

1. COMPONENT NAVY		FY 19 <u>86</u> 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-167	8. PROJECT COST (\$000) 1,100	

9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP	SF	11,725	76.28	894
Building	SF	11,725	61.23	(718)
Built-in Equipment	LS	-	-	(152)
Solar Hot Water System	LS	-	-	(24)
SUPPORTING FACILITIES				141
Special Construction Features	LS	-	-	(19)
Utilities	LS	-	-	(48)
Roads, Parking, Sidewalks	LS	-	-	(62)
Site Improvements	LS	-	-	(12)
SUBTOTAL				1,035
CONTINGENCY (5%)				52
TOTAL CONTRACT COST				1,087
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				60
TOTAL REQUEST				1,147
TOTAL REQUEST (ROUNDED)				1,100
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				

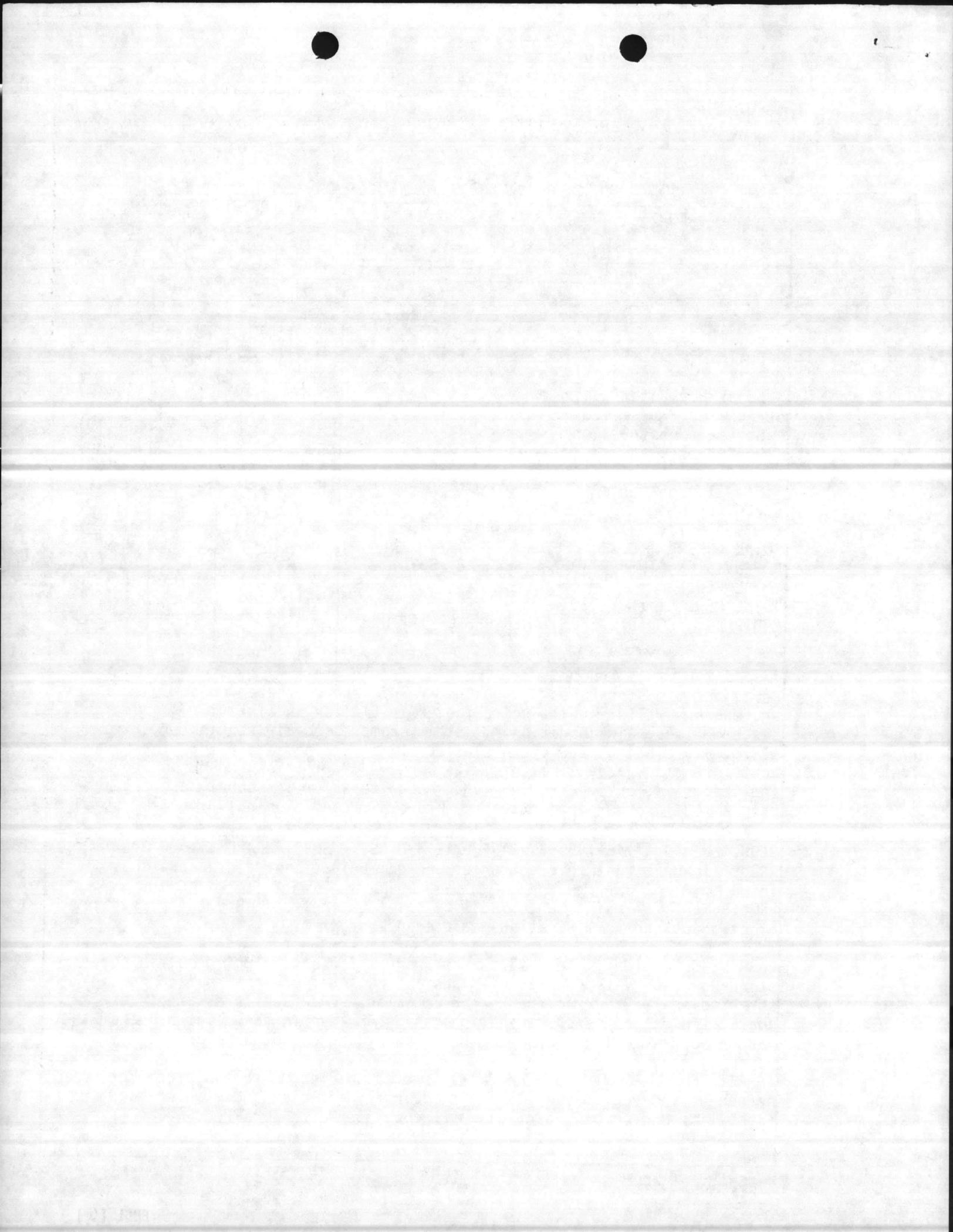
10. DESCRIPTION OF PROPOSED CONSTRUCTION  
 Permanent one story shop with piles, reinforced concrete foundation, floors, and masonry walls. Built-up roof over insulation and interior support systems, i.e., air conditioning, steam, compressed air, sprinkler, fire alarm, plumbing, 60/400 cycle electrical; 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. ( 38 tons air conditioning)

REQUIREMENTS: 46,185 SF. ADEQUATE 0 SF. SUBSTANDARD 0 SF  
 PROJECT: Construct an electronics and communications maintenance shop for a Communications Battalion of the 2d Force Service Support Group.  
 REQUIREMENT: A maintenance facility to effectively execute the prescribed electronics and communications maintenance program.

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.

