

1. COMPONENT NAVY		FY 1987 MILITARY CONSTRUCTION PROJECT DATA			2. DATE 1 AUG 1980	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542				4. PROJECT TITLE ELEC/COMM MNT SHOP		
5. PROGRAM ELEMENT		6. CATEGORY CODE 217-10	7. PROJECT NUMBER P-229		8. PROJECT COST (\$000) 3,500	
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP		SF	36,280	76.28	2,767	
Building		SF	36,280	61.23	(2,221)	
Built-in Equipment		LS	-	-	(474)	
Solar Hot Water System		LS	-	-	(72)	
SUPPORTING FACILITIES					435	
Special Construction Features		LS	-	-	(59)	
Utilities		LS	-	-	(148)	
Roads, Parking, Sidewalks		LS	-	-	(191)	
Site Improvements		LS	-	-	(37)	
SUBTOTAL					3,202	
CONTINGENCY (5%)					160	
TOTAL CONTRACT COST					3,362	
SUPERVISION, INSPECTION & OVERHEAD (5.5%)					185	
TOTAL REQUEST					3,547	
TOTAL REQUEST (ROUNDED)					3,500	
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS						
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Permanent one story shop with piles, reinforced concrete foundation, floors, and masonry walls. Built-up roof over insulation and interior support systems, i.e., air conditioning, steam, compressed air, sprinkler, fire alarm, plumbing, 60/400 cycle electrical; grounding, etc., exterior pavements, fencing, area lighting, site work, and utilities connected are included. Fallout shelter excluded - shelters for personnel have been programmed in other projects. (Air conditioning: 118 tons.)</p> <p>REQUIREMENTS: <u>175,074 SF.</u> ADEQUATE: <u>2,349 SF.</u> SUBSTANDARD: <u>75,504 SF.</u>  PROJECT: Construct an electronics and communications maintenance shop for an Artillery Regiment, of the 2d Marine Division.  REQUIREMENT: A maintenance facility to effectively execute the prescribed electronics and communications maintenance program.</p> <p>CURRENT SITUATION: The maintenance program is being carried out in sub-standard masonry-type WWII buildings and Butler-type metal buildings constructed in 1952 during the Korean campaign. The facilities are inadequate as electronics/communications shops for use in the maintenance of the modern sophisticated equipment in use today and cannot be economically rehabilitated.  IMPACT IF NOT PROVIDED: The deadline time on electronic equipment for personnel and vehicles will remain adversely affected and maintenance capability and combat readiness will continue to be impaired.</p>						

