1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		30-Oct-87

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCB CAMP LEJEUNE JACKSONVILLE, N.C.	DRIVER TRAINING SCHOOL

5. PROGRAM ELEMENT	6. CAT CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-10	P-807	14,710

9. COST ESTIMATES

ACF:0.84 FER:N/A ITEM	ESCALATED TO: APRIL 1991 (3RD QTR 91)	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES		SF	116,022	59.18	6,866
BUILDING 1 - ACADEMIC INSTRUCTION BLDG	171-10	SF	26,539	67.45	(1,790)
BUILT-IN EQUIP		LS			(239)
BUILDING 2 - DISPATCH BLDG		SF	225	75.56	(17)
BUILT-IN EQUIP		LS			(0)
BUILDING 3 - VEHICLE MAINTENANCE SHOP	214-20	SF	14,090	66.71	(940)
BUILT-IN EQUIP		LS			(236)
BUILDING 4 - APPLIED INSTRUCTION BLDG	171-20	SF	70,000	46.79	(3,275)
BUILT-IN EQUIP		LS			(239)
BUILDING 5 - TRAINING SHELTERS		SF	5,168	25.15	(130)
BUILT-IN EQUIP		LS			(0)
SUPPORTING FACILITIES		LS			6,415
SPECIAL FOUNDATION FEATURES (A)		LS			(248)
ELECTICAL UTITLITES (B)		LS			(177)
MECHANICAL UTILITIES (C)		LS			(686)
ROADS, PARKING, SIDEWALKS (D)		LS			(2,179)
SITE IMPROVEMENTS (E)		LS			(1,455)
DEMOLITION (F)		LS			(0)
MAINTENANCE SHOP SUPPORT (G)		LS			(304)
MONTIFORD POINT UTILITIES UPGRADE (H)		LS			(1,366)
SUBTOTAL					13,281
CONTINGENCIES (5%)					664
TOTAL CONTRACT COST					13,945
SUPERVISION, INSPECTION, OVERHEAD (5.5%)					767
TOTAL REQUEST					14,712
TOTAL REQUEST (ROUNDED)					14,710
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS (NON ADD)					0

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construction a permanent Driver Training Facility to include the following:

A. ACADEMIC INSTRUCTION BUILDING: with timber piles, pile caps, grade beams, concrete slab on grade, steel frame and roof structure, brick and concrete masonary walls, insulation and built up roof. Interior support systems, plumbing, HVAC, electrical communications, fire alarm, sprinklers.

DD FORM 1391

CERTIFIED READY FOR DESIGN

Wm. H. RUSSELL, P. E. CODE 09A2 — DATE 11-13-87

NOT REQ'D FOR CMC PROJECTS

T. C HORSCH, P.E. CODE 20 — DATE

file: 807LEJ91

1. COMPONENT	FY 1991	MILITARY CONSTRUCTION	2. DATE
NAVY		PROJECT DATA	30-Oct-87

3. INSTALLATION AND LOCATION
MCB CAMP LEJEUNE JACKSONVILLE, N.C.

4. PROJECT TITLE
DRIVER TRAINING SCHOOL

5. PROJECT NUMBER
P- 807

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED)

B. DISPATCH BUILDING: includes concrete foundation, brick and masonry walls, metal roof framing and built up roof. Interior support systems consists of plumbing, HVAC, electrical, communications, and fire alarm.

C. VEHICLE MAINTENANCE SHOP: contains timber piles, pile caps, concrete slabs on grade, steel frame and roof structure with high bay area, brick and concrete masonry walls, insulation and built up roof. Interior support systems include plumbing, HVAC, electrical, communications, fire alarm, sprinklers, compressed air, central lube system, hydraulic lifts, overhead bridge crane, and engine exhaust system.

D. APPLIED INSTRUCTION BUILDINGS (4): includes timber piles, pile caps, concrete slabs on grade, pre-engineered steel structure, insulated metal exterior walls, conrete masonry interior walls, and insulated metal roof. Interior support systems include plumbing, heating, ventilating, electrical, communications, fire alarm, sprinkler, and engine exhaust systems.

E. TRAINING SHELTER: contains timber piles, pile caps, concrete slab on grade, pre-engineered steel structure, and insulated metal roof. Shelter support systems include plumbing, electrical, and fire alarm systems.

SUPPORTING FACILITIES:

Supporting facilities include development of approximately 20 acres, utilities, water, forced main sanitary sewer, storm drainange, steam, electrical, and telephone. Size of facility will require up grading of utilities in certain areas, water, sanitary sewer, and steam. Support facilities will also include site surcharge under buildings, underground petroleum storage monitoring wells, oil seperators, hazardous and flamable storage, wash and repair racks, concrete and bituminous parking, drives and roads, fording pit, driving skills road test area, fencing and area lighting.

11. REQUIREMENTS:

PROJECT: Construct an Academic/Applied/Vehicle Maintenance Facililty as permanent facilities for the East Coast Consolidated Driver Training School.

REQUIREMENTS: Provde adquate facilities for training military personnel in the operation of various types of organizational vehicles along with first and second echelon maintenance. The East Coast Consolidated Driver Training School maintains over 400 pieces of rolling stock and employs approximately 110 instructors and 20 vehicle maintenance workers. The school provides academic instruction for 3,334 students annually in the following courses:

Motor Vehicle Operator's Course (MVOC)	249 hours
Automotive Orgainzational Maint. Course (AOMC) (Driver Training portion only)	118 hours
Tractor Trailer Operator Course (TTOC)	168.65 hours
Semi-Trailer Refueler Operator Course (SROC)	67 hours
Vehicle Recovery Course (VRC)	189 hours

1. COMPONENT	FY 1991	MILITARY CONSTRUCTION	2. DATE
NAVY		PROJECT DATA	30-Oct-87

3. INSTALLATION AND LOCATION
MCB CAMP LEJEUNE JACKSONVILLE, N.C.

4. PROJECT TITLE	5. PROJECT NUMBER
DRIVER TRAINING SCHOOL	P- 807

11. REQUIREMENTS: (CONTINUED)

The applied instruction section provides training of personnel on first and second echelon maintenance utilizing 100 vehicles at any given time.

CURRENT SITUATION: The MVOC is a new mission and no facilities exist in the Camp Johnson Area that can be utilized in support of this mission. Existing inadequate facilities in the Camp Geiger area will be utilized until new construction is completed.

IMPACT IF NOT PROVIDED: The training of Marine Corps personnel will continue in facilities which are not conducive to a good learning experience which will continue to impair the effectiveness of the training program and the Marine Corps mission.

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 807

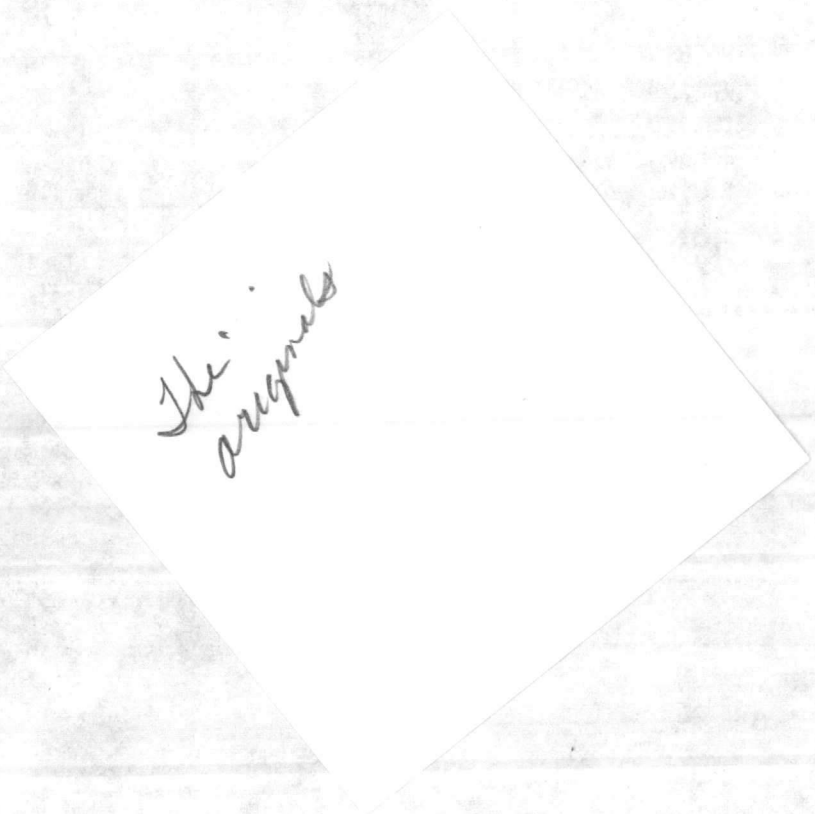
TITLE: DRIVER TRAINING SCHOOL — COST ESCALATED TO: APRIL 1991

LOCATION: MCB CAMP LEJEUNE JACKSONVILLE, N.C. — ACF: 0.84 — FER: N/A

PREPARED BY: R.C. DULIN — DATE: 29-Oct-87 — CONTINGENCY: 5%

BUILDING #: 1
BUILDING SIZE: 26,539 SF

		$/SF	$/SYS	SYS QUAN	(UM)	TOTAL	BUILDING	BUILT IN EQUIPMENT
041 OMSI		0.57	15000.00	1	EA	15,000	15,000	0
111 FOUNDATION		4.83	4.83	26,539	SF	128,000	128,000	0
112 SLAB ON GRADE		2.88	2.88	26,539	SF	76,000	76,000	0
113 STRUCTURAL		8.09	8.09	26,539	SF	215,000	215,000	0
141 ROOF SYSTEM		10.19	10.19	26,539	SF	270,000	270,000	0
142 EXTERIOR WALL SYSTEM		3.65	13.45	7,200	SF	97,000	97,000	0
143 INTERIOR WALL SYSTEM		4.31	4.87	23,500	SF	114,000	114,000	0
144 INTERIOR FINISHES		3.80	3.80	26,539	SF	101,000	101,000	0
145 DOORS AND WINDOWS		3.44	39.73	2,300	SF	91,000	91,000	0
147 SPECIALTIES		5.48	5.48	26,539	SF	145,000	145,000	0
211 PLUMBING		3.13	1660.00	50	FIX	83,000	83,000	0
213 ROOF DRAINS		1.05	1990.00	14	EA	28,000	28,000	0
221 HVAC		9.53	3161.00	80	TON	253,000	253,000	0
244 COMPRESSED AIR	1.00	1.51	800.00	50	CFM	40,000	0	40,000
271 SPRINKLERS	1.00	1.71	1.71	26,539	SF	45,000	0	45,000
275 FIRE ALARM SYSTEM	1.00	0.75	0.75	26,539	SF	20,000	0	20,000
311 POWER		5.99	530.00	300	KW	159,000	159,000	0
312 LIGHTING	1.00	3.73	3.73	26,539	SF	99,000	0	99,000
332 EMCS	1.00	0.45	12000.00	1	EA	12,000	0	12,000
341 TELEPHONE	1.00	0.44	0.44	26,539	SF	12,000	0	12,000
342 INTERCOM	1.00	0.43	0.43	26,539	SF	11,000	0	11,000
344 PUBLIC ANNOUNCEMENT		0.58	0.58	26,539	SF	15,000	15,000	0
SUBTOTAL BUILDING ONLY		76.54				2,029,000	1,790,000	239,000
CQM		0.00					0	0
OMSI		0.00					0	0
TOTAL BUILDING COST		76.54				2,029,000	1,790,000	239,000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BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 807

TITLE: DRIVER TRAINING SCHOOL — COST ESCALATED TO: APRIL 1991

LOCATION: MCB CAMP LEJEUNE JACKSONVILLE, N.C. — ACF: 0.84 — FER: N/A

PREPARED BY: R.C. DULIN — DATE: 29-Oct-87 — CONTINGENCY: 5%

BUILDING #: 1
BUILDING SIZE: 26,539 SF

	*	$/SF	$/SYS	SYS QUAN	(UM)	TOTAL	BUILDING	BUILT IN EQUIPMENT
041 OMSI		0.57	15000.00	1	EA	15,000	15,000	0
111 FOUNDATION		4.83	4.83	26,539	SF	128,000	128,000	0
112 SLAB ON GRADE		2.88	2.88	26,539	SF	76,000	76,000	0
113 STRUCTURAL		8.09	8.09	26,539	SF	215,000	215,000	0
141 ROOF SYSTEM		10.19	10.19	26,539	SF	270,000	270,000	0
142 EXTERIOR WALL SYSTEM		3.65	13.45	7,200	SF	97,000	97,000	0
143 INTERIOR WALL SYSTEM		4.31	4.87	23,500	SF	114,000	114,000	0
144 INTERIOR FINISHES		3.80	3.80	26,539	SF	101,000	101,000	0
145 DOORS AND WINDOWS		3.44	39.73	2,300	SF	91,000	91,000	0
147 SPECIALTIES		5.48	5.48	26,539	SF	145,000	145,000	0
211 PLUMBING		3.13	1660.00	50	FIX	83,000	83,000	0
213 ROOF DRAINS		1.05	1990.00	14	EA	28,000	28,000	0
221 HVAC		9.53	3161.00	80	TON	253,000	253,000	0
244 COMPRESSED AIR	1.00	1.51	800.00	50	CFM	40,000	0	40,000
271 SPRINKLERS	1.00	1.71	1.71	26,539	SF	45,000	0	45,000
275 FIRE ALARM SYSTEM	1.00	0.75	0.75	26,539	SF	20,000	0	20,000
311 POWER		5.99	530.00	300	KW	159,000	159,000	0
312 LIGHTING	1.00	3.73	3.73	26,539	SF	99,000	0	99,000
332 EMCS	1.00	0.45	12000.00	1	EA	12,000	0	12,000
341 TELEPHONE	1.00	0.44	0.44	26,539	SF	12,000	0	12,000
342 INTERCOM	1.00	0.43	0.43	26,539	SF	11,000	0	11,000
344 PUBLIC ANNOUNCEMENT		0.58	0.58	26,539	SF	15,000	15,000	0
SUBTOTAL BUILDING ONLY		76.54				2,029,000	1,790,000	239,000
CQM		0.00					0	0
OMSI		0.00					0	0
TOTAL BUILDING COST		76.54				2,029,000	1,790,000	239,000

