	54KW
	Power 27,000SF x 1.0W/SF =	27KW
	Equipment (Pumps, Etc.) =	<u>10KW</u>
	TOTAL PHASE I	<u>181KW</u>

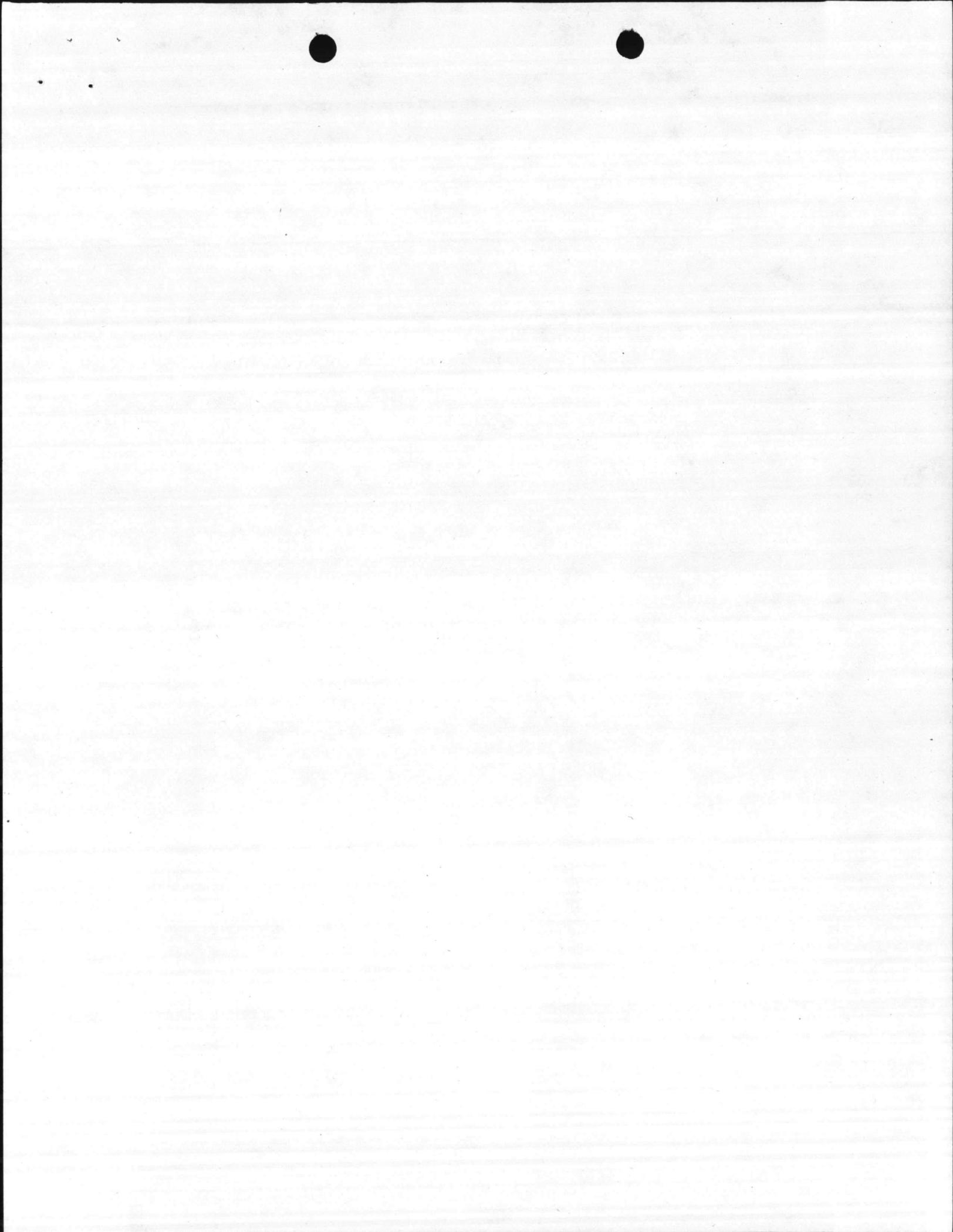
Phases II & III:	HVAC - 130T.x 2.1KW =	271KW
	Lighting 72,000 x 2.0W/SF =	144KW
	Power 72,000 x 1.0W/SF =	<u>72KW</u>
	TOTAL PHASES II & III	<u><u>487KW</u></u>

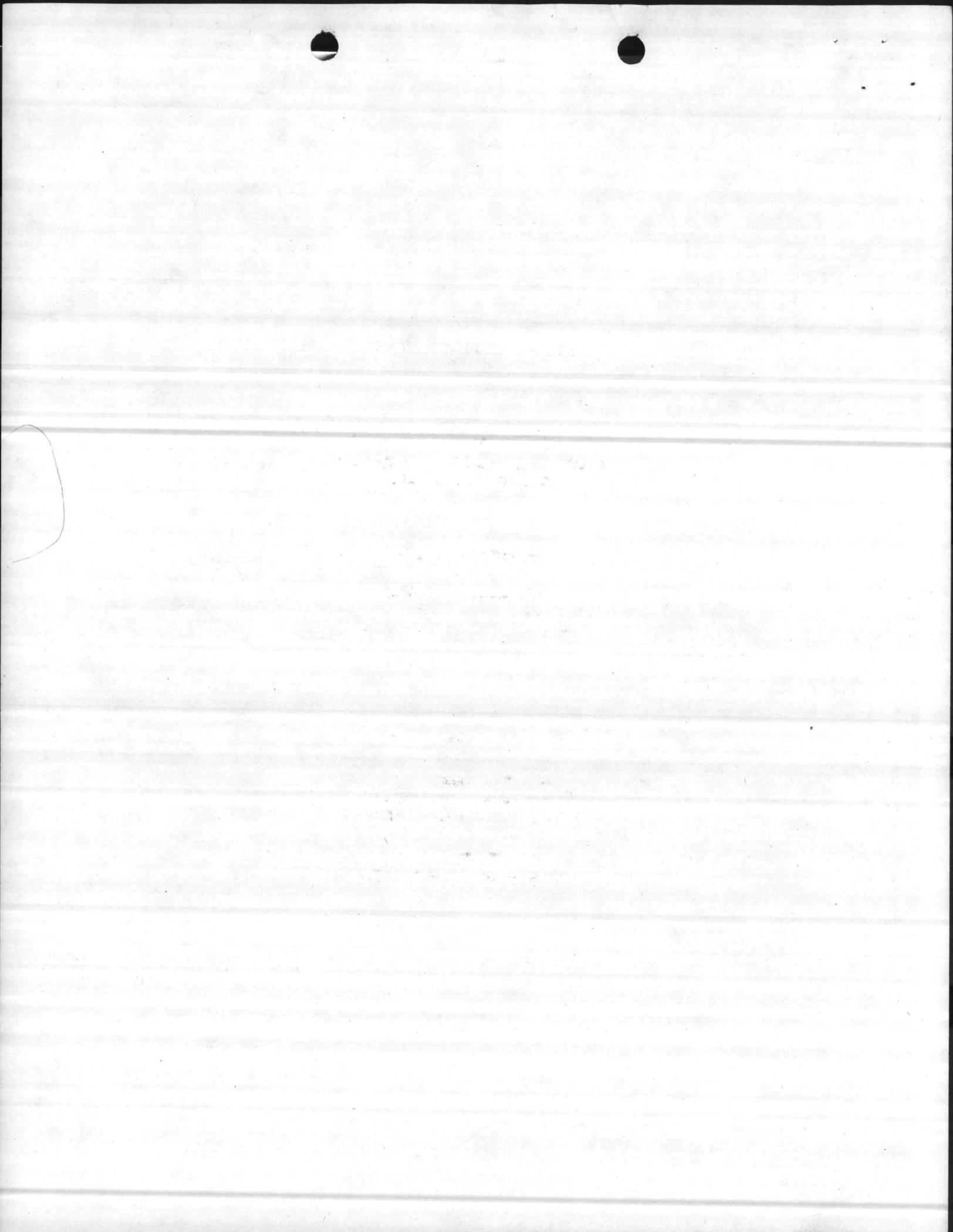
Assume Diversity of 75%

	Phase I =	181KW
	Phases II & III =	<u>487KW</u>
	TOTAL	<u>668KW</u>

668 x 75% = USE 500KVA







11010
PWO
14 FEB 1986

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commandant of the Marine Corps (LPS-3)