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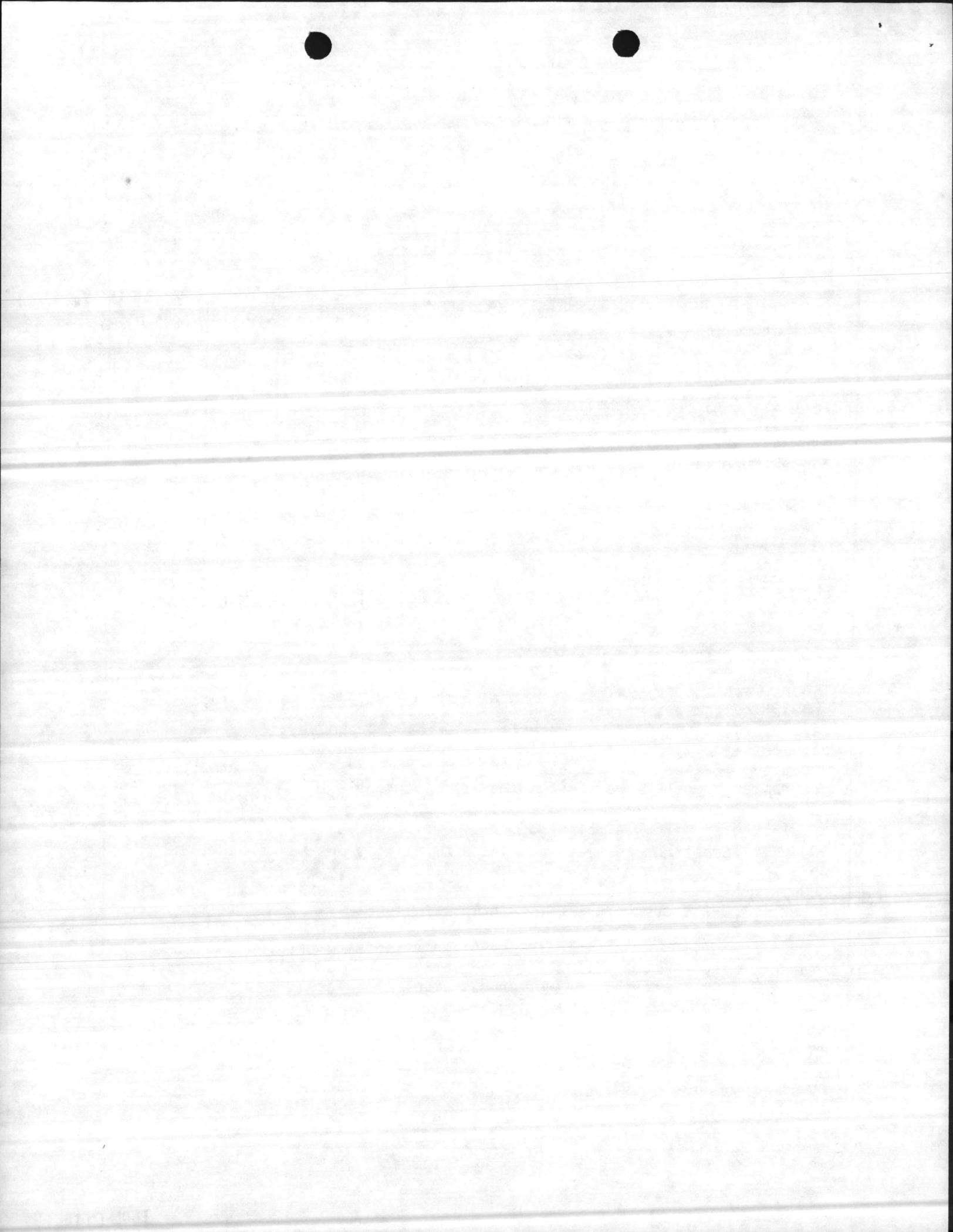
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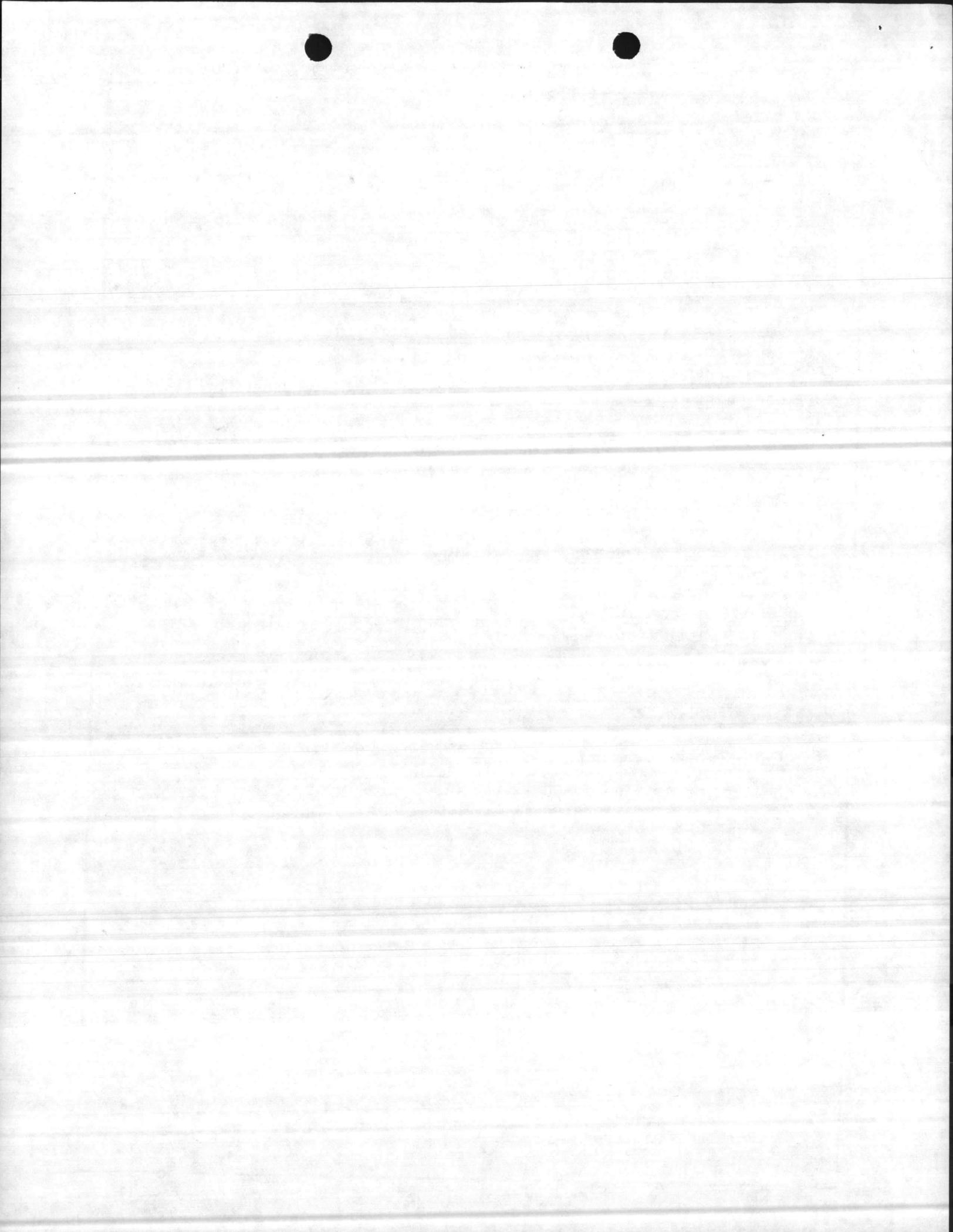
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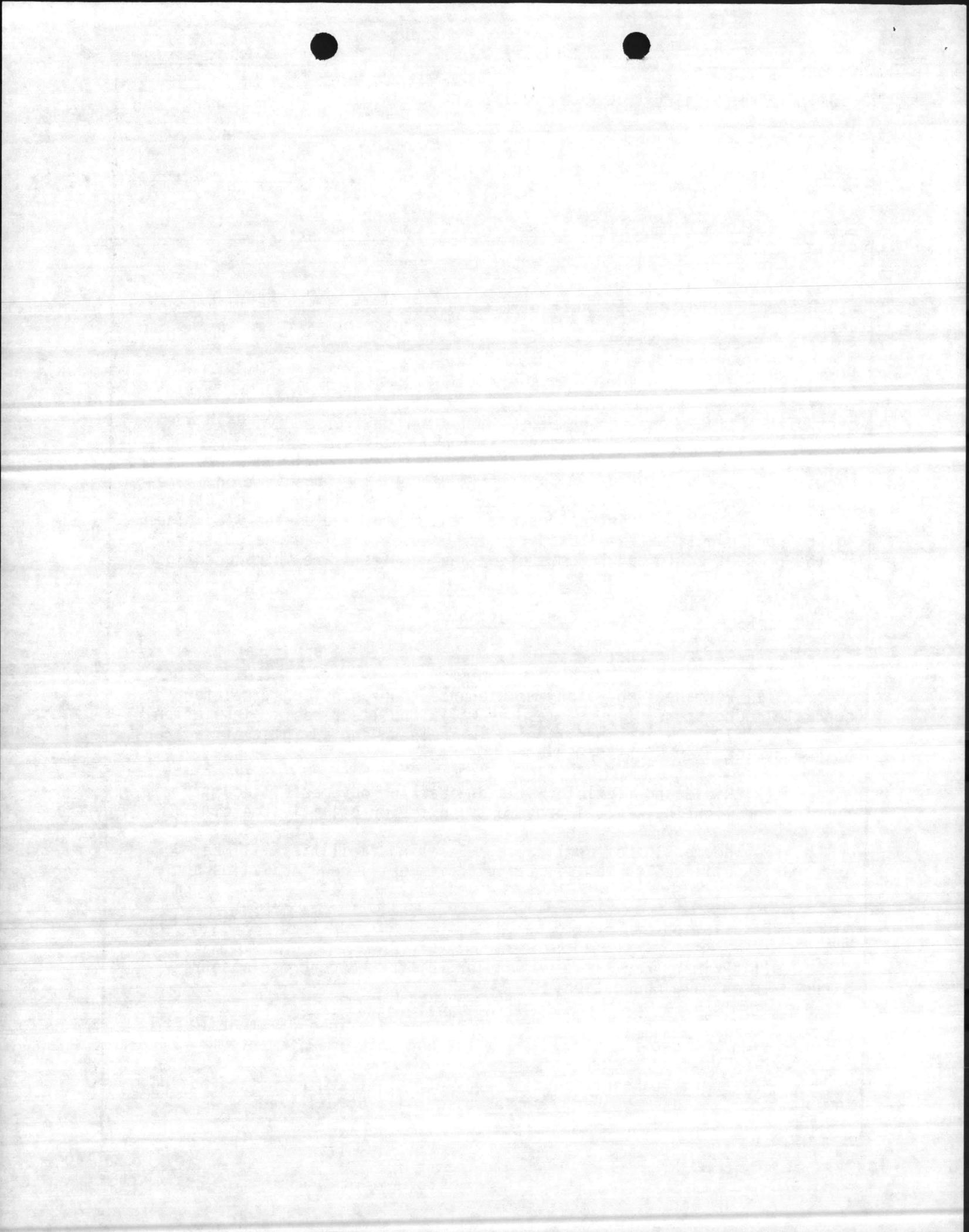
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SPECIAL CONSIDERATIONS

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 has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.
4. Fallout Shelter Construction: Fallout shelter protection is incorporated in the facility.
5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this facility.
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: The project facility 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.



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<p style="text-align: center;"><u>FACILITY STUDY</u></p> <p>1. <u>Project.</u> Provide 36,280 SF of electronics/communications maintenance shop for electronics and communications T/E equipment assigned to the Artillery Regiment/Battalion, 2d Marine Division.</p> <p>2. <u>Current and Planned Future Workload with Regard to this Project.</u> The duration of need is indefinite and the facility will be utilized 100 percent of the time. An average of ten hours per day for a five-day work-week is spent in the shop. After training exercises or deployments, the maintenance workload increases; consequently, many nights and weekends are required to perform the additional maintenance. The organization is responsible for performing first and second echelon maintenance on all items of electronics and communications equipment authorized by the T/E. The future workload is difficult to project; however, it is expected to increase as the present equipment becomes older and new items are introduced into the system.</p> <p>3. <u>Description of Proposed Construction.</u></p> <p style="padding-left: 20px;">a. <u>Type of Construction.</u></p> <p style="padding-left: 40px;">(1) Permanent one-story maintenance shop on pilings, reinforced concrete foundations, floors, masonry walls, built-up roofs, insulation, interior utilities, air conditioning in training and administrative areas, 60/400 cycle-power with AC/DC power bus duct.</p> <p style="padding-left: 40px;">(2) Rigid and flexible walks and parking pavements, security fencing and lighting, site improvements, exterior utilities, etc.</p> <p style="padding-left: 20px;">b. <u>Replacement.</u> Not applicable. Existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.</p> <p style="padding-left: 20px;">c. <u>Description of Work to be Done.</u></p> <p style="padding-left: 40px;">(1) <u>Primary Facilities.</u> Modular reinforced concrete/masonry structures on pile foundation.</p> <p style="padding-left: 80px;">(a) <u>Support Facilities.</u> Rigid and flexible pavements, security fencing and lighting, utilities, and site improvement.</p> <p style="padding-left: 40px;">(2) <u>Energy Conservation.</u> Energy efficient equipment and building orientation for maximum energy conservation will be utilized.</p>		