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 807

TITLE: DRIVER TRAINING SCHOOL — COST ESCALATED TO: APRIL 1991

LOCATION: MCB CAMP LEJEUNE JACKSONVILLE, N.C. — ACF: 0.84 — FER: N/A

PREPARED BY: R.C. DULIN — DATE: 29-Oct-87 — CONTINGENCY: 5%

BUILDING #: 2

BUILDING SIZE: 225 SF	$/SF	$/SYS	SYS QUAN	(UM)	TOTAL	BUILDING	BUILT IN EQUIPMENT
119 DISPATCH BLDG	73.37	73.37	225	SF	17,000	17,000	0
SUBTOTAL BUILDING ONLY	73.37				17,000	17,000	0
CQM	0.00					0	0
OMSI	0.00					0	0
TOTAL BUILDING COST	73.37				17,000	17,000	0

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 807

TITLE: DRIVER TRAINING SCHOOL — COST ESCALATED TO: APRIL 1991

LOCATION: MCB CAMP LEJEUNE JACKSONVILLE, N.C. — ACF: 0.84 — FER: N/A

PREPARED BY: R.C. DULIN — DATE: 29-Oct-87 — CONTINGENCY: 5%

BUILDING #: 3
BUILDING SIZE: 14,090 SF

		$/SF	$/SYS	SYS QUAN	(UM)	TOTAL	BUILDING	BUILT IN EQUIPMENT
041 OMSI		0.50	7000.00	1	EA	7,000	7,000	0
111 FOUNDATION		6.54	6.54	14,090	SF	92,000	92,000	0
112 SLAB ON GRADE		2.61	2.61	14,090	SF	37,000	37,000	0
113 STRUCTURAL		9.40	9.40	14,090	SF	132,000	132,000	0
116 ROOF SYSTEM		12.02	12.02	14,090	SF	169,000	169,000	0
142 EXTERIOR WALL SYSTEM		6.67	11.12	8,450	SF	94,000	94,000	0
143 INTERIOR WALL SYSTEM		4.25	7.09	8,450	SF	60,000	60,000	0
144 INTERIOR FINISHES		2.13	2.13	14,090	SF	30,000	30,000	0
145 DOORS AND WINDOWS		5.40	22.70	3,350	SF	76,000	76,000	0
147 SPECIALTIES		1.22	1.22	14,090	SF	17,000	17,000	0
211 PLUMBING		4.62	1861.00	35	FIX	65,000	65,000	0
213 ROOF DRAINS		0.57	1000.00	8	EA	8,000	8,000	0
221 HVAC		7.10	5000.00	20	TON	100,000	100,000	0
224 MECHANICAL VENTILATION	1.00	2.68	2.68	14,090	SF	38,000	0	38,000
231 BRIDGE CRANES AND HOIST	1.00	2.34	16500.00	2	EA	33,000	0	33,000
234 VEHCLE LIFTS	1.00	2.41	17000.00	2	EA	34,000	0	34,000
244 COMPRESSED AIR	1.00	1.71	536.00	45	CFM	24,000	0	24,000
252 EXHAUST SYSTEM	1.00	0.68	2.01	4,800	CFM	10,000	0	10,000
253 LUB EQUIPMENT	1.00	3.42	3.42	14,090	SF	48,000	0	48,000
271 SPRINKLERS	1.00	2.00	2.00	14,090	SF	28,000	0	28,000
275 FIRE ALARM SYSTEM	1.00	0.25	0.25	14,090	SF	4,000	0	4,000
311 POWER		2.29	215.00	150	KW	32,000	32,000	0
312 LIGHTING		1.35	1.35	14,090	SF	19,000	19,000	0
332 EMCS	1.00	0.71	10000.00	1	EA	10,000	0	10,000
341 TELEPHONE	1.00	0.25	0.25	14,090	SF	4,000	0	4,000
342 INTERCOM	1.00	0.23	0.23	14,090	SF	3,000	0	3,000
344 PUBLIC ADDRESS SYSTEM		0.12	0.12	14,090	SF	2,000	2,000	0
SUBTOTAL BUILDING ONLY		83.47				1,176,000	940,000	236,000
CQM		0.00					0	0
OMSI		0.00					0	0
TOTAL BUILDING COST		83.47				1,176,000	940,000	236,000

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 807

TITLE: DRIVER TRAINING SCHOOL — COST ESCALATED TO: APRIL 1991

LOCATION: MCB CAMP LEJEUNE JACKSONVILLE, N.C. — ACF: 0.84 — FER: N/A

PREPARED BY: R.C. DULIN — DATE: 29-Oct-87 — CONTINGENCY: 5%

BUILDING #: 4

BUILDING SIZE: 70,000 SF	*	$/SF	$/SYS	SYS QUAN	(UM)	TOTAL	BUILDING	BUILT IN EQUIPMENT
041 OMSI		0.39	27000.00	1	EA	27,000	27,000	0
111 FOUNDATION		7.27	7.27	70,000	SF	509,000	509,000	0
112 SLAB ON GRADE		3.97	3.97	70,000	SF	278,000	278,000	0
117 PRE ENGINEERED BUILDING		17.81	17.81	70,000	SF	1,247,000	1,247,000	0
143 INTERIOR WALL SYSTEM		0.29	4.88	4,200	SF	20,000	20,000	0
144 INTERIOR FINISHES		1.98	1.98	70,000	SF	139,000	139,000	0
145 DOORS AND WINDOWS		3.59	3.59	70,000	SF	252,000	252,000	0
147 SPECIALTIES		0.78	0.78	70,000	SF	55,000	55,000	0
211 PLUMBING		0.56	1639.00	24	FIX	39,000	39,000	0
221 HVAC		5.00	5.00	70,000	SF	350,000	350,000	0
252 EXHAUST SYSTEM	1.00	0.86	1.50	40,000	SF	60,000	0	60,000
271 SPRINKLERS	1.00	1.25	1.25	70,000	SF	88,000	0	88,000
275 FIRE ALARM SYSTEM	1.00	0.38	0.38	70,000	SF	27,000	0	27,000
311 POWER		1.14	106.50	750	KW	80,000	80,000	0
312 LIGHTING		3.87	3.87	70,000	SF	271,000	271,000	0
332 ECMS	1.00	0.40	0.40	70,000	SF	28,000	0	28,000
341 TELEPHONE	1.00	0.25	0.25	70,000	SF	18,000	0	18,000
342 INTERCOM	1.00	0.26	0.26	70,000	SF	18,000	0	18,000
344 PUBLIC ADDRESS SYSTEM		0.11	0.11	70,000	SF	8,000	8,000	0
SUBTOTAL BUILDING ONLY		50.16				3,514,000	3,275,000	239,000
CQM		0.00					0	0
OMSI		0.00					0	0
TOTAL BUILDING COST		50.16				3,514,000	3,275,000	239,000

BUILDING BUDGET ESTIMATE SUMMARY SHEET FOR P- 807

TITLE: DRIVER TRAINING SCHOOL — COST ESCALATED TO: APRIL 1991

LOCATION: MCB CAMP LEJEUNE JACKSONVILLE, N.C. — ACF: 0.84 — FER: N/A

PREPARED BY: R.C. DULIN — DATE: 29-Oct-87 — CONTINGENCY: 5%

BUILDING #: 5

BUILDING SIZE: 5,168 SF	$/SF	$/SYS	SYS QUAN	(UM)	TOTAL	BUILDING	BUILT IN EQUIPMENT
041 OMSI	0.00				0	0	0
111 FOUNDATION	5.42	66.04	424	LF	28,000	28,000	0
112 SLAB ON GRADE	3.97	3.97	5,168	SF	21,000	21,000	0
117 PRE ENG. METAL SHELTER	14.14	14.14	5,168	SF	73,000	73,000	0
312 LIGHTING	1.55	1.55	5,168	SF	8,000	8,000	0
SUBTOTAL BUILDING ONLY	25.08				130,000	130,000	0
CQM	0.00					0	0
OMSI	0.00					0	0
TOTAL BUILDING COST	25.08				130,000	130,000	0

11010
PWO
4 Jun 87

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commandant of the Marine Corps (LFL/MAJ Tiberg)
Via: (1) Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA 23511-6287 (Attn: 09A2131/Code 407)
(2) Commander, Naval Facilities Engineering Command, 200 Stovall Street, Alexandria, VA 22332

Subj: FY 91 MILITARY CONSTRUCTION (MCON) PROJECT P-807 DRIVER TRAINING SCHOOL, MARINE CORPS BASE, CAMP LEJEUNE

Ref: (a) My ltr 11000 PWO dtd 12 May 87
(b) PHONCON btwn MAJ Tiberg (CMC) and Mr. W. L. Brant (MCB, CamLej) of 27 Aug 87

Encl: (1) FY-91 MCON Project P-807, Driver Training School documentation consisting of revised DD Form 1391 dtd 27 Aug 87, Facility Study with NAVFAC 11013 Cost Estimate, Facilities Planning Documentation and approved NAVMC Form 11069 Request for Site Approval with Site Location Map

1. The subject project was submitted as enclosure (4) to reference (a). During reference (b), it was brought to Headquarter's attention that FY-91 MCON Project P-893 (BEQ's for Camp Johnson) was not programmed at the Headquarters level and the utility improvements that were a part of P-893 should be a part of FY-91 MCON Project P-807 (Driver Training School). In accordance with reference (b) the enclosure is provided.

2. The subject project estimated cost has increased from $9.000K to $10.200K

3. The Atlantic Division, Naval Facilities Engineering Command is requested to certify the cost of the subject project as shown by enclosure (1) to the Commander, Naval Facilities Engineering Command with copies to CMC and this Command.

4. Point of Contact for this Command is Mr. W. L. Brant on AV 484-1833 or commercial (919) 451-1833.

B.W. ELSTON
By direction

Copy to:
CMC (LFL) (advance)
NAVFACENGCOM (advance)

Blind copy to:
FAC
CO, MCSSS

Author: K. Foskey
Typist: M. Thompson
9-3-87, 1833

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		27 Aug 87

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NC 28542	DRIVER TRAINING SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-10	P-807	10,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DRIVER TRAINING FACILITY	SF	116,022	-	5,629
Academic Instruction Bldg.	SF	26,539	64.00	(1,698)
Applied Instruction Bldg.	-	-	-	-
Pre-Engineered Bldg 4 @ 70x250	SF	70,000	32.50	(2,275)
Covered Shelters 2 @ 38x68	SF	5,168	22.50	(116)
Vehicle Maintenance Shop	SF	14,090	61.00	(860)
Dispatch Bldg.	SF	225	64.00	(14)
Built-In Equipment	-	-	-	(666)
SUPPORTING FACILITIES	-	-	-	3,590
Special Construction Features	LS	-	-	(100)
Utility connections	LS	-	-	(546)
Misc. Utility Improvements	LS	-	-	(1,046)
Comm and Fire Alarm System	LS	-	-	(58)
Pavement	LS	-	-	(1,274)
Wash Aprons	LS	-	-	(225)
Site Improvements	LS	-	-	(100)
Misc Structures (drive-up ramp,	-	-	-	-
Fording pit, fuel pumps, etc.)	LS	-	-	241
SUBTOTAL	-	-	-	9,219
CONTINGENCY 5%	-	-	-	461
TOTAL CONTRACT COST	-	-	-	9,680
SIOH 5.5%	-	-	-	532
TOTAL REQUEST				10,212
TOTAL REQUEST ROUNDED				10,200
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				-0-

10. Description of Proposed Construction:

Construct a permanent masonry academic instruction building consisting of reinforced concrete foundation and floors, structural steel framing, masonry walls, built-up roof and insulation with steel joist and interior support systems (i.e.: HVAC system, communication and fire alarm systems, etc.) Construct a vehicle maintenance shop with high bays of structural steel framing and reinforced concrete foundation and floors with masonry walls, and built-up roof and insulation. Interior support systems (HVAC, communications and fire alarm system, compressed air, central lube system, hydraulic lifts, overhead bridge crane, engine exhaust system etc.) storage for POL, hazardous, and flammable storage. Provide and erect four 70'x250' pre-engineered buildings for applied instruction to include reinforced concrete foundation

1. COMPONENT	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		27 Aug 87

3. INSTALLATION AND LOCATION
MARINE CORPS BASE, CAMP LJEEUNE, NC 28542

4. PROJECT TITLE	5. PROJECT NUMBER
DRIVER TRAINING SCHOOL	P-807

10. Description of Proposed Construction:

and floors, structural steel framing, metal walls and roof systems with steel joist and engine exhaust systems. Exterior support systems for the Driver Training Facility include, wash aprons with pollution control, 2-38'x68' shelters with concrete floors, fencing and lighting, pavement, site improvements, fording pit, interior and exterior utility connections. Provide miscellaneous improvements to steam, water, sewer and electrical utilities.

11. REQUIREMENTS:

PROJECT: Construct an Academic/Applied/Vehicle Maintenance Facility as permanent facilities for the East Coast Consolidated Driver Training School.

REQUIREMENT: Provide adequate facilities for training military personnel in the operation of various types of organizational vehicles along with first and second echelon maintenance. The East Coast Consolidated Driver Training School maintains over 400 pieces of rolling stock and employs approximately 110 instructions and 20 vehicle maintenance workers. The school provides academic instruction for 3,334 students annually in the following courses:

Motor Vehicle Operator's Course (MVOC)	249 Hours
Automotive Organizational Maint.Course (AOMC) (Driver Training portion only)	118 Hours
Tractor Trailer Operator Course (TTOC)	168.65 Hours
Semi-Trailer Refueler Operator Course (SROC)	67 Hours
Vehicle Recovery Course (VRC)	189 Hours

The applied instruction section provides training of personnel on first and second echelon maintenance utilizing 100 vehicles at any given time.