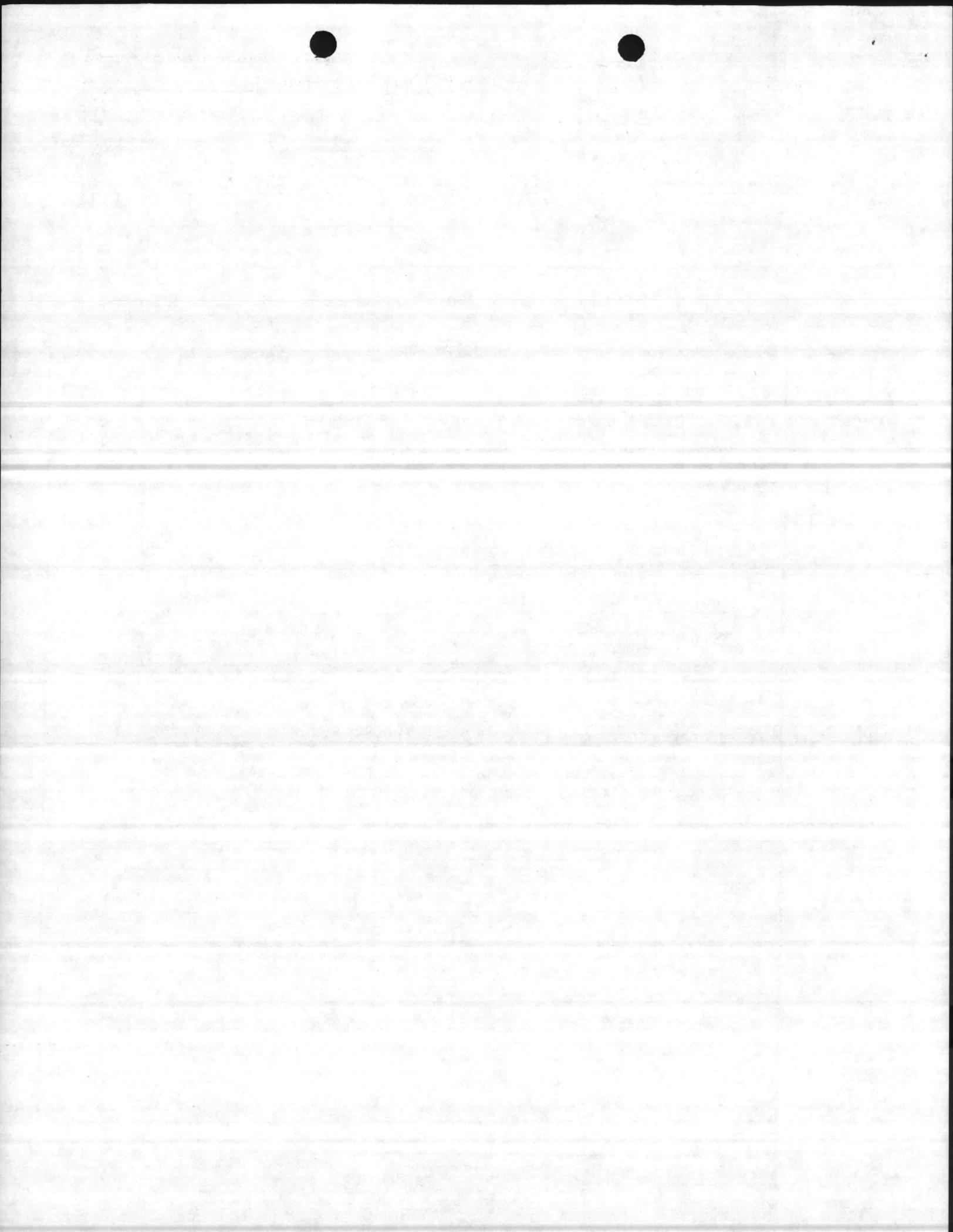
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SPECIAL CONSIDERATIONS

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 427G.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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FACILITY STUDY

1. Project. Provide 11,725 SF of electronics/communications maintenance shop for electronics and communications T/E equipment assigned to Communication Battalion for the 2d Force Service Support Group.

2. Current and Planned Future Workload with Regard to this Project. 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.

3. Description of Proposed Construction.

a. Type of Construction.

(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.

(2) Rigid and flexible walks and parking pavements, security fencing and lighting, site improvements, exterior utilities, etc.

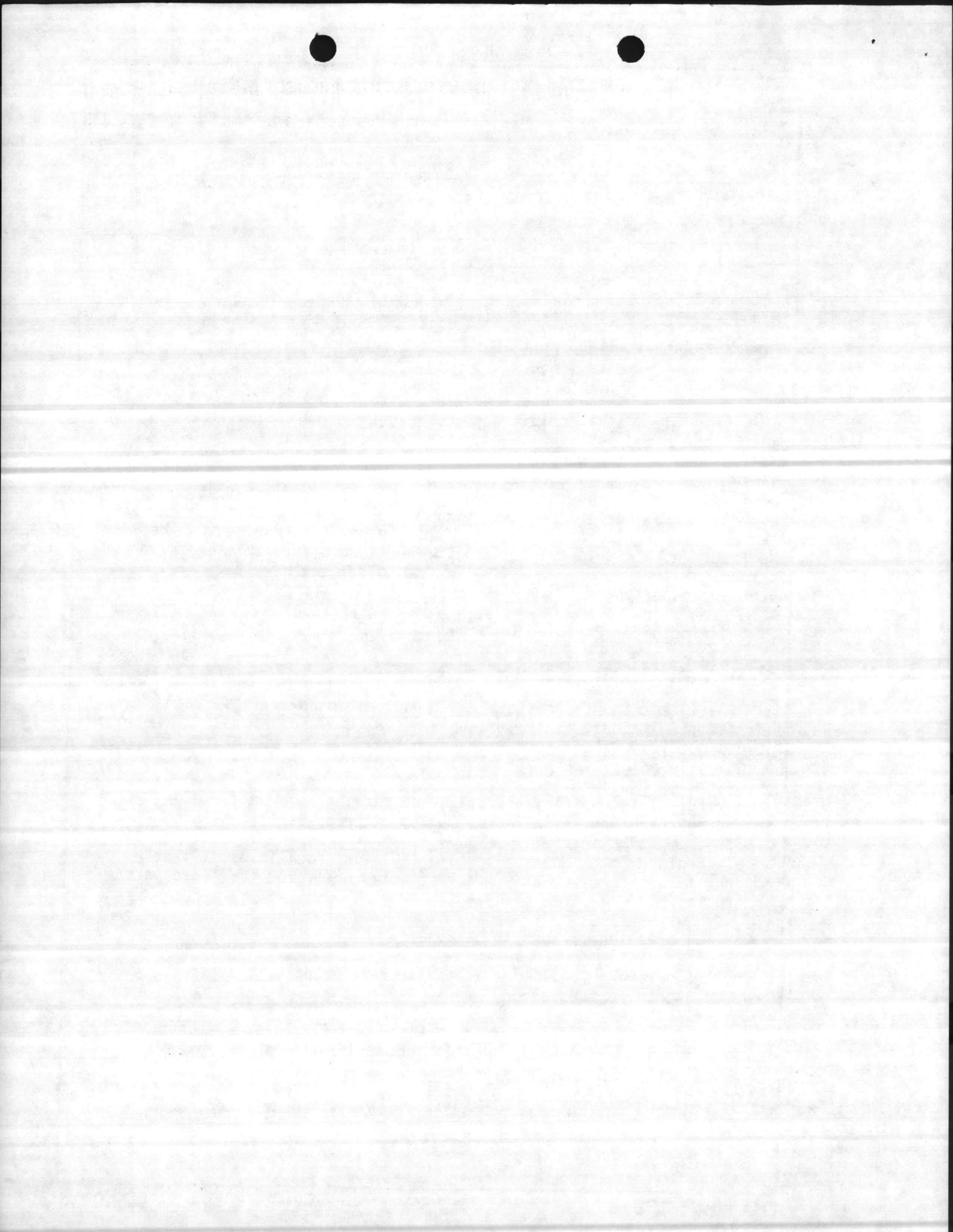
b. Replacement. Not applicable. Existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.