Subj: COLLATERAL EQUIPMENT REQUIREMENTS FOR FY-86 MILITARY CONSTRUCTION
PROJECTS

Ref: (a) MCO P11000.12B

Encl: (1) LANTDIV NORVA 4-11010/6 Collateral Equipment Requirements List
for P-806, Light Armored Vehicle Maintenance Facility, dtd
6 Feb 86
(2) LANTDIV NORVA 4-11010/6 Collateral Equipment Requirements List
for P-808, Mechanics Training Building (Increment 1) dtd 6 Feb 86

1. In accordance with the guidelines established by the reference, enclosures (1) and (2) are forwarded.
2. The building occupancy date for the two projects is October 1987, therefore, funding in the amount of \$162,030 (\$98,938.00 for P-806 and \$63,092 for P-808) is requested this quarter.
3. Request funding document be addressed to this Command's Assistant Chief of Staff, Comptroller, with copies to the Assistant Chief of Staff, Logistics and the Assistant Chief of Staff, Facilities.

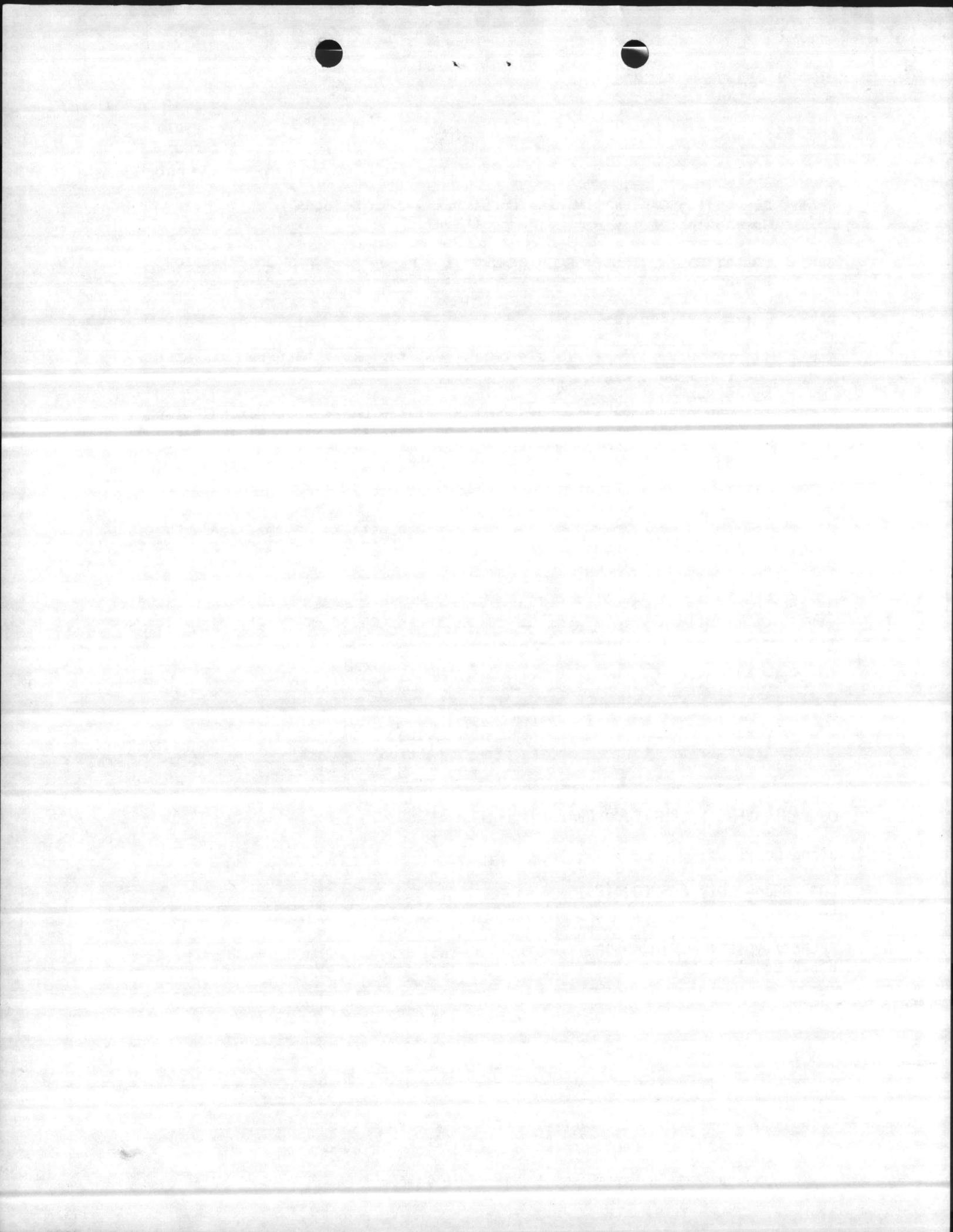
R. A. TIEBOUT
By direction

Copy to:
COMLANTNAVFACENCOM (Code 09A23A)