CURRENT SITUATION: The MVOC is a new mission and no facilities exist in the Camp Johnson Area that can be utilized in support of this mission. Existing inadequate facilities in the Camp Geiger area will be utilized until new construction is completed.

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IMPACT IF NOT PROVIDED: The training of Marine Corps personnel will continue in facilities which are not conducive to a good learning experience which will continue to impair the effectiveness of the training program.

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SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement and Control: This project will not cause additional air or water pollution.

2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.

3. Environmental Impact: The project Environmental Impact Assesssment will be reviewed, and where required, the design concepts given consideration to eliminating adverse enviroinmental effects consistent with applicable directives.

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

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

6. Use of Air conditioning: Ceiling "U" factors will be made to conform with DOD 4270.1-11.

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.

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FACILITY STUDY

1. Project: Provide 116,Ø22 SF of Applied/Academic/Vehicle Maintenance Shopo Facilities for the East Coast Consolidated Driver Training School at Camp Johnson.

2. Current and Planned Future Workload with Regard to this Project: The percentage of usage for this facility is 1ØØ% of the time, and the duration of need is indefinite. It can only be anticipated that the future workload will increase as the East Coast Consolidated Driver Training School is established.

3. Description of Proposed Construction:

a. Type of Construction:

(1) Construct a permanent masonry academic instruction facility of reinforced concrete foundation and floors, structural steel framing, masonry walls, built up roof and insulation, steel joist, and interior support systems (i.e.: HVAC system, communication and fire alarm systems, etc.) Construct a vehicle maintenance shop with high bays of structural steel framing and reinforced concrete foundation and floors with masonry wallls and bult-up roof and insulation. Interior support systems(i.e.: HVAC, communication and fire alarm system, compressed air, central lube system, hydraulic vehicle lifts, overhead bridge crane, engine exhaust systems, etc.) storage for POL, hazardous and flammable storage.

(2) Provide and erect four 7Ø'x25Ø' pre-engineered buildings for applied instruction to include reinforced concrete foundation and floors, structural steel framing, metal walls and roof systems with steel joist and engine exhaust systems.

(3) Exterior support systems for the Driver Training Facility includes wash aprons with pollution control, 2-38'x68' shelter s with concrete floors, fencing and lighting, pavement site improvements, fording pit, interior and exterior utility connections, driver maneuver skills road test. Provide miscellaneous improvements to steam, water, sewer and electrical utilities.

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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: Permanent reinforced concrete/steel/masonry academic instruction building with built-up roof and insulation, HVAC. A reinforced concrete/steel/masonry vehicle maintenance shop with high bays built-up roof and insulation, engine exhaust systems, hydraulic vehicle lifts, central lube systems, compressed air, overhead bridge crane, HVAC. Provide and erect four pre-engineered buildings 70'x250' for applied instruction with metal walls and roof systems, engine exhaust systems, reinforced concrete foundation and floors. 2-38'x68' shelters with concrete floors and metal roof systems; other supporting facilities include, driver maneuver skills road test, wash aprons with pollution control, fencing and lighting, pavements, site improvements, fording pit interior and exterior utility connections, and utility improvements to water, steam, sewer and electrical.

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

(3) Collateral Equipment: See Enclosure (1).

(4) Supporting Facilities: Special piling, foundation collateral equipment, site improvements, and pollution abatement utility connections.

4. Cost Estimate: Area cost factor for Camp Lejeune, NC is 0.86, cost data derived from the Military Construction Cost Review Guide, FY-84 (DOD 4270.1-CG), and escalated to FY-91. See enclosure (2).

5. Justification for Project and for Scope of Project:

(1) Project: Project is required to provide adequate applied and academic instructional facilities for the East Coast Consolidated Driver Training School (Motor Transport

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School). Proposed complex will include total facilities in support of the MVOC; i.e., applied/academic facilities; administrative space, and supply requirements. The number of students to receive training per year at this facility will be approximately 3,334 persons. Two branches of the U. S. Marine Corps Motor Transport School is to exist, one will be located here at Marine Corps Base, Camp Lejeune and the other at Camp Pendleton, California.

(2) Current Situation: The Motor Vehicle Operators Course (MVOC) is a new mission and no facilities exist in the Camp Johnson area that can be utilized in support of this mission. Existing inadequate facilities in the Camp Geiger area will be utilized until new construction is completed.

(3) Impact if not Provided: Operation of the MVOC in inadequate facilities will result in impaired teaching capabilities.

b. Justification for Scope of Project: The project scope (116,022 SF) is the minimum size facility that can meet the schedule of classes for the Motor Transport School needs. The indicated scope was taken from the "Outline of Instruction Motor Transport Formal Courses prepared for Fiscal Year 1987, by the Marine Corps Service Support Schools (MCSSS), Marine Corps Base, Camp Lejeune, and the Schedule of Classes for Fiscal Year 1987 (first revision). See Item 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: This project will require increased O&MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. Proposed construction will be responsive to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977, and implemented by NAVFACINST 4100.5A.

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9. Siting of the Project: The project will be located in the Camp Johnson area of Camp Lejeune. See enclosure (2).

10. Other Graphic Presentations, including Photographs: See Facility Planning Document, enclosure (3).

11. Economic Analysis: This facility is being constructed on an undeveloped site in the Camp Johnson area. Economic savings will be in nominal energy consumption 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:

Facilities Square Footage

I. Classroom Spaces:

a. General Academic (Cat Code 171-10) In accordance with NAVFAC P-80:

Classroom Space Requirement Computation

Course	Duration in days (DD)	Annual % (AF)	Pupils p/Class (S)	Annual Input (AI)	Student AOB*	NSF/SF Student (NSF)	Reqmt Net Area**
MVOC	34	29	50	1450	198	19.5	5791.5
AOMC	15	38	40	1520	92	20.0	2760.0
TTOC	24	7	30	210	21	21.0	661.5
VAC	26	3	30	90	10	21.0	315.0

*Student Avg on Bd (AOB) = $\frac{\text{Duration (DD) x Annual Input (AI)}}{\text{250 (Classroom Days Per Year)}}$

**Required NSF Area = AOB x NSF x 1.5

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Round all fractions to the next highest whole number
School year = 250 class days

NSF = Select proper SF/student from Table 171-A according to type of installation
CDP = Course Data Processing Code
AF = Number of times course is taught per year
AI = Number of students trained annually AI = (AF) x (S)

1.5 = A utilization factor required to compensate for the inability to completely schedule classes and fully use class-room capacity.

Number of Classrooms Required:

MVOC 4; 50 PN classes @ 1447.87 NSF	=	5,791.5	NSF
AOMC 3; 40 PN classes @ 920 NSF	=	2,760.0	NSF
TTOC 1; 30 PN class @ 661.5 SF	=	661.5	NSF
VRC 1; 30 PN class @ 315.0 SF	=	315.0	NSF
Total: 9 Classrooms	=	9,528.0	NSF

b. Modified Academic space (Cat Code 171-10):

Defensive Drivers Course & Licensing Class

50 Students @ 30 NSF = 1,500 NSF

c. Hands-On Mock Up Spaces (Cat Code 171-20):

In accordance with NAVFAC P-80:

Planning Formula for Determining Floor Requirements for Hands-on Mock-up space.

Formula: A = B (CD + E)

Definitions:

A = Area of classroom in net SF.

B = Number of items of practice equipment required. This figure is obtained by dividing C into the average number of students in each class session.

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C = Number of students assigned to each item of practice equipment.

D = Net SF of floor area required for one student working on an item of practice equipment.

E = Net SF of floor area occupied by one item of practice equipment. Includes clearances and aisles. Human engineering factors, including safety, must be considered. In cases where student working areas (Item D) partially overlap equipment clearance areas, insure that the space requirements are not duplicated.

(1) Motor Vehicle Operators Course:

A = 25 [(2 x Ø) + *7ØØ]
A = 17,5ØØ NSF Typical for 1 class.

17,5ØØ x 4 classes = 7Ø,ØØØ NSF Total Required.

*This figure includes student working area, equipment clearance area, aisles and safety factor.

(2) Tractor Trailer Course & Vehicle Recovery Course:

A = [(3Ø x Ø) + *2,584]
A = 2,584 NSF

(3) Semi-Trailer Refueler Operators Course:

A = [(3Ø x Ø) + *2,584]
A = 2,584 NSF

(4) Tire Repair Shop/Class:

A = [(2 x 2Ø) + 35]
A = 1,875 NSF

*This figure includes student working area, equipment clearance area, aisles and safety factor.

Total Hands-On Mock-Up space: 77,043 NSF

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II. Support Spaces:

a. Instructor's Work Space

12 Instructors @ 60 NSF = 720 NSF

b. Instructors Lounge:

450 NSF Fixed Allowance

c. Student Break Area:

Maximum number of students to break at a given time = 100 PN.
100 PN x 6 NSF = 600 NSF

d. Library:

(1) Reading Area

12 PN (Instructors @ 25 NSF) = 300 NSF

(2) Stack Area

(700 Volumes ÷ 100) x 6.6 NSF = 46 NSF

(3) Film/Video Tape Storage

(100 reels ÷ 50) x 9 NSF = 18 NSF

(4) Fiilm/Video Tape Viewing Room

100 NSF fixed allowances

(5) Staff Area: This library will be for Instructor's therefore no additional space is required.

Total Library space: 464 NSF

e. Administrative Space: (Cat Code 610-10):

Officer in Charge.....100 NSF
Assistant Officer in Charge.....100 NSF
License Officer.....100 NSF
Clerical Positions = 2 @ 60 NSF.....120 NSF
Conference Room (15 PN).....375 NSF
File Area = 25 Legal @ 7 NSF.....175 NSF

Total Administrative Space.....970 NSF

f. Training Aid Storage:
380 Students x 1.5 NSF .....570 NSF

g. Other Support Spaces:

(1) Tool Rooms: One tool room required to support each Motor Vehicle Operators Course Class (4 total).

4 Tool Rooms @ 216 NSF = 864 NSF

(2) Storage (OVE):

Storage space is required to store all vehicle organic equipment for the Driver's Training School. The School's table of equipment indicates over 400 pieces of rolling stock assigned.

The school has indicated a requirement of 3,200 NSF.

(3) Dispatch Office: (171-20)

15'x 15' = 225 NSF

(4) Classified Storage: A classified storage area is required for storing student personnel records.

12' x 12' = 133 NSF

Total Support Space = 4,433 NSF

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III. Circulation and Service Areas:

(1) Classroom Space:

a.	General Academic	9,528 NSF
b.	Modified Academic	1,500 NSF
c.	Hands-On Mockup	*77,043 NSF
	Total Class Space:	95,460 NSF

(2) Support Spaces:

a.	Instructor's Work Space	720 NSF
b.	Instructor's Lounge	450 NSF
c.	Studen Break Area	600 NSF
d.	Library	464 NSF
e.	Administrative Space	970 NSF
f.	Training Aid Storage	570 NSF
g.	Other Support Spaces	4,433 NSF
		8,207 NSF

(9,528 NSF + 1,500 NSF + 8,207 NSF) 1.33 = 25,583 SF

*Hands-On Mock-up class space was not used in this calculation since circulation and service areas had already been considered.

Total Requirement: 77,043 + 25,583 = 102,626 SF

IV. Automotive Vehicle Maintenance Shop (Cat Code 214-20):

In accordance with NAVFAC P-80:

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MT School Company T/E

Motor Transport Class VII

Nomenclature	TAMCN	Eqpt Cost Code	T/E Allow	Prod. Space Factor	Rpr Bay Reqmt
Steam Cleaner, TRLR MTR4D	D0090	0800	5	.016	.080
Lubrication and Servicing Unit	D0910	0800	3	.016	.048
Semitrailer, Refueler M970	DO215	0300	4	.023	.092
*LVS Front Unit MK48	DO209	0300	20	.023	.460*
Semitrailer XM1000	DO225	0800	1	.016	.016
Semitrailer, Stake M127	DO260	0800	12	.016	.192
Trailer, Cargo 1/4 Ton, M416	DO480	0800	26	.016	.416
Trailer, Cargo, 1-1/2 Ton, M105	DO860	0800	25	.016	.400
Trailer, Tank, Water 1-1/2 Ton M149	DO880	0800	2	.016	.032
Container Hauler, MK14 (LVS)	DO876	0800	6	.016	.096
Wrecker, MK15 (LVS)	DO877	0300	4	.023	.092
Fifth Wheel, MK16 (LVS	DO878	0300	4	.023	.092
Dropside Crane, MK17 (LVS)	DO879	1100	6	.020	.120
Truck, Ambulance M718	DO890	0102	1	.015	.015
Truck, Ambulance M1035 (HMMWV)	D100Z	0102	1	.015	.015
Truck, cargo, 1 1/4 Ton, M10087 (CUCV)	D1016	0300	23	.023	.529
Truck, Cargo, 5T, 6x6, M923/M925/ M813/M810	D1059	0300	128	.023	2.944
Truck, Shelter Carrier, M1028 (HMMWV)	D1105	0300	2	.023	.046
Truck, Tank, Fuel Servicing M49	D110	0300	4	.023	.092
Truck, Tractor, 5T, 6x6, M931	D1134	0300	14	.023	.280
Truck, Utility, Cargo M998 (HMMWV)	D1158	0300	92	.023	2.116
Truck, Utility, Cargo, M151	D1160	0300	61	.023	1.403
Truck, Wrecker, M543	D121D	0300	1	.023	.023
Truck, Wrecker, M936	D1212	0300	2	.023	.046
			447		9.188

Total number of Repair Bays (rounded) = 10

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In order for repair bays to be functional for all variations of the indicated vehicles and equipment, a 16'x35' (typical) bay is required.

10 bays x 560 SF = 5,600 SF

*Repair space for support of the LVS (MK-48) was not included. A separate drive-thru repair bay of 1,120 SF (16' x 70') is required.