c. Description of Work to be Done.

(1) Primary Facilities. Modular reinforced concrete/masonry structures on pile foundation.

(a) Support Facilities. Rigid and flexible pavements, security fencing and lighting, utilities, and site improvement.

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



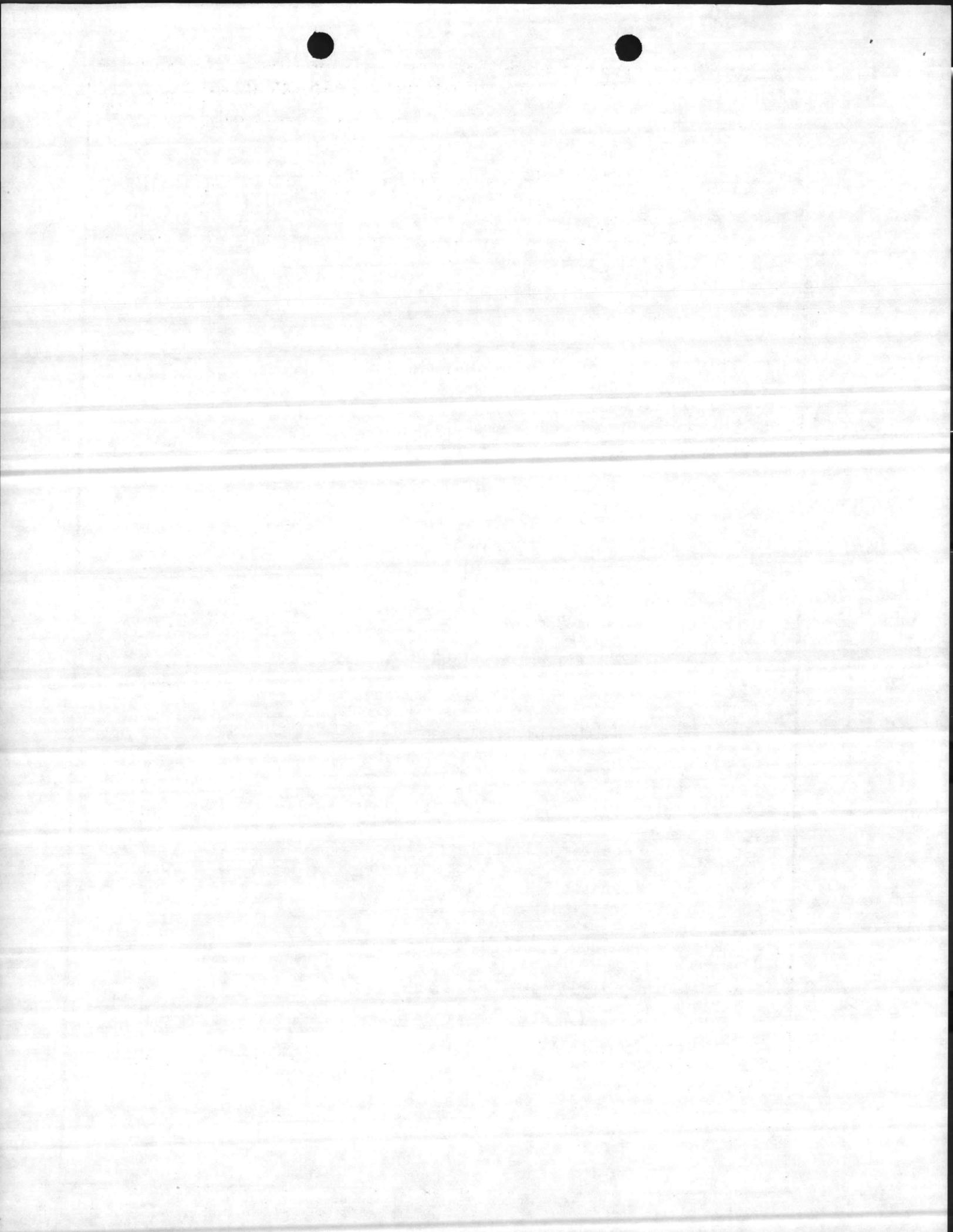
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(3) Collateral Equipment.