Blind copy to:
FAC
LOG (Budget Div & BPCO) (2)
COMP

Author/Typist: M. Thompson
6 Feb 86, 1833

408
105



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

DATE 6 Feb 86

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

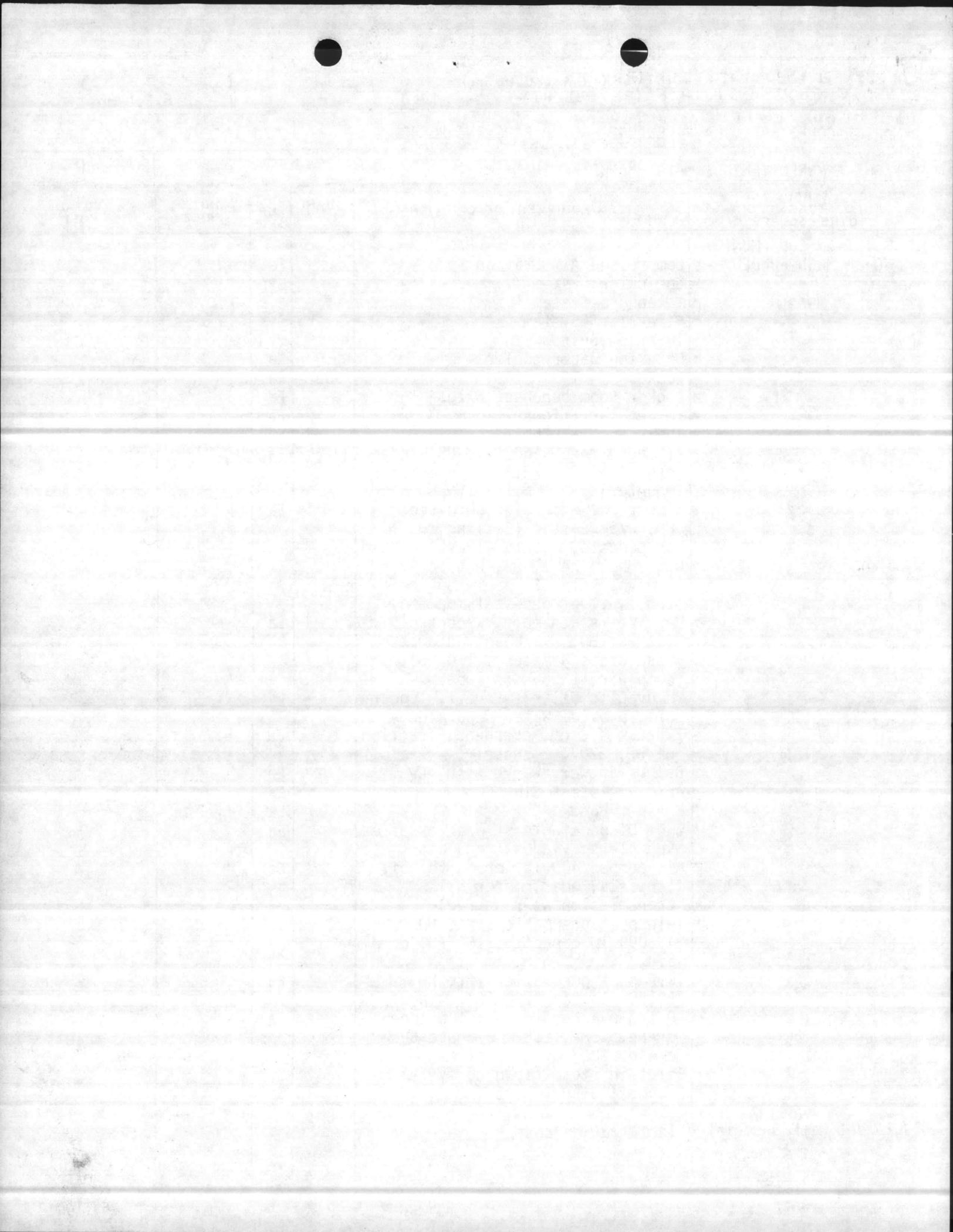
2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO. P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. BUILT-IN EQUIPMENT TO BE MCON FUNDED:	* Compressed Air Station		Ea		
	* Sprinkler System		Sys		
	* Telephone System		Sys		
	* Fire Alarm System		Sys		
	* Intercom System		Sys		
	* Drinking water coolers	10	Ea		
	* Lockers	900.	Ea		
	* Locker Room benches, 6'lg.		Ea		
	* Toilet partitions		Ea		
	* Chalk and Tack boards		Ea		
	* Air hose reel, 150 PSI, HD w/hose stop (ceiling wall, or pedestal mounted)		Ea		
	* Electrical extension cord reel HD, w/cord stop (ceiling, wall or pedestal mounted) 120V, 1 phase		Ea		
	* Water hose reel, HD, w/hose control valve & hose stop (ceil- ing, wall or pedestal mounted)		Ea		
	* Hose reels assembly, w/control valves, HD, overhead, automatic hose stops & meters, 150 PSI, comp air, 1 chassis lube, 1 hydraulic oil, 2 mtr oil, 1 gear oil, provide water separator		Ea		
	* Exhaust system, overhead, fraction- al HP, 220V, 3 phase		Ea		
	* Deluge Shower, w/eye wash, CW		Ea		
	* Acid Resistant Sink CW		Ea		
	* Exhaust Hood		Ea		
	* Lube Dispensing eqpt w/accessories (couplers, vlaves, regulators etc)		Ea		
	* Air pumps, 400 lb. drums for oil (chassis, gear, motor oil, transmission as required)		Ea		
	* Twin post pneumatic lift, HD 43,000 lb capacity, 150 PSI comp air		Ea		
	* Twin post pneumatic lift, HD 30,000 lb cap. 150 PSI comp air		Ea		
	* 10 ton overhead monorail bridge crane, 15HP, 208V, 3 phase 60 cycle, 120V power controls		Ea		
	* Built-in steam cleaning system		Sys		
	* Counter, dispatchers		Ea		

*Equipment with associated installation cost.

ENCL ()



1. ACTIVITY (Name and Location)

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

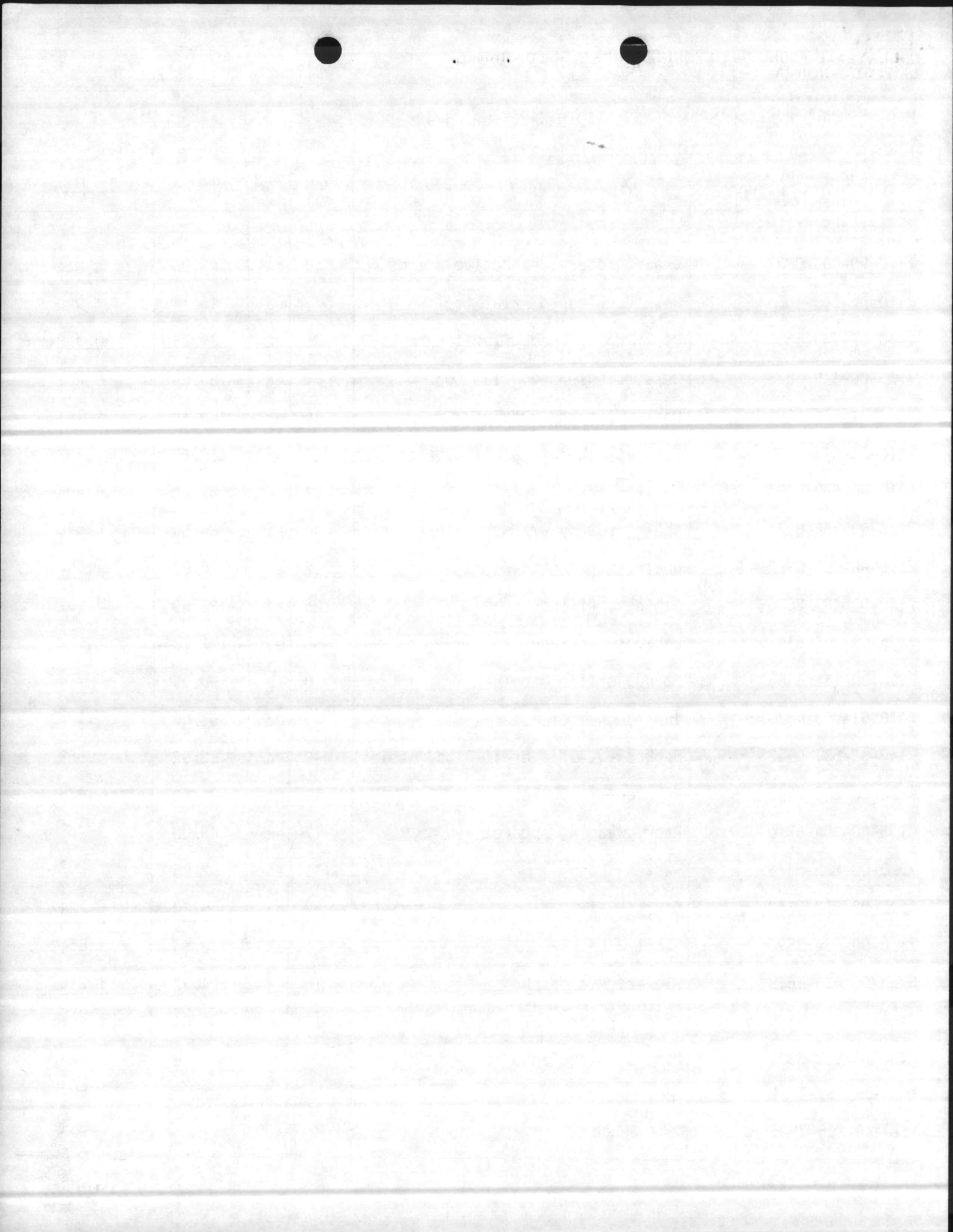
2. PROJECT TITLE

LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO.