Total Vehicle Maintenance Shop Requirement:

10 Repair Bays (16' x 35')	= 5,600 SF
1 Drive Thru (LVS) (16'x70')	= 1,120 SF
Administrative and Indirect Support (From table 214-20D for 10 bays)	= 3,100 SF
Direct Support (From table 214-20D for 10 bays)	= 4,270 SF
	14,090 SF

Summary:

Facilities:

Academic Instruction Bldg (171-10)	24,664 SF
Applied Instruction Facilities (171-20)	77,043 SF
Dispatch Bldg. (171-20)	225 SF
Vehicle Maintenance Shop (214-20)	14,090 SF
Total Requirement	116,022 SF

14. Maintenance Facilities: Not appliable.

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

16. Relocation Facilities: Not applicable.

17. Storage Facilities: Not applicable.

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18. Hazard Identification, Assessments 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

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

DATE 29 Jul 87

1. ACTIVITY (Name and Location)
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2. PROJECT TITLE
DRIVER TRAINING FACILITY FY 91

P. NO. P-807

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:	*Compressed Air System		Sys		
	*Sprinkler System		Sys		
	*Telephone, Intercom and Fire Alarm		Sys		
	*Ceiling Mounts for ITV Monitors		Sys		
	*Instructor Platforms for 6 Lecture Type classrooms (raised)		Ea		
	*Public Address Sys in the 4 Driver Training Shelters and Maintenance Shop		Sys		
	*Deep sinks/Lavatories throughout facility		Ea		
	*Exhaust Gas Removal System for all vehicles Trng Bays and Shop Maintenance Bays		Ea		
	*Tier arrangement for seating in 6 classrooms		Sys		
	*Chalkboards, wall mounted		Ea		
	*Deluge Shower and Eye Wash CW (for battery shop)		Ea		
	*Steam cleaning System for Maintenance Shop Wash rack w/50' hose		Sys		
	*High pressure water system for cleaning vehicles at all wash racks w/high pressure hose		Sys		
	*External Storage for Lubricants, hazardous material and paint		Ea		
	*Overhead Crane (for LVS)		Ea		

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COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	*Lift, floor hydraulic	Ea			
1. Built-In Equipment to be MCON Funded: (cont'd)	*Overhead Lube and Air Sys. for Maintenance Shop		Sys		
	*Overhead Drop Light, HD for Maintenance Shop Bays		Ea		
	*Drainage system for Vehicles Lubricants, in floor for Maint Shop		Sys		
	*Ventilation System (for battery room)				
	*Issue window for all tool rooms and dispatch office		Ea		
	*Hand wash, Round w/foot control (for maint. shop)		Ea		
	*Lockers (small) and showers in lavatories of Maint Fac.		Ea		
	*Bins for handout material 11"x12"x6" (20 classrooms) (fabricate)		Ea		
	*Front wall of classroom 1 & 2 should have a smooth dry white surface to be used as projection screen		Ea		
Equipment with associated installation cost.					
2. Expense Items:					
4910-00-543-7772	Work bench	38	ea	204.13	7,757
7240-00-160-0440	Can, trash garbage	57	ea	16.70	952
6645-00-530-3342	Clock, wall electric	25	ea	8.55	214
5120-00-293-1439	Vice, machinist's bench	11	ea	58.00	638
3415-00-517-7754	Grinder, bench mounted	3	ea	80.12	240
4940-00-449-6689	Parts cleaner-degreaser	4	ea	441.00	1,764

COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)
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1. ACTIVITY (Base and Location)
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2. PROJECT TITLE
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COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
3920-01-113-0117	Truck, hand, 2 wheeled	1	ea	85.19	85
7125-00-285-2420	Cabinet, storage	8	ea	136.58	1,093
7125-00-269-8534	Cabinet, storage	4	ea	139.93	560
7110-00-740-8931	Desk, single ped	21	ea	262.00	5,502
7110-00-082-6226	Chair, straight w/o arms	228	ea	31.81	7,253
7110-00-143-0821	Office table, 45"x34"	1	ea	164.00	164
7110-00-286-3798	Cabinet, file, 5 dwr	14	ea	135.51	1,897
7520-00-285-5416	Waste paper basket	26	ea	2.40	62
7520-00-292-9421	File, horizontal, desk	29	ea	13.97	405
7195-00-912-9445	Bulletin Board (small)	4	ea	10.12	41
7195-01-099-3444	Bulletin Board (large)	2	ea	361.25	723
7110-00-601-9822	Bookcase 32x13	20	ea	82.92	1,658
7110-00-177-4902	Office table 60"x30"	156	ea	125.00	19,500
7125-00-297-3795	Rack, storage, drum	4	ea	508.17	2,033
4110-99-001-0984	Refrigerator	1	ea	329.00	329
7110-00-132-6554	Desk, typist	3	ea	173.00	519
7110-00-089-6791	Chair, rotary w/arms	24	ea	63.03	1,513
4910-00-190-5235	Tire tube leak detector (tank testing tire & tube) S/S B-14	2	ea	849.00	1,698
7430-00-461-9536	Typewriter, electric	4	ea	405.00	1,620
7420-00-989-1605	Adding Machine, electric	3	ea	151.20	454
7520-00-162-6178	Sharpener, pencil	11	ea	3.45	38
6230-00-299-7771	Desk, lamp	21	ea	53.00	1,113
7195-00-262-6647	Coat rack	10	ea	21.45	215
7110-01-192-6173	Desk, computer	1	ea	430.00	430

COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)
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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)					
7110-00-958-8044	Chair, rotary w/o arms	4	ea	57.72	231
7110-00-177-4901	Office, table 36"x24"	11	ea	90.00	990
7110-00-758-6146	Desk, double pedestal	4	ea	411.00	1,644
7110-01-157-8296	Couch, lounge	4	ea	330.00	1,320
6230-01-C00-0001	Lamp, table	4	ea	37.80	151
7125-00-297-3393	Rack, Tire storage	4	ea	40.00	160
7240-00-256-7700	Waste Can, flammable mat'l	5	ea	19.00	95
7125-01-C00-3832	Cabinet, flammable storage	2	ea	454.80	910
5120-00-234-1372	Vise, bench (small)	26	ea	9.00	234
4910-00-204-2448	Safety cage, tire repair (for 1400 x 20 tire)	25	ea	898.06	22,452
7195-00-C00-0049	Lecturn w/wheels	12	ea	95.00	1,140
4910-00-675-1478	Mounter/demounter (tire machine auto changer) pneumatic tire, floor mounted, power capacity range 7-1 through 14-24, motor elect. 2HP capacitor type 60HZ, 230V, 12.6 amp requires 30 amp circuit breaker. Installation Installation req'd 11'dia. working space. Non-definitive spec/std data type 3, RN difference capacity differ-entiated by tire, type and size range, Part #931A	1	ea	3164.00	3,164
4210-00-720-1815 S9C	Fire Extinguisher, fire 2-1/2 gal, water, s/s w/hanging bracket	12	ea	29.08	349
4210-01-202-7858	Extinguisher, fire, 15 lb cap. CO2, carbon monoxide, hand operated w/hanging bracket	10	ea	91.98	920

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

DATE JUL 2 9 1987

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

2. PROJECT TITLE
DRIVER TRAINING FACILITY

P. NO. P-807

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)					
Brodhead-Garrett Co.	Shelving, closed 8 shelves per unit #461260 36x24x85 (102)	8	ea	267.00	2,136
	Add on units for above #461282 (C102A)	60	ea	245.00	14,700
McMaster-Carr POB 440 New Brunswick, NJ 08903	Charger, multiple charging station, 10 charging circuits can handle up to 10-12V or 20-6V batteries at once or any combination of sizes for charges up to 50 Amps. #7047K5, pg 1284, cat 90	2	ea	416.44	833
	Charging Stand #7239K1	2	ea	124.08	248
	Charging lead set (24" #10 leads) pg 1284, cat 90	20	ea	12.17	243
	Steel Shelving, industrial #4586T16, closed shelf unit	50	ea	112.69	5,635
	Shelf quick clips	100	ea	.22	22
OP	Draperies & hardware	8	ea	90.00	720
	Total Expense Items:				118,767

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

DATE 29 Jul 87

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

P. NO P-807

PROJECT TITLE
DRIVER TRAINING FACILITY

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
. APA Equipment:	Not Applicable.				
. Training Eqpt:					
6730-LL-323-0232	Projector, 35mm slide	7	ea	145.00	1,015
6730-LL-C00-3889	Projector, Overhead	7	ea	263.00	1,841
5820-01-C00-1049	Player, videocasestte	7	ea	996.00	6,972
5820-01-C00-1058	Monitor, ITV (ceiling mtd)	13	ea	475.00	5,395
6730-01-C00-1098	Projector Stand	7	ea	109.00	763
6730-01-C00-1400	Projector Stand	7	ea	165.00	1,155
6760-00-514-2384	Projector Stand	14	ea	108.00	1,512
	Total				19,433

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 27 Aug 87

SHEET 1 OF 4

ACTIVITY AND LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: P-807

ESTIMATED BY: W. L. BRANT

CATEGORY CODE NUMBER: 171-10

PROJECT TITLE: DRIVER TRAINING SCHOOL

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (Specify) Project

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
FACILITIES:								
ACADEMIC INSTRUCTION BUILDING	26,539	SF					64.00	1,698,500
APPLIED INSTRUCTION FACILITIES:								
PRE-ENGINEERED BLDG (4/70'X250')	70,000	SF					32.50	2,275,000
COVERED SHELTERS (2/38'X68')	5,168	SF					22.50	116,280
VEHICLE MAINTENANCE SHOP	14,090	SF					61.00	859,490
DISPATCH BLDG. (15'X15')	225	SF					64.00	14,400
BUILT-IN EQUIPMENT:								
HVAC SYSTEM	1	LS						280,000
ENGINE EXHAUST SYSTEMS	76,720	SF					2.90	222,488
HYDRAULIC VEH LIFTS (34,000 lb)	2	EA					17,000	34,000
BRIDGE CRANE	10	TN					4,000	40,000
COMPRESSED AIR SYSTEM	8,595	SF					1.35	11,600
CENTRAL LUBE SYSTEM	8,595	SF					2.10	18,050
PUBLIC ADDRESS SYSTEM	1	LF					10,000	10,000
WASTE OIL SYSTEM (UNDERGROUND)	1	LF					50,000	50,000
FIRE ALARM & COMM	38,715	SF					1.50	58,073
OMSI	1	LS						48,000

ENCL (2)

☆ U.S. Government Printing Office 1983—606-106/6811 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

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ACTIVITY AND LOCATION: MARINE CORPS BASE
CAMP LEJEUNE, NC 28542

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JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
SUPPORTING FACILITIES:								
SPECIAL CONSTRUCTION FEATURES	1	LS						100,000
SITE IMPROVEMENTS & CLEARING	25	AC						100,000
WASH APRONS (20/20'x40')	30	EA						225,000
(10/20'x60')	-	-						-
STORAGE: POL, HAZARDOUS WASTE	800	SF					32.50	26,000
FLAMMABLE, PAINT, ETC.	-	-						-
DRIVE ON RAMP	1	EA					10,000	10,000
UNDERGROUND FUEL STORAGE (DIESEL)	10,000	GA					4.50	45,000
UNDERGROUND FUEL STORAGE (GAS)	2,000	GA					4.50	9,000
FUEL PUMPS; TWIN OUTLET	5	EA					5,000	25,000
PAVEMENT: REINFORCED CONCRETE	2,000	SY					31.00	62,000
PAVEMENT: BITUMINOUS PAVEMENT	51,312	SY					17.35	890,263
PAVEMENT: CRUSHED STONE	42,435	SY					7.60	322,506
FORDING PIT (100'LX15'WX4'D)	1	EA					12,000	12,000
FENCING	4,000	LF					16.20	64,800
	-	-					-	-

☆U.S. Government Printing Office 1982—600-106/6911 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 27 Aug 87

ACTIVITY AND LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: P-807

ESTIMATED BY: W. L. BRANT

CATEGORY CODE NUMBER: 171-10

PROJECT TITLE: DRIVER TRAINING SCHOOL

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (Specify) Project

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
UTILITY CONNECTIONS;								
ELECTRICAL DISTRIBUTION	1,200	LF					185.00	222,000
WATER DISTRIBUTION	1,000	LF					33.35	33,350
STEAM DISTRIBUTION	600	LF					124.15	74,490
SANITARY SEWER	1,000	LF					89.30	89,300
COMMUNICATIONS	1,200	LF					50.00	60,000
STORM DRAINAGE	2,400	LF					28.00	67,200
UTILITY IMPROVEMENTS:								
STEAM AND CONDENSATE	800	LF					124.15	99,320
UPGRADE EXIST'G OH STEAM DIST	2,200	LF					172.00	378,400
SANITARY SEWER:								
REPL. FILTER PUMPS AT M-136	3	EA					10,000	30,000
PROVIDE COMMINUTOR (15"DRUM)	1	EA					20,000	20,000
SEWER PIPING	1,200	LF					32.30	38,760
WATER:								
ELEVATED STG TANK 250,000 GA	1	GA					400,000	400,000
ALTITUDE VALVE AT S-TT-40 TANK	1	EA					10,000	10,000

NAVFAC 11013/7 (1-78)
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COST ESTIMATE

DATE PREPARED: 27 Aug 87

SHEET 4 OF 4

ACTIVITY AND LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: P-807

ESTIMATED BY: W. L. BRANT

CATEGORY CODE NUMBER: 171-10

PROJECT TITLE: DRIVER TRAINING SCHOOL

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ XX Other (*Specify*) Project

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
PUMP CONTROLS TO BLDG 670	1	LS					50,000	50,000
WATER PIPING	600	LF					33.25	19,950
SUBTOTAL								9,220,220
CONTINGENCY - 5%								461,011
TOTAL CONTRACT COST								9,681,231
S.I.O.H. - 5.5%								532,468
TOTAL REQUEST								10,213,699
TOTAL REQUEST (ROUNDED)								10,200,000

★ U.S. Government Printing Office: 1982—506-166/6911 2-1

P807

COST MODEL QUESTIONNAIRE

GENERAL:

This questionnaire will establish a measure of the project scope, early in the planning stage in a manner which will allow empirical prices to be applied. It is recognized that many design decisions cannot be made at this time; however, if a realistic price is to be developed, the needs of the activity relating to a particular project must be defined. The NAVFACENGCOM method of conceptual estimating requires cost development from guidance cost of comparable construction. Any variation from guidance cost must be supported by a definition and cost of unusual features. This support is often necessary to provide adequate project funding.

