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1 NOVEMBER 1984

DEPARTMENT OF THE NAVY

PROJECT ENGINEERING DOCUMENTATION

APPLIED INSTRUCTION BUILDING

P-808

FY 1986 MCON

MARINE CORPS BASE
CAMP LEJEUNE
JACKSONVILLE, N.C.

ADMINISTERED BY:

ATLANTIC DIVISION
NAVAL FACILITIES
ENGINEERING COMMAND
NORFOLK, VA 23511

PREPARED BY:

NAKAZAWA CORPORATION
ARCHITECTS & PLANNERS
212 S. TRYON STREET
CHARLOTTE, NC 28281

1. COMPONENT	FY 1986 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		01 NOV 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	APPLIED INSTRUCTION BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-20	P-808	

9. COST ESTIMATES

Escalation: (8%)? ITEM Escalated to Date 1 APRIL 1986	U/M	QUANTITY	UNIT COST	COST ($000)
APPLIED INSTRUCTION BUILDING.	SF	26,961	50.18	1,353
Building	SF	26,961	39.46	(1,064)
Built-in Equipment	LS	-	-	(289)
SUPPORTING FACILITIES	LS	-	-	1,195
Electrical Distribution	LS	-	-	(237)
Heat Distribution	LS	-	-	(242)
Water, Sanitary, Storm	LS	-	-	(371)
Roads, Parking, Sidewalks	LS	-	-	(345)
SUB-TOTAL				2,548
CONTINGENCY (5%)				127
TOTAL CONTRACT COST				2,675
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				140
TOTAL REQUEST				2,815
TOTAL REQUEST (ROUNDED)				2,800
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				142

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a permanent applied instruction building consisting of reinforced concrete foundation, concrete floor, masonry walls, steel framing with steel joists, metal roof decking, insulation and built-up roof. Heating, ventilation, and air conditioning; utilities; paving, roads, walks and site improvements.
Air Conditioning - 43 Tons.

11. REQUIREMENT: 109,200 SF ADEQUATE: 640 SF SUBSTANDARD 26,961 SF
171-20 109,200 171-20 10,732 171-20 54,658
171-10 217,304 171-10 0 171-10 99,208

PROJECT: To construct Increment I of Applied/Academic facilities for the Motor Transport School, MCSS.

REQUIREMENT: Project is required to provide adequate facilities for training of military personnel in 2nd, 3rd, and 4th eschelon maintenance of Marine Corps equipment.

CURRENT SITUATION: The existing Motor Transport School facilities are located in inadequate World War II (WWII) wood and masonry buildings.

IMPACT IF NOT PROVIDED: Continued training of Marine Corps personnel in highly crowded, inefficient and inadequate facilities will impair the effectiveness and readiness of U.S. Marine Corps Personnel.

1. COMPONENT	FY 19 86 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		01 NOV 84

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
APPLIED INSTRUCTION BUILDING	P-808

ENVIRONMENTAL PROTECTION: The project Preliminary Environmental Assessment has been reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.

PRESERVATION OF HISTORICAL SITES AND STRUCTURES: The project facilities do 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.

FLOODPLAIN MANAGEMENT AND WETLANDS PROTECTION:

FLOOD HAZARDS EVALUATION: Requirements of Executive Order No. 11988 (Floodplain Management) and Executive Order No. 11990 (Protection of Wetlands) are not applicable.

COASTAL ZONE MANAGEMENT: In accordance with the Coastal Zone Management Act of 1972 (as amended), this project will not directly affect the coastal zone and a coastal consistency determination is not required.

POLLUTION ABATEMENT: This project will not cause additional air or water pollution.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL: Provisions for physically handicapped personnel provided in this facility as required by Design Manual DM-1, Architecture.

ENDANGERED SPECIES PROTECTION: This project will not jeopardize conservation of endangered or threatened species.

INTERGOVERNMENTAL COORDINATION: No Intergovernmental coordination is required for this project.

ECONOMIC ANALYSIS & ENERGY CONSERVATION FORTHCOMING UPON LANTDIV APPROVAL OF TRANE'S COMPUTERIZED ENERGY PROGRAM FORM ENCLOSED HEREWITH.

NOTE

BUDGET ESTIMATE FOR P-808

Title: APPLIED INSTRUCTION BUILDING
Location: MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, N.C.
Prepared By: NAKAZAWA CORPORATION Date: 01 NOV 1984

Costs Escalated to: 1 April, 1986
Escalation: 8%
Contingency: 5%

BUILDING GROSS SQUARE FEET	S/SF	S/SYS	SYS QUAN	TOTAL	BUILDING	BUILT-IN EQUIPMENT
PRIMARY FACILITY						
01 Foundation	2.11			57,000	57,000	
02 Slab on Grade	2.71			73,000	73,000	
03 Structural System	2.34			63,000	63,000	
06 Roof System	8.49			229,000	229,000	
07 Exterior Wall System	6.68			180,000	180,000	
08 Interior Wall System	1.67			45,000	45,000	
09 Interior Finishes System	2.59			70,000	70,000	
10 Doors and Windows System	3.52			95,000	95,000	
11 Specialties System	0.82			22,000	11,000	11,000
M5 Plumbing	2.89			78,000	38,000	40,000
23 Mechanical, Interior	7.05			190,000	49,000	141,000
30 Interior Fire Protection	3.30			89,000	11,000	78,000
33 Interior Electrical	5.49			148,000	143,000	5,000
44 Interior Communication	0.52			14,000	0	14,000
SUBTOTAL BUILDING	$50.18			$1,353,000	$1,064,000	$289,000
SUPPORTING FACILITIES						
50 Electrical Distribution		146.00	1500 LF	220,000		
51 Electrical Transformer		34.50	500 KVA	17,000		
58 Heat Distribution		80.50	3000 LF	242,000		
60 Sanitary Sewers		56.92	2600 LF	148,000		
62 Water Distribution		32.05	4400 LF	141,000		
65 Fuel Storage		1	5000 LS	* 5,000		*
68 Lift/Pumping Station		1	EA	77,000		
77 Paving		1	LS	345,000		
SUBTOTAL SUPPORTING FACILITIES				$1,195,000		
TOTAL ESTIMATED CONTRACT COST: 1 APRIL 1986				2,548,000		
CONTINGENCY @ 5%				127,000		
SIOH @ 5.5%				140,000		
TOTAL BUDGET COST				2,815,000		
ROUNDED				2,800,000		

MATERIAL & LABOR COST ESTIMATE | LANTDIV NORVA 4-11012/5 (REV. 12/80) /COPY | SHEET 1 OF 1
PREPARED BY: NAKAZAWA CORPORATION | ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND | Const.Contr.No.
FUNDS AVAILABLE: | NORFOLK, VIRGINIA | DATE: 01 NOVEMBER 1984

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON | LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C. | PRELIM | FINAL

ITEMS	QUANTITY	UNIT	MATERIAL COST UNIT	MATERIAL COST TOTAL	LABOR COST UNIT	LABOR COST TOTAL	TOTAL COST	REMARKS

THE FOLLOWING MULTIPLIERS WILL APPLY TO MATERIAL AND LABOR COSTS:

FOR MATERIALS AND LABOR PROVIDED BY THE GENERAL CONTRACTOR:

01) PRIME CONTRACTOR MATERIALS MARK-UP =
1.04 (materials tax) x 1.12 (overhead) x 1.08 (profit) x 1.01 (bond) = 1.27 PRIME MATERIALS MARKUP

02) PRIME CONTRACTOR LABOR MARK-UP =
1.18 (payroll taxes, fringe benefits, worker's comp.,PL/PD insur)
x 1.12 (overhead) x 1.08 (profit) x 1.01 (bond) = 1.44 PRIME LABOR MARKUP

FOR MATERIALS AND LABOR PROVIDED BY THE SUB-CONTRACTOR:

03) SUB-CONTRACTOR MATERIALS MARK-UP =
1.04 (materials tax) x 1.12 (overhead) x 1.08 (profit) x 1.01
(bond) x 1.10 (prime contractor markup) = 1.40 SUB-CONTRACTOR MATERIAL MARKUP

04) SUB-CONTRACTOR LABOR MARK-UP =
1.18 (taxes, insur.,fringes) x 1.12 (overhead) x 1.08 (profit)
x 1.01 (bond) x 1.10 (prime contractor markup) = 1.59 SUB-CONTRACTOR LABOR MARKUP

MATERIAL & LABOR COST ESTIMATE
PREPARED BY: NAKAZAWA CORPORATION
FUNDS AVAILABLE:

LANTDIV NORVA 4-11012/5 (REV. 12/80) /COPY
ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA

Const.Contr.No.
DATE: 01 NOV 1984

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON

LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C.

PRELIM FINAL

ITEMS	QUANTITY	UNIT	MATERIAL COST UNIT	MATERIAL COST TOTAL	LABOR COST UNIT	LABOR COST TOTAL	TOTAL COST	REMARKS
01 FOUNDATION:								
a) Reinforcing Steel	12	TN	520.00	6,240.00	200.00	2,400.00		
b) Concrete Formwork	4,932	SF	0.56	2,761.92	1.20	5,918.40		
c) Concrete, Foundation	165	CY	54.50	8,992.50	4.20	693.00		
d) Excavation	2,000	CY	3.20	6,400.00	1.95	3,900.00		
e) Backfill	500	CY	1.10	550.00	1.85	925.00		
SUB-TOTAL				24,944.42		13,836.40		
SYSTEM 01: TOTAL W/SUB-CONTR. MARKUP			1.40		1.59			
				34,922.19		21,999.88	$56,922.06	
02 SLAB ON GRADE								
a) Capillary Water Barrier	500	CY	14.50	7,250.00	3.15	1,575.00		
b) Welded Wire Fabric	285	SQ	14.80	4,218.00	9.50	2,707.50		
c) Perimeter Rigid Insulation	1,500	SF	0.38	570.00	0.23	345.00		
d) Reinforcing Steel	6	TN	520.00	3,120.00	200.00	1,200.00		
e) Vapor Barrier	2,850	SY	1.65	4,702.50	0.90	2,565.00		
f) Concrete Slab Placement	471	CY	54.50	25,669.50	5.20	2,449.20		
SUB-TOTAL				45,530.00		10,841.70		
SYSTEM 02: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44			
				57,823.10		15,612.05	$73,435.15	
03 STRUCTURAL SYSTEM								
a) Structural Steel Frame	38	TN	942.00	35,796.00	210.00	7,980.00		
SUB-TOTAL				35,796.00		7,980.00		
SYSTEM 03: TOTAL W/SUB-CONTR. MARKUP			1.40		1.59			
				50,114.40		12,688.20	$62,802.60	
06 ROOF SYSTEM								
a) Steel Joists	51	TN	660.00	33,660.00	175.00	8,925.00		
b) Metal Deck - 1 1/2" x 22 Ga.	25,400	SF	1.48	37,592.00	0.54	13,716.00		
c) Composite Board Insulation	14,300	SF	0.63	9,009.00	0.12	1,716.00		
d) Roof Insulation	11,100	SF	0.45	4,995.00	0.12	1,332.00		
e) Built-Up Roofing - 4 ply	254	SQ	48.85	12,407.90	34.20	8,686.80		
f) Flashing	900	LF	2.21	1,989.00	0.82	738.00		

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON | LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C. | PRELIM | FINAL

ITEMS	QUANTITY	UNIT	MATERIAL COST UNIT	MATERIAL COST TOTAL	LABOR COST UNIT	LABOR COST TOTAL	TOTAL COST	REMARKS
g) Gutters and Downspouts	240	LF	1.85	444.00	0.80	192.00		
h) Skylight, Roof	1,476	SF	22.25	32,841.00	4.23	6,243.48		
i) Scupper	8	EA	18.00	144.00	8.50	68.00		
SUB-TOTAL				133,081.90		41,617.28		
SYSTEM 06: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44			
				169,014.01		59,928.88	$228,942.90	
07 EXTERIOR WALL SYSTEM								
a) Brick, Face, Standard Size	86	M	135.00	11,610.00	365.00	31,390.00		
b) Concrete Masonry Unit, Hollow 8"	12,700	SF	1.09	13,843.00	1.64	20,828.00		
c) Insulation, Wall	4,716	SF	0.21	990.36	0.15	707.40		
d) Metal Wall Panels, Insulated	5,040	SF	6.50	32,760.00	1.75	8,820.00		
e) Structural Steel Framing & Lintels	10,000	LB	0.56	5,600.00	0.32	3,200.00		
f) Exterior Painting	4,000	SF	0.11	440.00	0.15	600.00		
g) Exterior Flashing	750	LF	0.78	585.00	0.82	615.00		
h) Exterior Calking	1,200	LF	0.06	72.00	0.62	744.00		
SUB-TOTAL				65,900.36		66,904.40		
SYSTEM 07: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44			
				83,693.46		96,342.34	$180,035.79	
08 INTERIOR WALL SYSTEM								
a) 8" Concrete Masonry Units	9,000	SF	1.09	9,810.00	1.64	14,760.00		
b) 6" Concrete Masonry Units	2,400	SF	0.91	2,184.00	1.52	3,648.00		
c) 4" Concrete Masonry Units	1,000	SF	0.74	740.00	1.40	1,400.00		
SUB-TOTAL				12,734.00		19,808.00		
SYSTEM 08: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44			
				16,172.18		28,523.52	$44,695.70	
09 INTERIOR FINISHES SYSTEM								
a) 5/8" Gypsum Wall Board Ceilings	1,400	SF	0.23	322.00	0.38	532.00		
b) Acoustic Tile Ceilings	8,350	SF	0.42	3,507.00	0.19	1,586.50		
c) Field Painting	23,000	SF	0.11	2,530.00	0.15	3,450.00		
d) Acoustical Wall Board	2,500	SF	2.30	5,750.00	0.45	1,125.00		
e) Carpeting	435	SY	14.20	6,177.00	2.10	913.50		

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON | LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C. | PRELIM | FINAL

ITEMS	QUANTITY	UNIT	MATERIAL COST UNIT	MATERIAL COST TOTAL	LABOR COST UNIT	LABOR COST TOTAL	TOTAL COST	REMARKS
f) Ceramic Tile Flooring	1,100	SF	1.65	1,815.00	1.46	1,606.00		
g) Ceramic Tile Wainscot	700	SF	1.40	980.00	1.41	987.00		
h) Vinyl Composition Tile (VCT)	7,750	SF	0.81	6,277.50	0.27	2,092.50		
i) Floor Hardener	9,500	SF	0.04	380.00	0.12	1,140.00		
j) Vinyl Wall Covering	500	SF	0.56	280.00	0.30	150.00		
k) Suspended Ceiling Systems	9,750	SF	0.34	3,315.00	0.32	3,120.00		
SUB-TOTAL				31,333.50		16,702.50		
SYSTEM 09: TOTAL W/SUB-CONTR. MARKUP			1.40		1.59			
				43,866.90		26,556.98	$70,423.88	
10 DOORS AND WINDOWS SYSTEM								
a) Exterior Overhead Rolling Steel Door Frames	6,000	LB	0.55	3,300.00	0.37	2,220.00		
b) Exterior Door Frames - 6x7	9	EA	72.00	648.00	20.00	180.00		
c) Exterior Overhead Rolling Steel Doors	10	EA	1685.00	16,850.00	347.00	3,470.00		
d) Exterior Doors - Pairs (6x7)	9	EA	345.00	3,105.00	42.00	378.00		
e) Interior Doors - 3x7	18	EA	165.00	2,970.00	21.00	378.00		
f) Interior Doors - 6x7	2	EA	330.00	660.00	42.00	84.00		
g) Hollow Metal Door Frames - 3x7	18	EA	53.00	954.00	16.00	288.00		
h) Hollow Metal Door Frames - 6x7	2	EA	65.00	130.00	19.00	38.00		
i) Exterior Window Frames	450	SF	8.50	3,825.00	2.40	1,080.00		
j) Interior Window Frames	128	SF	6.50	832.00	2.40	307.20		
k) Exterior Glass & Glazing - 1" Insulation	1,450	SF	5.50	7,975.00	2.80	4,060.00		
l) Interior Glass & Glazing - 1/4" plate	128	SF	1.65	211.20	2.40	307.20		
m) Calking	850	LF	0.06	51.00	0.62	527.00		
n) Painting of Doors and Frames	4,000	SF	0.12	480.00	0.16	640.00		
o) Hardware	38	EA	214.00	8,132.00	43.00	1,634.00		
SUB-TOTAL				50,123.20		15,591.40		
SYSTEM 10: TOTAL W/SUB-CONTR. MARKUP			1.40		1.59			
				70,172.48		24,790.33	$94,962.81	
11 SPECIALTIES SYSTEMS								
a) Graphics	1	LS	800.00	800.00	400.00	400.00		
b) Louvers - 2'x4'	16	SF	21.00	336.00	4.50	72.00		