P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS					
7110-00-C00-0387	Chair, rotary, executive w/arms	8	ea	543.00	4,344
7110-00-149-1631	Desk double ped, flat top	7	ea	245.74	1,720
7110-00-149-1630	Desk, double ped, flat top	36	ea	234.23	8,432
7110-00-149-1628	Desk, single ped, flat top	30	ea	180.09	5,402
7110-01-015-1361	Desk, flat top 60"x30"	16	ea	199.44	3,191
7110-01-016-7147	Desk attachment, gen'l clerical	16	ea	132.93	2,127
7110-00-082-6231	Chair rotary w/arms	51	ea	87.45	4,460
7110-00-958-8044	Chair, rotary w/arms	44	ea	64.60	2,842
7110-00-602-0322	Chair, straight, w/arms	12	ea	90.00	1,080
7110-00-497-2506	Cabinet, filing	25	ea	135.49	3,387
7125-00-764-6141	Cabinet, storage	58	ea	132.70	7,697
7110-00-151-6485	Stand, office machine	8	ea	90.00	720
7430-01-023-0678	IBM Typewriter	9	ea	567.00	5,103
7110-00-601-9822	Bookcase, 48" overall 2 adj shelves	49	ea	82.92	4,063
7125-00-285-3049	Key locker, 96 key	14	ea	34.00	476
7195-00-004-6716	Rack, wearing apparel	17	ea	45.00	765
7520-00-285-5416	Wastebasket	71	ea	2.85	202
6645-00-530-3342	Clock, wall	27	ea	8.20	221
7110-00-634-8596	Stool w/back	61	ea	30.56	1,864
6730-00-116-1618	Viewer, Microfiche	10	ea	124.57	1,246
7460-01-071-3680	Stand, rotary, microfiche	15	ea	80.04	1,201
7460-01-049-6381	Panels, microfiche	800	ea	3.46	2,768
3415-00-517-7754	Grinder	8	ea	100.93	807
4910-00-205-3046	Work bench	2	ea	392.04	784

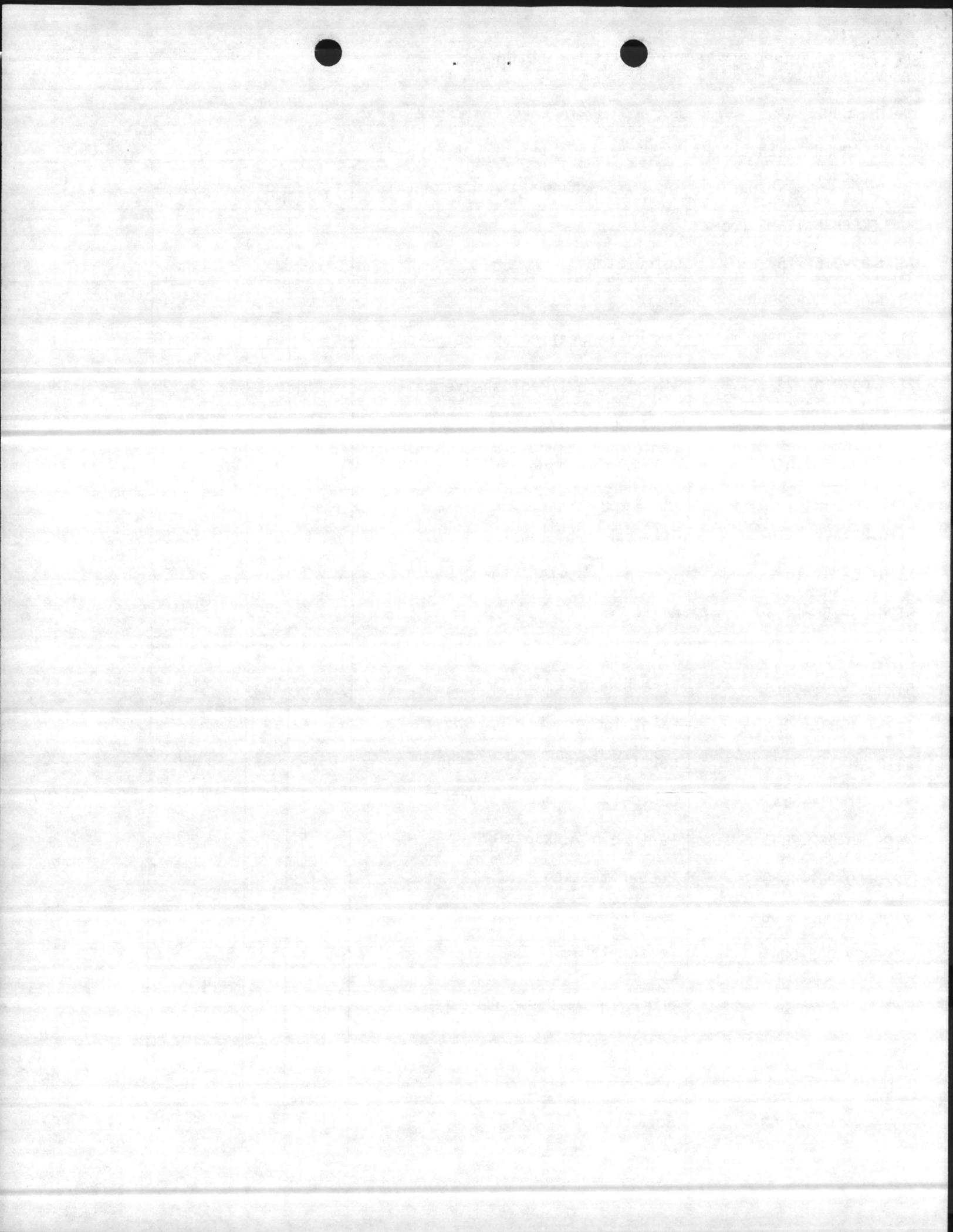


1. ACTIVITY (Name and Location)
 MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO.
 P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS (cont'd)					
7420-01-016-7752	Calculator	3	ea	165.17	496
7910-00-680-8296	Buffer	3	ea	185.44	556
7195-00-242-3503	Costumer, wearing apparel 4 dbl hooks	2	ea	55.00	110
7125-00-270-7722	Bin storage 17 adj shelves	5	ea	235.90	1,180
4110-00-029-0392	Refrigerator, compact	1	ea	263.00	263
3415-00-517-1050	Grinding machine, drill	1	ea	1,374.44	1,374
7110-00-113-0454	Table, office	9	ea	110.04	990
7110-00-497-1829	File cabinet, legal	6	ea	150.50	903
7110-00-149-1659	Credenza, style A, parchment	3	ea	340.39	1,021
5120-00-756-1418	Anvil	2	ea	264.00	528
7110-00-634-9618	Stool	3	ea	39.30	118
5120-00-293-0110	Vise bench	2	ea	460.00	920
7125-01-084-6954	Paint locker	2	ea	500.00	1,000
4110-00-879-0006	Refrigerator	3	ea	100.00	300
7125-01-084-6955	Cabinet, flammable storage	4	ea	419.02	1,676
7125-00-062-7894	Parts bin 72"x36"x18"	6	ea	348.42	2,091
7220-00-267-4630	Rubber matting	75	yd	7.60	570
7105-99-005-0006	End table	2	ea	104.00	208
7105-99-005-0004	Coffee table	2	ea	56.50	113
GSA	Safe, 2 drawer GSA approved	2	ea	approx 350.00	700
4940-00-449-6689	Degreaser	9	ea	939.00	8,451
3415-00-517-7754	Grinder, utility	1	ea	104.63	105
7115-99-005-0003	Sofa	1	ea	285.00	285