BUILDING:

The completed cost model (systems 111 through 499) must state what is planned, with EMPHASIS UPON SCOPE FEATURES THAT GENERATE SIGNIFICANT COST. Assumptions must be stated. Additional narrative description for unusual items is encouraged.

System 000 Building Construction

This system describes the total function of the building. As such, it is the most important information shown on the cost model.

SUPPORTING FACILITIES

The completed cost model (systems 500 through 999) should state what is planned with emphasis upon scope features that generate significant cost. Refer to additional guidance in the cost model questionnaire.

Notes:

1. This Cost Model Questionnaire serves two purposes:

   At the budget stage it serves as a means of documenting and quantifying project requirements in such a manner that emperical prices can be used to generate a project cost.

   At the final estimate stage it serves as a means of defining a project as designed, for storage in NAVFACENGCOM historical data collection system.

2. Notes asking for narrative/descriptions etc. are intended for use at the budget stage.

3. The cost model queationnaire systems list includes numbered systems that are "write-in". These numbers may be used to identify systems in the project that are not identified in the questionnaire. Sub-system numbers that are blank may be used for write-in.

4. Systems preceeded by (1) are considered built-in equipment.

5. Exterior Systems and Special Equipment need more scope definition for accurate pricing. Show narrative description as you best understand the scope when detailed lists are not available.

6. For all Building Systems using a systems quantity of "Gross Building Area", where the specific system is only in a portion of the building then the Gross Building Area is only the area in which the system occurs. Gross Area Calculations instructions apply.

7. Gross Area Calculation Instructions - The total area of all floors, including mezzanines, basements and penthouses as determined by the effective outside dimensions of the building. One-half the area shall be included for uncovered loading platforms, covered ground level or depressed loading facilities and covered but not enclosed passageways, porches and balconies and stairs. Exterior uncovered stairs, uncovered stoops, paved terraces, and all enclosed space having an average ceiling height of less than 7 feet shall be excluded.

(These calculations are to determine scope SF. The cost of these features taken as zero area above must be priced. This can be done by pricing the actual areas as 'special features of additional cost' on the building SF derivation sheet.)

Project Title DRIVER TRAINING FACILITY

Location MCB CAMP LEJEUNE

Contract Number

P# 807 FY 91 Date 30 OCT 87

Completed by ADEP ARCHITECTS

Phone Number 704-375-6038

COST ENGINEERING SYSTEM (CES)

COST MODEL QUESTIONNAIRE

12/31/86

000 Building Construction Gross Building Area (SF) 116,022

Function or Category Code	% or Area
171-10	100

Where a single building includes areas of significant cost variation as identified by category code or functional area, show a breakdown by function or category code (under sub system 01 through 05). Show area in sq. ft. or by percentage to nearest 5%.

20	Number of Floors	1
21	Floor to Floor Height	* LF
22	Length - Nearest foot	* LF
23	Width - Nearest foot	* LF
25	Irregular - Yes/No	
26	Building Perimeter(when irregular)	LF
40	Describe any known special considerations; scheduling, security, asbestos removal, hazardous materials **	NO MAJOR SPECIAL CONSIDERATIONS
50	Finish floor elevation above existing grade - nearest foot.	1.5' LF

* VARIES - 9 BUILDING COMPLEX

** HAZARD - EXHAUST FUMES
BATTERY ACID FUMES
GASOLINE/DIESEL FUMES

STRUCTURAL

111 Foundation — Ground Floor Area (SF) 116,022

- 01 Spread Footings
- 02 Thickened Slab
- ✓ 03 Pile Foundations
- 04 Caissons
- 05 Continuous wall footing
- ✓ 06 Grade Beams & PILE CAPS

***** For convenience pilings are described with building foundation. *****
***** Price under the supporting facilities. 911 Land Piling-Driven *****

911 Land Piling-Driven — Length of Piling (LF) 19,600

- ✓ 02 Timber 25 TON
- 04 Concrete 10" Sq
- 05 Concrete 12" Sq
- 06 Concrete 14" Sq
- 08 Steel

Length of Piling

- ✓ 21 26' - 35'
- 22 36' - 45'
- 23 46' - 55'
- 24 56' - 65'
- 25 66' - 75'
- 26 76' - 85'
- 27 86' - 95'
- 28 Over 95'

112 Slab on Grade — Slab on Grade Area (SF) 116,022

- ✓ 01 Floating
- 02 Grade Beam Supported
- 03 Pile Supported

Thickness

- ✓ 11 Under 6"
- ✓ 12 6"
- ✓ 13 8" VARIES
- 14 Over 8"

Floorload

- 30 Under 100 PSF
- 31 101 - 200 PSF
- 32 201 - 300 PSF
- 33 301 - 400 PSF
- 34 401 - 500 PSF
- 35 Over 501 PSF

113 Structural — Gross Building Area (SF) 116,022

- 01 Bearing Wall
- ✓ 02 Steel Framing
- 03 Concrete Cast in Place
- 04 Wood
- 06 Concrete Precast
- 07 Air Inflatable

114 Supported Floor — Supported Floor (SF) _____

- 01 Concrete Cast in Place
- 02 Concrete on Steel Joists
- 03 Concrete on Steel Framing
- 04 Precast Concrete
- 05 Wood
- 06

If more than one entry give percentage of each - nearest 10%.

~~115 Stairs~~ ~~Risers (E~~

✓116 Roof Structure — Area of Roof (SF) 40,857

Framing

- — 02
- — 03 Precast Hollow Core
- — 04 Precast Concrete
- — 05 Wood
- ✓ 06 Steel Joist
- ✓ 07 Steel Framing

ACAD INST. 26,539
VEH MAINT 14,090
DISP 225

~~If more than one entry, give percentage of each - nearest 10%.~~

✓117 Pre Engineered Building — Gross Area of Building (SF) 75,168

- — 01 Eave height under 12'
- ✓ 02 Eave height 12-20'
- — 03 Eave height over 20

APP. INST - 70,000
SHELTERS - 5,168

~~118 Vault~~ — Gross Floor Area (SF)

119 Write-in System

✓ARCHITECTURAL

✓141 Roofing — Roof Area (SF)

Surface

- — 10
- ✓ 11 Built-up - 40,852 SF
- — 12 Shingles
- — 13 Elast.
- — 14 Sprayed
- ✓ 15 Metal Roofing 75,168 SF
- — 16

142 Exterior Walls — Exterior Wall Area (SF) 16,000

Ext. Surface

- ✓ 01 Brick
- — 02 CMU
- — 03 Drivit
- ✓ 04 Metal Panels (SEE 117)
- — 05 Stucco
- — 06 Wood
- — 07 Conc Cast In Place
- — 08 Precast Concrete

Backup

- ✓ 21 CMU
- — 22 Wood Studs
- — 23 Steel Studs
- — 24 Conc Cast in Place
- — 25 Precast Concrete
- — 26 Furring

Height

- ✓ 30 Under 12'
- ✓ 31 12' - 20'
- — 32 over 20'

If more than one height is shown give percentage of each - nearest 10%.

143 Interior Walls — Interior Wall Area (Height) 41,220

- 01 Concrete
- 02 Steel Studs
- 03 CMU
- 04 Concrete Cast in Place
- 05 Wood Studs
- 06

- 21 8'
- 22 9'
- 23 10'
- 10'+

If more than one entry under height, give percentage of each - nearest 10%.
Give narrative description of type and size of rooms.

144 Interior Finishes — Gross Building Area (SF) 116,022

- 01 Gypsum Board
- 02 CMU
- 03 Ceramic Tile
- 04 Wood Panels
- 05 Plaster
- 06 Vinyl Wall Covering

Floor
- 11 Vat
- 12 Ceramic Tile
- 13 Quarry Tile
- 14 Carpet
- 15 Concrete
- 16 Terrazzo
- 17 Special Toppings

Ceiling
- 21 Acoustical
- 22 Gypsum Board
- 23 Plaster
- 24 Concrete
- 25 Spray on

145 Doors — Surface Area One Side (SF) _____

- 01 Hollow Metal Exterior
- 02 Alum Entrance Store Front
- 03 Folding
- 04 Roll Up 25 REQ AT APPLIED INST BLD
- 05 Overhead 14 " VEHICLE MAINT
- 06
- 07
- 08 Wood Interior
- 09 Hollow Metal Interior

146 Windows — Surface Area One Side (SF) _____

147 Specialities — Gross Building Area (SF) 116,022

- 01 Wardrobes
- 02 Jail
- 03 Clean Room
- 04 Case Work
- 05 Dark Rooms
- 06 TOILET ACC & LOCKERS
- 07 Loading Dock
- 08
- 09 Wire Partitions
- 10 Metal Walkways
- 11 X-Ray

Give estimating quantities for required ITEMS OF SIGNIFICANT COST. List shown is not complete. Detailing of toilet accessories and partitions is not required. Very large items may be more suited to using a write-in system.

(1) ~~148~~ BEQ Wardrobes — Number of Wardrobes (EA) _____

__ 01 With Chest
__ 02 Without Chest

~~149~~ Write-in System

~~DEMOLITION INTERIOR~~

~~171~~ Demolition Interior — Gross Building Area (SF) _____

__ 01 Complete Interior Partition
__ 02 Complete Interior Finishes
__ 03 Complete Interior Mechanical
__ 04 Complete Interior Electrical
__ 05 Complete Interior of Bldg. 01 thru 04

172 Asbestos Removal Interior — Total Cost (LS) _____

__ 01
__ 02
__ 03

173 - 175 Write-in Systems

✓ PLUMBING

Note: Refer to attachment #2 to determine number of fixtures for systems 211 and 213

✓ 211 Plumbing-Domestic — Number of Fixtures (EA) 109

~~212 Domestic Hot Water Solar~~ — Capacity (MBTH) _____

✓ 213 Roof Drainage — Number of Drains (EA) 22

~~214 - 216 Write-in Systems~~

✓ SPACE CONDITIONING

✓ 221 HVAC — Capacity (MBTU or TNS) _____

__ 20 Bldg. Htng Plant HW, oil
__ 21 Bldg. Htng Plant Steam, oil
__ 22 Bldg. Htng Plant Hot air, oil
__ 23 Bldg. Htng Plant Hot air, gas
__ 24 Bldg. Htng Plant HW, gas
__ 25 Bldg. Htng Plant steam, gas
__ 26 Bldg. Htng Plant Elec.
✓ 27 Base Plant Steam
__ 28 Base Plant HW
__ 29 Base Plant HTHW

Give tonnage, refer to attachment 1 if better information is not available. If building contains partial A/C, use systems 222 and 223 for each respective area.

✓ 222 Air Conditioning — Capacity (TNS) 80

223 Heating & Ventilation — Capacity (MBTH or CFM) _____

- __ 20 Bldg. Htng Plant
- __ 21 Bldg. Htng Plant Steam, oil
- __ 22 Bldg. Htng Plant Hot Air, oil
- __ 23 Bldg. Htng Plant Hot air, gas
- __ 24 Bldg. Htng Plant HW, gas
- __ 25 Bldg. Htng Plant Steam, gas
- __ 26 Bldg. Htng Plant Elec.
- ✓ 27 Base Plant Steam
- __ 28 Base Plant HW
- __ 29 Base Plant HTHW

✓ 224 Mechanical Ventilation — Fan Capacity (CFM) _____

225 ~~Dehumidification~~ — Capacity(PPH) _____

226 Heating, Solar — Collector Area (SF) _____

227 Write-in System _____

✓ WEIGHT HANDLING EQUIPMENT

✓ (1) 231 Bridge Cranes — Capacity (TNS) 5 TONS

- ✓ 01 Span under 50'
- __ 02 Span 51-75'
- __ 03 Span over 75'
- ✓ 10 Capacity under 10 T
- __ 11 Capacity 10-20 T
- __ 12 Capacity 20-30 T
- __ 13 Capacity 30-40 T
- __ 14 Capacity over 40 T
- __ 21 Run under 50'
- ✓ 22 Run 50-100'
- __ 23 Run over 100'

(1) 232 Monorails — Capacity (TNS) _____

- __ 01 Manual
- __ 02 Electric
- __ 03 Air Operated
- __ 10 Capacity under 5 T
- __ 11 Capacity 5-10 T
- __ 12 Capacity over 10 T
- __ 21 Run under 50'
- __ 22 Run 50 to 100'
- __ 23 Run over 100'

(1) 233 Fixed Hoist — Capacity (TNS) _____

- __ 01 Manual
- __ 02 Electric
- __ 03 Air Operated

✓ (1) 234 Vehicle Lifts 2 @ 6 TONS — Capacity (TNS) 12 TONS

- __ 10 Capacity under 5 T
- __ 11 Capacity 5-10 T
- 2 12 Capacity over 10 T

(1) 235 Elevators — Number of Stops (EA) _____
— 01 Electric — — 11 Passenger
— 02 Hydraulic — — 12 Freight
— 03

(1) 236 Escalators — Flights (EA) _____

(1) 237 Conveyors — Capacity (LNS/HR) _____

~~(1) 238 Write-in System~~

SPECIAL MECHANICAL PIPING SYSTEM

~~(1) 241 Vacuum~~ — Capacity (CFM) _____
— 01 Medical
— 02 Industrial
— 03

(1) 242 Oxygen — Outlets (EA) _____

(1) 243 Nitrogen — Outlets (EA) _____

(1) 244 Compressed Air — Capacity (CFM) 50
✓ 01 Low Pressure 150 below — VEHICLE MAINTENANCE BLD
— 02 — APPLIED INST. BLD
— 03 High Pressure 151 up