MATERIAL & LABOR COST ESTIMATE — LANTDIV NORVA 4-11012/5 (REV. 12/80) /COPY — SHEET 4 OF 6
PREPARED BY: NAKAZAWA CORPORATION — ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND — Const.Contr.No.
FUNDS AVAILABLE: — NORFOLK, VIRGINIA — DATE: 01 NOV 1984

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON — LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C. — PRELIM — FINAL

ITEMS	QUANTITY	UNIT	MATERIAL COST UNIT	MATERIAL COST TOTAL	LABOR COST UNIT	LABOR COST TOTAL	TOTAL COST	REMARKS
c) Window Shades - 4'x2'	16	EA	42.00	672.00	30.00	480.00		
d) Ladder	1	EA	400.00	400.00	180.00	180.00		
e) Toilet Partitions	12	EA	225.00	2,700.00	40.00	480.00		
f) Toilet Accessories	30	EA	60.00	1,800.00	10.00	300.00		
g) Instructor Platforms	6	EA	250.00	1,500.00	135.00	810.00		
h) Classroom Seating (Tier)	3	EA	1200.00	3,600.00	150.00	450.00		
SUB-TOTAL				11,808.00		3,172.00		
SYSTEM 11: TOTAL W/SUB-CONTR. MARKUP			1.40	16,531.20	1.59	5,043.48	$21,574.68	

MATERIAL & LABOR COST ESTIMATE
PREPARED BY: NAKAZAWA CORPORATION
FUNDS AVAILABLE:

LANTDIV NORVA 4-11012/5 (REV. 12/80) /COPY
ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA

SHEET 5 OF 6
Const.Contr.No.
DATE: 01 NOV 1984

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON

LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C.

PRELIM FINAL

ITEMS	QUANTITY	UNIT	MATERIAL, LABOR, OVERHEAD & PROFIT UNIT		MATERIAL, LABOR, OVERHEAD & PROFIT TOTAL COST	REMARKS
1B PLUMBING:						
12 PLUMBING - DOMESTIC	40	EA	$1,725.00		$69,000.00	
13 ROOF DRAINAGE	10	EA	$920.00		$9,200.00	
				TOTAL	$78,200.00	
1C INTERIOR MECHANICAL:						
15 HVAC	43	TN	$2,862.00		$123,050.00	
17 HEATING & VENTILATING	10,000	CFM	$2.59		$25,875.00	
18 ENGINE EXHAUST SYSTEM	3,200	CFM	$5.75		$18,400.00	
20 COMPRESSED AIR SYSTEM	120	CFM	$191.67		$23,000.00	
				TOTAL	$190,325.00	
1D INTERIOR FIRE PROTECTION:						
26 SPRINKLER SYSTEM	27,000	SF	$2.90		$78,200.00	
28 FIRE ALARM SYSTEM	27,000	SF	$0.40		$10,867.00	
				TOTAL	$89,067.00	
1E INTERIOR ELECTRICAL:						
31 POWER SYSTEM	200	KW	$233.45		$46,690.00	
32 LIGHTING SYSTEM	27,000	SF	$3.45		$93,150.00	
34 SECURITY DETECTION SYSTEM	27,000	SF	$0.17		$4,658.00	
39 ENERGY MONITORING & CONTROL	10	EA	$345.00		$3,450.00	
				TOTAL	$147,948.00	
1F INTERIOR COMMUNICATION:						
41 TELEPHONE SYSTEM	27,000	SF	$0.17		$4,658.00	
42 INTERCOMMUNICATION	27,000	SF	$0.35		$9,315.00	
				TOTAL	$13,973.00	

MATERIAL & LABOR COST ESTIMATE — LANTDIV NORVA 4-11012/5 (REV. 12/80) /COPY — SHEET 6 OF 6
PREPARED BY: NAKAZAWA CORPORATION — ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND — Const.Contr.No.
FUNDS AVAILABLE: — NORFOLK, VIRGINIA — DATE: 01 NOV 1984

PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON — LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, N.C. — PRELIM — FINAL

SUPPORTING FACILITIES

	ITEMS	QUANTITY	UNIT	MATERIAL, LABOR, OVERHEAD & PROFIT UNIT		MATERIAL, LABOR, OVERHEAD & PROFIT TOTAL COST	REMARKS
EA	EXTERIOR ELECTRICAL:						
50	ELECTRICAL DISTRIBUTION	1,500	LF	$146.00		$220,000.00	
51	ELECTRICAL TRANSFORMER	500	KVA	$34.50		$17,250.00	
					TOTAL	$237,250.00	
EB	EXTERIOR MECHANICAL:						
58	HEAT DISTRIBUTION	3,000	LF	$80.50		$241,500.00	
60	SANITARY SEWERS	2,600	LF	$56.92		$148,000.00	
62	WATER DISTRIBUTION	4,400	LF	$32.05		$141,000.00	
65	FUEL STORAGE	1	LS	$5,000.00		$5,000.00	
					TOTAL	$535,500.00	
EC	EXTERIOR STRUCTURES:						
68	LIFT/PUMPING STATIONS	1	EA	$77,000.00		$77,000.00	
					TOTAL	$77,000.00	
ED	PAVING:						
73	ROADS	12,600	SY	$21.23		$267,000.00	
74	PARKING	3,600	SY	$21.23		$76,000.00	
75	SIDEWALKS	80	SY	$25.00		$2,000.00	
					TOTAL	$345,000.00	
EE	SITE PREPARATION:						
78	STORM DRAINAGE	1,975	LF	$51.65		$102,000.00	
79	SITE EARTHWORK	10,800	CY	$4.44		$48,000.00	
81	TOPSOIL, SEED	22,220	SY	$1.62		$36,000.00	
82	LANDSCAPING	1	LS	$12,000.00		$12,000.00	
83	SITE IMPROVEMENTS	1	LS	$5,000.00		$5,000.00	
					TOTAL	$150,000.00	

DESIGN CONCEPTS

ACTIVITY AND LOCATION: MARINE CORPS BASE
CAMP LEJEUNE, N.C.

PROJECT TITLE: APPLIED INSTRUCTION BUILDING (P-808)

DATE: 16 OCTOBER, 1984

USE OF DEFINITIVES AND PREVIOUS DESIGNS

No definitives or previous designs are suitable to satisfy this design requirement. Based on meetings and interviews on 5 March and 24 September 1984 with the Using Agency, the A/E (Nakazawa Corporation) obtained quantitative data from which a macro plan was developed for the entire three phase (P-808, P-809, P-810) Project. In the interest of economy, these projects are being planned as a single building with phased construction. A site plan, floor plan, and elevations showing all three phases was submitted to the Using Agency for their review and comments. The plan and elevations for phase one (P-808) submitted herewith is a unique design with provisions to attach phase two and three (P-809, P-810) with minimal modifications.

SPECIAL DESIGN CHARACTERISTICS

The proposed building is one of a three phase building program. A mini-master plan established the building massing, elevations, floor plans, and orderly additions and site development of the subsequent phases. The exterior walls consist of brick masonry, overhead vehicle doors, glazed surfaces and metal siding.

Included in Project-808 will be incoming roadways, clearing and grading of the total site and incoming utilities sized to accommodate all three building phases (P-808, P-809, P-810).

POLLUTION ABATEMENT ASPECTS OF DESIGN

This project will not cause additional air or water pollution.

SITE APPROVAL

Site approval for the facility has been granted by letter ref. LFF-1-SAV; RVP 11010/7, from Commandant Marine Corps, Washington, D.C., to Commanding General, Marine Corps Base, Camp Lejeune, N.C, ref. authorizing letter 11013 FAC 13 July 1984.

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

DATE: 01 NOV 1984

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

2. PROJECT TITLE
OF-35 MECHANICS SCHOOL

P. NO. P-808

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. BUILT-IN EQUIPMENT TO BE MCON FUNDED:	*Venetian blinds and window screens				$2,000.00
	*Plumbing system	1	LS		$18,000.00
	*Sprinkler System	1	LS		$78,000.00
	*Telephone, fire alarm, and intercom systems	1	LS		$12,000.00
	*Air conditioning system for all lecture type classrooms	43	TN	$2,862.00	$123,000.00
	*Instructor platform for all lecture type classrooms	6	EA	$500.00	$3,000.00
	*Exhaust gas removal system for the CUCV/Organizational Maintenance Laboratory	1	SYS		$18,000.00
	*Deep sinks/lavatories for all laboratory spaces	8	EA	$875.00	$7,000.00
	*Provide for tier arrangement of seating in classrooms 1, 2, and 3	3	EA	$3,666.00	$11,000.00
	*Drinking Water coolers	10	EA	$1,500.00	$15,000.00
	*Public Address System Wireless Microphones	1	LS		$2,000.00
	TOTAL BUILT-IN EQUIPMENT				$289,000.00
	*External storage of, and central supply system for fuel in CUCV laboratory	1	EA		$5,000.00

*Equipment with associated installation costs

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

DATE 01 NOV 1984

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

2. PROJECT TITLE
OF-35 MECHANICS SCHOOL

P. NO. P-808

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS:					
7110-00-132-6650	Chalkboard, Portable	1	EA	58.00	58
7110-00-843-7917	Chalkboard, Hanging	3	EA	59.00	177
7110-00-286-3798	File Cabinet, 5 drawer	1	EA	218.00	218
7125-00-269-8345	Storage Cabinet	27	EA	153.00	4,131
Brodhead-Garrett 2448 Industrial Pk. Dr. Macon, GA 31208 (912) 781-8952	Apron and Book Rack Model 120, pg 84	28	EA	82.50	2,310
Carolina Office Supply No. T5-725-465	Magnetic Board	5	EA	376.00	1,880
3MStock No. 78-6969-1889-1	Projector Stand	3	EA	115.00	345
Carolina Office Supply No. T5-725-465	Lecternette, w/AC adapter	3	EA	97.50	293
3MStock No. 78-6969-1891-7	Podium and side table	7	EA	899.00	6,293
Carolina Office Supply No. T5-7547	Board, Dry erase magnetic, 4'x8'	6	EA	230.00	1,380
7110-00-740-8931	Desk, single pedestal	1	EA	191.00	191
7110-00-759=6146	Desk, double pedestal	4	EA	302.00	1,208
7110-00-143-0082	Office table 60" x 34"	77	EA	105.00	8,085
7110-00-143-0821	Office table 45" x 34"	6	EA	101.00	606
7110-00-082-6226	Chair, straight, w/o arms	234	EA	32.00	7,488
7110-00-089-6791	Chair, rotary, w/arms	5	EA	51.00	255
7110-00-281-4469	Chair, drafting	54	EA	52.00	2,808
4910-00-756-0934	Work bench	52	EA	106.56	5,541
7520-00-205-1857	Basket, wastepaper	22	EA	6.40	141

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

DATE: 01 NOV 1984

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

2. PROJECT TITLE
OF-35 MECHANICS SCHOOL

P. NO. P-808

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)					
7240-00-160-0440	Can, trash-garbage	14	EA	17.90	251
7195-00-912-9445	Bulletin board	7	EA	10.60	74
6645-00-532-3342	Clock, wall, electric	8	EA	6.00	48
4140-00-833-5068	Pedestal fan	4	EA	130.00	520
4910-00-262-0392	Jack stands, 5 ton	80	EA	18.93	1,514
4210-00-289-7233	Jack, floor, 10 ton	4	EA	584.00	2,336
4210-00-252-5343	Fire Extinguisher	17	EA	113.02	1,938
4940-00-449-6689	Parts cleaner	2	EA	322.00	644
7125-01-C00-3856	Parts Rota bin 3' diameter	1	EA	508.71	509
6130-00-106-6445	Battery charger	1	EA	359.81	360
7125-00-330-0130	Cabinet, storage	1	EA	322.35	322
OP	Draperies (office)		PR		
OP	Draperies (black out for Labs and classrooms)		PR		
	TOTAL EXPENSE ITEMS				51,924
3. INVESTMENT ITEMS:					
4910-00-124-2554	Simplified test equipment for internal combustion engines	20	EA	3,695.00	73,900
	TOTAL EXPENSE ITEMS				73,900
4. APA EQUIPMENT:	None				
5. TRAINING EQUIPMENT:	(To be locally funded)				
	Projection screen	5	EA	65.00	325
	Projector, 35mm slide	8	EA	185.00	1,480
	Projector, overhead	8	EA	366.00	2,928

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

DATE: 01 NOV 1984

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

2. PROJECT TITLE
OF-35 MECHANICS SCHOOL

P. NO. P-808

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
5. TRAINING EQUIPT. (cont'd):					
	Projector, 16mm motion picture	3	EA	396.00	1,188
	Player, videocassette	3	EA	2,337.00	7,011
	Monitor, ITV	6	EA	475.00	2,850
	TOTAL TRAINING EQUIPMENT				15,782

NAVFAC 11010/13 (Rev. 6-79)

MILITARY CONSTRUCTION PROJECT WITNESS DATA

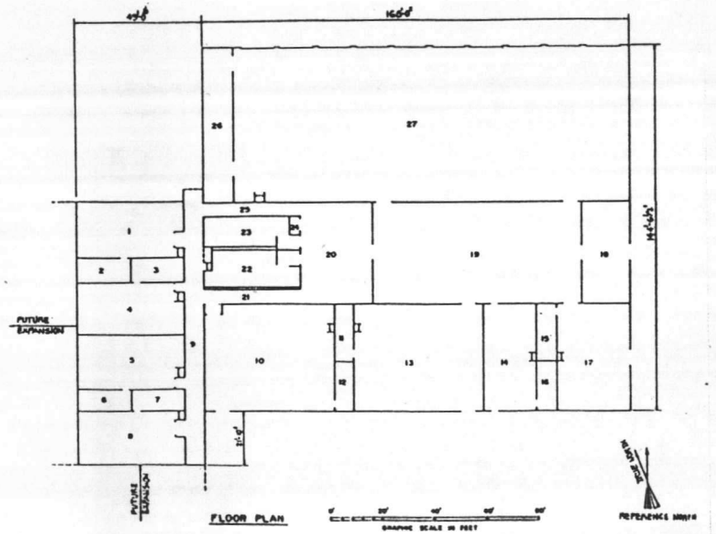
FY PROGRAM:

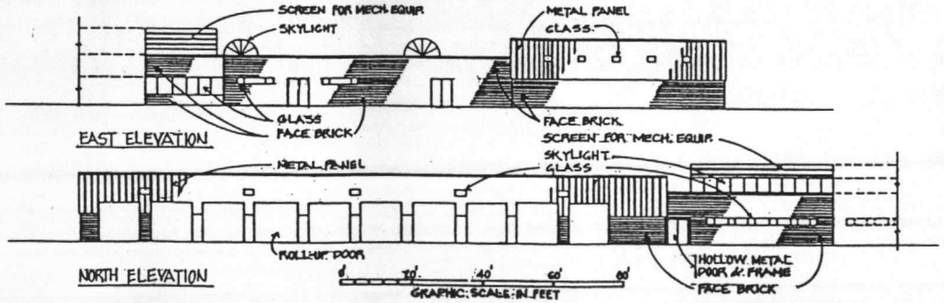
INSTALLATION	PROJECT TITLE		DATE
MARINE CORPS BASE, CAMP LEJEUNE, N.C.	APPLIED INSTRUCTION BUILDING	P- 808	01 NOVEMBER 1984

SKETCH AREA

LEGEND

1. LABORATORY NO. 1
2. TRNG. AIDS
3. TRNG. AIDS
4. ACAD. CLASSROOM NO. 2
5. ACAD. CLASSROOM NO. 1
6. TRNG. AIDS
7. TRNG. AIDS
8. LABORATORY NO. 2
9. CORRIDOR
10. F & E LABORATORY NO. 2
11. TRNG. AIDS
12. TRNG. AIDS
13. F & E LABORATORY NO. 1
14. ACAD. CLASSROOM NO. 3
15. TRNG. AIDS
16. TRNG. AIDS
17. AGARTS
18. MECH./ELEC. EQUIP. ROOM
19. BUFFER ZONE
20. STUDENT'S AREA
21. CORRIDOR
22. MEN'S TOILET
23. WOMEN'S TOILET
24. JANITOR CLOSET
25. CORRIDOR
26. TOOL ROOM
27. ORGANIZATIONAL MAINTENANCE LAB.