(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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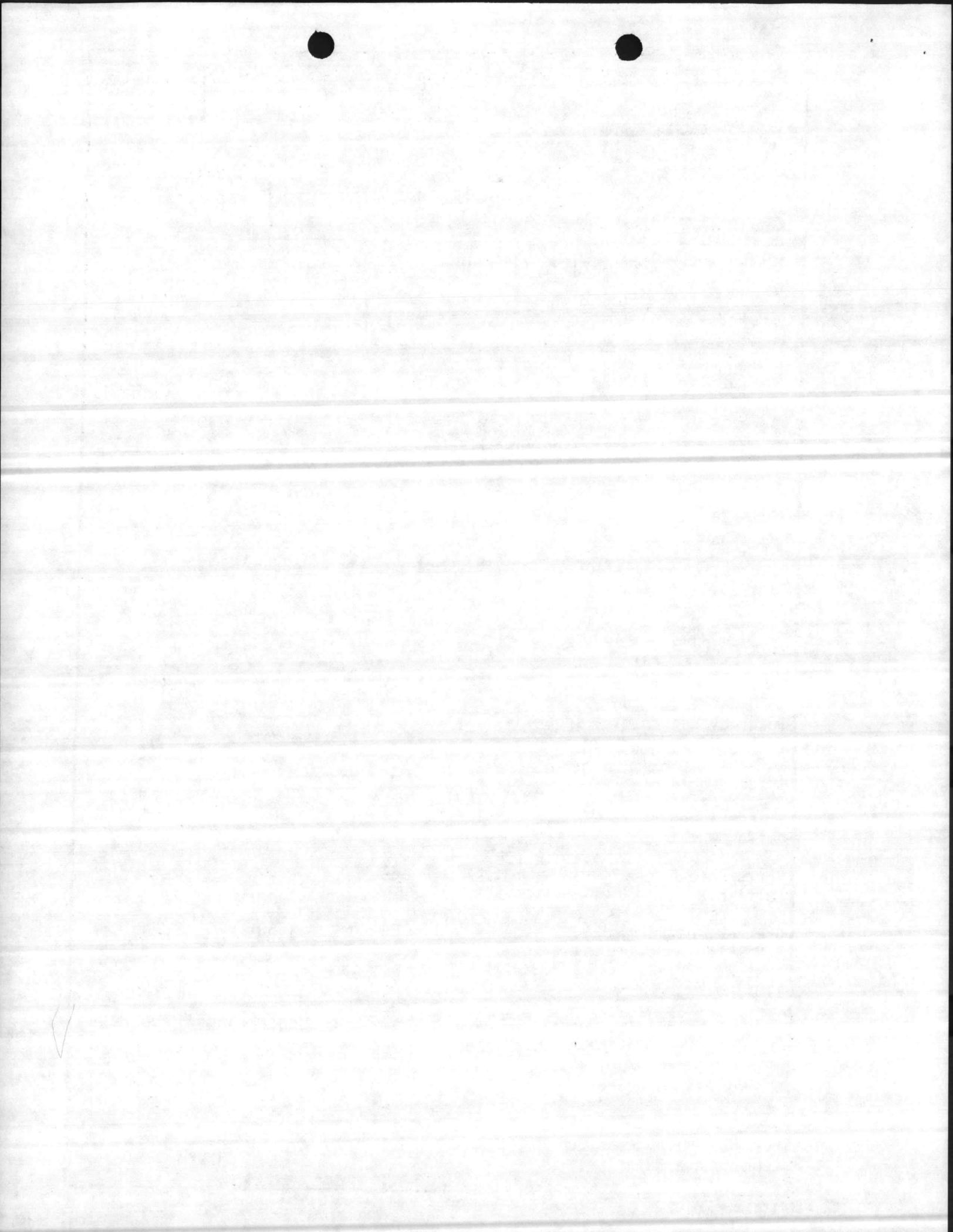
\*Pass Window, 4' wide,  
w/counter & "B" label  
roll down shutter (w/  
fusible link)

\*60/400 Cycle Electrical System  
with AC/DC Power Bus Bar and  
transformers

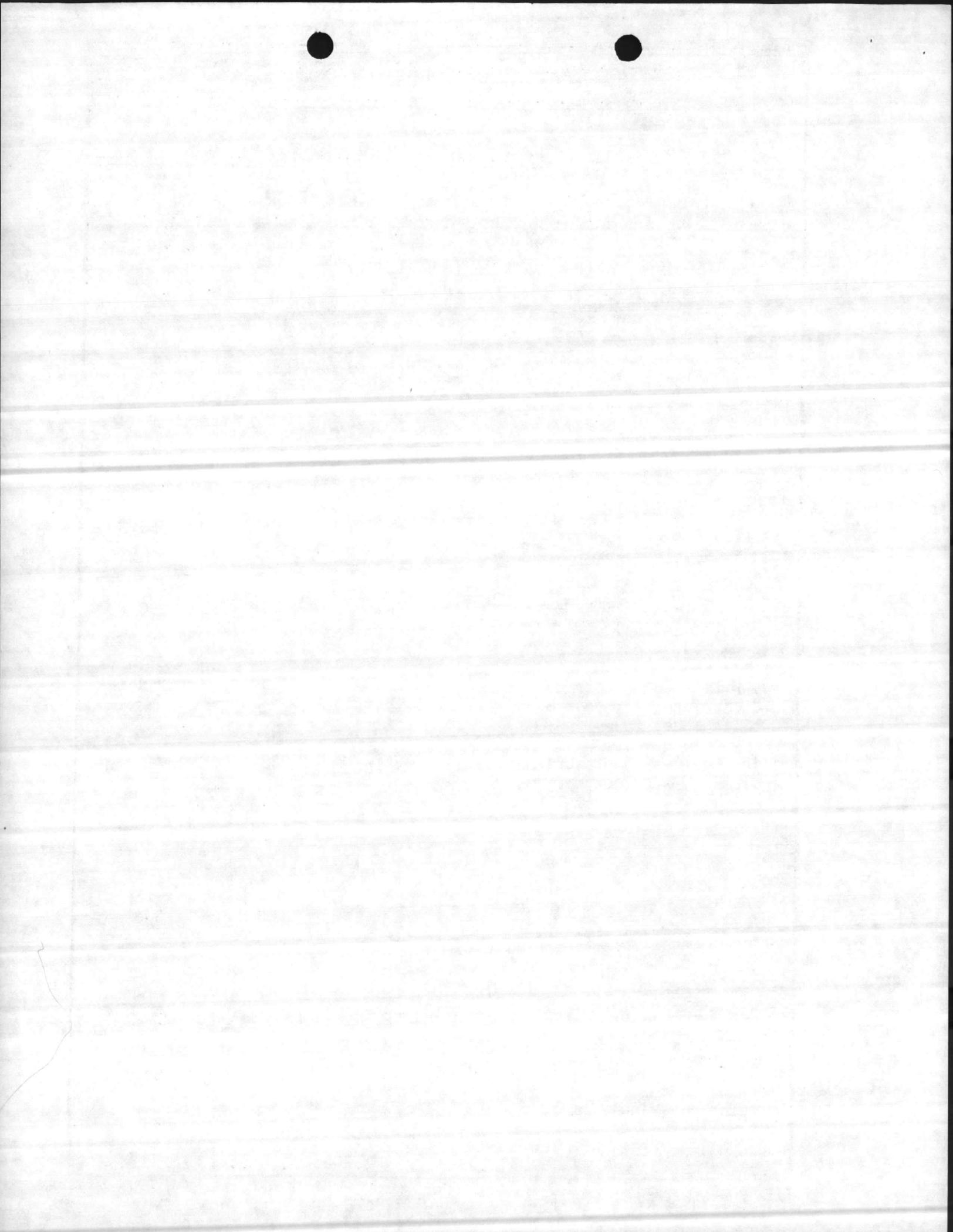
\*Equipment with associated installation cost.