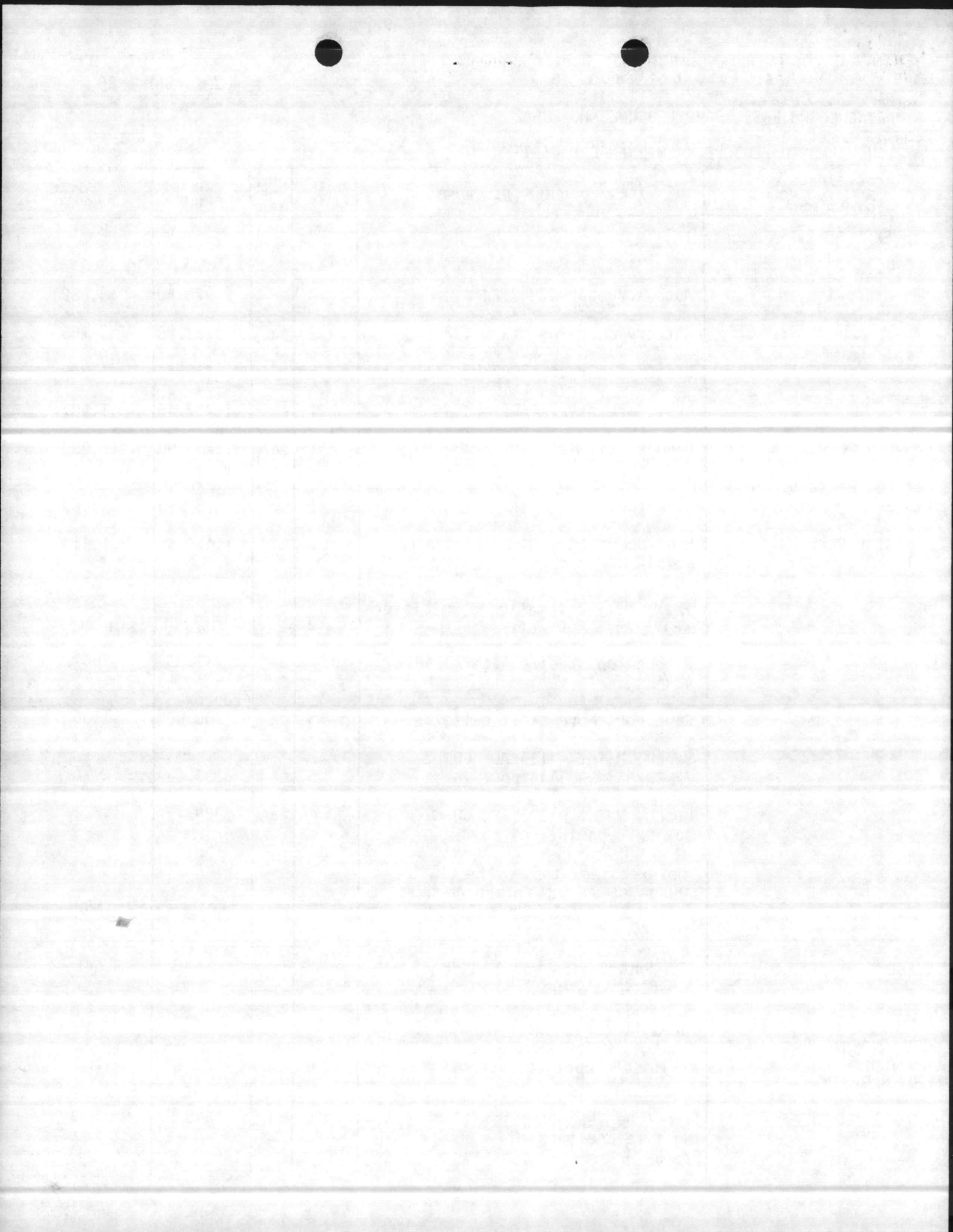


1. ACTIVITY (Name and Location)
 MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO
 P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS (cont'd)					
McMaster Carr Supply Co New Brunswick, NJ	Auto scrubber #7260T21	4	ea	2,020.40	8,082
	Battery charging stand #7239K1	3	ea	234.08	703
	Battery charger #7047K5	3	ea	416.44	1,249
	Drill press #2774A81	1	ea	1,407.46	1,407
	Band saw #3981A21	1	ea	1,735.00	1,735
Jet Co, Bernard, MD CK-38	Clamping set	1	se	59.95	60
McMaster Carr	Hand operated slip roll machine #2438A32	1	ea	1,414.49	1,414
"	Heavy duty automatic dehumidifiers #2176K21 650 watts	4	ea	352.50	1,410
"	Ribbed top steel pallet #8748T2 42x48	5	ea	113.33	567
	Cage for above steel pallet	5	ea	approx 100.00	500
"	Bench, Maint w/115VAC, 60 HZ 72x30x36 #9088T14 pg 151	5	ea	393.49	1,967
"	Bench, Maint w/115VAC, 60 HZ 96x30x36 pg 151	4	ea	430.43	1,722
	Deluxe steel top workbench 20 guage steel top formed down 1½" & under 1" 96x36x35"H #4754T83 pg 147	1	ea	507.50	508
VIRCO	Student chairs model 7020 #485-6, Navy Blue	120	ea	30.35	3,642
Walter M. Ballard Co. 7705 Georgia Ave. NW Washington, DC (202)829-1181	Three tier racks:(Lyon metal parts) #7501 48"Wx16½"Dx84"H #7531 84"H upright assembly	8	ea	66.55	532
		8	ea	20.65	165
4910-00-190-5235	Tire Tube Leak Detector (Tank test- ing tire and tube S/S B-14	1	ea	849.00	849



1. ACTIVITY (Name and Location)

MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

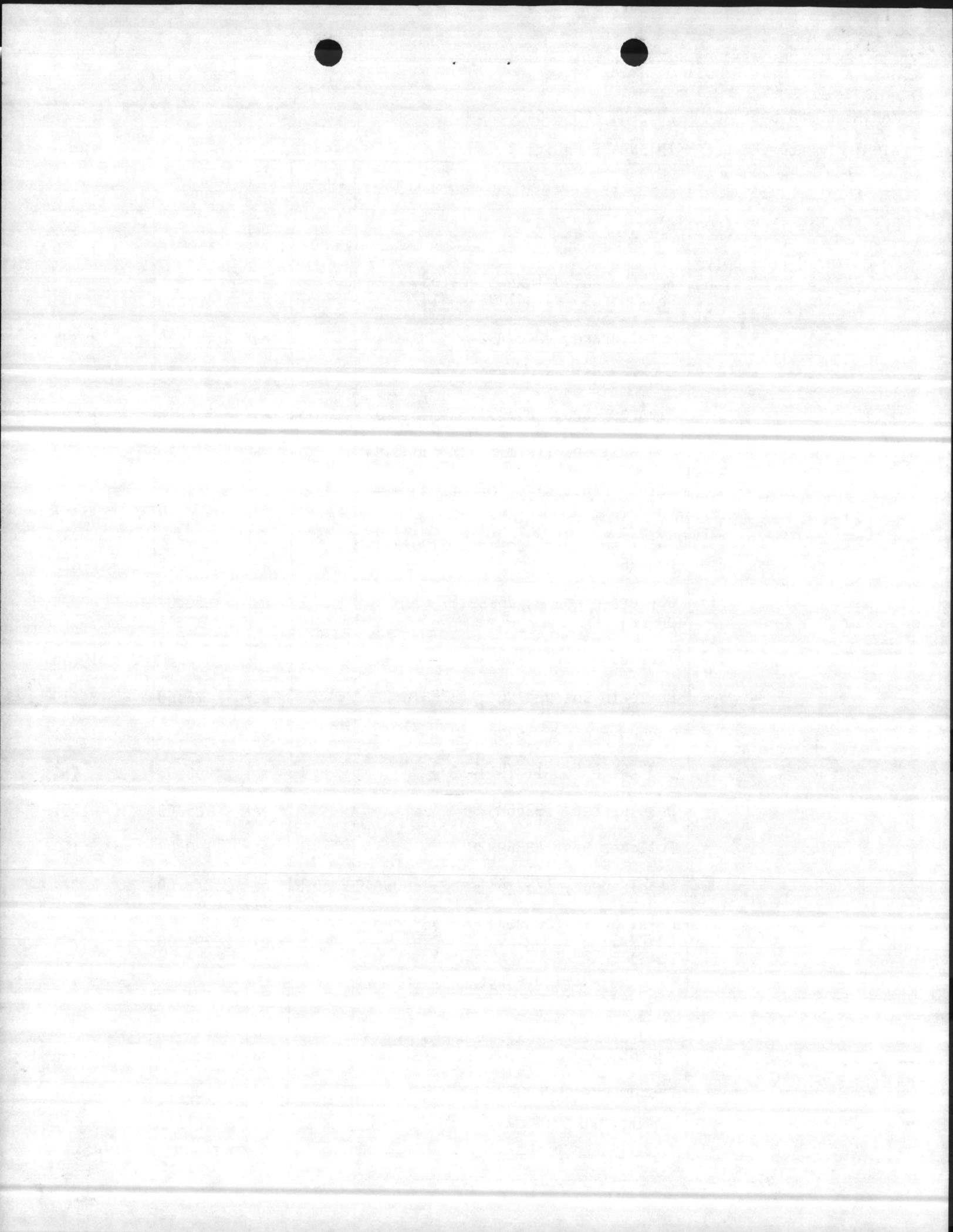
2. PROJECT TITLE

LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO.