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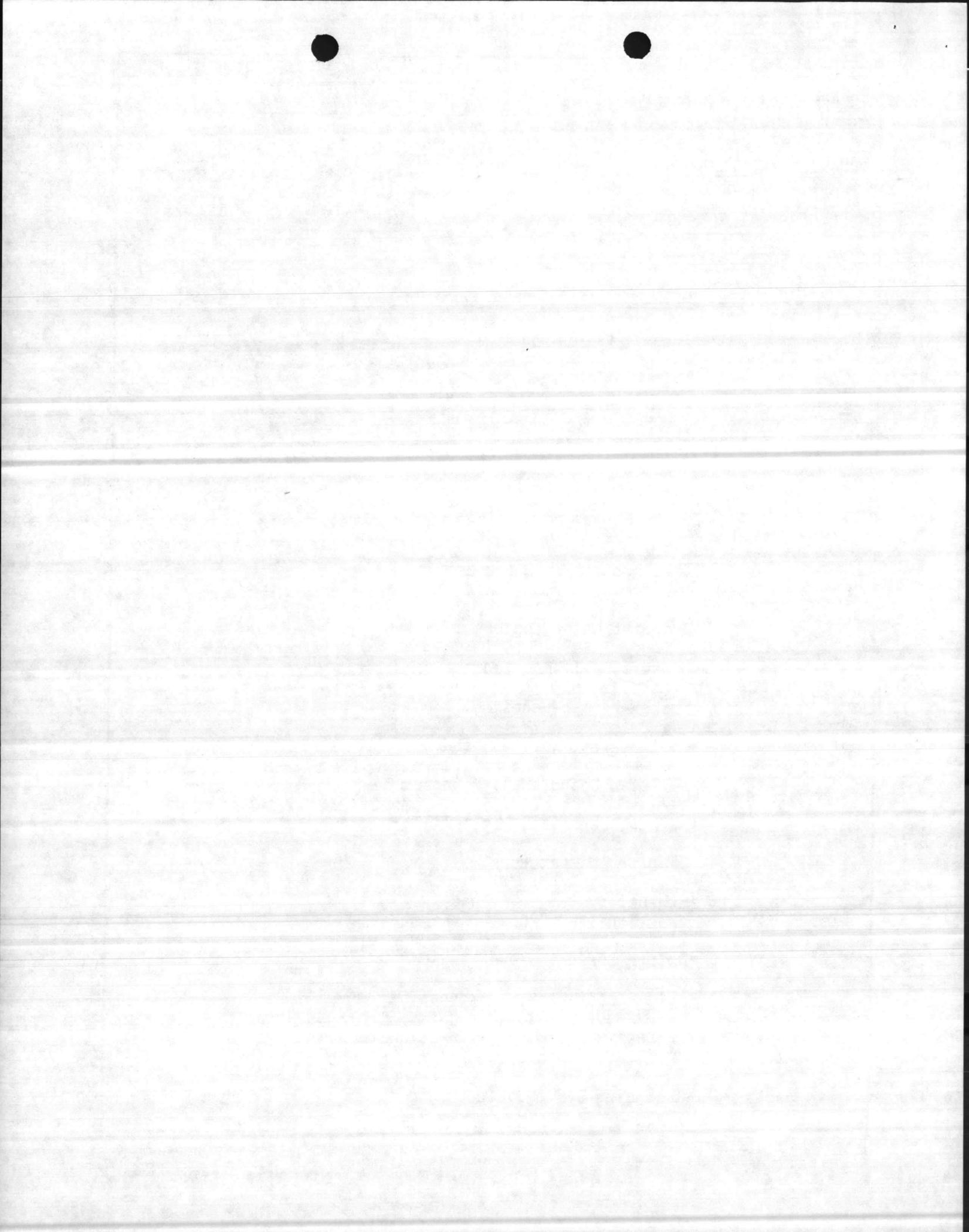
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(3) Collateral Equipment.

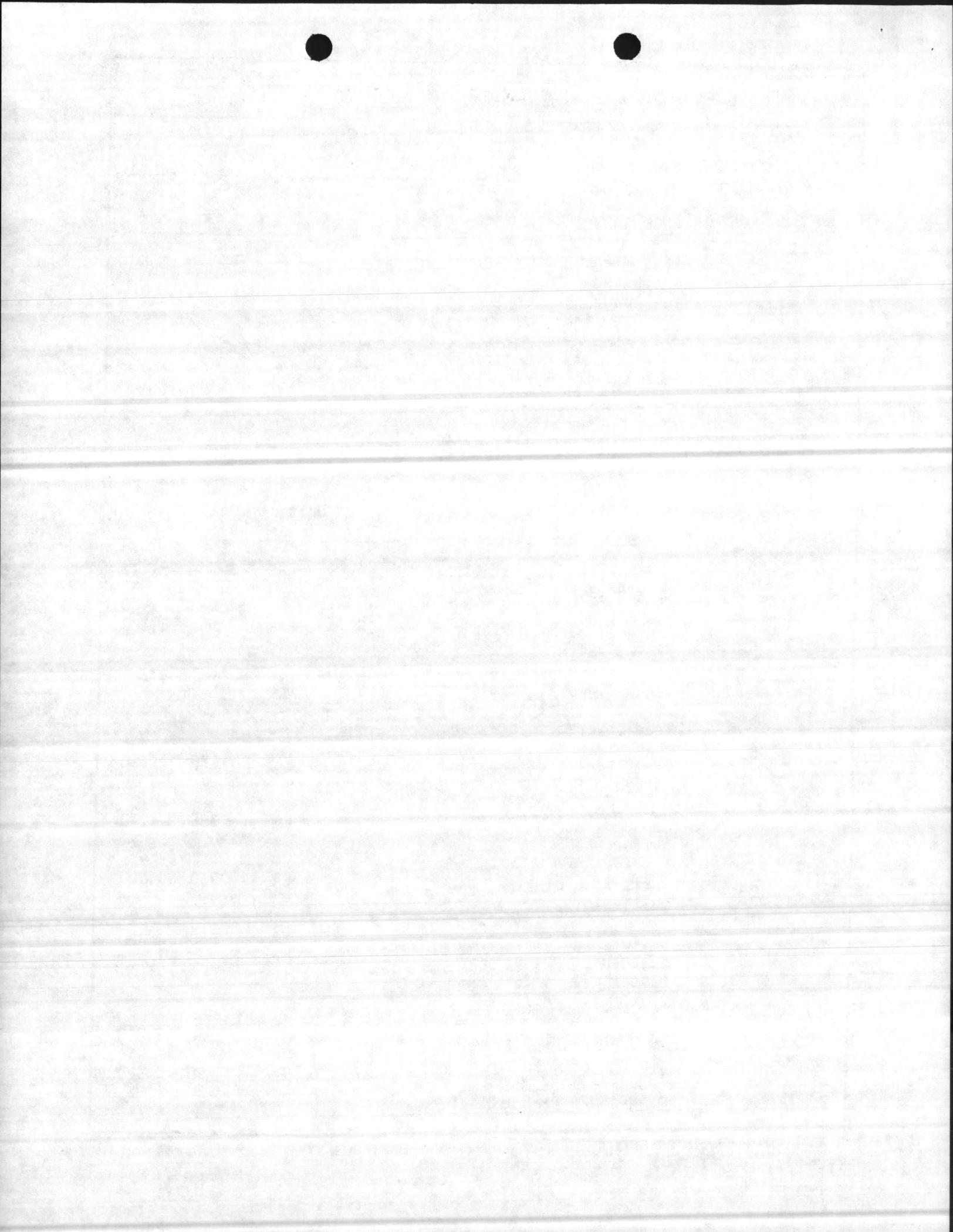
(a) Built-in (MCON Funded)