245 Interior Steam — Capacity (PPH) _____
— 01 High Pressure — — 11 Oil Fired — — 20 Fuel Oil Storage
— 02 Medium Pressure — — 12 Electric Fired
✓ 03 Low Pressure

~~246, 247 Write-in Systems~~

SPECIAL MECHANICAL OTHER

~~251 Dust Collection~~ — ~~Capacity (CFM)~~ _____

252 Engine Exhaust — Fan Capacity (CFM) 40,000
BATTERY SHOP EXH.
253 - 255 ~~Write-in Systems~~ LUB SYSTEM

FIRE PROTECTION

(1) 271 Sprinklers — Gross Area Sprinkled (SF) 115,797
— 01 Dry — — 10 Light Hazard
✓ 02 Wet — — 11 Ordinary Hazard
— 03 Preaction — — 12 Extra Hazard
— 04 Deluge — — 13
— 05 — — 14 Includes Booster Pump

(1) 272 AFFF (Aqueous Film [illegible]ing Foam) Capacity (GAL) _____

- __ 01 Deluge
- __ 02 Pre-action
- __ 03
- __ 04 Oscillating Monitors

(1) 273 Carbon Dioxide Storage Capacity (LBS) _____

- __ 01 Hose Reel
- __ 02 Flooding Area
- __ 03 Flooding Total
- __ 04

(1) 274 Halon Storage Capacity (LBS) _____

- __ 01
- __ 02

✓ 275 Fire Alarm RADIO Gross Building Area (SF) 116,022

~~276, 277 Write-in Systems~~

✓ POWER & LIGHTING

✓ 311 Power Connected Load (KW) 1200

✓ 312 Lighting Gross Building Area (SF) 116,022

(1) 313 400 HZ Converter Capacity (KW) _____

(1) 314 Direct Current Converter Capacity (KW) _____

(1) 315 Uninterruptable Power Supply Converter Capacity (KVA) _____

(1) 316 Electrical Generators Equipment Capacity (KW) _____

- __ 01 Intermittent
- __ 02 Continuous
- __ 03 Electrical
- __ 04 Gas
- __ 05 Diesel
- __ 06 Turbine
- __ 07

- __ 40
- __ 41 600 RPM
- __ 42 720 RPM
- __ 43 900 RPM
- __ 44 1200 RPM
- __ 45 1800 RPM

317, 318 Write-in Systems

SPECIAL ELECTRICAL PROTECTION

(1) 321 Grounding Gross Building Area (SF) _____

__ 01 Lightning Grounding
__ 02 Electronic Grounding
__ 03 Protective Grounding

(1) 322 Lightning Protection Gross Building Area (SF) _____

(1) 323 - 326 Write-in Systems

SPECIAL ELECTRICAL, ELECTRONICS

(1) 331 Security Detection Gross Building Area (SF) _____

__ 01 Intrusion Alarm for Access Control
__ 02 Access Control
__ 03 TV Camera & Monitor

If layout is not available describe area covered, where does alarm sound etc. Also describe intended function of system.

(1) 332 EMCS (Energy Monitoring and Controls System) Number of Points (EA) ____

__ 01 Local Control
✓ 02 Remote Control

(1) 333 Computer Communication Cable Run (LF) _____

334 - 336 Write-in Systems

COMMUNICATION

341 Telephone 50 PAIR Gross Building Area (SF) 116,022

342 Intercom Gross Building Area (SF) TO ALL BLD'S

343 Television Gross Building Area (SF) _____

344 Public Announcement Gross Building Area (SF) TO ALL BLDS

345 Master Clock Number of Outlets (EA) _____

(1) 346, 347 Write-in Systems

MEDICAL EQUIPMENT

(1) 411 Hospital Equipment — Gross Building Area (SF) _____

(1) 412 Dental Equipment — Number of Chairs (EA) _____

(1) 413, 414 Write-in Systems

FOOD SERVICE

(1) 421 Food Service Equipment — Pieces of Food Service Equip (EA) _____

(1) 422 - 425 Write-in Systems

MISCELLANEOUS EQUIPMENT

(1) 431 Chapel Equipment — Gross Building Area (SF) _____

(1) 432 Movie Theater Equipment — Gross Building Area (SF) _____

(1) 433 Rifle Range Equipment — Firing Lanes (EA) _____

(1) 434 Laboratory Equipment — Number of Pieces (EA) _____

(1) 437 Waste Disposal Equipment — Equipment Capacity (PPH) _____

(1) 438 Write-in System

SPECIAL WAREHOUSE EQUIPMENT

(1) 441 Special Warehouse Equipment — Gross Building Area (SF) _____

(1) 442 - 444 Write-in Systems

SPECIAL CONSTRUCTION

451 Hanger Doors — Surface Area One Side (SF) _____

__ 01 Sliding
__ 02 Vertical Lift
__ 10 Manual
__ 11 Power Operated

452 Vault Doors — Number (EA) _____

453 Blast Doors — Surface Area One Side (SF) _____

Span		Charge Weight (TNT Equivalent)		Distance	
— 01		— 11		— 21	
— 02	3 feet	— 12	0 - 10 LBS	— 22	0 - 20 FT
— 03	5 feet	— 13		— 23	
— 04	10 feet	— 14	10 - 500 LBS	— 24	20 - 100 FT
— 05	15 feet	— 15		— 25	
— 06	20 feet	— 16	Over 500 LBS	— 26	Over 100 FT

454 Raised Floor — Area of Raised Floor (SF) _____

(1) 455 Radio Frequency Shielding — Surface Area Shielded (SF) _____

456 Bowling Lanes — Number of Lanes (EA) _____

— 01 New — 10 W/O Auto Pin Setter
— 02 Refinished — 11 W/ Auto Pin Setters

(1) 457 Paint Spray Booth — Floor Area (SF) _____

458 Write-in System

OTHER EQUIPMENT

491 Other Miiscellaneous Equipment

492 Snow Melting — Area Protected (SF) _____

(1) 496 Government furnished equipment Financed from Construction Funds — Gross Building Area (SF) _____

Describe any equipment not shown elsewhere that is purchased from construction funds. Usually this is either from equipment purchased by the government and furnished to the construction contractor, or it is furnished and installed under a seperate contract. Also show, if not shown elsewhere equipment not from construction funds for which installation costs will be required.

SUPPORTING FACILITIES

(Systems 500 through 999)

Note:

1. Show the following criteria suitable for the application of historical cost; under each applicable system heading;

   a. Size (assume if unknown) and length of utility runs. Include storm drainage requirement. Indicate valves, fire hydrants, manholes, catch basins and other significant extras. Depth of cut (when over 6 feet) and dewatering requirements must be shown.

   b. Area and assumed section for paved areas. Identify each type and section variation.

   c. Description of work required for grading, cut and borrow. Describe assumed nature of materials to be moved. If rock excavation is required, state assumptions on removal requirements, eg: rip, blast etc.

   d. Indicate approximate quantities of clearing and grubbing in acres, and whether heavy, medium, or light.

   e. Describe any unusual features required outside the building 5 foot line such as: sewage lift stations, wash racks and water tanks, and unsuitable soil conditions

   f. If hazardous materials are present, state type, extent and method of disposal.

   g. See System 911 for Land Piling - Driven.

EXTERIOR ELECTRICAL

511 Electrical Distribution, Primary — Length of Run (LF) 1800

512 Electrical Distribution, Secondary — Length of Run (LF) 550

513 ~~Substation/~~Transformer — Capacity ~~(KVA)~~ 1200KW

514 Area Lighting — Number of Fixtures (EA) 30

~~515 Airfield Lighting~~ — Length of Run (LF) _____

516 Lightning Protection — Points of Protection (EA) _____

~~517, 518 Write-in Systems~~

EXTERIOR COMMUNICATION

521 Fire Alarm RADIO — Length of Run (LF) N/A

~~522 Security Alarm — Length of Run (LF)~~ _____

523 Communication, Telephone — Length of Run (LF) 3000

524 Exterior EMCS (Energy Monitoring Control System) — Length of Run (LF) _____

~~525, 526 Write-in Systems~~

EXTERIOR MECHANICAL

541 Heat Distribution, Overhead — Length of Run (LF) BUILDIS 3000

542 Heat Distribution, Underground — Length of Run (LF) UTILITY UPGRADE 3000

~~543 Chilled Water Distribution~~ — Length of Run (LF) _____

544 Condensate Collection (only) — Length of Run (LF) _____

545 Gas Distribution — Length of Run (LF) _____

546 Compressed Air Distribution — Length of Run (LF) _____

547 Fuel Distribution — Length of [redacted] (LF) N/A

~~548 Exterior Foam~~ — ~~Length of Run (LF)~~

549 ~~Write-in System~~ VEHICLE PETROLEUM DISPENSING

EXTERIOR WATER DISTRIBUTION

551 Water Distribution — BLD Length of Run (LF) 3200
UTILITY UPGRADE (LF) 100

552 Fire Protection Water Distribution — Length of Run (LF) SEE 551

~~553 Salt Water Distribution~~ — ~~Length of Run (LF)~~

554 Sanitary Sewers — FORCED MAIN BUILD'G Length of Run (LF) 1400
GRAVITY UTILITY UP GD. 1100

555, ~~556 Write-in Systems~~ WATER TANK REPLACEMENT 350,000 GAL

BULK STORAGE

~~561 Fuel Storage, Bulk~~ — ~~Capacity (BBL)~~

562 Fuel Storage, Ready Issue — GAS Capacity (GAL) 2,000
DIESEL 10,000

563 Water Storage WATER TANK REPLACE'T Capacity (GAL) 350,000

564 - ~~566 Write-in Systems~~ WASTE OIL TANKS. (GAL) 1000

FUELING

571 Vehicle Fueling 5-2HOSE PUMPS — Number of Outlets (EA) 10

572 Aircraft Fueling — Number of Hydrants (EA)

573 Marine Fueling — Number of Outlets (EA)

574 - 576 Write-in Systems

PUMPING

581 Fuel Pumping Station — Pump Capacity (GPM)

582 Water Pumping Station — Pump Capacity (GPM)

~~583 Fire Booster Pump~~ ~~Pump Capacity (GPM)~~ _____

✓584 Sewage Pump Station FORCED MAIN Pump Capacity (GPM) _____

~~585 Sewage Lift Station~~ ~~Pump Capacity (GPM)~~ _____

586 ~~Write-in System~~ BOOSTER PUMP FOR WASH RACKS.

~~TREATMENT FACILITY~~

591 Water Treatment Capacity (MGD) _____

592 Domestic Sewage Treatment Capacity (MGD) _____

593 Industrial Waste Treatment Capacity (MGD) _____

594 - 596 Write-in Systems

~~EQUIPMENT BUILDING~~

611 Mechanical Equipment Building Gross M.E. Building Area (SF) _____

Building required to house mechanical equipment when not connected to the main building and not included in gross area shown under the primary facility.

612 Electrical Equipment Building Gross E.E. Building Area (SF) _____

613 - 615 Write-in Systems

✓SUPPORTING STRUCTURES MISCELLANEOUS

✓621 Security Gate 2@24' Opening Width (LF) 48'

622 Guard House DISPATCH OFFICE Gross Building Area (SF) 225

623 - 625 Write-in Systems

✓POLLUTION ABATEMENT STRUCTURES

✓641 Oil Water Separators Capacity (GAL) _____

~~642 Electro-Static Precipitator~~ ~~Air Flow (SCFM)~~ _____

643. VENTILATION SYSTEMS
EXHAUST FUMES
BATTERY ACID FUMES
GASOLINE/DIESEL FUMES

~~642 - 645 Write-in Systems~~

SHOP SUPPORT STRUCTURES

651 Vehicle Grease Racks — Number of Vehicle Racks (EA) 2

652 Vehicle Wash Platforms — Number of Vehicle Bays (~~EA~~ SF) 5600

~~652 - 656 Write-in Systems~~

~~AIRCRAFT CLEANING FACILITY~~

661 Aircraft Washing Facility — Paved Area (SY) _____

662 Aircraft Rinsing Facility — Paved Area (SY) _____

~~663 - 666 Write-in Systems~~

PAVING

~~711 Concrete Roads — Paved Area (SY) _____~~

712 Flexible Roads — Paved Area (SY) 5400

~~713 Overlay Roads~~ — Paved Area (SY) _____

714 Surface Treatment Roads — Paved Area (SY) _____

715 Slurry Seal Road — Paved Area (SY) _____

~~716, 717 Write-in Systems~~

PARKING

721 Concrete Parking — Paved Area (SY) 8280

722 Flexible Parking — Paved Area (SY) 100,357

~~723 Overlay - Parking~~ — Paved Area (SY) _____

724 Surface Treatment - Parking — Paved Area (SY) _____

725 Slurry Seal Parking — Paved Area (SY) _____

~~726, 727 Write-in Systems~~

WALKS

741 Concrete Walks — Paved Area (SY) 150

742 Bituminous Walks — Paved Area (SY) _____

743 Special Walks — Paved Area (SY) _____

744 - 746 Write-in Systems

AIRCRAFT PARKING CONCRETE

751 Concrete Runways — Paved Area (SY) _____

752 Concrete Taxiways — Paved Area (SY) _____

753 Concrete Aprons — Paved Area (SY) _____

754 Repairs Concrete Paving — Paved Area (SF) _____

755 Crack and Joint Repair — Length of Repair (LF) _____

757, 758 Write-in Systems

AIRCRAFT PAVING FLEXIBLE

761 Flexible Runways — Paved Area (SY) _____

762 Flexible Taxiways — Paved Area (SY) _____

763 Flexible Aprons — Paved Area (SY) _____

764 Repair Aircraft Flexible Paving — Paved Area Patched (SY) _____

765 Aircraft Paving Overlays — Paved Area (SY) _____

766 Aircraft Paving Slurry Seal — Paved Area (SY) _____

767, 768 Write-in Systems

~~INCIDENTAL PAVING WORK~~

771 Pavement Milling — Milled Area (SY) _____

~~772 - 776 Write-in Systems~~

EARTHWORK

811 Earthwork — Volume (CY) CLEAR 25 ACRS

812 Borrow — Volume in Place (CY) 60,500

813 Topsoil, Seed, Sod — Area Graded (SY) 7,100

~~814 Landscaping~~ — ~~Area Planted (SY)~~ _____

~~815 Site Irrigation~~ — ~~Number of Sprinkler Heads (EA)~~ _____

816 Surcharge — Fill in Surcharge (CY) 30,940

~~817 Earth Replacement~~ — ~~In Place Measurement (CY)~~ _____

818 Environmental Protection — Area Protected (ACRES) 25

~~819 Write-in System~~ Topsoil?