P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS (cont'd)					
Mc Master Carr Supply CO., New Brunswick, NJ	Work bench, deluxe steeltop 96"x36"x35 #4754T83, pg 147	1	ea	507.50	508
"	Metal brake, #2437A32	1	ea	2,794.40	2,795
"	Power metal sheer #3809A40	1	ea	2,373.69	2,374
"	Platform truck #9839T15	5	ea	318.18	1,591
"	Hydraulic platform truck #9838T44	3	ea	612.26	1,837
"	Safety cage, tire inflation #6738A14	3	ea	373.75	1,121
"	Self contained lectern #5198T21 pg 525	2	ea	416.67	833
"	Dry erase board, #5929T27 pg 621	2	ea	250.00	500
"	Tire cage #6738A16	2	ea	818.00	1,636
"	Bulletin Board 4'x6', #5768T6	32	ea	75.60	2,419
"	Vacuum cleaner #6389T14	7	ea	497.34	3,481
"	Dog set #3283A11 (1/2" - 3")	1	se	263.93	264
"	Dead center #3266A5	2	ea	25.60	51
"	Follower Rest #3369A26	1	ea	190.00	190
"	Metal shear, 1/8"x8' cap. #3809A40	1	ea	2,373.69	2,374
"	Metal brake (bender) 1/8"x8' cap #3427A32	1	ea	2,794.00	2,794
"	Diamond wheel dresser #4370A12A12	1	ea	64.34	64
"	Bead blaster 24"x19"x15" #3146K15	1	ea	456.30	456
"	Vacuum hose, #629T31	6	ea	109.42	657
"	Chalkboard #5929T27	1	ea	250.36	250



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

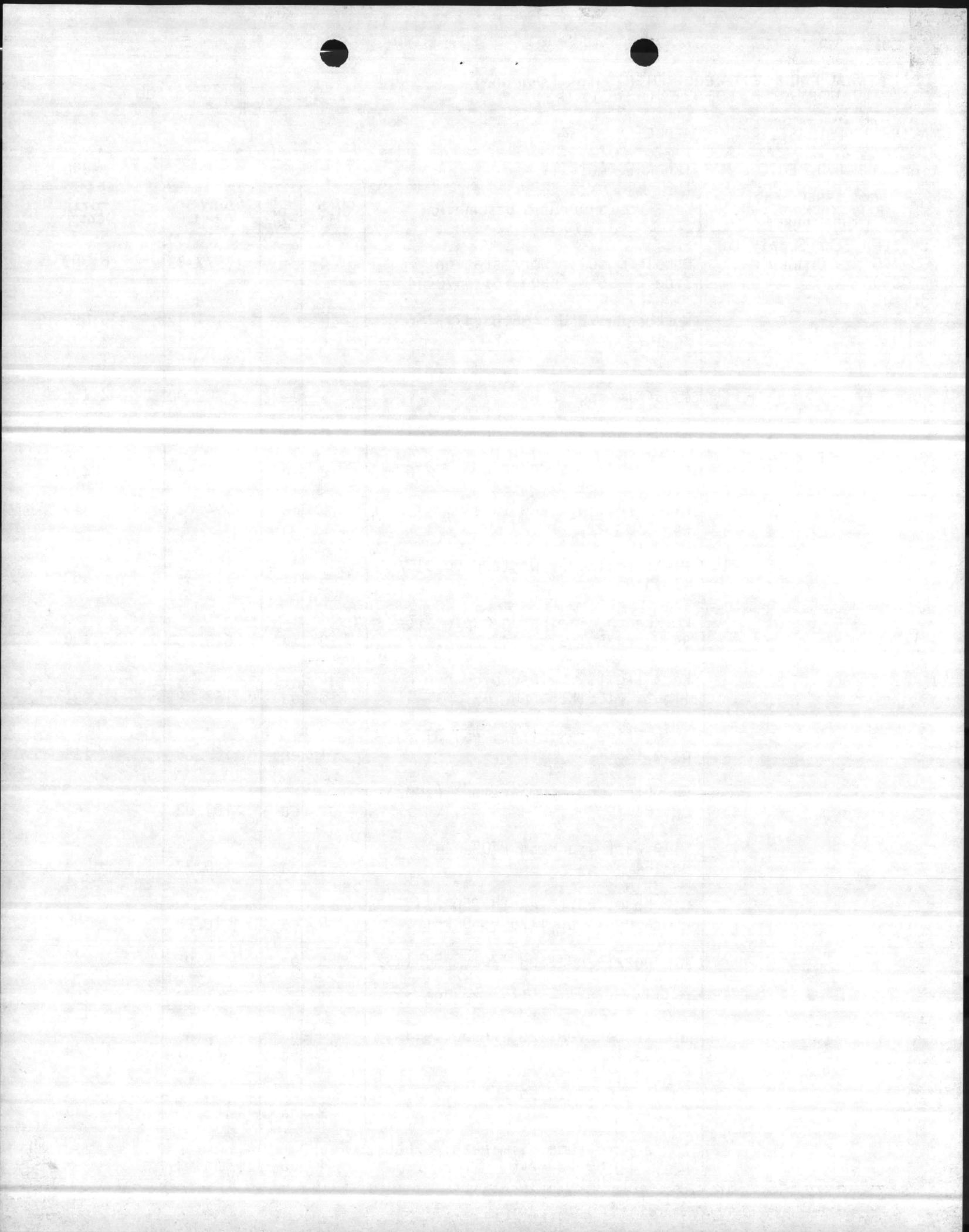
DATE 6 Feb 86

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

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO. P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
McMaster Carr Supply Co POB 440 New Brunswick, NJ 08903 Cat. 90	Double modular work station Type E, 96"W, page 151 #4704T42	4	ea	1,577.33	6,309
"	Workbench 72"W x 36"D #4773T56 pg 147	40	ea	147.42	5,897
"	Industrial model 24V power supply #7054K14 pg 1285	3	ea	722.00	2,166
"	Hand Truck #2446T13, page 278	4	ea	88.26	353
"	Cylinder truck, 2626T4, pg 276	2	ea	238.64	477
"	File, rolling (ERD tub) #4959T33	5	ea	94.61	473
"	Platform ladder w/stand pg 917 #7995T5	2	ea	431.32	863
"	Workbench, laminated maple, top 34"H 34"H, #4756T35 pg 147	10	ea	619.29	6,190
"	Work lights, telescoping bench light, #1551K36, pg. 87	10	ea	163.09	1,631
"	Safe, fire resistant, #6483T12 page 123	1	ea	168.26	168
"	Rag bin, dual compartment #4002T1 pg 184	1	ea	161.00	161
"	Oily waste rag can #4074T44 pg 184	5	ea	40.77	204
"	Air hose, 25ft length 250 PSI 2 braid 1/4"x1/4" pg 1176 #5304K61	5	ea	10.98	55
"	Air nozzle hoze pg 1201, #5451K32	5	ea	6.05	30
"	Milling table pg 1489, #3193A27	1	ea	455.77	456
"	Electrode oven 120C AC pg 1944 #8005A11	2	ea	564.32	1,129
"	Welding curtain pg 565, #5476T16 6' high	2	ea	155.28	311
"	Porta pure fume eliminator exhaust unit, pg 69 #2141K62	1	ea	649.51	650