Description

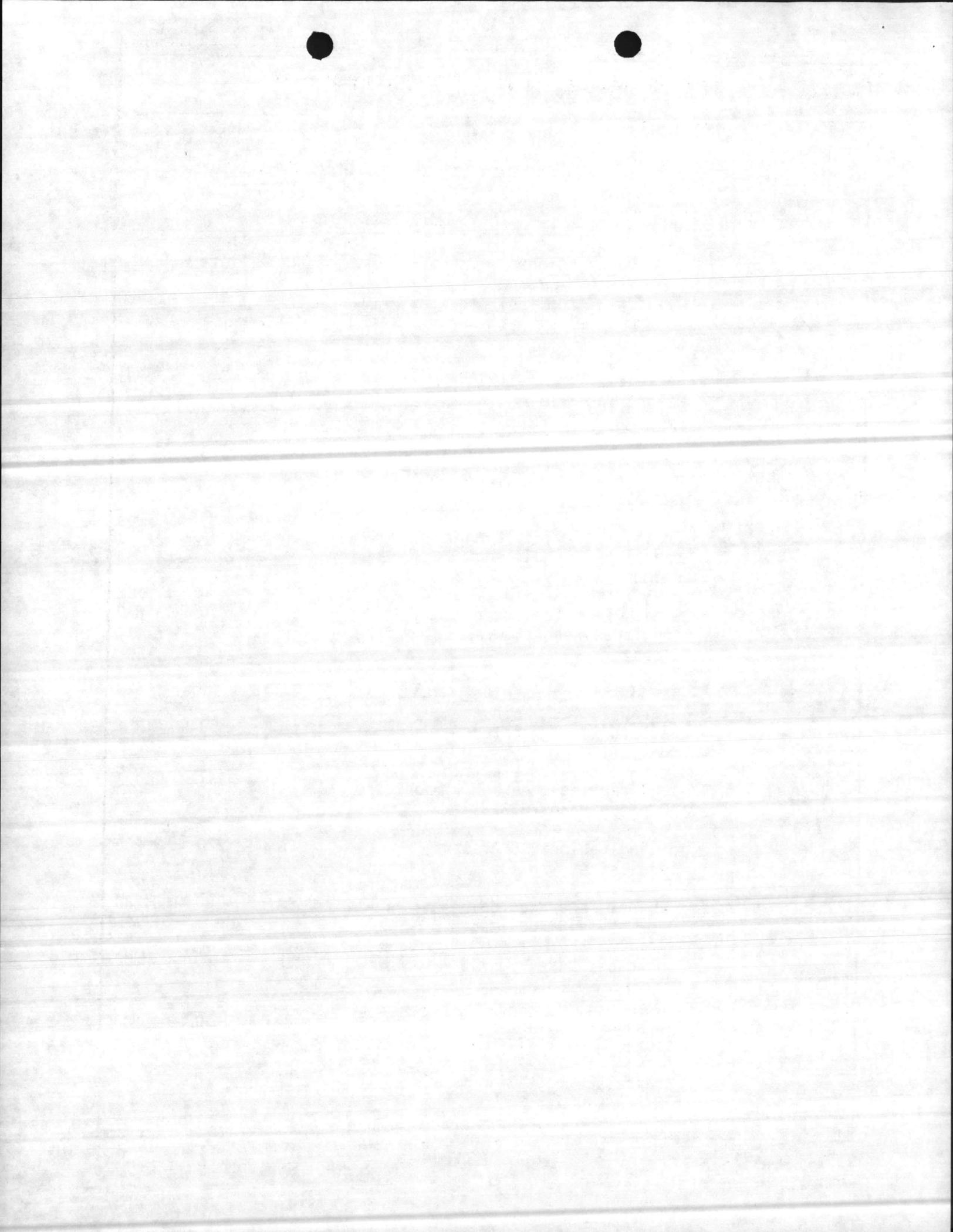
- \*Air Conditioning, Heating & Ventilating Systems
- \*Plumbing System & Steam System (Interior)
- \*Compressed Air System
- \*Sprinkler System
- \*Telephone, Fire Alarm & Intercom Systems
- \*Drinking Water Coolers
- \*Lockers, Wall Mounted
- \*Locker-room benches, 6' long
- \*Chalkboards, Wall Mounted
- \*Bulletin Board, Wall Mounted
- \*Blinds, Venetian, Light Tight
- \*Counter, Dispatchers
- \*Exhaust System, overhead fractional HP, 208V, 3 phase
- \*Deluge Shower, w/eye wash CW
- \*Acid Resistant Sink w/bench CW
- \*Exhaust Hood (over) w/fractional HP, 120V, 1 phase fan
- \*Grounding System, Electronic



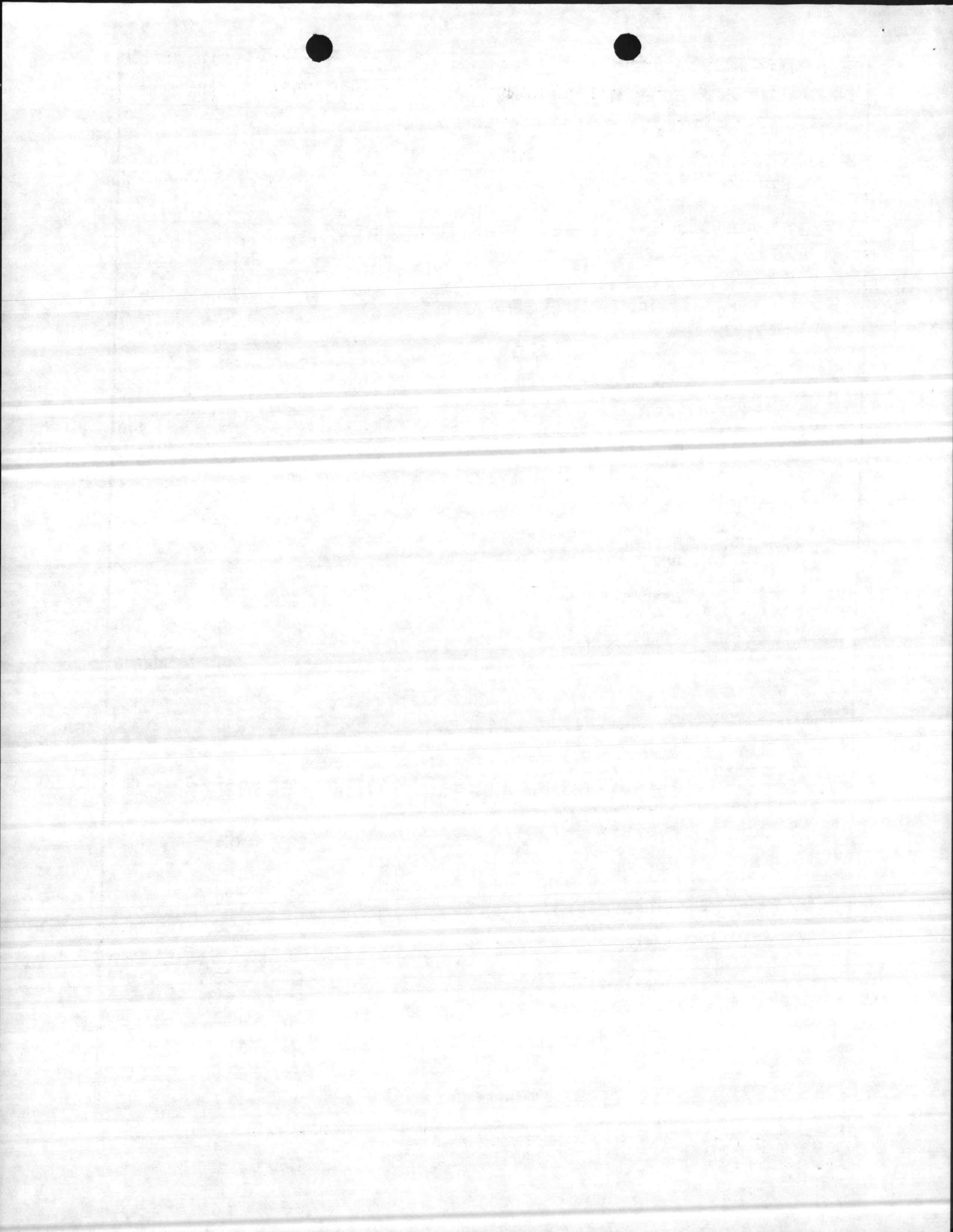
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<p>*Pass Window, 4' wide, w/counter &amp; "B" label roll down shutter (w/ fusible link)</p> <p>*60/400 Cycle Electrical System with AC/DC Power Bus Bar and transformers</p>				
*Equipment with associated installation cost.				
(b) <u>Expense Items</u>				
<u>Description</u>	<u>Qty</u>	<u>Unit of Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Benches, work, portable, 48"x28"x34"H	22	EA	\$ 225	\$4,950
Benches, work, portable, 72"x28"x34"H	15	EA	340	5,100
Benches, work, stationary, 28"Dx34"H, stl top, std, lead covered in btry shop	20	EA	375	7,500
Parts Bins, adj shelving 14"x24"D	8	EA	75	680
Grinder, bench, 7" w/ buffer wheel	2	EA	385	770
Parts Rota Bins, 3' dia. multi-bin	15	EA	360	5,400
Battery Charger, 12/24/36V. selenium type; battery tester, 12/24/36V, 2.2KW, 60/400 cyl, AC/DC	8	EA	550	4,400
14"W shelving w/adj stds	27	EA	120	3,240
12"W shelving w/adj stds, 6 shelves, 36"W & 84"H	27	EA	90	2,430