A&E/GF	PLANS AND SPECIFICATIONS			CONSTR	DESIGN PROGRESS INFO PROVIDED CONGRESS
NAME AND LOCATION	NAKAZAWA CORPORATION 212 S.TRYON ST.,SUITE 455 CHARLOTTE, N.C. 28281			AWARD DATE (Est.) NOV 85 MONTHS 14	START DATE: COMPLETION DATE: COMPLETE 1 JAN: % COMPLETE 1 OCT: %
DATES	AWARD SEP 84	35% COMPLETION DEC 84	100% COMPLETION MAY 85	BOD JAN 87	

COMPARATIVE COST DATA			ENGINEERING DATA	
H OK L	AREA FACTOR:	UNIT COST ($)	DD 1391 COST PROJECTION DATA	
UNIT COST FOR THIS PROJECT ON DD 1391			INCREASE TOTAL %	PROJECTION DATES (From To)
DOD COST REVIEW GUIDE (ADJUSTED)			INCREASE MONTH %	INDEX SOURCE
OTHER PROJECTS IN THIS PROGRAM (ADJUSTED)			SITE CONDITION, SPECIAL DESIGN CONSIDERATIONS, TECHNICAL PROBLEMS, ETC. OTHER THAN SHOWN ON DD 1391	

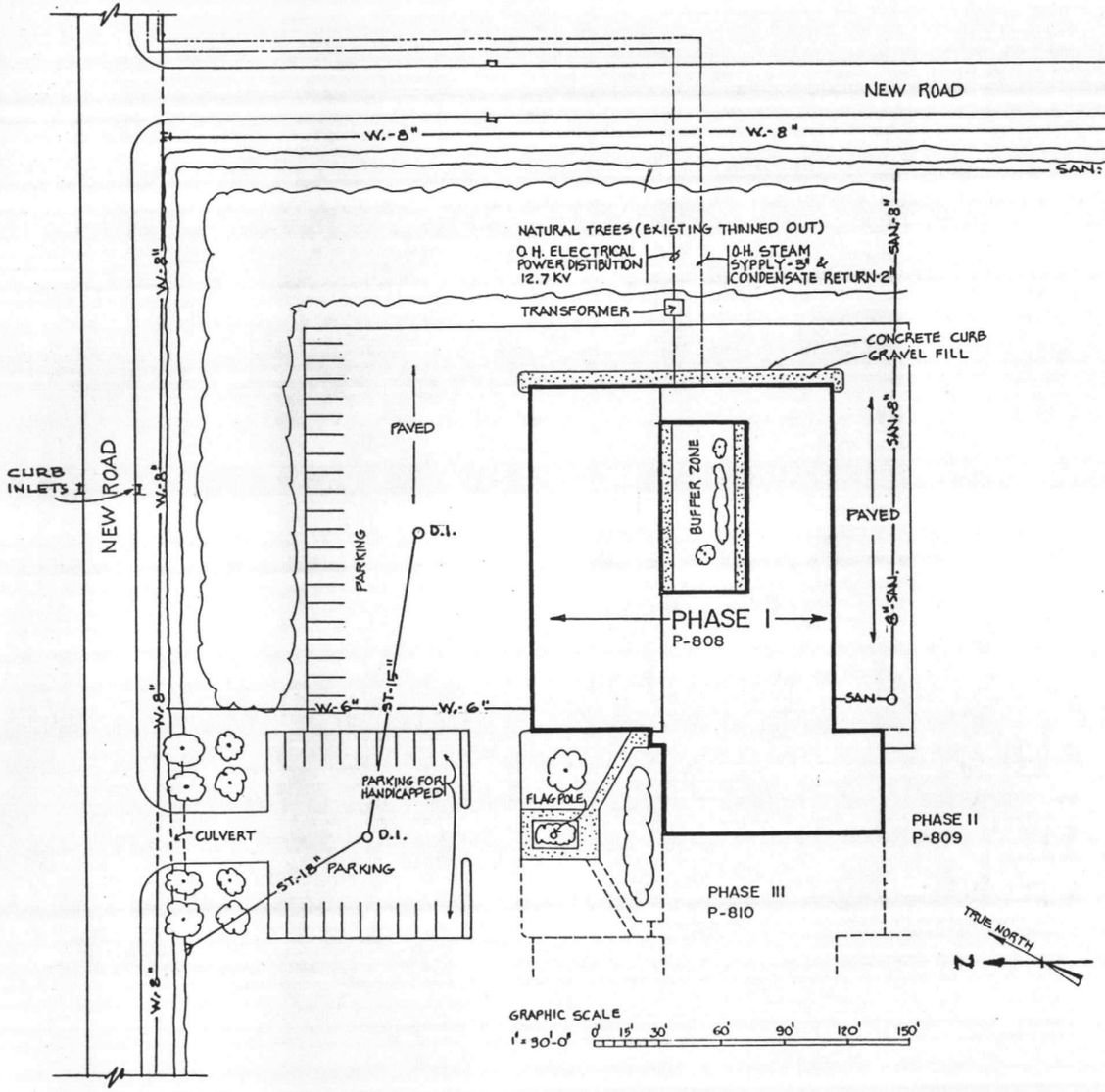
BUILT IN EQUIPMENT; FEC DATA; SPECIAL OVERSEAS OVERHEAD COSTS, EXPLANATION OF DEMOLITION

W-1

PREPARED BY: Name _____ Extension _____

APPROVED BY ASSISTANT DIVISION DIRECTOR: CODE _____ INITIALS _____

DATE: 01 NOV 1984



LEGEND

W-8"	Domestic Water
SAN-8"	Sanitary Sewer (gravity)
ST-15"	Storm Drainage
D.I.	Drainage Inlet
	Overhead Electrical Power Distribution @ 12.7KV
	Overhead Steam Supply (3") & Condensate Return (2")

APPLIED INSTRUCTION BUILDING

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

NAKAZAWA CORPORATION

ARCHITECTS PLANNERS
CHARLOTTE, NC

UNITED STATES MARINE CORPS
Marine Corp Base
Camp Lejeune, North Carolina 28542-5000

6280
FAC
2 8 OCT 1984

From: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
To: Public Works Officer

Subj: ENVIRONMENTAL REVIEW OF REVISED SITE LOCATION, P-808, OF-35 MECHANICS SCHOOL, INCR 1

Encl: (1) Preliminary Environmental Assessment, P-808 dtd 13 Jan 82
(2) Revised Site Location Map

1. The environmental impacts associated with construction of the project at the site described in enclosure (1) are similar to the impacts at the site in enclosure (2). The primary environmental concerns to be addressed in project planning and design are the erosion controls and storm water runoff and drainage due to the limited natural drainage of the site. Further, the harvesting of commercially valuable timber from the site must be scheduled upon receipt of the 35% design drawings.

2. In summary, no significant environmental impact is anticipated with the revised site location provided a State-approved sediment control plan is obtained and the timber harvest is pursued. Request that upon receipt of the 35% drawings, coordination be completed with Mr. Julian Wooten, Natural Resources and Environmental Affairs Division, ext. 5003/2195, on the timber harvest.

3. Point of contact in this matter is Mr. Alexander at ext. 3034.

J. G. FITZGERALD
By direction

Copy to:
NREAD

Blind cy to:
Env Engr
Constr Coord.

Writer: J. G. Fitzgerald
Typist: R. DeNoi, FAC, 19 Oct

UNITED STATES MARINE CORPS
Marine Corp Base
Camp Lejeune, North Carolina 28542-5000

6280
FAC
2 3 OCT 1984

From: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
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By direction

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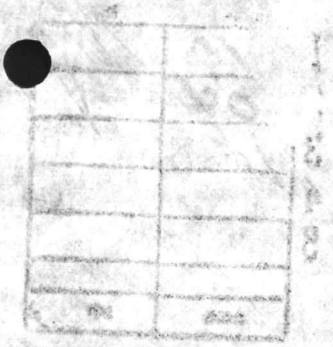



23 OCT 1984
RECEIVED

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

ENVIRONMENTAL IMPACT/ENVIRONMENTAL ENHANCEMENT REVIEW BOARD MEETING OF

13 Jan 1982.

ADDENDUM TO PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

SUBJ: PEA - P-808, OF-35 Mechanics School, MCSSS (1st Incr.)

BOARD ACTION

X The Board agreed there appears to be no significant environmental impact or controversy associated with this project.

_____ The Board agreed there appears to be no significant environmental impact or controversy associated with this project provided:

_____ The Board agreed there is potential environmental impact with the project and recommends the following:

Copy to:
EIA File
PWO
BMO

ENCL (1)

1. Project: P-808, MF-35 MECHANICS SCHOOL, MCSSS (INCREMENT I)

a. Project Description. Construct permanent applied facility with piles, reinforced concrete foundation, floors, masonry walls. This includes built-up roof ovens insulation and interior support system; i.e., air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work and utilities connected.

(1) Adequate facilities are required for formally instructing Marines in 2nd, 3rd, and 4th echelon maintenance of Marine Corps motor transport equipment. Further, consolidating the instruction in one facility will reduce the span of control, reduce lost time resulting from moving from one applied instruction facility to another. Currently, facilities are located in excess of one mile from each other.

(2) Impact if not provided. If not provided, Marine Corps Service Support Schools will continue to instruct 700 students per year in inadequate i.e., over 100 degrees F temperature in classrooms and applied laboratories during the summer; under freezing weather during the winter (some chill is taken during the winter with WWII vintage space heaters. Additionally, vehicles have changed in terms of size and technological complexity requiring a greater base of knowledge to be an effective mechanic.

(3) Facilities required. 26, 961 square feet of applied academic school area, including flexible pavements, sidewalks, security fencing, lighting, utilities, and site improvement is required

(4) Site requirements. Site requirement include good drainage, potable water, sewage disposal, and soil structure sufficient to permit a structure to be built.

(5) Ongoing Activities. In most instances the instruction will not affect the environment. In certain instances where engines are operated, the impact on the environment, fumes, will be minimal. In any case, the impact will not be more than currently ongoing.

b. Consideration of Alternatives and Site Selected.

(1) Other locations aboard Camp Johnson were considered possible, South of Bldg 131, south of Building 120.

(2) The primary site was selected based on walking distance to billeting, dining facilities, and other resources, e.g., printing, classrooms, PX, laundry, Bank, athletic, headquarters, and supply.

c. Compliance with Federal, State, and Local Environmental Regulations and Guidlines.

(1) Aplicability of applicable laws

(a) Endangered Species Act. Use of the cleared area by endangered species of animals is insignificant. The project has no apparent beneficial or adverse impact on any endangered or threatened species.

(b) Clean Water Act. All sanitary waste will be disposed in the Base sanitary sewer system. This project will not cause additional water pollution.

(c) Clean Air Act Not applicable. This project will not cause additional air pollution.

(d) Coastal Zone Management Act. There is no direct or indirect impact on tidal marshes, beaches or other protected areas.

(e) Archeological and Historic Preservation Act. There are no structures in the immediate area which have been identified on state or national registers of historic sites. There are no visible remnant structures of homesites, artifacts, etc. which indicate that the site is covered by this Act.

(f) North Carclina Erosion and Sedimantation Regulation. An erosion and sediment control plan will be incorporated into the project plans and specifications as required.

(g) Hazardous Materials. These materials will be managed and disposed of in accordance with Marine Corps Base Order 11090. 1B

(h) Protection of Wetlands, Executive Order 11990. Not Applicable.

(i) Sanitary Wastes. All solid wastes will be disposed of at the Marine Corps Base, Camp Lejeune, N. C. Sanitary Landfill.

(j) Other Regulations. The proposed project does not involve other regulations.

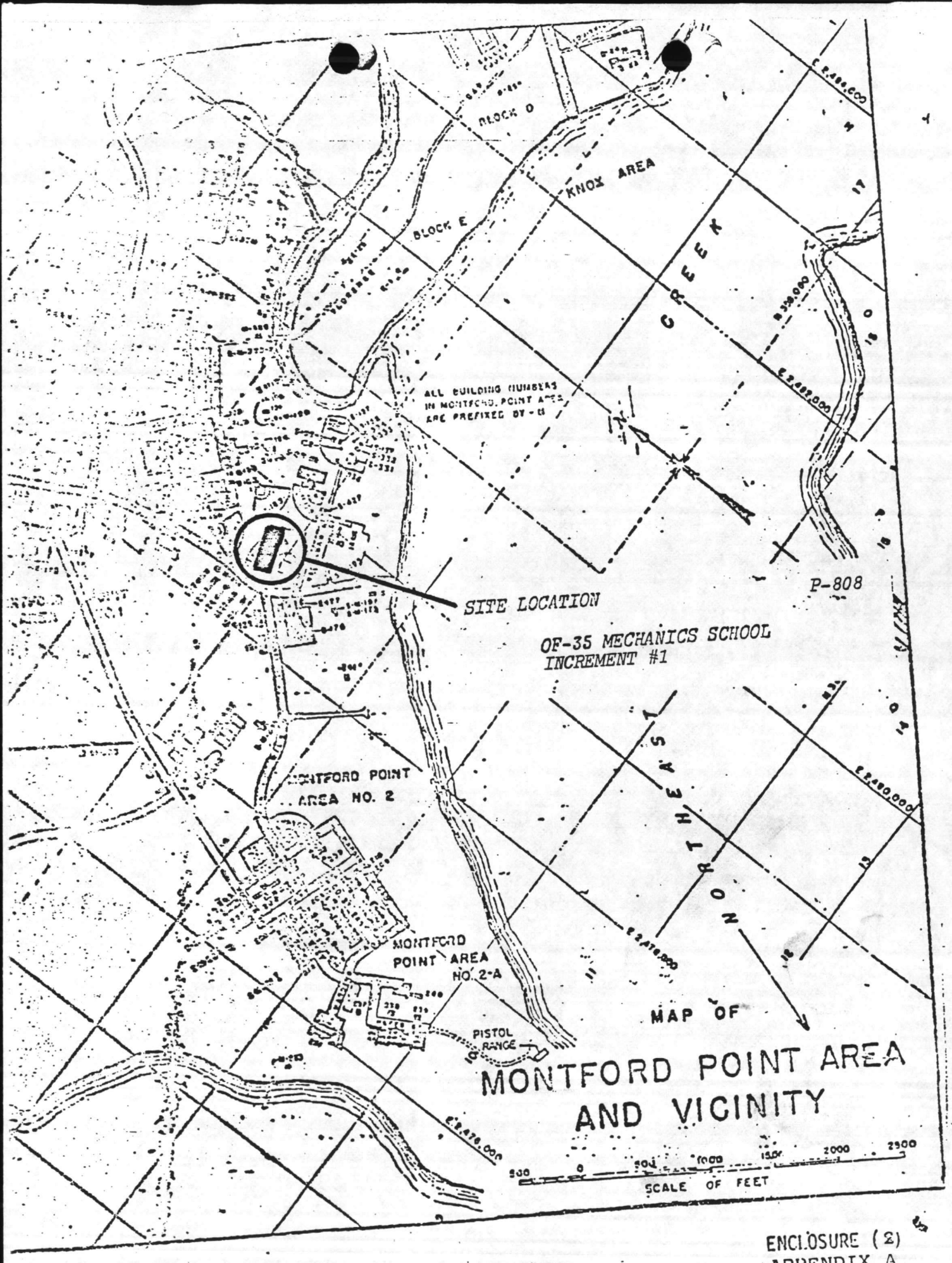
(k) List permit requirements of local, state, or regulatory agencies. None

(l) Site. See Appendix A.