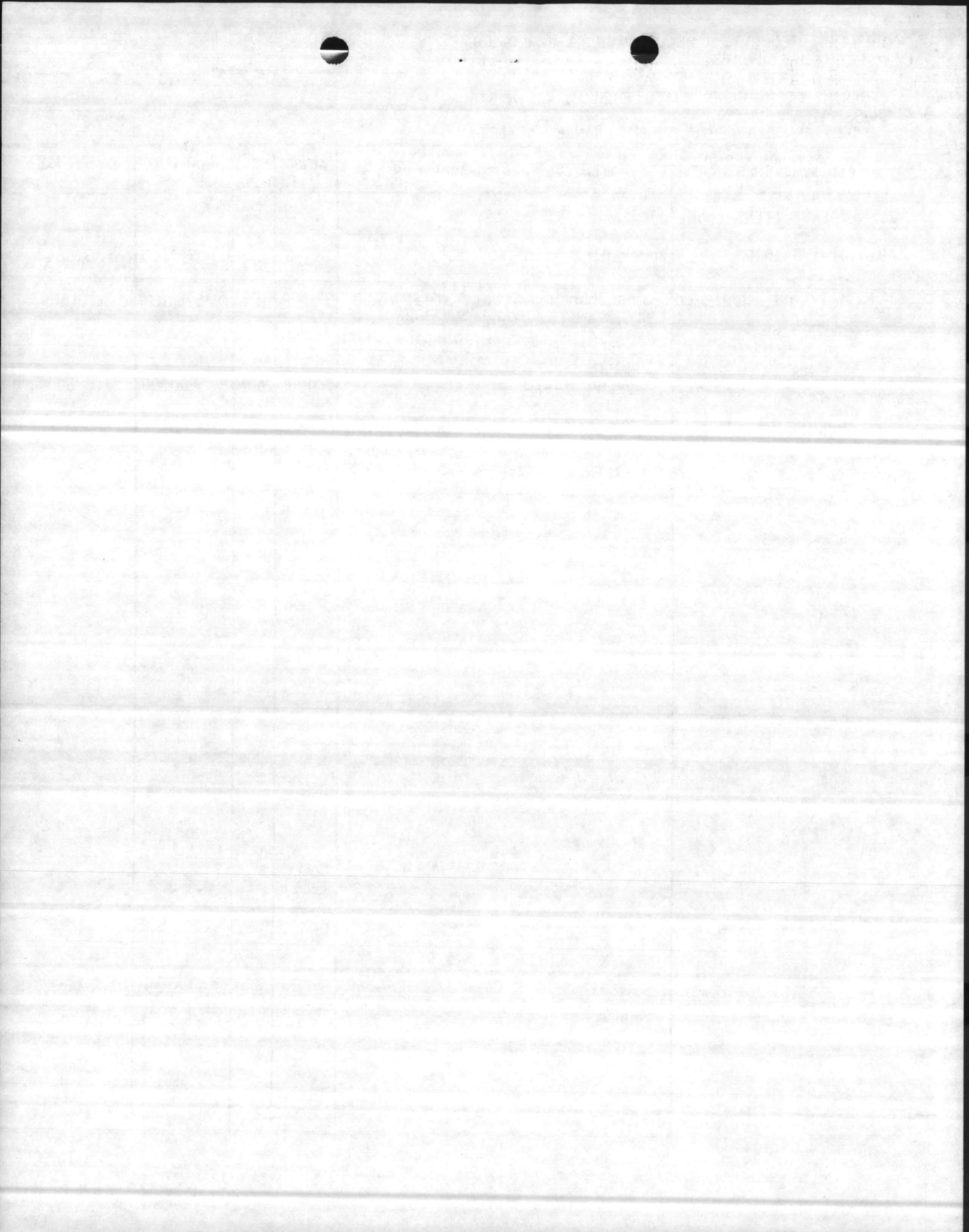


1. ACTIVITY (Name and Location)
 MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO. P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS (cont'd)					
4910-01-179-1040	Power pack stand	6	ea	514.00	3,084
McMaster Carr Supply Co	Long John heavy duty steel racks 84" overall height 24" deep #4670T41 for 3 tier battery shelf	2	ea	576.01	1,152
Fabricate	Lead Top Table	1	ea	500.00	500
	Total Expense Items				173,826



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

DATE 6 Feb 86

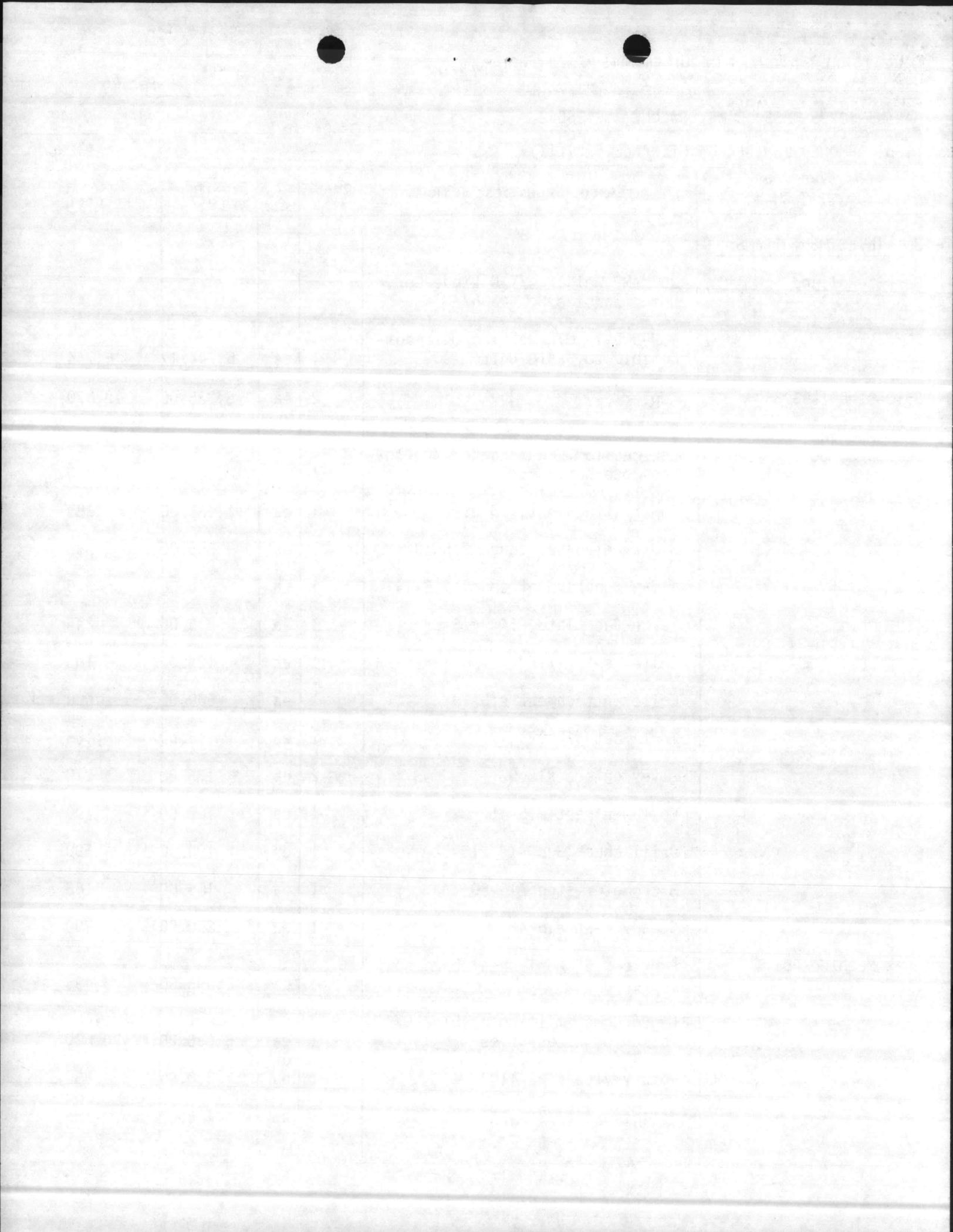
1. ACTIVITY (Name and Location)
 MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO. P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
3. INVESTMENT ITEMS:					
Merrit Holland	300 AMP welder w/TIG Linde Co., Union Carbide Co. #305/A				
	#MH-305-IA MIG Welding Unit com- patible to Basic Unit	1	ea	6,744.17	6,744
3610-01-091-9373	Copier	2	ea	5,335.00	10,670
Apex Machine Co. Columbia, SC	LeBlond 15" Regal Lathe w/follow- ing accessories	1	ea	12,900.00	12,900
	Taper attachment, .15-06	1	ea	1,185.00	1,185
	3 Jaw universal chuck #15-10	1	ea	885.00	885
	4 Jaw independant chuck #15-14	1	ea	940.00	940
	large faceplate, 14" #15-33	1	ea	215.00	215
	Collet set (1/16" - 7/8") #15-27	1	ea	195.00	195
	Collet Attachment #15-18	1	ea	600.00	600
	Tool Post #15-69	1	ea	165.00	165
	Live centers #15-52	2	ea	135.00	270
	Follower rest #15-41	1	ea	190.00	190
	Drill chuck 3/8"-1" #15-32	1	ea	190.00	190
	Micrometer stop #15-50	1	ea	185.00	185
	Steady rest #15-43	1	ea	290.00	290
Apex Machine Co	Peerless 5" Horizontal band saw #C-26	1	ea	3,495.00	3,495
	Lagun Comb. milling machine w/ following accessories	1	ea	26,630.00	26,630
	Rotary vice #122-1107	1	ea	350.00	350
	Collet set (1/8" -2")	1	se	125.00	125