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		<u>Description</u>	<u>Qty</u>	<u>Unit of Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
		Desk, flat top, dbl ped, 60"x30", walnut pattern top, no overhang	8	EA	\$ 315	\$2,520
		Desk, flat top, 45"x30" walnut pattern top, no overhang	12	EA	240	2,880
		Desk, flat top, w/attach for sec'l & gen. clerical purposes	12	EA	275	300
		Chair, rotary, tilting seat & back, adj. seat height, w/arms, w/casters	20	EA	94	1,880
		Chair, secretarial, rotary adj. seat height, w/arms, w/casters	12	EA	70	840
		Stand, office machine 2 drop leaves, walnut pattern top, w/casters	8	EA	66	528
		Typewriter, IBM electric 13½" carriage, carbon ribbon, 10 pitch Model 833	12	EA	710	8,520
		Filing Cabinet, 5 drawers, legal size, w/o lock	10	EA	220	2,200
		Cabinet, storage, dbl door, 36"x18"x80-1/16"H	12	EA	190	2,280
		Bookcase, base, 33"x13" x10"H	15	EA	20	300
		Bookcase, section, w/o doors, 31"x12"x14"H	45	EA	40	1,800
		Bookcase, top, 33"x 13"x2½"H	15	EA	20	300



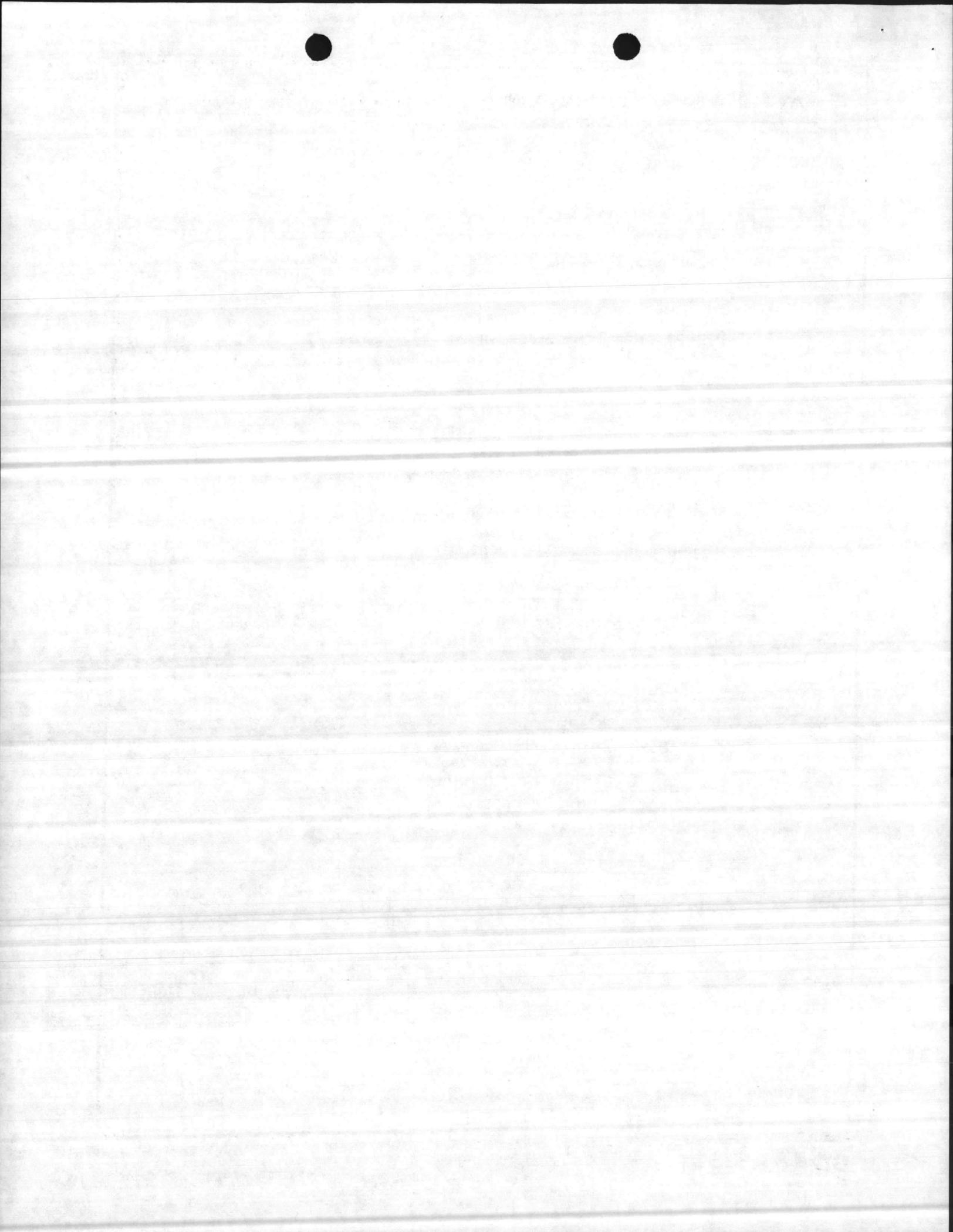
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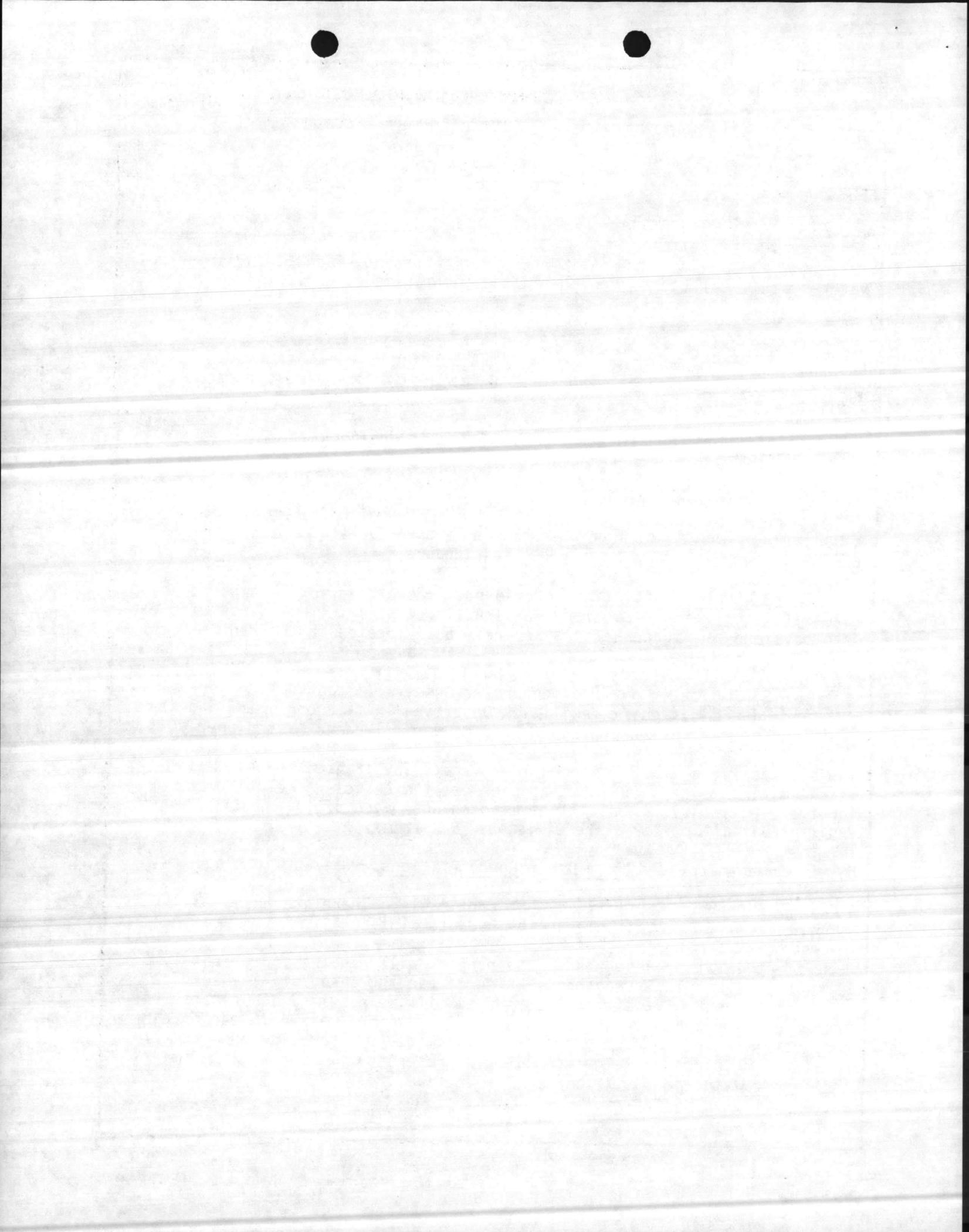
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(b) Expense Items (continued...)				
TOTAL EXPENSE ITEMS				\$ 121,680
Shipping, Packing, Handling Installation Charges & Contingencies - 10%				12,168
(c) <u>Investment Items</u> : None				
(d) <u>APA Equipment</u> - None				
(e) <u>Training Equipment</u>				
Movie Projector	2	EA	\$650	\$ 1,300
Movie Screen	2	EA	235	470
Overhead Projector	2	EA	375	750
TOTAL TRAINING ITEMS				\$2,520
Shipping, Packing, Handling, Installation Charges & Contingencies - 10%				252
(f) <u>Equipment on Hand</u> - None				
(g) <u>Summary</u>				
Expense Cost (O&MMC)				\$134,100
Training Cost (O&MMC)				2,520
		TOTAL		\$136,620