(b) Expense Items

<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	18	EA	\$225	\$4,050
Benches, work, portable, 72"x28"x34"H	12	EA	340	4,080
Benches, work, stationary, 28"Dx34"H, stl top, std, lead covered in btry shop	16	EA	375	6,000
Parts Bins, adj shelving 14"x24"D	6	EA	75	450
Grinder, bench, 7" w/ buffer wheel	1	EA	385	385
Parts Rota Bins, 3' dia. multi-bin	16	EA	360	5,760
Charger, battery, 12V, 24V, 36V selenium type; battery tester, 12V, 24V, 36V, 2.2KW, 110/220V	4	EA	550	2,200
14"W shelving w/adj stds	24	EA	120	2,880
12"W shelving w/adj stds, 6 shelves, 36"W & 84"H	24	EA	90	1,080
Desk, flat top, dbl ped, 50"x30", walnut pattern top, no overhang	3	EA	315	945



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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, 45"x30" walnut pattern top, no overhang	8	EA	240	\$1,920
Desk, flat top, w/attach for sec'l & gen. clerical purposes	8	EA	275	2,220
Chair, rotary, tilting seat & back, adj. seat height, w/arms, w/casters	11	EA	94	1,034
Chair, secretarial, rotary adj. seat height, w/arms, w/casters	14	EA	70	980
Stand, office machine 2 drop leaves, walnut pattern top, w/casters	6	EA	66	396
Typewriter, IBM electric 13½" carriage, carbon ribbon, 10 pitch Model 833	6	EA	710	4,260
Filing Cabinet, 5 drawers, legal size, w/o lock	8	EA	220	1,760
Cabinet, storage, dbl door, 36"x18"x80-1/16"H	10	EA	190	1,900
Bookcase, base, 33"x13" x10"H	12	EA	20	240
Bookcase, section, w/o doors, 31"x12"x14"H	48	EA	40	1,920
Bookcase, top, 33"x 13"x2¼"H	12	EA	20	240
Chair, straight, w/o arms	36	EA	70	2,520
Costumer, wearing apparel, contemporary, 4 dbl hooks, round pole w/rd base	12	EA	35	420



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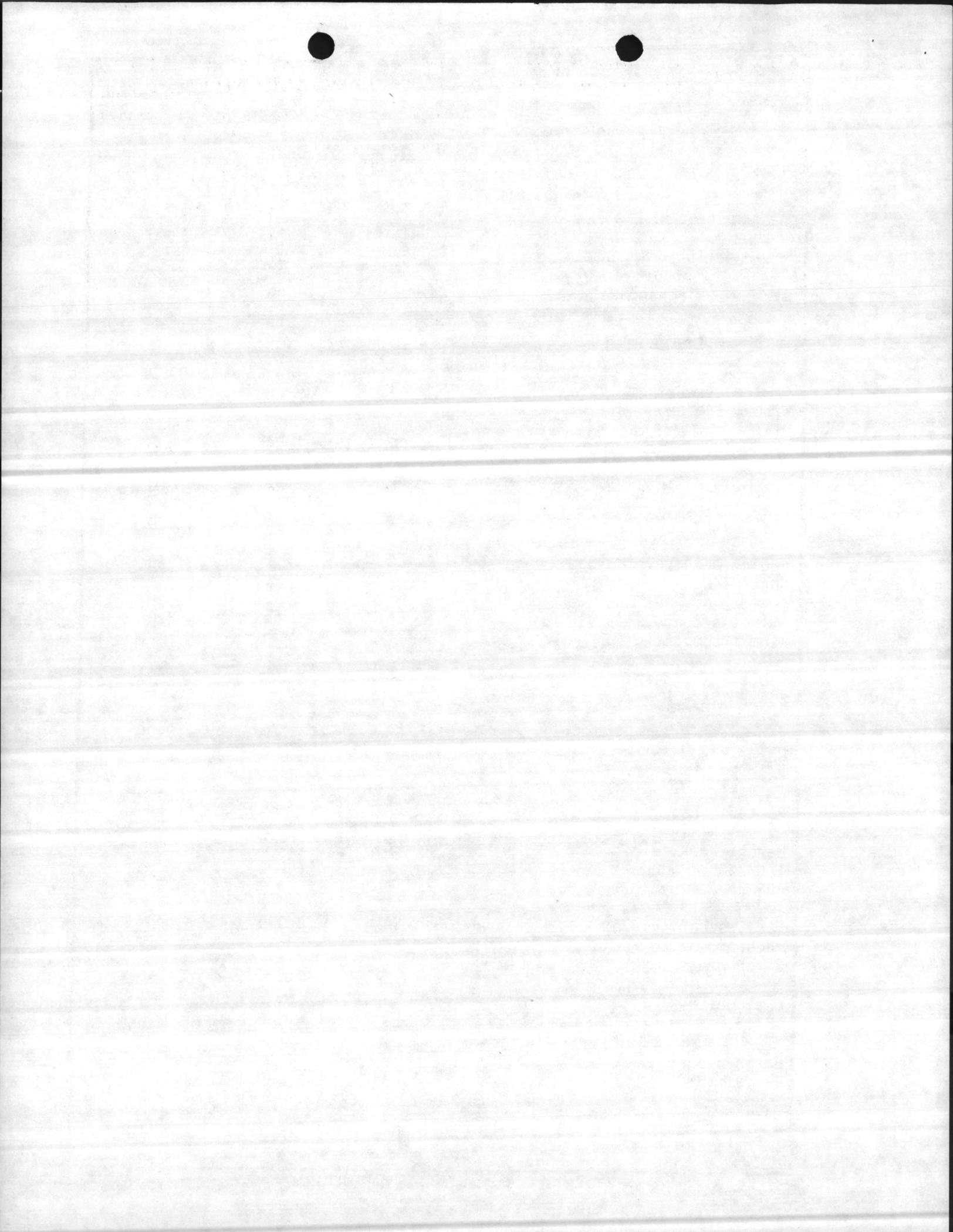
4. PROJECT TITLE