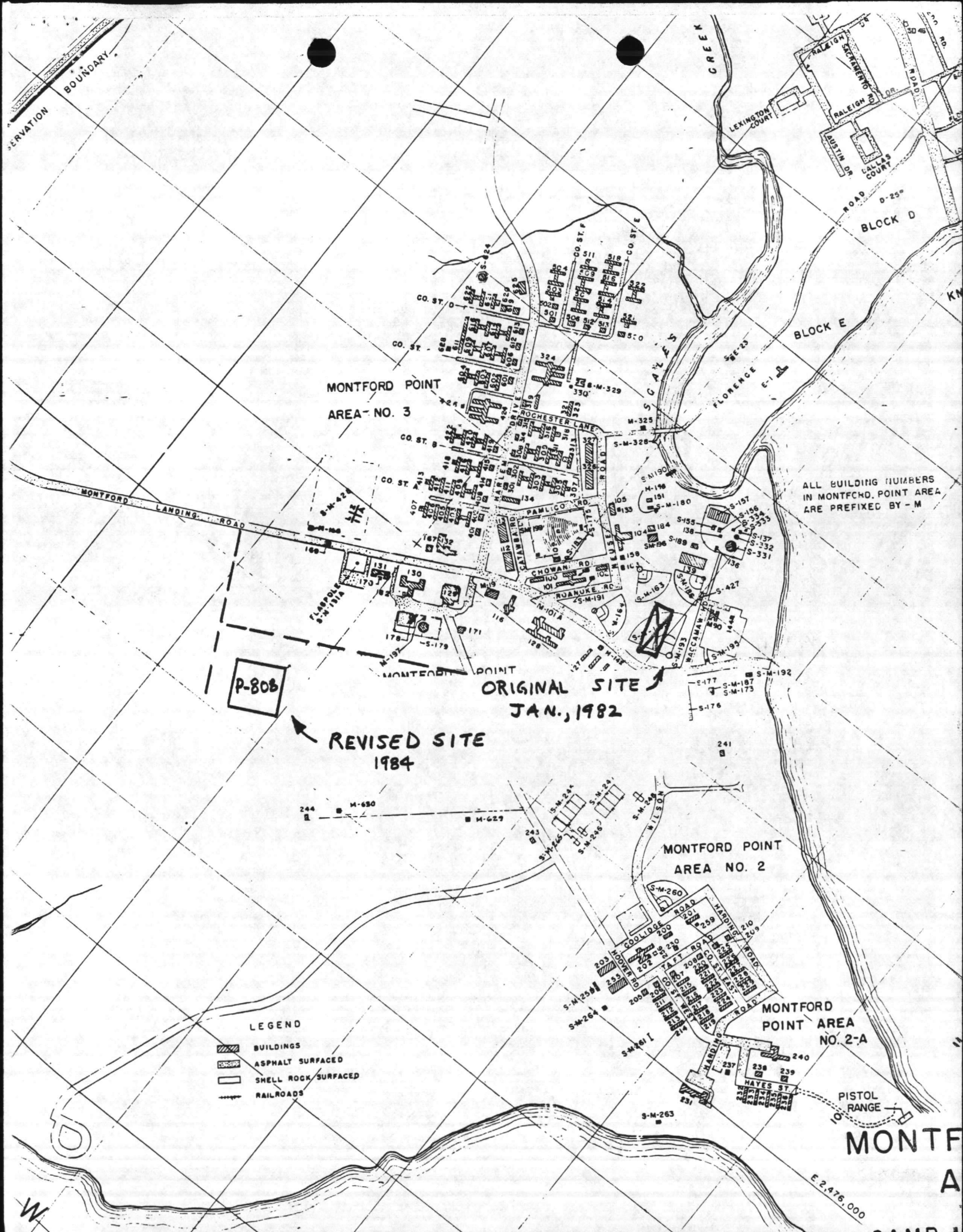
d. Impact on other Base functions and missions.

(1) Impact on other Base functions. the proposed site will impact on the special service function. That is, it will be located on athletic fields S-M-165 and S-M-186.

(2) Master Plan. This project was discussed with the Design Director, Public Works Department; the Director advised that the project was consistent with the existing Master Plan and projected use of the surrounding area.



ENCLOSURE (2)
APPENDIX A


MONTFORD POINT
AREA - NO. 3
MONTFORD LANDING ROAD
ROCHESTER LANE
PAMLICO RD.
CHOWAN RD.
ROANOKE RD.
WACCAMAW RD.
FLAGPOLE
P-808
ORIGINAL SITE
JAN., 1982
REVISED SITE
1984
MONTFORD POINT
AREA NO. 2
COOLIDGE ROAD
HARDING ROAD
TAFT ROAD
HOOVER RD.
WILSON
MONTFORD
POINT AREA
NO. 2-A
HAYES ST.
PISTOL
RANGE
BLOCK D
BLOCK E
FLORENCE
SCALES
RALEIGH
SACRAMENTO
LEXINGTON
COURT
AUSTIN DR.
LALLAS
COURT
ALL BUILDING NUMBERS
IN MONTFORD POINT AREA
ARE PREFIXED BY - M
LEGEND
BUILDINGS
ASPHALT SURFACED
SHELL ROCK SURFACED
RAILROADS
E 2,476,000

MINI-MASTER PLAN REPORT

for

PROJECTS P-808, P-809 & 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
ARCHITECTS & PLANNERS
212 S. TRYON STREET
CHARLOTTE, N.C. 28281

DATE: 01 DECEMBER 1984

01 DECEMBER 1984

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 99,079 SF of training facilities. Objective of the Mini-Master Plan is to develop the entire 99,079 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 99,079 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

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	1,100#/Hr
TOTAL REQ'D	1,500#/Hr (5# Steam)

Pipe Sizes - 3" diameter supply
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.) =	10KW
	TOTAL PHASE I	181KW
Phases II & III:	HVAC - 130T.x 2.1KW =	271KW
	Lighting 72,000 x 2.0W/SF =	144KW
	Power 72,000 x 1.0W/SF =	72KW
	TOTAL PHASES II & III	487KW

Assume Diversity of 75%

Phase I =	181KW
Phases II & III =	487KW
TOTAL	668KW

668 x 75% = USE 500KVA

Mont Pt S-4 CAPT Greene — Scratch
0973-0839
P-808

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
(804) 444-9696
AUTOVON 564-9696
IN REPLY REFER TO:
09A23A:TTW:mel
4490

action

07 NOV 1983

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542

Subj: Collateral Equipment Requirements for FY 1986 Military Construction Project P-808, Applied Instruction Building (OF-35 Mechanic School)

Encl: (1) Guidelines for Developing Collateral Equipment Requirements for MCON Project Engineering Documentation
(2) Sample Collateral Equipment List
(3) Copies of NAVFAC Form 5ND LANTDIV 4-11010/6, Collateral Equipment Requirements (Initial Outfitting) (6 copies)

1. The list of collateral equipment for Military Construction (MCON) projects, particularly in the area of built-in equipment, provides essential data required to develop the Project Engineering Documentation (PED) and plans/specifications. This list is also the basis for the appropriate budgetary action to provide funds for the initial outfitting of the completed project.

2. Enclosure (1) was specifically developed for preparation of equipment lists for inclusion in the PED. Particular attention is invited to the information concerning the various equipment categories, under one of which each equipment item shall be reported. Inasmuch as the category determines the fund source, inventory cognizance or logistical responsibility, the requirements should be identified and reported correctly. Enclosure (2) provides the format for submission of collateral equipment requirements.

3. It is requested that requirements for the subject project be submitted on enclosure (3) to this Command, attention Code 09A23. This submittal should be forwarded in time to be received by 28 May 1984. Due to the scheduled preparation of the PED in the near future, compliance with the submission date is requested.

Doris P. Worley
DORIS P. WORLEY
By direction

Joe Ader
5/16 called no one there CB after 14:00

RECEIVED
9 NOV 1983


9 NOV 1983
RECEIVED

GUIDELINES FOR DEVELOPING COLLATERAL EQUIPMENT
REQUIREMENTS FOR MCON PROJECT ENGINEERING DOCUMENTATION

1. Equipment shall be limited to that which is required to achieve the facility's designed functional capability. To facilitate identification of requirements and also ensure that equipment can be effectively and efficiently accommodated within available space, it is recommended that a floor plan showing equipment location be prepared. When available, a copy of such floor plans should be forwarded with requirements submission(s).

2. Equipment shall be selected which is, to the maximum possible extent, available from the Federal Supply System, General Services Administration stock, Federal Prison Industries or other established Government sources. Military and/or federal specifications shall be applied, whenever possible, for items not available from an established federal source. When procurement from commercial sources is necessary, adequate descriptive details should be provided. Vague descriptions with unrealistic cost estimates are not acceptable. It is recommended that the procurement source data such as GSA supply schedules, manufacturer's catalogs, or other information which is available in the activity supply office be utilized in preparaing requirements lists.

3. The following information is provided to facilitate identification and separation of equipment requirements by collateral equipment categories.

a. Built-in Equipment to be Funded with Military Construction (MCON) Funds

Normally, the costs of all items of equipment which are permanently built-in or attached to the structure, including items with "fixed" utility connections, are funded from MCON appropriations. "Fixed" means fastened to walls, floors or ceiling, or to steam, gas, vacuum, plumbing, or electrical lines in a permanent manner. The following items are typical examples:

Furniture, cabinets & shelving, built-in
Venetian blinds & shades
Window screens & screen doors
Elevators and escalators
Drinking water coolers
Telephone, fire alarm & intercom systems
Protective construction features
Theatre seats
Pneumatic tube systems
Heating, ventilating & air conditioning installations
Laboratory furniture, built-in
Electrical generators & auxiliary gear
Food Preparations & serving equipment, built-in
Dishwashers
Blackboards, bulletin boards, interior and exterior directories, etc.

encl (1)

Hoods and vents
Chapel pews & pulpit
Refrigerators and reefers, built-in
Key Cabinets
TV Surveillance Systems
Crane & hoists
Bowling lanes, including seating and pin spotting equipment
BEQ/BOQ wardrobes, built-in or prefabricated
Wall-to-wall carpeting

b. Equipment Funded from Appropriations Other than MCON

The costs of all items of equipment, including furniture and furnishings, which are loose, "portable", "mobile", or can be detached from the structure without tools, are excluded from MCON costs. "Portable" means movable, including that equipment which is attached to utility lines by attachment plug or screw-on fitting, "mobile" means equipment on wheels or casters. In addition, the costs of permanently attached equipment related directly to the operating function for which the structure is being provided, such as technical, scientific, production and processing equipment, are normally excluded from MCON costs. The following items are typical examples of equipment funded from appropriations other than MCON.

Furniture, loose
Furnishings, loose, including area rugs
Filing cabinets & portable safes
Office machines, portable
Wall clocks, plug-in
Food preparation & serving equipment including appliances; portable
Training aids and equipment, including simulators
Shop equipment
Automatic data processing equipment
Communications equipment
Photographic equipment, portable
Dental chairs and pedestal units
Any operational equipment for which installation mounting and connections are provided in building design and which are detachable without damage to the building or equipment.

c. Categories of Equipment Funded from Appropriations Other than MCON

(1) Personnel Support Equipment. Includes all equipment with a unit cost of less than $3,000 required for initial outfitting of Personnel Support Facilities. The category of Expense Items, as well as APA and Training Equipment are not applicable to these facilities and should not be listed on the requirements list. Requirements for bachelor housing facilities will be developed by this Command.

(2) Expense Items. Collateral equipment such as furniture, furnishings, office machines, medical and dental equipment, shop equipment etc., having a unit price of less than $3,000 or more at the time of budgeting.

(3) Investment Items. Collateral equipment similar to Expense Items, having a unit value of $3,000 or more at the time of budgeting.

(4) APA Equipment. Appropriation Purchase Account centrally managed equipment entered in the Federal Supply Catalog, Volume 2 of the Navy Supply Manual and other sources with an even numbered alpha prefix. Such APA equipment is under the cognizance and procurement of a technical sponsor as:

TECHNICAL RESPONSIBILITY	EQUIPMENT TYPE
Naval Air Systems Command	Aviation Support
Naval Electronics Systems Command	Shore Electronics, Communication, Cryptologic
Naval Sea Systems Command	Ships Support, including Electronics and Weapons
Naval Facilities Engineering Command	Civil Engineering Support

(5) Training Equipment. This equipment is used exclusively for the instruction of personnel and consists of, but is not limited to the following:

(a) Training Aids Equipment. Film projectors, slide projectors, overhead projectors, audio and video recording/playback units and closed circuit television systems.

(b) Non-Technical Training Equipment. Typewriters, adding machines, calculators, etc.

(c) Commercial Scientific Training Equipment. Non-Navy sophisticated electronic and scientific equipment normally used in laboratories to teach various physical, chemical and environmental phenomena.

(d) Training Devices. Consists of equipment designed specifically to demonstrate or illustrate a concept, or provide a simulated system in which an operator's skill or techniques are developed or improved.

(e) Civilian Training Equipment. Items developed by civilian sources for civilian training which have been adopted for Navy use.

(6) Equipment on Hand. This category should receive careful attention, particularly during the present period of austere funding. To assure the maximum benefit from the limited resources available, it is incumbent upon all concerned to ensure that items on hand in good condition and compatible with the design and function of the new facility are so identified. This particular category continues to receive close attention from OSD/OMB, NAVCOMPT and various audit offices. Collateral equipment on hand should be identified by appropriate category. The estimated cost should be broken down as follows:

(a) Total estimated value of reusable equipment.

(b) Total relocation/reinstallation costs from old to new structures. It will not be necessary to break down cost for each item of collateral.

(c) Total cost to refurbish equipment when it is economically advisable to refinish equipment as opposed to procuring new items.

4. Cost of the various categories of Collateral Equipment will include the following which will be shown separately and summarized for each group:

a. Purchase price of the item including fabricaton of specialized equipment and design cost of the item.

b. Transportation, crating/uncrating, handling and storage costs.

c. Installation cost. NOTE: Equipment having an associated installation cost should be identified by an asterisk, as shown in the sample format.

5. Those items of equipment which must be provided as Government Furnished Equipment (GFE) for installation by the Contractor should be identified by annotating "GF/CI" after each applicable item.

6. Where a requirement for APA Equipment exists, particular attention should be directed toward ensuring that total requirements are identified and realistic costs reported. Although the cognizant inventory manager is responsible for the provision of APA Equipment associated with a MCON/MCNR project, it nevertheless constitutes a vital cost element of the PED, particularly where sophisticated high-cost equipment is involved (for example, electronic training devices).

7. Lists of collateral equipment are to be prepared on the basis of procurement within the United States. When foreign procurement is proposed such items are to be identified and an explanation with related cost data shall be included in PLANNED via NORMAL columns of NAVDOCKS form 11010/1 in accordance with NAVFACINST 11010.14.