SITE IMPROVEMENTS

821 Site Improvements — Area Developed ~~(SY)~~ 25 ACRES

822 - ~~825 Write-in Systems~~

~~SITE PREPARATION MISCELLANEOUS~~

831 Site Dewatering (Major) — Header Pipe (LF) _____

832 - 835 Write-in Systems

DEMOLITION

841 Remove Utilities UTILITY UPGRADE — Length of Run (LF) _____

~~842 Remove Paving and Slabs~~ — ~~Area Removed (SY)~~ _____

~~843 Remove Structure~~ ~~Structure Volume (CF)~~ _____

844 Remove/Dispose of Asbestos (Exterior) UTILITY INSULATION — Total Cost (LS) _____

~~845 Remove/Dispose of P.C.B.~~ — Total Cost (LS) _____

846 Remove/Dispose of Contaminated Earth — Volume of Earth Removed (CY) ___

847 Write-in System

STORM DRAINAGE

851 Storm Drainage Piping — Length of Run (LF) _____

852 Box and Arch Culvert C — Length of Culvert (LF) _____

853 Drainage Facing Materials RIP RAP AT DISCHARGE — Surface Area (SY) _____

~~854 - 856 Write-in Systems~~ Catch Basins

FENCING

861 Fencing (Perimeter) — Length of Fence (LF) 6200
GATES LF 150

~~862 Fencing (Alarm)~~ — Length of Fence (LF) _____

863 - 865 Write-in Systems

~~RECREATION EQUIPMENT/FIELDS~~ 1

871 Playground Equipment — Pieces of Equipment (EA) _____

872 Playing Field Equipment — Pieces of Equipment (EA) _____

873 Tennis Courts — Number of Courts (EA) _____

874 Softball/Baseball Fields — Number of Fileds (EA) _____

875 Football/Soccer Fields — Number of Fields (EA) _____

876, 877 Write-in Systems

SPECIAL BUILDING FOUNDATIO

**** For SYSTEM 911 LAND PILING-DRIVEN ****
**** See Under Foundations(System 111) in Building Systems ****

912 Caissons	Number of Caissons (EA) _____
913 Pressure Injected Footing	Number of Footings (EA) _____
914 Vibrofloatation	Number of Locations (EA) _____
915 Chemical Soil Stabilization	Number of Locations (EA) _____
916 Dynamic Consolidation	Number of Locations (EA) _____
917 Piling Cast-In-Place Concrete	Length of Piling (LF) _____

RAILROAD

921 Track Work - Railroad	Length of Track (LF) _____
922 - 925 Write-in Systems	

MARINE STRUCTURES PIERS

931 Piling - Marine	Length of Piling (LF) _____
932 Dolphins	Number of Dolphins (EA) _____
933 Med Mooring	Total Cost (LS) _____
934 Pier Deck	Area of Deck (SF) _____
935 Fenders	Length of Fender (LF) _____
936 Pile Clusters	Number of Clusters (EA) _____
937 Marine Specialities	Total Cost (LS) _____
938 Write-in System	

MARINE STRUCTURES SPECIAL

941 Bulkheads/Seawalls — Total Face Area (SF) _____

942 Erosion Protection - Marine — Area Covered (SY) _____

943 Riprap (Marine) — Area Covered (SY) _____

944 - 946 Write-in Systems

MARINE REPAIRS

951 Underdeck Repairs — Total Cost (LS) _____

952 Pile Repairs Marine — Length Repaired (LF) _____

953 - 957 Write-in Systems

DREDGING

961 Mobilization/Demobilization - Dredging — Total Cost (LS) _____

963 Hydraulic Dredging — Volume (CY) _____

964 Bucket Dredging — Volume (CY) _____

965 - 966 Write-in Systems

TOWERS/ANTENNAS

971 Towers — Length (LF) _____

972 Antennas — Total Cost (LS) _____

973 - 976 Write-in Systems

TUNNEL/PIPE JACKING

981 Tunneling — Volume Removed (CY) _____

982 Pipe Jacking — Length Jacked (LF) _____

983 - 986 Write-in Systems

HEAVY CONSTRUCTION MISCELLANEOUS

991 Bridges — Deck Area (SF) _____

992 Overpasses — Deck Area (SF) _____

993 - 996 Write-in Systems

AIR CONDITIONING TONNAGE GUIDE

CATEGORY CODE	TITLE	SQUARE FEET OF FLOOR AREA / TON OF A/C
171-15	Reserve Centers	450 - 600
171-20	Applied Instruction Building	NO STANDARD
171-25	Auditorium	0.04 - 0.06 tons/seat
171-35	Flight Simulator	100 - 300
610-10	Administration Building	350 - 400
721-11	UEPH	1000 - 1200
722-10	Dining Facility	175 - 450
724-11	UOPH	1000 - 1200
730-83	Chapel	300 - 500; or 0.02 - 0.03 tons/seat
740-02	Location Exchange	NO STANDARD
740-20	Temporary Lodging	550 - 750
740-23	Commissary	800 - 900
740-25	Family Service Center	375 - 400
740-40	Bowling Alley	0.8 - 1.4 tons/seat
740-63	Enlisted Men's & Officers Clubs	600 - 650
740-74	Child Care Center	350 - 450
	Classrooms	400 - 500
	Computer Room	50 - 150
	Dispensaries	450 - 550
	Hospital Patient Rooms	450 - 550
	Married Personnel Quarters	900 - 1275
	Recreation Rooms	375 - 450
	Shops(Precision Equipment)	450 - 500

Estimating Electrical Loads for Air Conditioning Systems

It is frequently necessary to estimate the power requirements for air conditioning systems when preparing a MILCON project and in other instances. For years, a rough rule of thumb was to use one (1) kilowatt per ton of cooling for any type system. Use of this rule neglects variation in cooling system efficiencies and the power consumption of auxiliaries such as fans and pumps. More accurate approximations of power consumption which include these factors are given in the table which follows.

ATTACHMENT 1

APPROXIMATE KILOWATT/INPUT PER TON OF REFRIGERATION*

Cooling Load	Electrical Power Requirements
5 tons and less (without Air Handler)	1.7 Kw/ton
5 tons and less (with Air Handler)	1.8 Kw/ton
Over 5 tons (Direct Expansion, Air Cooled Condenser, without Air Handler)	1.5 Kw/ton
Over 5 tons (Direct Expansion, Air Cooled Condenser, with Air Handler)	1.5 Kw/ton
Over 5 tons (Water Chiller, Air Cooled Condenser, without Air Handler)	1.4 Kw/ton
Over 5 tons (Water Chiller, Air Cooled Condenser, with Air Handler)	1.75 Kw/ton
Over 5 tons (Water Chiller, Mech. Tower, without Air Handler)	1.4 Kw/ton
Over 5 tons (Water Chiller, Mech. Tower, with Air Handler)	1.75 Kw/ton

*If type of system is not known, use the highest given values for estimating purposes.

PLUMBING FIXTURE COUNT

Floor Drains (All Sizes)	1/3 Fixture
Roof Drains (All Sizes)	1 Fixture
Floor Sink (All Sizes)	1/3 Fixture
Water Closet	1 Fixture
Lavatories	1 Fixture
Kitchen Sink	1 Fixture
Service Sink	1 Fixture
Bidets	1 Fixture
Electric Water Cooler	1 Fixture
Drinking Fountain	1/2 Fixture
Hand Wash Fountain (180)	3 Fixture
Hand Wash Fountain (360)	4 Fixture
Bathtub	1 Fixture
Water Heater	0 Fixture
Urinal	1 Fixture
Single Shower Fixture	1/2 Fixture
Pre Fab. Shower (incl drain and fix)	1 Fixture
Multi Head Shower (SS)	1 Fixture
Emergency Shower & Eye Wash	1 Fixture
Eye Wash	1/2 Fixture
Emergency Shower	1/2 Fixture
Dishwasher Connection	1/2 Fixture
Washing Machine Connection	1/2 Fixture
Garbage Disposal	1/4 Fixture
Rough-in Piping (HW, CW, Waste)	1/2 Fixture
Mop Sink	1 Fixture

The above table to be used to determine number of fixtures for Standard System Descriptions, Systems 211 and 213 .

ATTACHMENT 2

Submit all supporting documents to:

Commander
Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511-6287

For Design:

Attn: Code 09A2, Section Head

For Shop Drawings:

Attn: Code 05

For As-Built Drawings:

Attn: Code 04A1 (As-Builts)

For QAP Manual:

Attn: Code 053

For Operations and Maintenance Manuals

Code 10

For Construction Surveillance

ROICC _____

c. REQUESTS FOR PAYMENT RECEIVED WITHOUT SUPPORTING DOCUMENTS WILL BE RETURNED UNPAID.

APPENDIX A

Date 30 OCT 87

1. A&E Contract No.: N62470-__-_-___
   Construction Contract No.: N62470-__-_-___

   Project Title (P-No.)/Location: P807 DRIVER TRAINING FACILITY
   MONTFORD POINT
   MCB CAMP LEJEUNE

   Attachments: (Legible Copies Required)
   (Denote sep cover if not provided)

   a. 1391 / 1391 C
   b. Budget Estimate Summary Sheet
   c. Illustrative Drawings
   d. Location & Site Plan
   e. Floor Plan
   f. Utility Plan
   g. Cost Model Questionaire
   h. _____
   i. _____

2. Project Budget: $_____

   Estimated Stateside Construction Cost: $_____

   Estimated Overseas Construction Cost: $_____

In accordance with design contract terms, you are responsible to ensure that estimated construction costs remain within programmed funds. Approval from the Project Manager (PM) is required to continue design in excess of programmed funds. You are responsible to design to scope. Approval from the PM is required to continue design in excess of the authorized scope.

3. LANTNAVFACENGCOM PM/Telephone:

   _____

   LANTNAVFACENGCOM Engineer-in-Charge (ECI)/Telephone:
   Architect-in-Charge (AIC)
   Planner-in-Charge (PIC)

   _____

4. Activity Point of Contact/Telephone:

   _____

5. Services Required:

a. The following listed services are required: (Note Options)

PED
Plans
Specifications
Cost Estimate
Engineering Services
(List all Items included in A&E fee)
Soil Borings (___LF)
Survey/Plotting
Field Investigation
Asbestos Testing (___tests)
Computer Energy Analysis
Printing/Duplication
Value Engineering Study Representation
Other (List All)
Review Meetings (List All)
Travel and Subsistence
Shop Drawing Review (Option)
As-Built Drawing Preparation (Option)
Interior Design (Option)
Construction Surveillance (Option)
Quality Assurance Plan (Option)
(Coordinated need and scope with Code 053)
Operations and Maintenance Manual Preparation (Option)
Study (Identify Type)
BEAP
A&E Safety Plan
Air/Water Permit Preparation
Corps of Engineers Permit Preparation
Rendering
Other (Identify and List)

b. Project Engineering Documentation (PED): Not Required/or A PED is required in accordance with "LANTNAVFACENGCOM Instruction for Preparation of PEDs" (attached).

c. Energy Conservation: Not Required/or A computer energy analysis is required for buildings larger than 8,000 square feet (heating and cooling or cooling only) and buildings larger than 20,000 square feet (heating only). Refer to the A&E Guide. Concurrence of systems to be studied shall be obtained prior to conducting study. Contract N62470-__-_-____ with _____ (Company) is available for use. Instructions for its use may be obtained from the Project Manager (PM).

d. Bench mark datum shall be obtained from

____ our Design Division, Civil Engineering Branch (Area Code 804-444-9905).

____ the Activity.

e. Value Engineering (VE): Not Required/or VE of project will be conducted through a separate contract with _____. Your involvement in the VE Study is described in the A&E Guide. Data required for distribution directly to the VE Team is specifically outlined and this effort will be reimbursed under the heading of Engineering Services.

f. Quality Assurance Plan (QAP): Not Required/or A QAP is required. Its scope is provided as attachment __. Fees for this effort shall be broken down under engineering services. Fees for post construction award services shall be identified separately from those services provided during design.

g. Base Exterior Architectural Plan (BEAP): Not Required/or A BEAP has been prepared for this particular area and shall be used as a guide for this project. Please refer to the A&E Guide. An on-board presentation is/is not required.

h. NAVFACENGCOM Computer Estimating System (CES): Not Required/or A computer estimate utilizing our CES system will be required with the prefinal and final (100%) submittals. The A&E shall furnish 7 floppy disks (5 1/4" D, doublesided, double density) and the Government will return loaded with the CES. A users manual and a hard copy of the CES database will also be furnished. Minimum hardware/software requirements are IBM compatible PC w/5 megabyte hard disk storage, printer, DOS (version 2.0 or greater), DBase 3.

A 1 day training class is conducted by Code 407 at LANTNAVFACENGCOM every 2 to 3 months. This provides instruction on preparation of load sheets and use of the microcomputer for CES estimates. Reservations may be made by calling Ms. Patty Brown at 804-444-9991.

The person responsible for estimating preparation is required to have attended the 1 day seminar at LANTNAVFACENGCOM for CES on a microcomputer.

A manually prepared cost estimate in the systems format or computer generated estimate may be submitted with the 35% submittal.