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<p>(4) <u>Supporting Facilities.</u> Special piling, foundation, solar hot water system, collateral equipment, site improvement, pollution abatement, etc. No demolition will be accomplished on this project.</p> <p>4. <u>Cost Estimate.</u> Area cost factor for Camp Lejeune, N. C. is 0.95. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG), and escalated to FY-82 to provide for this proposed facility.</p> <p>5. <u>Justification for Project and for Scope of Project.</u></p> <p>a. <u>Justification for Project.</u></p> <p>(1) <u>Project.</u> Proposed facilities are required to provide an Artillery Regiment/Battalion adequate and secure facilities to perform electronic and communications equipment maintenance.</p> <p>(2) <u>Current Situation.</u> Personnel are working in substandard and makeshift facilities, temporary WW-II Butler type metal buildings with open bays and oil space heaters and no heads, located in the Hadnot Point area.</p> <p>(3) <u>Impact if Not Provided.</u> Personnel will continue to work in substandard and makeshift facilities resulting in time consuming and inefficient operations resulting in loss of work time and wasted energy.</p> <p>b. <u>Justification for Scope of Project.</u> The project scope, 36,280 SF, is the minimum size facility that can meet the deficiency requirement for the electronic/communications maintenance needs of the Artillery Regiment/Battalion, 2d Marine Division. See Item 13.</p> <p>6. <u>Equipment Provided from Other Appropriations.</u> Not applicable.</p> <p>7. <u>Common Support Facilities.</u> Not applicable. There are no common support facilities available in the Hadnot Point area.</p> <p>8. <u>Effect on Other Resources.</u> The project will require approximately \$12,615 per year in increased O&amp;MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. The project will enhance and improve the morale of personnel presently working in widely dispersed facilities. 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.</p>		



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Utility Requirements

a. Electricity	Consumption	124,440	KWHR/yr
	Peak Demand	77	KW
	Avg Demand	71	KW
b. Steam	Consumption	5,581,776	lbs/yr
	Demand	1,998	lbs/hr
c. Coal		218	tons/yr
d. Adequate utility requirements are available.			

9. Siting of the Project: This facility will be located in the 1700 Area of Hadnot Point, in keeping with the Camp Lejeune Master Plan. See encl (1).

10. Other Graphic Presentations, including Photographs. None.

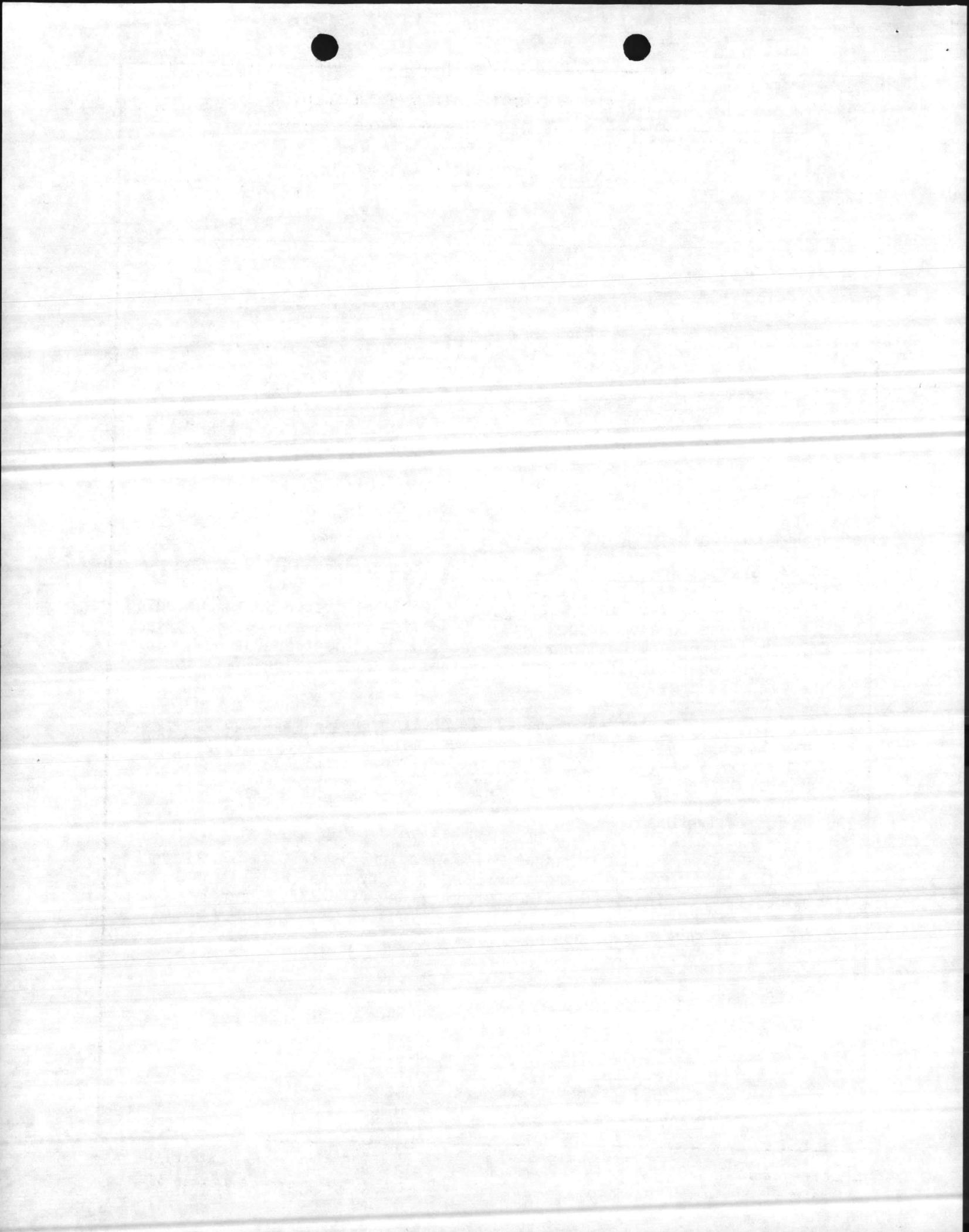
11. Economic Analysis. This facility is being constructed on an undeveloped site adjacent to a developed area. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in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

12. Environmental Impact Assessment. 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. BFRL Requirement. Hadnot Point Area (DA) is 175,074 SF. NAVFAC P-80 states that the requirement for this category code (217-10) is determined from definitive drawings given in NAVFAC P-272. Part IV.