8. The provisions of Federal Property Management Regulations dealing with procurement from multiple-award Federal Supply Schedule contracts require that agencies fully justify the procurement of other than the lowest delivered price item which will satisfy the end use requirement. Justification of purchases at other than the lowest delivered price must be based on special or definitive needs which are clearly associated with the achievement of program objectives. Particular attention should be paid to the selection of the lowest priced office machine or equipment which will adequately perform the desired work. It should be noted that personal preference cannot be regarded as an appropriate basis for justification. Complete justification for the requirement of higher cost equipment must accompany the collateral equipment requirement submittal. Some specific examples of equipment which would require such action would be top of the line typewriters, calculators, reproduction machines, medical equipment, shop equipment, etc.

9. Duplicating and office copying equipment. Requests for this equipment should not be submitted until all provisions of OPNAVINST 10461.8 have been met. Listed equipment should be annotated with the statement that procurement of the requested equipment has been approved by the local Navy Publications and Printing Service Office (NPPSO) in accordance with OPNAVINST 10461.8. When NPPSO review services are not available, a feasibility study must be conducted by the activity management analysis staff or other appropriate management assistance organization. If there is insufficient time to obtain approval prior to the deadline for submission of the requirements list, the equipment will be listed pending receipt of approval. Notice of approval or deletion of the requirement must be submitted within 60 days after submission of the original list.

10. Filing equipment requirments should be identified. However, administrative approval of procurement must be obtained in accordance with current regulations before Collateral Equipment funds can be provided. Activities are required to satisfy requirements whenever possible through inter-activity transfer of available filing equipment or by inter-activity transfer of surplus equipment.

11. Portable fire extinguishers are classified as Collateral Equipment and are normally required for MCON projects. The installation of fixed or built-in fire protection systems does not necessarily preclude a requirement for portable equipment. Accordingly, requirements submissions shall include portable fire extinguishers as required to comply with n.f.p.a. Standard No. 10, as contained in Volume 8 of the National Fire Codes. Requirements will be limited to actual quantities needed for installation and shall not include backup or replacement units.

12. Medical Facilities. Collateral equipment requirements for medical facilities will not be submitted as part of the supporting documentation. Medical requirements will be prepared and submitted in two parts, namely:

a. Technical Equipment. Listing to be furnished by the Bureau of Medicine and Surgery, Washington, DC.

b. Non-Technical Equipment. Listing to be prepared by the user-activity in conjunction with submission of concept plans.

13. Special Equipment/Funding

a. Computers. Will be approved and funded by major claimants.

b. Word Processing Equipment. Feasibility studies and cost analyses of rental vice purchase must be conducted and approved in accordance with OPNAVINST 5210.12 prior to submitting requirements for initial outfitting funding. A copy of such studies must accompany the request for funding.

c. Relocation of collateral equipment. (Refer: NAVCOMPTNOTE 7 of June 1980) NAVFACENGCOM is responsible for the cost of that collateral equipment for which NAVFAC has initial outfitting responsibility. The

costs associated with the planning, design, rehabilitation of other collateral equipment (training, RDT & E, technical, non-appropriated funded, etc.) in connection with a MCON project will be the budgeting and funding responsibility of the organization which is assigned initial outfitting responsibility.

14. Consumable Items. Collateral Equipment does not include minor consumable items. These items are generally short life items which are highly susceptible to loss through wear and tear, pilferage or damage. Some examples are as follows:

a. Hand and electrical powered tools.
b. Spare parts for mechanical and electrical equipment.
c. Correspondence trays, calender pads, pencil sharpeners, hole punches and other office supplies.
d. Cleaning gear such as mops, bucket, brooms etc.
e. Sheets, pillow cases, blankets and shower curtains.
f. Kitchen cutlery, pots and pans, tableware, condiment containers, and table cloths.

In addition, collateral equipment does not include classes of equipment normally purchased with non-appropriated funds including equipment required to support income producing activities.

Items included in the categories discussed above should not appear on the initial outfitting collateral equipment requirements submitted for MCON projects.

NAVAL AIR STATION, OCEANSIDE, NEVADA

1. PROJECT TITLE: ADMINISTRATION BUILDING

P. NO. P-302

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. Built-in Equipment to be MCON Funded	*Air Conditioning Equipment				
	*Information Counter 10' long				
	*Telephone Booth				
	*Electric Water Cooler				
	*Venetian Blinds				
	*Directory				
	*Chalkboard				
	*Carpet				
*Equipment with Associated Installation Cost					
2. Expense Items					
7110-00-143-0832	Desk, double pedestal	10	EA	260.00	2,600.00
7110-00-273-8793	Chair, swivel, w/arms	10	EA	51.00	510.00
7110-00-273-8785	Chair, side, no arms	11	EA	27.50	302.50
7110-00-286-3796	File, cabinet, legal, 5 drawer	19	EA	170.00	3,230.00
7195-00-275-5825	Wearing apparel rack, 12 hanger	2	EA	57.00	114.00
7125-00-270-7720	Storage shelves, 6 shelves, 82"H x 36"W x 24"D, 700 lbs/shelf	2	EA	115.00	230.00
7110-00-143-0822	Office table, 34" x 60"	8	EA	105.00	840.00
7110-00-927-3197	Chair, lounge	2	EA	218.00	436.00
7110-00-916-5840	Sofa, 3 person	1	EA	433.00	433.00
FEDERAL SCHEDULE	Conference table, 92"L x 42"W	1	EA	350.00	350.00
7110-00-264-5339	Chair, conference, w/arms	10	EA	53.00	530.00
FEDERAL SCHEDULE	Lectern	1	EA	150.00	150.00
FEDERAL SCHEDULE	Typewriter, 18" dual pitch	6	EA	800.00	4,800.00
FEDERAL SCHEDULE	Calculator	15	EA	225.00	3,375.00
7110-00-641-5436	Storage cabinet, 2 door	5	EA	136.00	680.00
7105-00-689-8489	Smoking stand	10	EA	18.90	189.00
7110-00-143-0833	Desk, typist	15	EA	266.00	3,990.00
7110-00-273-8791	Chair, typist, swivel	15	EA	44.00	660.00
7195-00-275-5824	Wearing apparel rack, 6 hanger	8	EA	38.00	304.00
7110-00-935-3240	Bookcase section, w/o doors	36	EA	18.90	680.40
7110-00-262-6673	Bookcase base	12	EA	10.40	124.80

encl (2)

NAVAL AIR STATION, OCEANSIDE, NEVADA

1. PROJECT TITLE

ADMINISTRATION BUILDIN

P. NO. P-302

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
7110-00-262-6681	Bookcase top	12	EA	5.60	67.20
7195-00-262-6647	Costumer	4	EA	31.00	124.00
7520-00-281-5911	Wastepaper basket, 14"	25	EA	2.60	65.00
7110-00-993-5073	End tables	2	EA	91.00	182.00
7110-00-926-6702	Coffee table	1	EA	122.00	122.00
7110-00-264-5236	Office table, 48" x 30"	1	EA	184.00	184.00
FEDERAL SCHEDULE	Lamps, table, 39"H	3	EA	45.00	135.00
6645-00-530-3342	Clock, electric, 12"	15	EA	6.30	94.50
7110-00-143-0839	Bookcase, 2 shelf, 22"W x 18"D x 29"H	10	EA	46.00	460.00
FEDERAL SCHEDULE	Sand urns	6	EA	21.00	126.00
FEDERAL SCHEDULE	Entrance Mats, 3' x 5'	5	EA	35.00	175.00
9C4210-00-202-7858	Fire extinguishers, CO_2, 15 lbs.	5	EA	79.00	395.00
7110-00-128-0094	Fire extinguisher, H_2O, 2½ gal.	5	EA	23.00	115.00
FEDERAL SCHEDULE	Miscellaneous - Drapes, graphics etc.	1	LS	1,000.00	1,000.00
FEDERAL SCHEDULE	Vacuum cleaner, upright	1	EA	150.00	150.00
FEDERAL SCHEDULE	Buffer, 18"	2	EA	350.00	700.00
	TOTAL EXPENSE ITEMS				28,609.40
3. Investment Items	Reproduction machine	1	EA	3,450.00	3,450.00
	TOTAL INVESTMENT ITEMS				3,450.00
4. APA Equipment					
4G8662-471-5662	*Teletypewriter, send/receive (GFE/C.I.	2	EA	1,800.00	3,600.00
5. Training Equipment	None				
	*Equipment with Associated Installation Cost				
6. Equipment on Hand	A. Built-in Equipment NONE				
	B. Expense Items				
	Desk, double pedestal	2	EA		
	Chair, desk, swivel	2	EA		
	Desk, single pedestal	5	EA		
	Chair, desk, swivel	5	EA		

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	Typewriter, electric 18"	5	EA		
	Table, office	2	EA		
	Chair, side, no arms	19	EA		
	Calculator	2	EA		
	File cabinets, 5 drawer	21	EA		
	File cabinets, 2 drawer	5	EA		
	Relocation cost of expense items				400.00
	Refurbishment costs of expense items				1,000.00
	C. Investment Items				
	Collator				
	Relocation cost of investment items				60.00
	Reinstallation cost of investment items				75.00
	D. APA Equipment - NONE				
	E. Training Equipment - NONE				
7. Summary	Expense Cost (O&M,N)				30,144.40
	Investment Cost (OP,N)				3,450.00
	APA Equipment (NAVELEX)				3,600.00
	TOTAL				37,194.40

P-808

PWO:408:EGJ:mkt
11000
9 DEC 1983

From: Commanding General
To: Commander, Atlantic Division, Naval Facilities Engineering Command
Norfolk, VA 23511 (ATTN: Code 09A21B3)

Subj: FY-86 MCON Projects P-065, Gymnasium; P-808 OF-35 Mechanics School; and P-790, Sewage System Improvements, Marine Corps Base, Camp Lejeune, NC

Ref: (a) LANTNAVFACENGCOM 092122Z NOV 83 for P-065
(b) LANTNAVFACENGCOM 092123Z NOV 83 for P-808
(c) LANTNAVFACENGCOM 092124Z NOV 83 for P-790
(d) CG MCB CLNC ltr PWO:408:BJD:mkt 11000 of 17 Aug 83

Encl: (1) PEA, FY-86 MCON Project P-065, Gymnasium of 13 Jan 82
(2) PEA, FY-86 MCON Project P-808, OF-35 Mechanics School, MCSSS (1st Incr) of 13 Jan 82
(3) PEA, FY-86 MCON Project P-790, Sewage System Improvements of 13 Jan 82

1. References (a) through (c) requested information on subject projects to assure adequate scope definition and cost certification. This information was previously provided in reference (d).

2. The following information is provided for Project P-065, Gymnasium:

a. Location plan and status of Site Approval: The site remains the same as submitted in reference (c) (This Commands FY-86 through FY-90 Five Year MCON Program). The site was approved by CMC (Code LFF-1) on 16 November 1981.

b. Conceptual recommendations developed during facility planning that should be considered during design: None.

c. Planning considerations that should be investigated: None.

d. Copy of EIA/CEIS and any statements on design concepts required to eliminate adverse environmental effects consistent with applicable directives: A PEA is submitted as enclosure (1). No adverse environmental impact is anticipated.

e. General Comments: None.

Shore Facilities Planning System actions have been completed.

PWO:408:EGJ:mkt
11000

3. The following information is provided for Project P-808, OF-35 Mechanics School, MCSSS (1st Incr.):

a. Location plan and status of Site Approval: The site remains the same as submitted in reference (c), (This Commands FY-86 through FY-90 Five Year MCON Program). The site was approved by CMC (Code LFF-1) on 30 August 1982.

b. Conceptual recommendations developed during facility planning that should be considered during design: None.

c. Planning considerations that should be investigated: None.

d. Copy of EIA/CEIS and any statements on design concepts required to eliminate adverse environmental effects consistent with applicable directives: A PEA is submitted as enclosure (2). No adverse environmental impact is anticipated.

e. General Comments: None.

Shore Facilities Planning System actions have been completed.

4. The following information is provided for Project P-790, Sewage System Improvements:

a. Location plan and status of Site Approval: The site remains the same as submitted in reference (c), (This Commands FY-86 through FY-90 Five Year MCON Program). The site was approved by CMC (Code LFF-1) on 30 July 1982.

b. Conceptual recommendations developed during facility planning that should be considered during design: None.

c. Planning considerations that should be investigated: None.

d. Copy of EIA/CEIS and any statements on design concepts required to eliminate adverse environmental effects consistent with applicable directives: A PEA is submitted as enclosure (3). No adverse environmental impact is anticipated.

e. General Comments: None.

Shore Facilities Planning System actions have been completed.

M. G. LILLEY
By direction

Copy to:
AC/S FAC

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

ENVIRONMENTAL IMPACT/ENVIRONMENTAL ENHANCEMENT REVIEW BOARD MEETING OF

13 Jan 1982.

ADDENDUM TO PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

SUBJ: PEA - P-808, OF-35 Mechanics School, MCSSS (1st Incr.)

BOARD ACTION

X The Board agreed there appears to be no significant environmental impact or controversy associated with this project.

_____ The Board agreed there appears to be no significant environmental impact or controversy associated with this project provided:

_____ The Board agreed there is potential environmental impact with the project and recommends the following:

Copy to:
EIA File
PWO
BMO

d. Impact on other Base functions and missions.

(1) Impact on other Base functions. the proposed site will impact on the special service function. That is, it will be located on athletic fields S-M-165 and S-M-186.

(2) Master Plan. This project was discussed with the Design Director, Public Works Department; the Director advised that the project was consistent with the existing Master Plan and projected use of the surrounding area.

1. Project: P-808, OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT I)

a. Project Description. Construct permanent applied facility with piles, reinforced concrete foundation, floors, masonry walls. This includes built-up roof ovens insulation and interior support system; i.e., air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work and utilities connected.

(1) Adequate facilities are required for formally instructing Marines in 2nd, 3rd, and 4th echelon maintenance of Marine Corps motor transport equipment. Further, consolidating the instruction in one facility will reduce the span of control, reduce lost time resulting from moving from one applied instruction facility to another. Currently, facilities are located in excess of one mile from each other.

(2) Impact if not provided. If not provided, Marine Corps Service Support Schools will continue to instruct 700 students per year in inadequate i.e., over 100 degrees F temperature in classrooms and applied laboratories during the summer; under freezing weather during the winter (some chill is taken during the winter with WWII vintage space heaters. Additionally, vehicles have changed in terms of size and technological complexity requiring a greater base of knowledge to be an effective mechanic.

(3) Facilities required. 26, 961 square feet of applied academic school area, including flexible pavements, sidewalks, security fencing, lighting, utilities, and site improvement is required

(4) Site requirements. Site requirement include good drainage, potable water, sewage disposal, and soil structure sufficient to permit a structure to be built.

(5) Ongoing Activities. In most instances the instruction will not affect the environment. In certain instances where engines are operated, the impact on the environment, fumes, will be minimal. In any case, the impact will not be more than currently ongoing.

b. Consideration of Alternatives and Site Selected.

(1) Other locations aboard Camp Johnson were considered possible, South of Bldg 131, south of Building 120.

(2) The primary site was selected based on walking distance to billeting, dining facilities, and other resources, e.g., printing, classrooms, PX, laundry, Bank, athletic, headquarters, and supply.

c. Compliance with Federal, State, and Local Environmental Regulations and Guidlines.

(1) Aplicability of applicable laws

(a) Endangered Species Act. Use of the cleared area by endangered species of animals is insignificant. The project has no apparent beneficial or adverse impact on any endangered or threatened species.

(b) Clean Water Act. All sanitary waste will be disposed in the Base sanitary sewer system. This project will not cause additional water pollution.

(c) Clean Air Act Not applicable. This project will not cause additional air pollution.