ELEC/COMM MAINTENANCE SHOP

5. PROJECT NUMBER

P-167

Description	Qty	Unit of Issue	Unit Price	Total Cost
Rack, wearing apparel contemporary, 6 metal hangers, 78"Hx30"Lx20"D at base	8	EA	85	\$ 680
Wastepaper Basket, dark brown, 14½"Hx13" dia top	24	EA	6	144
Draperies	5	PR	74	370
Draperies, blackout	4	PR	95	380
Desk Lamp	24	EA	45	1,080
Adding Machine, Monroe Model 1405	6	EA	290	1,740
Bulletin Board, cork, alum frame, 4'x6'	8	EA	65	520
Table, gen. purpose, 60"x30"x29½"H	6	EA	105	630
Student Chairs, Heywood Wakefield Model HC-7730-PABS-PP	42	EA	70	2,940
Portable Easel	3	EA	85	255
Bench, work, electronic, 120/220V, 60 cycle & 400 cyc., 28V	12	EA	1,450	17,400
Rack, security, for mechanics' tool boxes, 24 openings	3	EA	2,000	6,000
Extinguisher, fire, 15 lb., CO <sub>2</sub>	12	EA	85	1,020
Extinguisher, fire, 2½ gal. H <sub>2</sub> O	12	EA	40	480
TOTAL EXPENSE ITEMS				81,259



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Shipping, Packing, Handling Installation Charges & Contingencies - 10% 8,126

(c) Investment Items: None

(d) APA Equipment - None

(e) Training Equipment

<u>Description</u>	<u>Qty</u>	<u>Unit of Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Movie Projector	2	EA	630	1,260
Movie Screen	2	EA	120	240
Overhead Projector	2	EA		<u>824</u>