<u>NAVFAC Dwg. No.</u>	<u>Area SF</u>
1293355	36,280
1293357	8,048
1293358	24,500
1293359(3x29,775)	89,325
1293360	6,316
1293366M	4,505
1293361	6,100
TOTAL	<u>175,074</u>



1. COMPONENT NAVY	FY 19 87 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1980
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3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542
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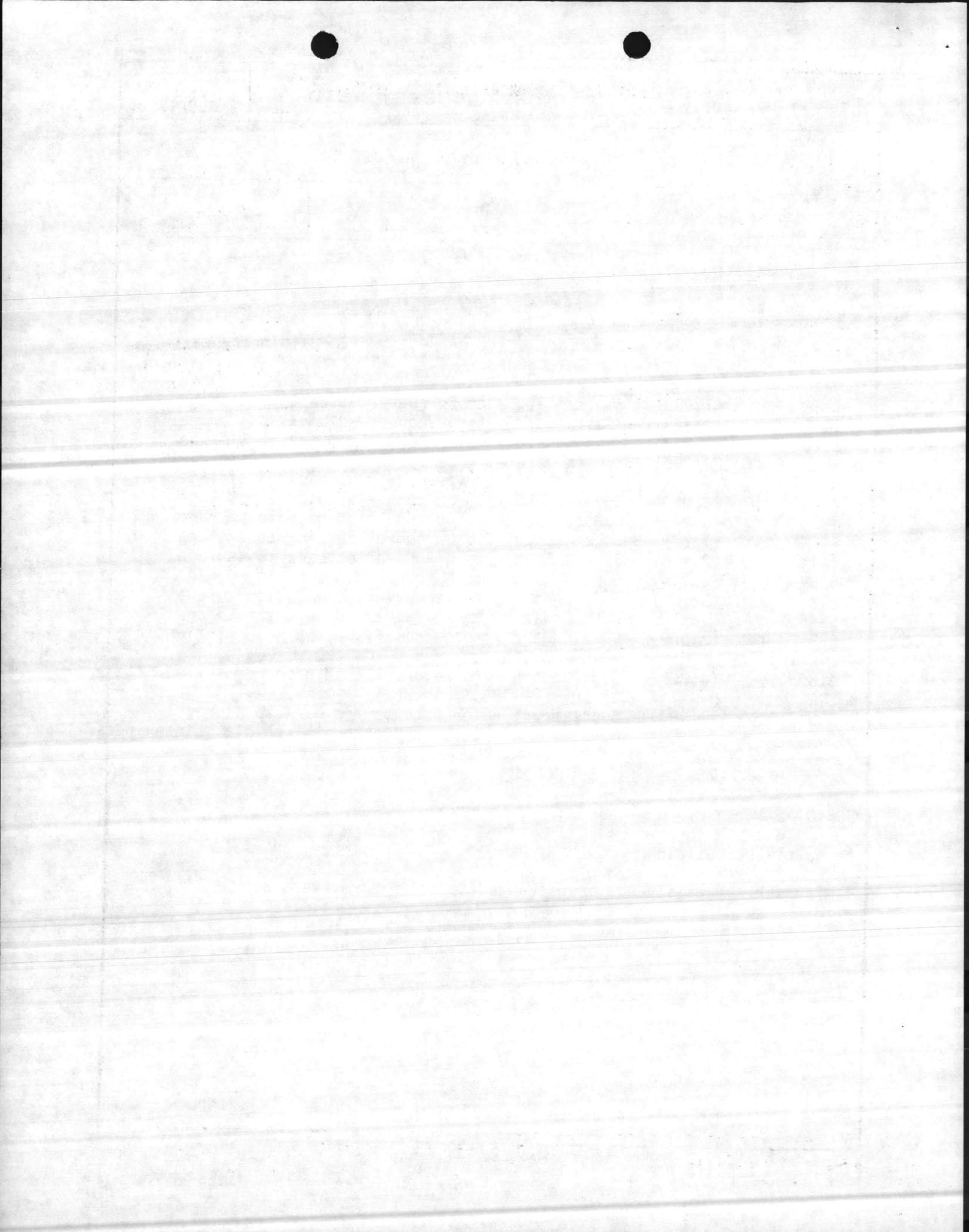
4. PROJECT TITLE ELEC/COMM MAINTENANCE SHOP	5. PROJECT NUMBER P-229
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b. Existing Facilities.

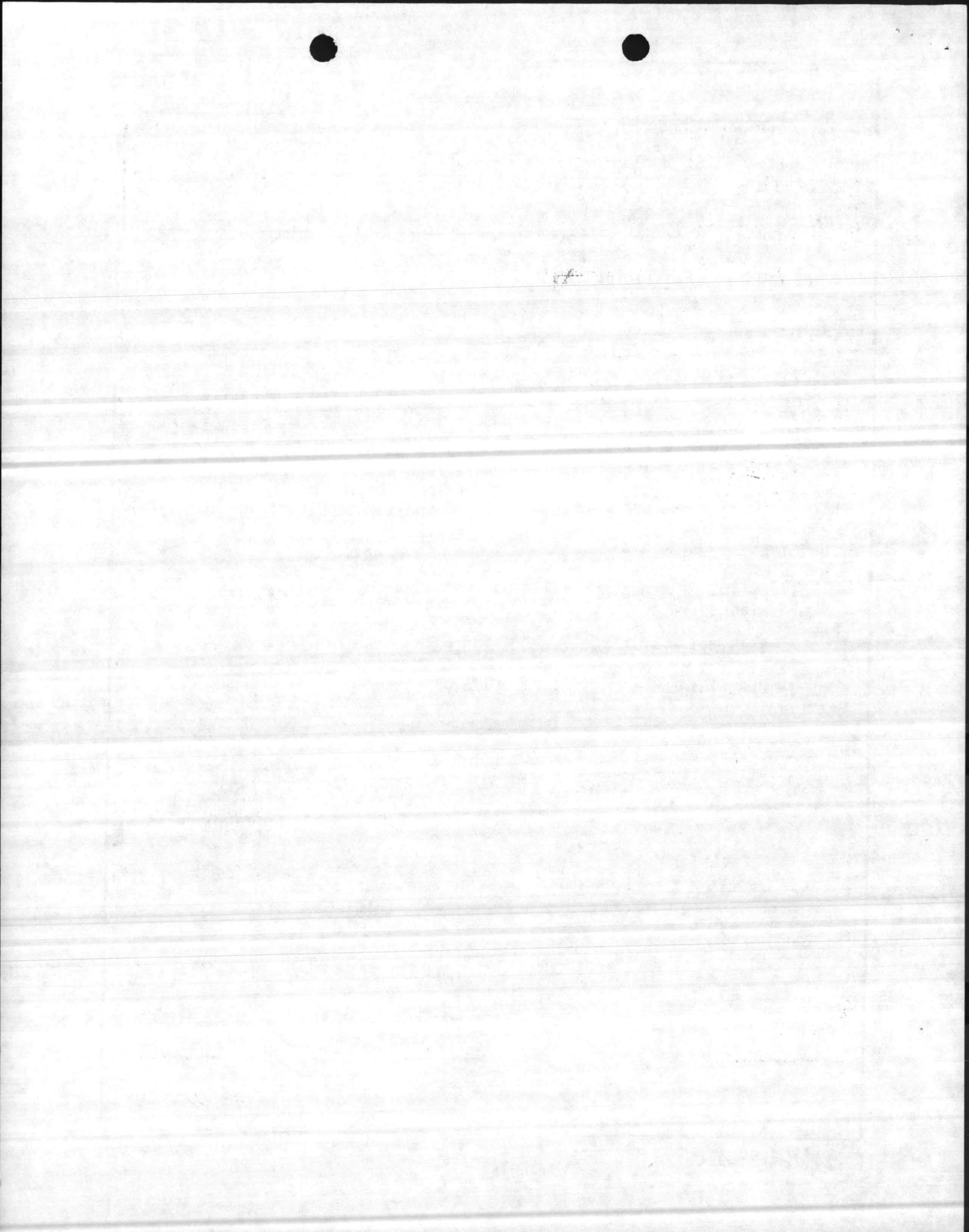
<u>Bldg. No.</u>	<u>Area</u>	<u>Remarks</u>
S-23	(2,156)	Substandard, to be retained & building redesignated to Cat Code 833-09
24*	2,349+	Adequate
116*	(1,089)	Substandard - to be converted back to storage.
134	(3,729)	Substandard - to be converted back to storage.
234*	(1,947)	Substandard - to be converted back to storage.
307*	(22,786)	Substandard - to be converted back to storage.
329	(3,729)	Substandard - to be converted back to storage.
414	(3,663)	Substandard - to be converted back to storage.
439	(3,240)	Substandard - to be converted back to storage.
442*	(1,705)	Substandard - to be converted back to storage.
444*	(2,160)	Substandard - to be converted back to storage.
505*	(2,145)	Substandard - to be converted back to storage.
532	(3,729)	Substandard - to be converted back to storage.
534*	( 270)	Substandard - to be converted back to storage.
599*	(2,000)	Substandard - to be demolished upon completion of P-508 & P-572.
816*	(4,800)	Substandard - to be demolished upon completion of P-507 & P-175.
905*	(11,960)	Substandard - to be converted back to storage.
1309	(4,396)	Substandard - to be converted to vehicle maintenance.
	(75,504)	SUBSTANDARD
SUBTOTAL	2,349+	ADEQUATE