(d) Coastal Zone Management Act. There is no direct or indirect impact on tidal marshes, beaches or other protected areas.

(e) Archeological and Historic Preservation Act. There are no structures in the immediate area which have been identified on state or national registers of historic sites. There are no visible remnant structures of homesites, artifacts, etc. which indicate that the site is covered by this Act.

(f) North Carclina Erosion and Sedimantation Regulation. An erosion and sediment control plan will be incorporated into the project plans and specifications as required.

(g) Hazardous Materials. These materials will be managed and disposed of in accordance with Marine Corps Base Order 11090. 1B

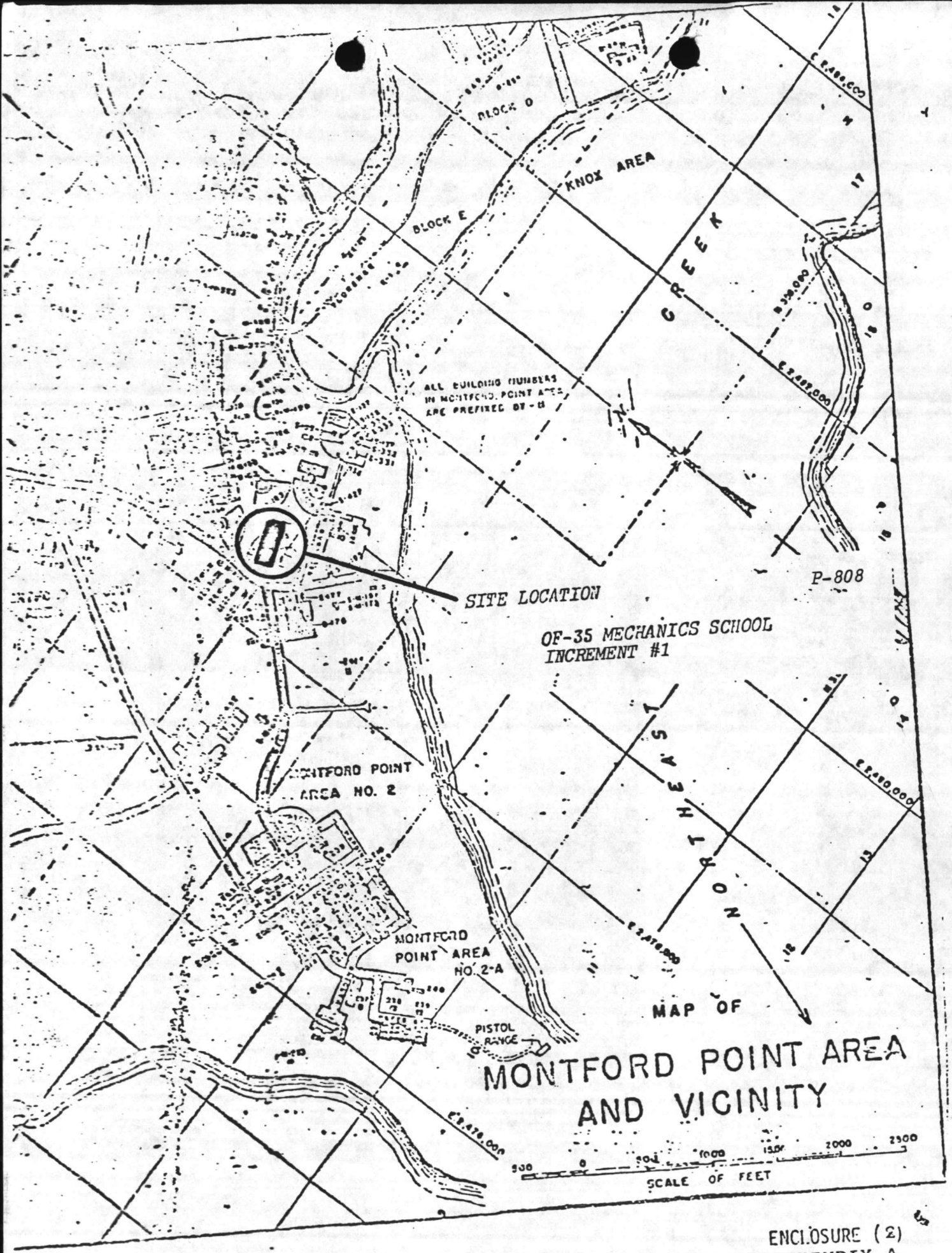
(h) Protection of Wetlands, Executive Order 11990. Not Applicable.

(i) Sanitary Wastes. All solid wastes will be disposed of at the Marine Corps Base, Camp Lejeune, N. C. Sanitary Landfill.

(j) Other Regulations. The proposed project does not involve other regulations.

(k) List permit requirements of local, state, or regulatory agencies. None

(l) Site. See Appendix A.



ENCLOSURE (2)
APPENDIX A

T-808

UNITED STATES MARINE CORPS
MARINE CORPS SERVICE SUPPORT SCHOOLS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO
4/JT/ghm
11000
10 Dec 1981

From: Commanding Officer
To: Public Works Department, Marine Corps Base, Camp Lejeune, North Carolina 28542 (Attn: Planning Branch)

Subj: FY 84 through FY 88 Five Year Military Construction (MILCON) Program for MCB, Camp Lejeune; request for Preliminary Environmental Assessments (PEA's)

Ref: (a) BO 11000.1A
(b) CG, MCB, CLNC PWO:408:EGJ:bjd:11000 dtd 20Nov81

Encl: (1) P628, Unaccompanied Enlisted Personnel Housing
(2) P808, OF-35 Mech School (Increment 1)

1. In accordance with references (a) and (b) the Preliminary Environmental Assessments are submitted as enclosures (1) and (2).

G. A. WESSELS
Acting

1. Project: P-808, OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT I)

a. Project Description. Construct permanent applied facility with piles, reinforced concrete foundation, floors, masonry walls. This includes built-up roof ovens insulation and interior support system; i.e., air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work and utilities connected.

(1) Adequate facilities are required for formally instructing Marines in 2nd, 3rd, and 4th echelon maintenance of Marine Corps motor transport equipment. Further, consolidating the instruction in one facility will reduce the span of control, reduce lost time resulting from moving from one applied instruction facility to another. Currently, facilities are located in excess of one mile from each other.

(2) Impact if not provided. If not provided, Marine Corps Service Support Schools will continue to instruct 700 students per year in inadequate i.e., over 100 degrees F temperature in classrooms and applied laboratories during the summer; under freezing weather during the winter (some chill is taken during the winter with WWII vintage space heaters. Additionally, vehicles have changed in terms of size and technological complexity requiring a greater base of knowledge to be an effective mechanic.

(3) Facilities required. 26, 961 square feet of applied academic school area, including flexible pavements, sidewalks, security fencing, lighting, utilities, and site improvement is required

(4) Site requirements. Site requirement include good drainage, potable water, sewage disposal, and soil structure sufficient to permit a structure to be built.

(5) Ongoing Activities. In most instances the instruction will not affect the environment. In certain instances where engines are operated, the impact on the environment, fumes, will be minimal. In any case, the impact will not be more than currently ongoing.

b. Consideration of Alternatives and Site Selected.

(1) Other locations aboard Camp Johnson were considered possible, South of Bldg 131, south of Building 120.

(2) The primary site was selected based on walking distance to billeting, dining facilities, and other resources, e.g., printing, classrooms, PX, laundry, Bank, athletic, headquarters, and supply.

c. Compliance with Federal, State, and Local Environmental Regulations and Guidlines.

(1) Aplicability of applicable laws

(a) Endangered Species Act. Use of the cleared area by endangered species of animals is insignificant. The project has no apparent beneficial or adverse impact on any endangered or threatened species.

(b) Clean Water Act. All sanitary waste will be disposed in the Base sanitary sewer system. This project will not cause additional water pollution.

(c) Clean Air Act Not applicable. This project will not cause additional air pollution.

(d) Coastal Zone Management Act. There is no direct or indirect impact on tidal marshes, beaches or other protected areas.

(e) Archeological and Historic Preservation Act. There are no structures in the immediate area which have been identified on state or national registers of historic sites. There are no visible remnant structures of homesites, artifacts, etc. which indicate that the site is covered by this Act.

(f) North Carclina Erosion and Sedimantation Regulation. An erosion and sediment control plan will be incorporated into the project plans and specifications as required.

(g) Hazardous Materials. These materials will be managed and disposed of in accordance with Marine Corps Base Order 11090. 1B

(h) Protection of Wetlands, Executive Order 11990. Not Applicable.

(i) Sanitary Wastes. All solid wastes will be disposed of at the Marine Corps Base, Camp Lejeune, N. C. Sanitary Landfill.

(j) Other Regulations. The proposed project does not involve other regulations.

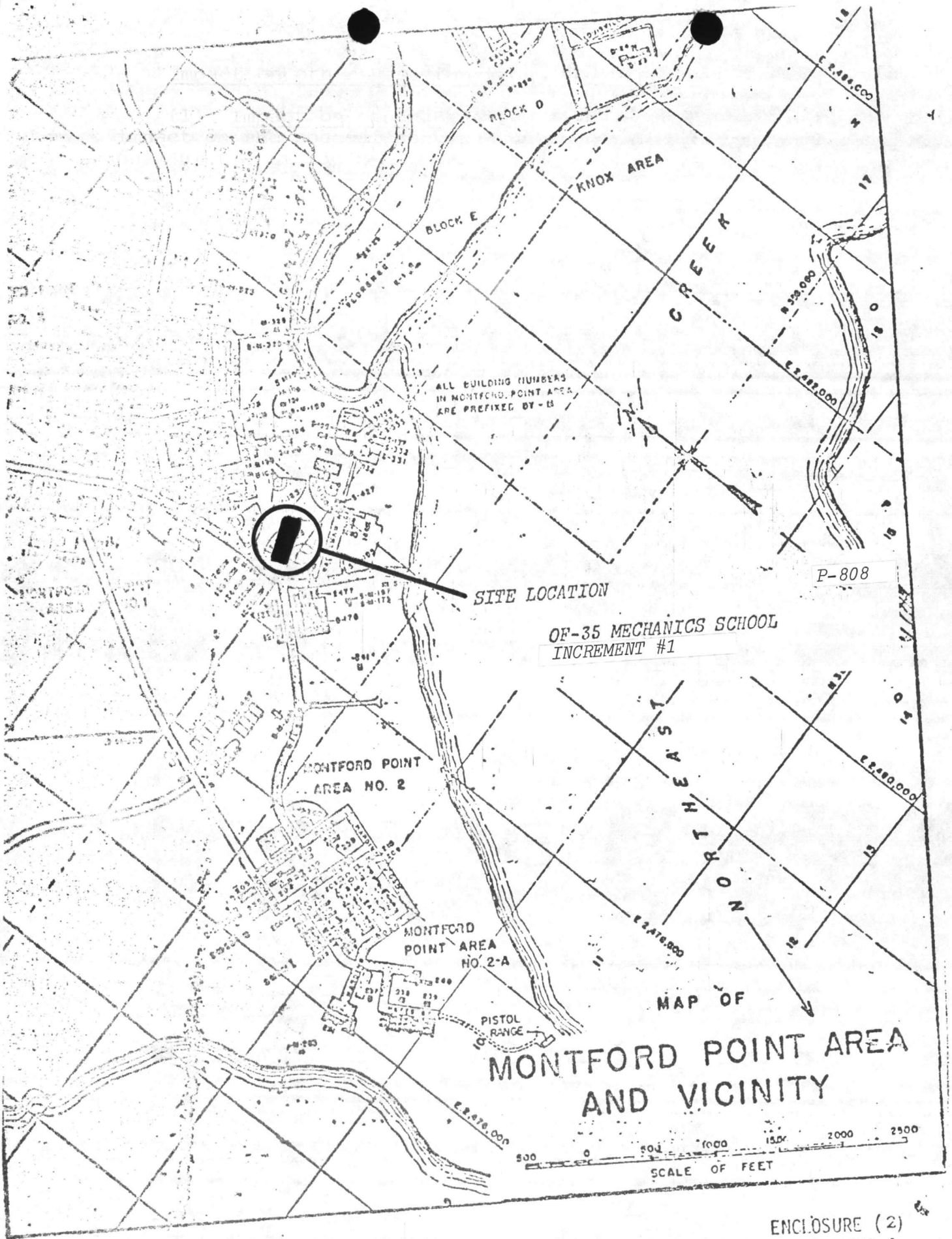
(k) List permit requirements of local, state, or regulatory agencies. None

(l) Site. See Appendix A.

d. Impact on other Base functions and missions.

(1) Impact on other Base functions. the proposed site will impact on the special service function. That is, it will be located on athletic fields S-M-165 and S-M-186.

(2) Master Plan. This project was discussed with the Design Director, Public Works Department; the Director advised that the project was consistent with the existing Master Plan and projected use of the surrounding area.



ENCLOSURE (2)
APPENDIX A

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542	OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-20	P-808	$3,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MECHANICS SCHOOL	SF	26,961	86.23	2,325
BUILDING	SF	26,961	75.00	(2,022)
BUILT-IN EQUIPMENT	LS	-	-	(303)
SUPPORTING FACILITIES	LS	-	-	376
PAVEMENTS, RIGID AND FLEXIBLE	LS	-	-	(160)
SECURITY LIGHTING, FENCING, UTILITIES, AND	LS	-	-	
SITE IMPROVEMENT	LS	-	-	(216)
SUBTOTAL	LS	-	-	2,701
CONTINGENCY - 10%	LS	-	-	270
TOTAL CONTRACT COST	LS	-	-	2,971
SUPERVISION, INSPECTION, & OVERHEAD - 5.5%	LS	-	-	163
TOTAL REQUEST (ROUNDED)	LS	-	-	3,100
INSTALLED EQUIP - OTHER APPROPRIATIONS	-	-	-	-

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct permanent applied facility with piles, reinforced concrete foundation, floors, and masonry walls. Built-up roof over insulation and and interior support systems; i.e. air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work, and utilities connected.

11. REQUIREMENTS

PROJECT: Construct Increment I of applied/academic facilities for Motor Transport School, MCSSS.

REQUIREMENT: Adequate facilities are required for training of military personnel in 2nd, 3rd, and 4th echelon maintenance of Marine Corps equipment.

CURRENT SITUATION: Existing Motor Transport School facilities are located in inadequate WW-II masonry buildings.

IMPACT IF NOT PROVIDED: Continued training of Marine Corps Personnel in inadequate facilities which impairs the effectiveness of the training program.

VM

S/N 0102-LF-001-3910 ☆U. S. Government Printing Office: 1979—603-076/6547 2-1

ENCL (3)

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

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 (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.

5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.

6. Use of Air Conditioning: Ceiling "U" factors will be made to conform WITH DOD 4270.1-M.

7. Preservation of Historical Sites and Structures: This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.

8. "New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76): Not applicable.

S/N 0102-LF-001-3915 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/34312-1

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

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

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

FACILITY STUDY

1. Project. Provide 26,961 SF of applied/academic school area for Motor Transport School, Marine Corps Service Support School, as Increment 1 of a total planned 99,079 SF of training facilities.

2. Current and Planned Future Workload with Regard to this Project. The percentage of usage for this facility is 100 percent of the time, and the duration of need is indefinite. It can only be anticipated that the future workload will increase as the new FLS system is introduced into the Marine Corps requiring expanded teaching capabilities and facilities.

3. Description of Proposed Construction.

a. Type of Construction.

(1) Construct a permanent instruction facility of steel frame and masonry construction with pile and reinforced concrete foundation, floors, and roof; masonry walls, built-up roof, insulation, interior and exterior utility systems.

(2) Pollution controls, walks and parking pavements, security fencing and lighting, and site improvements.

b. Replacement. Existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.

c. Description of Work to be Done.

(1) Primary Facility. Modular reinforced concrete/steel/masonry structure on pile foundation.