*Model #
w/ff of item*



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

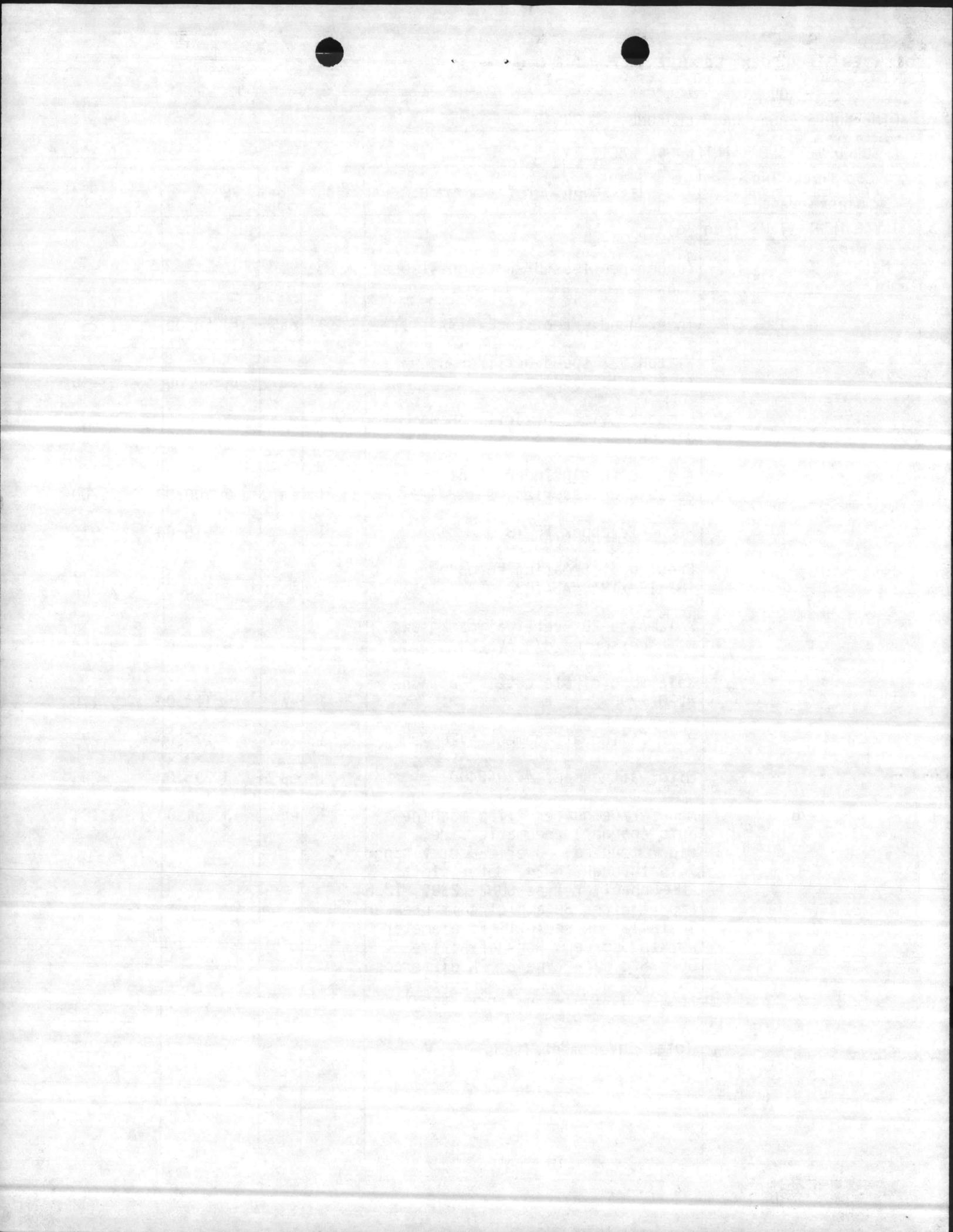
DATE 6 Feb 86

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

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO. P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
3. INVESTMENT ITEMS (cont'd)					
Apex Machine Co Columbia SC	(under peerless 5" horizontal band saw)				
	Index head/w/footstock #177-1111	1	ea	1,250.00	1,250
	Wilton var speed drill press w/ tilt table #5816	1	ea	1,240.00	1,240
	Compound vice for drill press #1266N	1	ea	725.00	725
	Apex surface grinder, Challenger H6-18 w/accessories	1	ea	7,200.00	7,200
	Magnetic chuck #6-18	1	ea	915.00	915
	Crest heat treating furnace 18"x19"x18" #AE-1824	1	ea	7,880.00	7,880
	Kalamazoo 20" vertical bank saw w/ accessories c/o #VS-20	1	ea	9,600.00	9,660
	Kalamazoo circle cutting attach. #V20-7700	1	ea	110.00	110
	Band filing attachment #V20-7900	1	ea	275.00	275
	Miter attachment #V20-7400	1	ea	295.00	295
4910-00-675-1478	Mounter/Demounter (Tire machine auto changer) pneumatic tire, floor mounted, power capacity range 7-15 through 14-24, Motor elect. 2HP capacitor type 60HZ, 230V, 12.6 amp requires 30 amp circuit breaker Installation req'd 11 ft diameter working space. Non-definitive Spec/Std data type 3, RN difference capacity differentiated by tire type and size range, Part #931A	1	ea	3,164.00	3,164
	Total Investment Items				98,938



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

2. PROJECT TITLE
 LIGHT ARMORED VEHICLE MAINTENANCE FACILITY

P. NO.
 P-806

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
4. <u>APA EQUIPMENT:</u>	None				
5. <u>TRAINING EQPT:</u>	(To be locally funded)				
NSN 6730-00-423-0002	Projector, movie, Bell & Howell 16mm, real sound, Tungsten Halogen 1.2" lens focal length part number 2585ml	1	ea	467.54	468
GS-03S-81003	Projector, overhead, specialist Model 389B	1	ea	203.00	203
DA-LITE Screen Co. 3100 State Road Box 137 Warsaw, IN 46580 (219) 267-8101	Screen, movie, picture king 84'X 84" glass beaded	1	ea	126.42	126
	Total Training Eqpt.				797
	ESTIMATED BOD IS OCTOBER 1987				