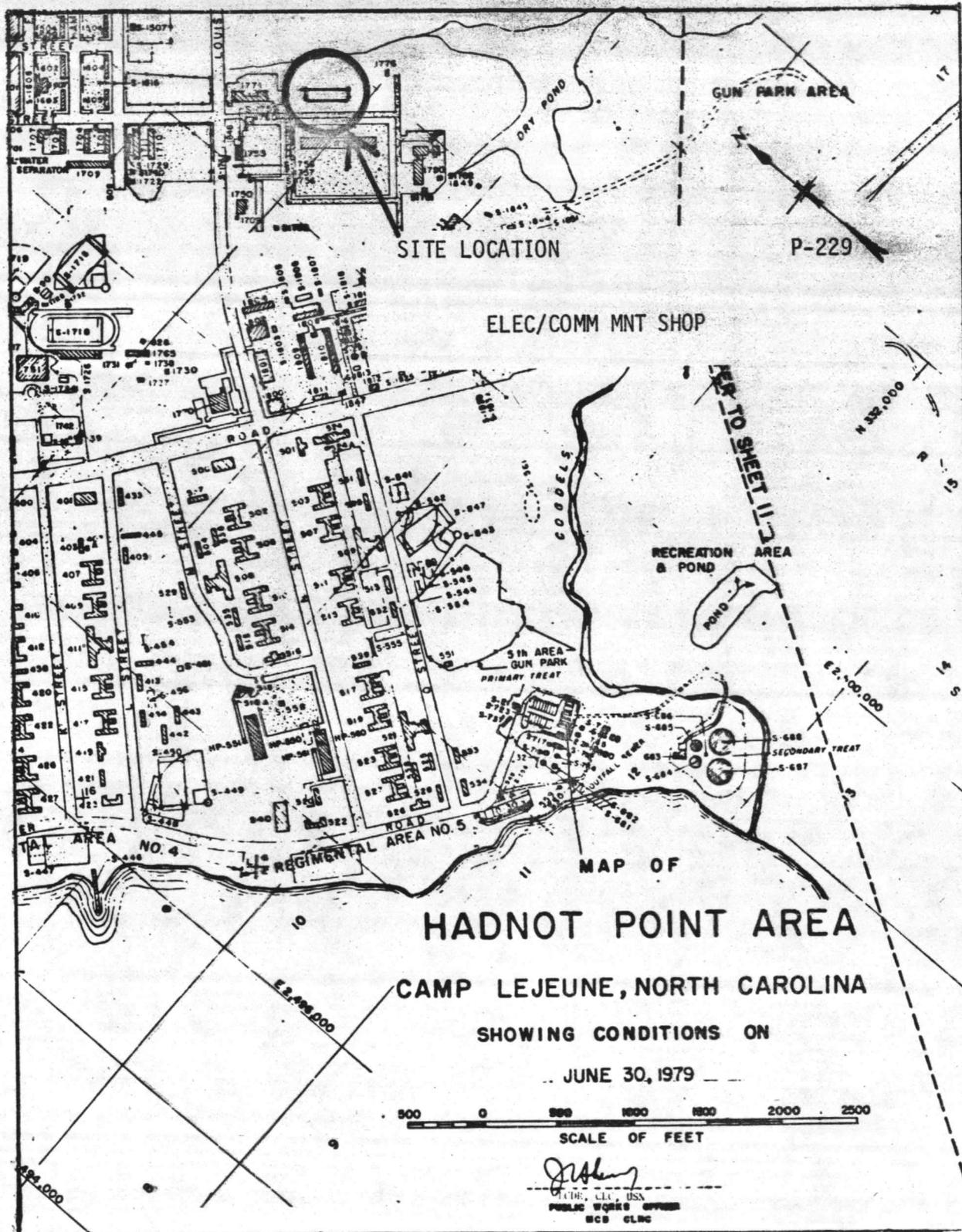
\* Multi-use building

+ Misnomer - facility has been changed to administrative space.



1. COMPONENT NAVY		FY 19 <u>87</u> MILITARY CONSTRUCTION PROJECT DATA		2. DATE 1 AUG 1980																																	
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<p>c. <u>Planned Facilities.</u></p> <table border="0"> <thead> <tr> <th><u>Project No.</u></th> <th><u>Area SF</u></th> <th><u>Marine Corps Base and 2D Marine Division Organizations</u></th> </tr> </thead> <tbody> <tr> <td>P-643</td> <td>29,775</td> <td>Marine Infantry Regiment (2DMARDIV)</td> </tr> <tr> <td>P-527</td> <td>29,775</td> <td>Marine Infantry Regiment (2DMARDIV)</td> </tr> <tr> <td>P-644</td> <td>29,775</td> <td>Marine Infantry Regiment (2DMARDIV)</td> </tr> <tr> <td>P-229</td> <td>36,280</td> <td>10th Marines (2DMARDIV)</td> </tr> <tr> <td>P-175</td> <td>24,500</td> <td>Headquarters Battalion (2DMARDIV)</td> </tr> <tr> <td>P-565</td> <td>4,505</td> <td>Elec/Comm Maintenance Shop (MCB)</td> </tr> <tr> <td>P-536</td> <td>6,100</td> <td>2d Tank Battalion (2DMARDIV)</td> </tr> <tr> <td>P-653</td> <td>8,048</td> <td>Engineer Battalion (2DMARDIV)</td> </tr> <tr> <td>P-569</td> <td>6,316</td> <td>Reconnaissance Battalion (2DMARDIV)</td> </tr> <tr> <td><b>SUBTOTAL</b></td> <td><b>175,074</b></td> <td></td> </tr> </tbody> </table> <p>d. Existing Adequate Facilities      0  Planned Facilities                      <u>175,074</u></p> <p>Total Planned &amp; Existing      175,074</p> <p>BFRL TOTAL                              175,074</p>					<u>Project No.</u>	<u>Area SF</u>	<u>Marine Corps Base and 2D Marine Division Organizations</u>	P-643	29,775	Marine Infantry Regiment (2DMARDIV)	P-527	29,775	Marine Infantry Regiment (2DMARDIV)	P-644	29,775	Marine Infantry Regiment (2DMARDIV)	P-229	36,280	10th Marines (2DMARDIV)	P-175	24,500	Headquarters Battalion (2DMARDIV)	P-565	4,505	Elec/Comm Maintenance Shop (MCB)	P-536	6,100	2d Tank Battalion (2DMARDIV)	P-653	8,048	Engineer Battalion (2DMARDIV)	P-569	6,316	Reconnaissance Battalion (2DMARDIV)	<b>SUBTOTAL</b>	<b>175,074</b>	
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ENCLOSURE (1)