(a) Support Facilities. Flexible pavements, sidewalks, security fencing and lighting, utilities, and site improvement.

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

(3) Collateral Equipment. The collateral equipment list will be submitted under separate cover.

(4) Supporting Facilities. Special piling, foundation, collateral equipment, site improvements, and pollution abatement. Existing facilities will be utilized during period of dual instruction as new FLS system is introduced to the Motor Transport organization.

S/N 0102-LF-001-3915 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/3431 2-1

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

4. Cost Estimate. Area cost factor for Camp Lejeune, NC is 0.95. Cost data derived form the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-83.

5. Justification for Project and for Scope of Project.

a. Justification for Project.

(1) Project. Proposed facilities are required to provide the Motor Transport School with adequate facilities to perform academic and applied instruction.

(2) Current Situation. Existing school facilities are inadequate WW-II masonry type buildings totally inadequate due to size, configuration, lighting, etc.

(3) Impact if not Provided: Continued inefficient operation of school facilities that do not meet minimum requirements for applied and instruction facilities.

b. Justification for Scope of Project. The project scope, 26,961 SF (Increment 1) is the minimum size facility that can meet the space requirements for the Motor Transport School for initial phase of the FLS system. See paragraph 13.

6. Equipment Provided from Other Appropriations: Not applicable.

7. Common Support Facilities. There are no common support facilities available in the MCSSS area.

8. Effect on Other Resources. The project will require approximately $17,920 per year in increased O&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 inadequate facilities. Proposed construction should be responsible 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.

UTILITY REQUIREMENTS

a. Electricity:

Consumption	71,695	KWH/yr
Peak Demand	58	KW
Avg. Demand	41	KW

b. Steam:

Consumption 23,066,688 lbs/yr
Demand 3,706 lbs/yr

c. Coal: 405.2 tons/yr

d. Adequate utility requirements are available.

9. Siting of the Project. The facility is located in the Montford Point area. See enclosure (1).

10. Other Graphic Presentations, including Photographs. See enclosure (2).

11. Economic Analysis. This facility is being constructed on a developed site in the Montford Point 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. An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

13. Quantitative Data.

a. Automotive Intermediate Maintenance Course - 5/4 ton High Mobility Vehicle (26 student stations).

(1) Category Code 171-10:

Classroom -	45 x 26 =	1,170 SF
Support Space -	30 x 26 =	780 SF
NET SF		1,950 SF
Circulation & Service Area -		234 SF
GROSS SF		2,184 SF

(2) Category Code 171-20, 13 Operational Diesel Engines - 5/4 ton Vehicle (26 student stations):

(SEE NEXT PAGE)

Laboratory -	150 x 13 =	1,950 SF
Support Space -	375 x 1 =	375 SF
NET SF:		2,325 SF
Circulation & Service Area -		279 SF
GROSS SF:		2,604 SF

b. Automotive Intermediate Maintenance Course - Fuel and Electrical Systems Classrooms-Laboratories (2).

(1) Category Code 171-10:

Classroom -	45 x 26 =	1,170 SF
Support Space -	30 x 26 =	780 SF
NET SF:		1,950 SF
Circulation & Service Areas		234 SF
GROSS SF PER LAB:		2,184 SF
	X	2 LABS
TOTAL GROSS SF:		4,368 SF

(2) Category Code 171-20:

Cranking Sys Components - 4 Models
Charging Sys Components - 4 Models
Fuel Sys Components - 4 Models

26 student station requirements:

Laboratory -	100 x 13 =	1,300 SF
Support Space -	375 x 1 =	375 SF
NET SF:		1,675 SF
Circulation & Service Areas (12%)		200 SF
GROSS SF PER LAB:		1,875 SF
	X	2 LABS
TOTAL GROSS SF:		3,750 SF

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

c. Automotive Intermediate Maintenance Course - Power Transmission Classroom-Laboratory.

(1) Category Code 171-10, 26 student stations:

Classroom -	45 x 26 =	1,170 SF
Support Space -	30 x 26 =	780 SF
NET SF:		1,950 SF
Circulation & Service Areas		234 SF
GROSS SF:		2,184 SF

(2) Category Code 171-20:

	SF EA	TOTAL SF
13 - 5/4 T Transmissions	40	520
13 - 5/4 T Transfers	30	390
13 - 5/4 Axle Assemblies	50	650
13 - 5/4 Steering Gear Assy	28	364
Material Handling Equipment Maneuvering Space:		500
TOTAL SF:		2,424

26 student stations

Laboratory -	2,424 x 1 =	2,424 SF
Support Space -	375 x 1 =	375 SF
NET SF:		2,799 SF
Circulation & Service Areas (12%)		336 SF
GROSS SF:		3,135 SF

S/N 0102-LF-001-3915 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/3431 2-1

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

d. Automotive Organizational Maintenance Course - 5/4 T High-Mo Module.

40 student stations

(1) Category Code 171-10:

Classroom -	20 x 40 =	800 SF
Support Space -	2.25 x 800 =	1800 SF
NET SF:		2600 SF
Circulation & Service Areas (12%)		312 SF
GROSS SF:		2,912 SF

(2) Category Code 171-20:

8 Operational 5/4 T High Mobility Tactical Vehicles

(approx floor space required: 590 SF each)

Laboratory -	590 x 8 =	4720 SF
Support Space -	480 x 1 =	480 SF
NET SF:		5200 SF
Circulation & Service Areas (12%)		624 SF
GROSS SF:		5824 SF

e. SUMMARY:

TOTAL ACADEMIC:	65,591 SF
TOTAL APPLIED:	33,488 SF
GRAND TOTAL:	99,079 SF

14. Maintenance Facilities: Not applicable.

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT TITLE	**5. PROJECT NUMBER**
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

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

16. Relocation Facilities: Not applicable.

17. Storage Facilities: Not applicable.

18. Hazard Identification, Assessment, and Analysis: The proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:

a. Exhaust fumes.

b. Battery acid fumes.

c. Gasoline/diesel fumes.

S/N 0102-LF-001-3915 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/34312-1

~~P-808~~ P-808

PWO:408:VM:bjd
P-808/P-809
17 SEP 1981

From: Commanding General
To: Commanding Officer, Marine Corps Service Support Schools

Subj: FY-84 MCON Project P-808, OF-35 Mechanics School, MCSSS (Increment 1), and FY-85 MCON Project P-809, OF-35 Mechanics School (Increment 2); request for collateral equipment requirements

Ref: (a) CG MCB CLNC ltr FAC:ACA:mkc of 10 Aug 1981

Encl: (1) DD Form of 1 Aug 81 for Project P-808
(2) DD Form of 1 Aug 81 for Project P-809
(3) Sample of Collateral Equipment Requirements List

1. Reference (a) forwarded this Command's FY-84 through FY-88 Military Construction Program and stated that collateral equipment requirements for the subject projects would be forwarded under separate correspondence.

2. Two separate lists of collateral equipment to support these proposed facilities should be submitted to the Public Works Department (PWD), Planning Branch, as soon as possible.

3. Enclosures (1) and (2) provide project information to aid you in this task. For further project information, contact Mr. Vann Marshburn, PWD Planning Branch, on extension 1833. Enclosure (3) is a sample format for submitting this information.

4. It is requested that full identification of each desired item be obtained from the Technical and Research Branch of the Logistics Department.

K. P. MILLICE, Jr.
By direction

Blind copy to: (w/o encls)
AC/S, Fac
AC/S, Log

Return to PW Planning Branch

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542	OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-20	P-808	$3,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MECHANICS SCHOOL	SF	26,961	86.23	2,325
BUILDING	SF	26,961	75.00	(2,022)
BUILT-IN EQUIPMENT	LS	-	-	(303)
SUPPORTING FACILITIES	LS	-	-	376
PAVEMENTS, RIGID AND FLEXIBLE	LS	-	-	(160)
SECURITY LIGHTING, FENCING, UTILITIES, AND	LS	-	-	
SITE IMPROVEMENT	LS	-	-	(216)
SUBTOTAL	LS	-	-	2,701
CONTINGENCY - 10%	LS	-	-	270
TOTAL CONTRACT COST	LS	-	-	2,971
SUPERVISION, INSPECTION, & OVERHEAD - 5.5%	LS	-	-	163
TOTAL REQUEST (ROUNDED)	LS	-	-	3,100
INSTALLED EQUIP - OTHER APPROPRIATIONS	-	-	-	-

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct permanent applied facility with piles, reinforced concrete foundation, floors, and masonry walls. Built-up roof over insulation and and interior support systems; i.e. air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work, and utilities connected.

11. REQUIREMENTS

PROJECT: Construct Increment 1 of applied/academic facilities for Motor Transport School, MCSSS.

REQUIREMENT: Adequate facilities are required for training of military personnel in 2nd, 3rd, and 4th echelon maintenance of Marine Corps equipment.

CURRENT SITUATION: Existing Motor Transport School facilities are located in inadequate WW-II masonry buildings.

IMPACT IF NOT PROVIDED: Continued training of Marine Corps Personnel in inadequate facilities which impairs the effectiveness of the training program.

VM

S/N 0102-LF-001-3910 ☆U. S. Government Printing Office: 1979—603-076/6547 2-1

ENCL (3)

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT TITLE	**5. PROJECT NUMBER**
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

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 (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.

5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.

6. Use of Air Conditioning: Ceiling "U" factors will be made to conform WITH DOD 4270.1-M.

7. Preservation of Historical Sites and Structures: This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.

8. "New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76): Not applicable.

S/N 0102-LF-001-3915 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/34312-1

Extra 10

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542	OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-20	P-808	$3,100

9. COST ESTIMATES

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PAVEMENTS, RIGID AND FLEXIBLE	LS	-	-	(160)
SECURITY LIGHTING, FENCING, UTILITIES, AND SITE IMPROVEMENT	LS	-	-	(216)
SUBTOTAL	LS	-	-	2,701
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TOTAL REQUEST (ROUNDED)	LS	-	-	3,100
INSTALLED EQUIP - OTHER APPROPRIATIONS	-	-	-	-

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VM

S/N 0102-LF-001-3910 ☆U. S. Government Printing Office: 1979—603-076/6547 2-1

ENCL (3)

1. COMPONENT	FY 19__ MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

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4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.

5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.

6. Use of Air Conditioning: Ceiling "U" factors will be made to conform WITH DOD 4270.1-M.

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S/N 0102-LF-001-3915 ☆U.S. GOVERNMENT PRINTING OFFICE 1978—703-173/34312-1

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

FACILITY STUDY

1. Project. Provide 26,961 SF of applied/academic school area for Motor Transport School, Marine Corps Service Support School, as Increment 1 of a total planned 99,079 SF of training facilities.

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3. Description of Proposed Construction.

a. Type of Construction.

(1) Construct a permanent instruction facility of steel frame and masonry construction with pile and reinforced concrete foundation, floors, and roof; masonry walls, built-up roof, insulation, interior and exterior utility systems.

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MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

4. Cost Estimate. Area cost factor for Camp Lejeune, NC is 0.95. Cost data derived form the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-83.

5. Justification for Project and for Scope of Project.

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6. Equipment Provided from Other Appropriations: Not applicable.

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UTILITY REQUIREMENTS

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Consumption	71,695	KWH/yr
Peak Demand	58	KW
Avg. Demand	41	KW

b. Steam:

Consumption 23,066,688 lbs/yr
Demand 3,706 lbs/yr

c. Coal: 405.2 tons/yr

d. Adequate utility requirements are available.

9. Siting of the Project. The facility is located in the Montford Point area. See enclosure (1).

10. Other Graphic Presentations, including Photographs. See enclosure (2).

11. Economic Analysis. This facility is being constructed on a developed site in the Montford Point 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. An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

13. Quantitative Data.

a. Automotive Intermediate Maintenance Course - 5/4 ton High Mobility Vehicle (26 student stations).

(1) Category Code 171-10:

Classroom -	45 x 26 =	1,170 SF
Support Space -	30 x 26 =	780 SF
NET SF		1,950 SF
Circulation & Service Area -		234 SF
GROSS SF		2,184 SF

(2) Category Code 171-20, 13 Operational Diesel Engines - 5/4 ton Vehicle (26 student stations):

(SEE NEXT PAGE)

Laboratory -	150 x 13 =	1,950 SF
Support Space -	375 x 1 =	375 SF
NET SF:		2,325 SF
Circulation & Service Area -		279 SF
GROSS SF:		2,604 SF

b. Automotive Intermediate Maintenance Course - Fuel and Electrical Systems Classrooms-Laboratories (2).

(1) Category Code 171-10:

Classroom -	45 x 26 =	1,170 SF
Support Space -	30 x 26 =	780 SF
NET SF:		1,950 SF
Circulation & Service Areas		234 SF
GROSS SF PER LAB:		2,184 SF
	X	2 LABS
TOTAL GROSS SF:		4,368 SF

(2) Category Code 171-20:

Cranking Sys Components - 4 Models
Charging Sys Components - 4 Models
Fuel Sys Components - 4 Models

26 student station requirements:

Laboratory -	100 x 13 =	1,300 SF
Support Space -	375 x 1 =	375 SF
NET SF:		1,675 SF
Circulation & Service Areas (12%)		200 SF
GROSS SF PER LAB:		1,875 SF
	X	2 LABS
TOTAL GROSS SF:		3,750 SF

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

c. Automotive Intermediate Maintenance Course - Power Transmission Classroom-Laboratory.

(1) Category Code 171-10, 26 student stations:

Classroom -	45 x 26 =	1,170 SF
Support Space -	30 x 26 =	780 SF
NET SF:		1,950 SF
Circulation & Service Areas		234 SF
GROSS SF:		2,184 SF

(2) Category Code 171-20:

	SF EA	TOTAL SF
13 - 5/4 T Transmissions	40	520
13 - 5/4 T Transfers	30	390
13 - 5/4 Axle Assemblies	50	650
13 - 5/4 Steering Gear Assy	28	364
Material Handling Equipment Maneuvering Space:		500
TOTAL SF:		2,424

26 student stations

Laboratory -	2,424 x 1 =	2,424 SF
Support Space -	375 x 1 =	375 SF
NET SF:		2,799 SF
Circulation & Service Areas (12%)		336 SF
GROSS SF:		3,135 SF

S/N 0102-LF-001-3915 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/3431 2-1

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

d. Automotive Organizational Maintenance Course - 5/4 T High-Mo Module.

40 student stations

(1) Category Code 171-10:

Classroom -	20 x 40 =	800 SF
Support Space -	2.25 x 800 =	1800 SF
NET SF:		2600 SF
Circulation & Service Areas (12%)		312 SF
GROSS SF:		2,912 SF

(2) Category Code 171-20:

8 Operational 5/4 T High Mobility Tactical Vehicles

(approx floor space required: 590 SF each)

Laboratory -	590 x 8 =	4720 SF
Support Space -	480 x 1 =	480 SF
NET SF:		5200 SF
Circulation & Service Areas (12%)		624 SF
GROSS SF:		5824 SF

e. SUMMARY:

TOTAL ACADEMIC:	65,591 SF
TOTAL APPLIED:	33,488 SF
GRAND TOTAL:	99,079 SF

14. Maintenance Facilities: Not applicable.

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	P-808

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

16. Relocation Facilities: Not applicable.

17. Storage Facilities: Not applicable.

18. Hazard Identification, Assessment, and Analysis: The proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:

a. Exhaust fumes.

b. Battery acid fumes.

c. Gasoline/diesel fumes.

REQUEST FOR PROJECT SITE APPROVAL
AVMC 11069 (11-80)
N 0000-00-006-7800 U/I: PADS OF 50.