TOTAL TRAINING ITEMS \$ 2,324

Shipping, Packing, Handling, Installation Charges & Contingencies - 10% 232

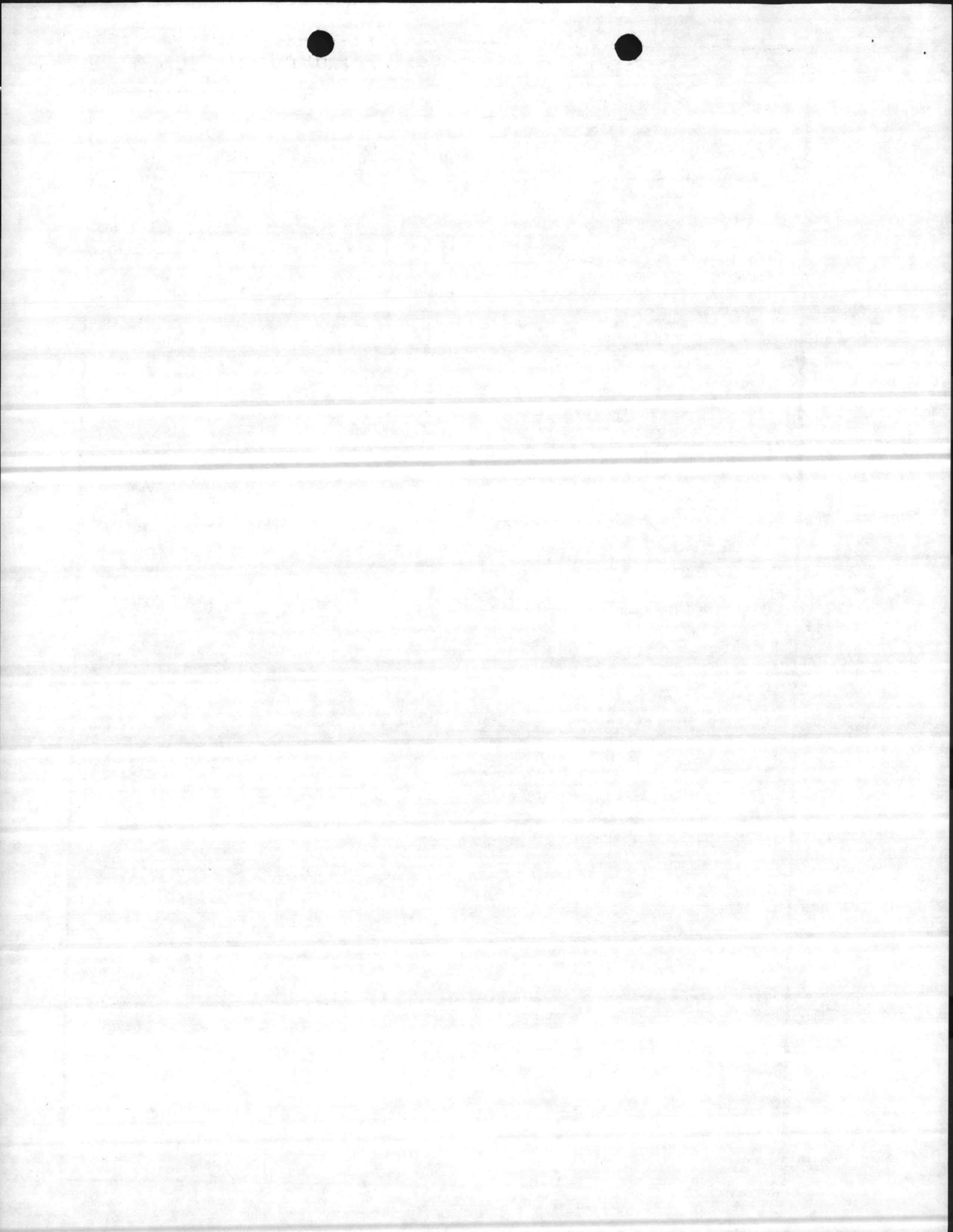
(f) Equipment on Hand - None

(g) Summary

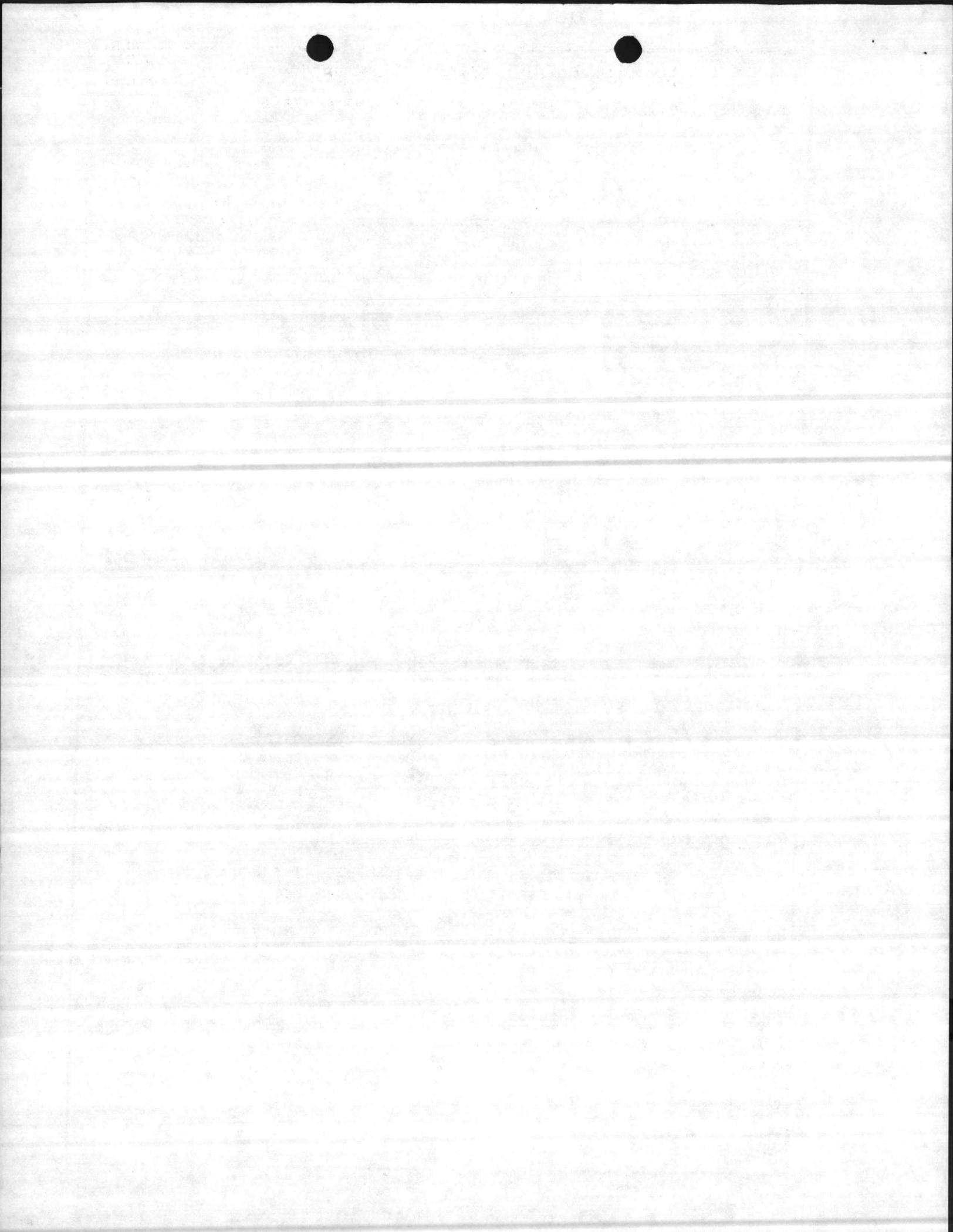
Expense Cost (O&MMC) 89,617

Training Cost (O&MMC) 2,324

TOTAL \$ 91,941



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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 a Communication 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, 11,725 SF, is the minimum size facility that can meet the deficiency requirement for the electronic/communications maintenance needs of the Communication Bn of 2d FSSG. 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 French Creek area.</p> <p>8. <u>Effect on Other Resources.</u> The project will require approximately \$4,072 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 <u>40,166</u>	KWHR/yr
	Peak Demand <u>25</u>	KW
	Avg Demand <u>23</u>	KW
b. Steam	Consumption <u>1,801,633</u>	lbs/yr
	Demand <u>645</u>	lbs/hr
c. Coal	<u>70.4</u>	tons/yr
d. Adequate utility requirements are available.		