PROJECT NUMBER	ACTIVITY UIC
8 P-805	67001

TO: COMMANDANT OF THE MARINE CORPS (CODE LFF-1) (4700)

FROM: MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

SECTION A FOR USE BY REQUESTER

CATEGORY CODE AND PROJECT TITLE	TYPE OF FUNDING	COST ($000)	PROGRAM YEAR
171-20, OF-35 MECHANICS SCHOOL (INCREMENT 1)	MCON	$3,100	FY-84

PROJECT DESCRIPTION
Construct school facility for Motor Transport with lifts, engine exhaust system, classrooms, air-conditioning and heating systems.

REMARKS
This project will provide adequate training facilities for the Motor Transport School, MCSS

TYPE OF MAP	DATE
Site Location	-

REQUESTED BY *(Typed name and signature)*
R. E. CARLSON, CDR, CEC, USN
PUBLIC WORKS OFFICER

DATE: 1 AUG 1981

DATE RECEIVED

ANALYSIS
(Place a check (✓) in box opposite each item. Y = Yes; N = No; NA = Not Applicable)

Y	N	NA	PROJECT SITING CONSIDERATION
✓			a. COMPATIBLE WITH ACTIVITY PLANNED DEVELOPMENT GOALS
✓			b. DEMONSTRATES SOUND PLANNING PRINCIPLES
✓			c. MEETS MINIMUM PLANNING AND SITING CRITERIA
			d. COMPLIES WITH THE FOLLOWING CRITERIA:
		✓	(1) AMMUNITION AND EXPLOSIVES
		✓	(2) ELECTROMAGNETIC RADIATION
		✓	(3) AIRFIELD SAFETY
✓			(4) NOISE INTENSITY
✓			(5) FIRE PROTECTION

COMPATIBLE WITH ACTIVITY MASTER PLAN *(Check appropriate box)*
- ☐ IDENTICAL
- ☐ DIFFERENT BUT CONSISTENT
- ☑ NOT SHOWN BUT CONSISTENT
- ☐ *NOT SHOWN AND INCONSISTENT
- ☐ *DIFFERENT AND INCONSISTENT

CRITERIA CERTIFICATION(S) REQUESTED *(Check)*
☐ DDESB ☐ CNO ☐ NAVSEA ☐ NAVELEX ☐ NAVAIR ☐ OTHER:

DATE

DATE CERTIFICATION(S) RECEIVED

DDESB	CNO	NAVSEA	NAVELEX	NAVAIR	OTHER

ACTION
☑ APPROVED ☐ DISAPPROVED ☐ DEFERRED

REMARKS

SITE APPROVED
HQMC
DATE 8/30/82
BY

RECEIVED
1 SEP 1982
PUBLIC WORKS DEPT.
CAMP LEJEUNE, N.C.

Copy to:
COMNAVFACENGCOM
COMLANTNAVFACENGCOM (Code 09A, 202)

APPROVING OFFICIAL *(Typed name and signature)*
T.M. Barr
By direction

DATE: 01 SEP 1982

HQMC REVIEW

equires approval of a major change to the master plan prior to site approval.

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OTHER REQUIREMENTS FOR SUPPLIES AND EQUIPMENT

- Drinking Water Coolers
- Venetian Blinds - All lecture type classroom and office spaces
- Draperies for lecture type classrooms
- Instructor platform for all lecture type classrooms & F&E Lab
- Air conditioning system for all lecture type classrooms & F&E Lab
- Heating for all enclosred spaces
- Exhaust gas removal system for the CUCV/Organizational Maintenance laboratory
- Telephone system for all office spaces
- Deep sinks/lavatories for all laboratory spaces
- External storage of, and central supply system for, fuel in CUCV laboratory
- Accommodations for storage of student handout material in the classrooms (twenty bins approximately 10" x 12" x 12")
- Vacuum Cleaners for Classrooms 1 and 2

not C/E

- Do they want Draperies & Venetian blinds in Lecture classrooms?

STOCK NO.	ITEM/EQUIPMENT DESCRIPTION	QTY	UNIT PRICE	TOTAL COST
GSA Contract	Player, Videocassette	5	2,337.00	11,685.00
GSA Contract	Monitor, ITV	10	475.00	4,750.00
5180-00-606-3566	General Mech Tool Kit	62	331.00	20,522.00
* Stock No. 00500	Deluxe Lectern, w/wheels, Light & 3 Shelves	7	250.00	1,750.00
6625-00-764-6106	Multimeter, Simpson 260	20	160.01	3,200.20
6625-01-131-8586	Multimeter, Digital	42	278.49	11,696.58
4140-00-833-5068	Pedestal Fan	4	130.00	520.00
4910-00-251-6981	Creeper, Mechanics	40	10.57	422.80
4910-00-262-0392	Jack Stands, 5 Ton	80	18.93	1,514.40
4910-00-289-7233	Jack, Floor, 10 Ton	4	584.00	2,336.00
No. T5-725-465 Carolina Office Supply	Magnetic Board	5	376.00	1,880.00
3M Stock No. 78-6969-1889-1	Projector Stand ? Trng Eqpt.?	5	115.00	575.00
7195-00-912-9445	Bulletin Board	10	10.60	106.00
6645-00-532-3342	Clock, Wall, Electric	12	6.00	72.00
4210-00-252-5343	Fire Extinguisher	15	114.02	1,710.30
GSA Contract	Ceiling Mounts for ITV Monitors ?	10	84.00	840.00
4940-00-449-6689	Parts Cleaner	2	322.00	644.00
7125-01-C00-3856	Parts Rota Bin 3' Diam.	1	508.71	508.71
6130-00-106-6445	Battery Charger	2	359.81	719.62
4930-00-357-6301	Lubricating Kit	10	97.63	976.30
7240-00-255-8113	Measure, Liquid, 2 Qt.	4	7.30	29.20
6230-00-239-3518	Light, Extension	20	4.97	99.40
7240-00-255-5996	Measure, Liquid, 8 Qt.	4	10.00	40.00

* Stone Southern School Sup Co. 7800 Heaco Springs Rd. Raleigh NC Tel #

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STOCK NO.	ITEM/EQUIPMENT DESCRIPTION	QTY	UNIT PRICE	TOTAL COST
7110-00-132-6650	Chalkboard, Portable	1	58.00	58.00
7110-00-843-7917	Chalkboard, Hanging	8	59.00	472.00
No. T5-2547 Carolina Office Supply	Board, Dry Erace Magnetic, 4'x8'	5	230.00	1,150.00
7110-00-286-3798	File Cabinet, 5 Dr.	1	218.00	218.00
7125-00-C00-0078	Storage Cabinet	27	260.00	7,020.00
7110-00-~~740-8931~~ 149-1627	Desk, Single Pedestal	4	191.00	764.00
7110-00-~~143~~-0082 113-0816	Office Table 60"x34"	2	105.00	210.00
7110-00-~~177-4901~~ 113-0633	Office Table 36"x24"	121	75.00	9,075.00
7110-00-143-0821	Office Table 45"x34"	7	101.00	707.00
7110-00-082-6226	Chair, Straight, w/o Arms	207	32.00	6,624.00
7110-00-089-6791	Chair, Rotary, w/Arms	4	51.00	204.00
7110-00-281-4469	Chair, Drafting	60	52.00	4,368.00
4910-00-756-0934	Work Bench	66	106.56	7,032.96
7520-00-162-6178	Sharpener, Pencil	19	2.55	48.45
7520-00-205-1857	Basket, Wastepaper	22	6.40	140.80
7240-00-160-0440	Can, Trash-Garbage	11	17.90	196.90
7920-00-893-5903	Wringer and Bucket, Mop	8	38.00	304.00
GSA Contract	Projection Screen	5	65.00	325.00
GSA Contract	Projector, 35mm Slide	8	185.00	1,480.00
GSA Contract	Projector, Overhead	8	366.00	2,928.00
GSA Contract	Projector, 16mm Motion Picture	1	396.00	396.00
GSA Contract	Public Address System (Wireless Microphone)	1	760.00	760.00
GSA Contract	Intercom w/8 Student Stations Plus Master	1	?	?

Prefer this one ↑ built-in

Ask about too much noise this -

STOCK NO.	ITEM/EQUIPMENT DESCRIPTION	QTY	UNIT PRICE	TOTAL COST
7125-00-330-0130 (764-6141)	Cabinet, Storage	✓ 1	137.78 322.35	322.35
5120-00-293-1439	Vice, Machinist's	20	59.00	1,180.00
6330-00-105-1418	Duo-Check Tester	20	27.05	540.20
5120-00-640-6364	Wrench, Torque ½"	20	32.00	640.00
5120-00-203-9573	Wrench Set, Socket ¼" Dr	20	9.30	186.00
5120-00-449-8200	Wrench Set, Socket 3/8" Dr	20	210.00	4,200.00
4910-00-273-3658	Bleeder Ball	20	81.20	1,624.00
4910-00-124-2554	Simplified Test Equipment for Internal Combustion Engines	✓ 20	3,695.00	73,900.00

Investment item

NAVFAC 11010/6 (Rev. 11/81)

23 Oct 84

MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PROJECT TITLE
MECHANICS TRAINING BUILDING (INCREMENT 1)

P. NO. P-808

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:	*Venetian blinds and window screens in Labs only				
	*Interior steam system				
	*Plumbing system				
	*Sprinkler System				
	*Telephone, fire alarm, and intercom systems				
	*Air conditioning system for all lecture type classrooms, Lab & Shop Space HVAC				
	*Instructor platform for all lecture type classrooms				
	*Exhaust gas removal system for the CUCV/Organizational Maint. laboratory				
	*Deep sinks/lavatories for all laboratory spaces				
	*External storage of, and central supply system for fuel in CUCV laboratory				
	*Provide for tier arrangement of seating in classrooms 1,2, & 3				
	*Drinking Water coolers				
	*~~Public Address System~~ Intercom w/8 Student Stations Plus Master. ~~Wireless microphones~~				

Mr Stephens ced will make chgs & let us know by 17/13

no appl to be carried over. new Tenant will use

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

DATE 23 Oct 84

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

2. PROJECT TITLE
MECHANICS TRAINING BUILDING (INCREMENT 1)

P. NO. P-808

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS:					
7110-00-132-6650	Chalkboard, Portable	1	EA	~~58.00~~ 95.00	~~58~~ 95
7110-00-843-7917	Chalkboard, hanging	~~8~~ 3	EA	~~59.00~~ 89.00	71 ~~177~~
7110-00-286-3798	File Cabinet, 5 drawer	1	EA	~~218.00~~ 139.91	140 ~~218~~
7125-00-~~269-8345~~ C00-0078	Storage Cabinet	27	EA	~~153.00~~ 260.00	~~4,131~~ 7,020
Brodhead-Garrett 2448 Industrial Pk Dr. Macon, GA 31208 (912)781-8952	Apron and Book Rack Model 120 pg 84	28	EA	82.50	2,310
Carolina Office Supply No. T5-725-465	Magnetic Board	5	EA	376.00	1,880
3MStock No. 78-6969-1889-1	Projector Stand	~~5~~ 3	EA	115.00	~~345~~ 345
Carolina Office Supply No. MF-924002	~~Lecternette, w/AC adapter~~ Deluxe Lectern, w/wheels, Light + 3 shelves	~~7~~ 3	EA	~~97.50~~ 250.00	~~293~~ 1,750
3M Stock No. 78-6969-1891-7	Podium and side table	7	EA	899.00	6,293
Carolina Office Supply No. T5-2547	Board, Dry erase magnetic, 4'x8'	~~6~~ 5	EA	230.00	~~1,380~~ 1,150
7110-00-~~740-8931~~ 149-1627	Desk, ~~single pedestal~~ Type II, Style D, 72"x36"	~~4~~ 1	EA	~~191.00~~ 245.74	~~191~~
~~7110-00-758-6146~~	~~Desk, double pedestal~~	~~4~~	EA	~~302.00~~	~~1,208~~
7110-00-~~143-0082~~ 113-0816	Office table 60" x ~~34"~~ 24"	~~2~~ 77	EA	~~105.00~~ 168.45	~~8,085~~ 210
7110-00-~~143-0821~~ 113-0633	Office table ~~45" x 34"~~ 36"x24"	~~126~~ 6	EA	~~101.00~~ 84.27	~~606~~ 10,780
~~7110-00-143-0821~~	~~" " 45" x 34"~~	~~7~~		~~101.00~~	~~707~~
7110-00-082-6226	Chair, straight, w/o arms	~~234~~ 207	EA	~~32.00~~ 38.34	~~7,488~~ 6,624
7110-00-089-6791	Chair, rotary, w/arms	~~4~~ 5	EA	~~51.00~~ 66.31	255 ~~265~~
7110-00-281-4469	Chair, drafting	~~60~~ 54	EA	~~52.00~~ 48.03	~~2,808~~ 2,882
4910-00-756-0934	Work bench	~~66~~ 52	EA	106.56	~~5,541~~ 7,033

89
×8
712

90
×8
720
−8
712

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

DATE: 23 Oct 84

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

2. PROJECT TITLE
MECHANICS TRAINING BUILDING (INCREMENT 1)

P. NO. P-808

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS (cont'd...)					
7520-00-205-1857 ✓	Basket, wastepaper ✓✓	22	EA	7.40 ~~6.40~~	163 141
7240-00-160-0440 ✓	Can, trash-garbage ✓✓	11 ~~14~~	EA	16.80 ~~17.90~~	185 ~~251~~
7195-00-912-9445 check this ✓	Bulletin board ✓✓	10 ~~7~~	EA	10.60	106 ~~74~~
6645-00-530-3342 ✓	Clock, wall, electric ✓✓	12 ~~8~~	EA	8.20 ~~6.00~~	72 ~~48~~
4140-00-833-5068	(Circulating) ~~Pedestal~~ fan ✓✓	4	EA	128.00 ~~130.00~~	520
4910-00-262-0392 check this	Jack stands, 5 ton ✓✓	80	EA	18.93	1,514
4910-00-289-7233 "	Jack, floor, 10 ton ✓✓	4	EA	584.00	2,336
4210-00-252-5343 "	Fire extinguisher (fill in desc) ✓	15 ~~17~~	EA	114.02	1710 ~~1,938~~
4940-00-449-6689 " ✓	Parts cleaner ✓✓	2	EA	322.00	644
7125-01-C00-3856 "	Parts Rota bin 3' diameter ✓✓	1	EA	508.71	509
6130-00-106-6445 "	Battery charger ✓✓	~~2~~ 1	EA	359.81	720 ~~360~~
7125-00-330-0130 "	Cabinet, storage ✓✓	1	EA	322.35	322
OP	Draperies (office)	10	PR	90.00	900
	Black out draperies for ~~Lab and~~ classrooms + Classrooms/Lab	10	PR	90.00	900
	TOTAL EXPENSE ITEMS:				53,288
3. INVESTMENT ITEMS:	Simplified test eqpt for internal combustion engines ✓✓	20	EA	3,695.00	73,900
	TOTAL INVESTMENT ITEMS:				73,900
4. APA EQUIPMENT:	None				
5. TRAINING EQUIPMENT:	(To be locally funded)				
	Projection screen ✓✓	5	EA	65.00	325
	Projector, 35mm slide ✓✓	8	EA	185.00	1,480
	Projector, overhead ✓✓	8	EA	366.00	2,928
	Projector, 16mm motion picture ✓✓	~~3~~ 1	EA	396.00	396 ~~1,188~~
	Player, videocassette ✓✓	~~3~~ 5	EA	2,337.00	~~7,011~~ 11,685

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

DATE 23 Oct 84

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

2. PROJECT TITLE
MECHANICS TRAINING BUILDING (INCREMENT 1)

P. NO. P-808

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
5.	TRAINING EQPT. (cont'd...)				
	Monitor, ITV ✓	10 ~~6~~	EA	475.00	4750 ~~2,850~~
	TOTAL TRAINING EQPT.				15,782
	SUMMARY:				
	TOTAL EXPENSE ITEMS:				53,288
	TOTAL INVESTMENT ITEMS:				73,900
					127,188
	Accelerated to FY-87				146,768