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

10. Other Graphic Presentations, including Photographs. NONE

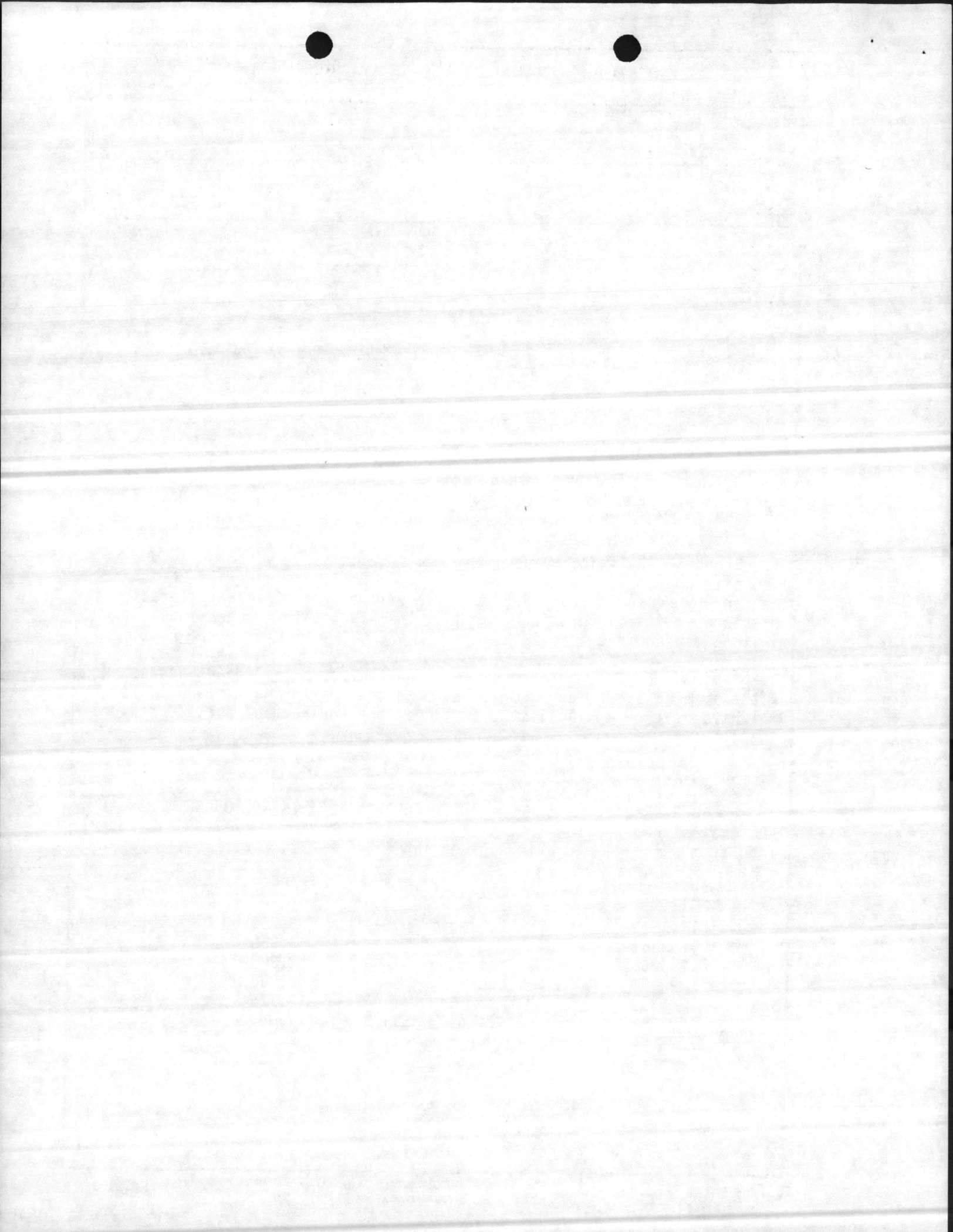
11. Economic Analysis. This facility is being constructed on an undeveloped site adjacent to a developed area. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in 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. French Creek Area (EA) is 46,185 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 #</u>	<u>ACTIVITY</u>	<u>AREA S.F.</u>
1293363	2d Radio Bn	9,750 U.C.
1293362	H&S Bn	3,950
1293366	Maint Bn	3,300
1293361	Lnd Sup Bn	6,100
1293365	Comm Bn	11,725
1293366	MT Bn	3,300
1293364	Engr Bn	4,760
1293366	Sup Bn	3,300 U.P.
TOTAL:		46,185



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<p>b. <u>Existing Facilities.</u> NONE</p> <p>c. <u>Planned Facilities.</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Project No.</u></th> <th style="text-align: left;"><u>Area SF</u></th> <th style="text-align: left;"><u>Status</u></th> </tr> </thead> <tbody> <tr> <td>P-117</td> <td>9,750</td> <td>Under Construction</td> </tr> <tr> <td>P-505</td> <td>3,950</td> <td>FY-84 Program</td> </tr> <tr> <td>P-538</td> <td>3,300</td> <td>FY-84 "</td> </tr> <tr> <td>P-564</td> <td>6,100</td> <td>FY-84 "</td> </tr> <tr> <td>P-167</td> <td>11,725</td> <td>FY-86 "</td> </tr> <tr> <td>P-541</td> <td>3,300</td> <td>FY-87 "</td> </tr> <tr> <td>P-542</td> <td>4,760</td> <td>FY-87 "</td> </tr> <tr> <td>P-543</td> <td>3,300</td> <td>U.P.</td> </tr> <tr> <td colspan="2" style="padding-top: 10px;">SUBTOTAL</td> <td style="text-align: right; padding-top: 10px;"><u>46,185</u></td> </tr> </tbody> </table> <p>d. Existing Adequate Facilities      0  Planned Facilities                      <u>46,185</u></p> <p style="padding-left: 40px;">Total Planned &amp; Existing            46,185</p> <p style="padding-left: 40px;">BFRL TOTAL                              46,185</p>			<u>Project No.</u>	<u>Area SF</u>	<u>Status</u>	P-117	9,750	Under Construction	P-505	3,950	FY-84 Program	P-538	3,300	FY-84 "	P-564	6,100	FY-84 "	P-167	11,725	FY-86 "	P-541	3,300	FY-87 "	P-542	4,760	FY-87 "	P-543	3,300	U.P.	SUBTOTAL		<u>46,185</u>
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