Review the A&E Guide, Section 7.2.3.

6. Fees and Options: (To be filled in at conclusion of negotiations on A&E contracts) NOTE TO PROJECT MANAGERS - THERE IS A CHOICE OF 2 TABLES FOR FEES - FIRST ONE IS ON THIS PAGE; SECOND ONE IS ON NEXT PAGE .

NOTES:

(a) List Options to be Negotiated at a Later Date Stating Unpriced
(b) Include Profit in Unit Costs for Additional Soil Borings or Asbestos Surveys/Tests

	BASIC AWARD 0-35%	35-100%/ OPTION	OTHER OPTIONS	
Direct Design	_____	_____	_____	
Engineering Services	_____	_____	_____	
Travel and Subsistence	_____	_____	_____	
Shop Drawing Review			_____	
As-Built Drawing Preparation			_____	
Interior Design			_____	
QAP Services				
Manual		_____		
Periodic Site Visits during construction (___ months)			_____	
Operations and Maintenance Manual			_____	
Construction Surveillance			_____	
Unit Cost Additional Soil Borings			_____	(Profit Incl)
Unit Cost Additional Asbestos Survey			_____	(Profit Incl)
BASIC CONTRACT/CHANGE ORDER AMOUNT: _____				
TOTAL CONTRACT/CHANGE ORDER VALUE:	_____	_____	_____	_____

OR

	AWARD	OPTIONS	
Direct Design	_____		
Engineering Services	_____		
Travel and Subsistence	_____		
Shop Drawing Review	_____	_____	
As Built Drawing Preparation	_____	_____	
Interior Design	_____	_____	
QAP Services			
Manual	_____		
Periodic Site Visits during construction (___ months)		_____	
Operations and Maintenance Manual		_____	
Construction Surveillance		_____	
Unit Cost Additional Soil Borings		_____	(Profit Incl)
Unit Cost Additional Asbestos Survey		_____	(Profit Incl)
BASIC CONTRACT/CHANGE ORDER AMOUNT:			
TOTAL CONTRACT/CHANGE ORDER VALUE:	_____	_____	_____

7. Proposed Design Milestones:

The designer of record shall begin work upon receipt of contract document and pursue the work diligently in accordance with the date schedule established therein. Your assessment of the schedule shall be provided monthly to the PM.

	CONTRACTOR SUBMITTAL DATES	CUMULATIVE NO. DAYS	GOVT REV
A&E Award:	0	0	-
35%:	___ days after contract award	____	(__)
Prefinal:	___ days after NTP 35/100% option or ___ days after return of 35% marked submittal whichever is later	____	(__)
Final (100%):	___ days after NTP 35/100% option or ___ days after return of prefinal submittal whichever is later	____	(__)
Advertise:		____	(__)
Award Construction Contract:		____	(__)

8. Scope Description: (Blocks 6, 7, 9, 10 and 11 from DD Form 1391 or attach legible Special Project Step II) (Attach Facility Study, Site Location Plan and Section 6 of the BESEP, etc., and list in order of attachment)

A. 1391 / 1391C

B. Budget Estimate Summary Sheet

C. Illustrative Drawings
   1. Location & Site Plan
   2. Floor Plan
   3. Utility Plan

9. Site Approval Status: APPROVED 24 APR 87

10. Project Environmental Assessment (PEA): (Discuss status) ASSESMENT NOT COMPLETE. NO ADVERSE ENVIRONMENTAL EMPACT IS ANTICIPATED.

11. Intergovernmental Coordination Required by Designer with State or Federal Agencies Outside DOD: (Explain) EROSION CONTROL

12. Tentative Floor Plan Concept attached or Tentative Space Plan summarized below:

FUNCTION	AREA (+/-)
TENTATIVE FLOOR PLAN CONCEPT ATTACHED.	

13. Special Building Systems: (Brief description required)

✓ a. Power Distribution System(s)

b. Emergency Power EXIT LIGHTING

N c. UPS

N d. R.F. Shielding

✓ e. MCON Funded Built-in Equipment SPRINKLE SYSTEM

N f. Raised Flooring

✓ g. Compressed Air YES

✓ h. Cranes and Hoists BRIDGE CRANE

i. Telephone/Telecommunication Systems (Activity provide description of system function and type) 50 PAIR

j. Other (describe) INTERCOM & PA SYSTEM, HYDRAULIC LIFTS CENTRAL LUBE, ENGINE EXHAUST.

14. System Safety and Hazard Analysis

a. Has Activity prepared preliminary hazard analysis? No

b. Safety plan and hazardous analysis required by designer: yes (no)
(predicated on Items a., b., and c. above coordinate this item with Code 408. MIL-STD-882 provides scope.)

c. Identify Hazardous substances requiring consideration in design:
(Identify areas requiring investigation to determine existence of asbestos, or other toxic substances)

NO ADVERSE HAZARDOUS ENVIRONMENTAIL IMPACT. DESIGN CONSIDERATION TO INCLUDE CONSIDERATION FOR MOTOR NOISES, EXHAUST, BATTERY ACID & GASOLINE/ DIESEL FUEL FUMES

d. Identify Personnel safety measures required as part of facility design:
(Identify known hazards to personnel performing design services)

NONE

15. Demolition Proposed: NONE

16. Easements, Air and Water Discharge Permits Required: (define permit required, who approves and action plan) (coordinate with Activity and Code 114).

NONE

17. Special Building System Security Requirements: (Explain)

NONE - FENCING

18. List Significant Equipment from Other than MCON Appropriations: (Collateral equipment which requires interface with project design - existing and to be procured - proposed procurement schedule (from Activity))

NONE

19. Utilities:

a. Points of Connection Proposed: (Subject to designer verification) (PM coordinate with Activity and/or Code 11)

Water

Sewer

Power

Steam

Telephone 50PAIR

Fire Alarm RADIO

SEE UTILITY SITE PLANS FOR POINTS OF CONNECTION

b. Restrictions on Utility Interruptions: (Discuss restrictions on utility system outages beyond routine and the need for maintaining constant service requiring construction of temporary utilities)

NONE

20. Construction Procurement Strategy

a. Number of Construction Contracts: 1

b. Proposed Construction Period: (Coordinate with Code 05 Area Manager) (If construction period based on specific date of operational need, provide basis; Identify Total construction period, any specific work sequences required, and interim critical completion dates)

c. Applicability of Standard Liquidated Damages: (Discuss only if deviation from standard proposed; state amount and provide justification)

d. Methods of Procurement Proposed:

(1) Competitive Bid (Firm-Fixed-Price)
(2) SBA-8(a)
(3) Competitive Negotiation (Justification required)
(4) Sole-Source (Justification required)
(5) CPAF (Justification required)
(6) Prequalified Bid List (Justification required)
(7) Two-Step Procurement (Justification required)
(8) Source Selection (Justification required)
(9) Requirements Contract
(10) Indefinite Quantity Contract
(11) Experience Clause(s) (Justification required and recommended wording)

e. Security Requirements of A&E Contract:

f. Security Requirements of Construction Contracts:

g. Contractor Laydown Area: (Define if you expect restrictions by Activity which will lead to increased project cost)

21. Project Submittal Distribution:

	LANTNAVFACENGCOM	ACTIVITY	ROICC	TMD
Cost Model	2			
PED				
PED	7	1		
Cost Estimate	2			
Preliminary (35%)				
Plans				1
Outline Specification				1
Cost Estimate				
Basis of Design				1
BEAP Preparation				
Geotechnical Data				
VE Package	TO VE TEAM ONLY			
Prefinal				
Plans, Specifications				
Cost Estimate				
Interior Color/Finish Material				
Calculations, Environmental Permits				
All Marked Preliminary Submittal Data				

Final

Plans - Tracings Prints	Original 2 sets
Specifications	Bond 2 copies
Cost Estimate	2 copies
Calculations	1 copy
Field Notes, Reports, Studies, Permits	1 copy each
Interior Color/Finish Materials	1 set
All DMs furnished by LANTNAVFACENGCOM	

MAILING ADDRESSES: DIRECT DISTRIBUTION TO EACH ADDRESSEE BY A&E IS REQUIRED

LANTNAVFACENGCOM

Commander
Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511-6287

Attn: Code 09A2___,

CHESNAVFACENGCOM (When UPS procurement proposed from an appropriation "other than MCON")

(When facility provides space for hyperbaric systems or provides systems to be certified for breathing air)

Commanding Officer
Chesapeake Division
Naval Facilities Engineering Command
Washington Navy Yard
Washington, D. C. 20374

NORTHNAVFACENGCOM (Crane procurements refer to NAVFACINST 11450.1)

Commanding Officer
Northern Division
Naval Facilities Engineering Command
Building 77, Naval Air Engineering Center
Philadelphia, Pennsylvania 19112

ACTIVITY

Other Distribution: (List)

19. Submittal of Invoices:

a. When to Invoice:

TO SIMPLIFY INVOICE PROCEDURES, WE PREFER THAT YOU INVOICE UPON COMPLETION OF REGULARLY SCHEDULED SUBMITTALS (75%, PREFINAL (90%), 100%).

b. How to Invoice:

Requests for payment consist of two parts, A and B, which should be forwarded as follows:

Part A (Invoice): (Refer to A&E Guide)

All invoices must contain the following:

(1) Invoice (with original signature)

(2) Contract Performance Statement (1 copy)

(3) Affidavit (with original signature)

(a) Notary signature required for Virginia firms.

(b) Notary signature and notary stamp or raised seal required for firms located out of the State of Virginia

Submit all invoices to:

Commander (Code 09A24)
Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511-6287

Part B (Supporting Documents): (Submit 10 days prior to Part A)

Supporting documents must contain the following:

(1) Contract Performance Statement (2 copies)

(2) Progress submittals - evidence supporting your work completed (i.e., copy of plans, studies, reports, field notes, minutes of meetings held).

11010
PWO

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commandant of the Marine Corps (LFL/MAJ Tiberg)
Via: (1) Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA 23511-6287 (Attn: 09A2131/Code 407)
(2) Commander, Naval Facilities Engineering Command, 200 Stovall Street, Alexandria, VA 22332

Subj: FY 91 MILITARY CONSTRUCTION (MCON) PROJECT P-807 DRIVER TRAINING SCHOOL, MARINE CORPS BASE, CAMP LEJEUNE

Ref: (a) My ltr 11000 PWO dtd 12 May 87
(b) PHONCON btwn MAJ Tiberg (CMC) and Mr. W. L. Brant (MCB, CamLej) of 27 Aug 87

Encl: (1) FY-91 MCON Project P-807, Driver Training School documentation consisting of revised DD Form 1391 dtd 27 Aug 87, Facility Study with NAVFAC 11013 Cost Estimate, Facilities Planning Documentation and approved NAVMC Form 11069 Request for Site Approval with Site Location Map

1. The subject project was submitted as enclosure (4) to reference (a). During reference (b), it was brought to Headquarter's attention that FY-91 MCON Project P-893 (BEQ's for Camp Johnson) was not programmed at the Headquarters level and the utility improvements that were a part of P-893 should be a part of FY-91 MCON Project P-807 (Driver Training School). In accordance with reference (b) the enclosure is provided.

2. The subject project estimated cost has increased from $9.000K to $10.200K

3. The Atlantic Division, Naval Facilities Engineering Command is requested to certify the cost of the subject project as shown by enclosure (1) to the Commander, Naval Facilities Engineering Command with copies to CMC and this Command.

4. Point of Contact for this Command is Mr. W. L. Brant on AV 484-1833 or commercial (919) 451-1833.

B.W. ELSTON
By direction

Copy to:
CMC (LFL) (advance)
NAVFACENGCOM (advance)

Blind copy to:
FAC
CO, MCSSS

Author: K. Foskey
Typist: M. Thompson
9-3-87, 1833

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		27 Aug 87

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NC 28542	DRIVER TRAINING SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	171-10	P-807	10,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DRIVER TRAINING FACILITY	SF	116,022	-	5,629
Academic Instruction Bldg.	SF	26,539	64.00	(1,698)
Applied Instruction Bldg.	-	-	-	-
Pre-Engineered Bldg 4 @ 70x250	SF	70,000	32.50	(2,275)
Covered Shelters 2 @ 38x68	SF	5,168	22.50	(116)
Vehicle Maintenance Shop	SF	14,090	61.00	(860)
Dispatch Bldg.	SF	225	64.00	(14)
Built-In Equipment	-	-	-	(666)
SUPPORTING FACILITIES	-	-	-	3,590
Special Construction Features	LS	-	-	(100)
Utility connections	LS	-	-	(546)
Misc. Utility Improvements	LS	-	-	(1,046)
Comm and Fire Alarm System	LS	-	-	(58)
Pavement	LS	-	-	(1,274)
Wash Aprons	LS	-	-	(225)
Site Improvements	LS	-	-	(100)
Misc Structures (drive-up ramp,	-	-	-	-
Fording pit, fuel pumps, etc.)	LS	-	-	241
SUBTOTAL	-	-	-	9,219
CONTINGENCY 5%	-	-	-	461
TOTAL CONTRACT COST	-	-	-	9,680
SIOH 5.5%	-	-	-	532
TOTAL REQUEST				10,212
TOTAL REQUEST ROUNDED				10,200
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				-0-

10. Description of Proposed Construction:

Construct a permanent masonry academic instruction building consisting of reinforced concrete foundation and floors, structural steel framing, masonry walls, built-up roof and insulation with steel joist and interior support systems (i.e.: HVAC system, communication and fire alarm systems, etc.) Construct a vehicle maintenance shop with high bays of structural steel framing and reinforced concrete foundation and floors with masonry walls, and built-up roof and insulation. Interior support systems (HVAC, communications and fire alarm system, compressed air, central lube system, hydraulic lifts, overhead bridge crane, engine exhaust system etc.) storage for POL, hazardous, and flammable storage. Provide and erect four 70'x250' pre-engineered buildings for applied instruction to include reinforced concrete foundation

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10. Description of Proposed Construction:

and floors, structural steel framing, metal walls and roof systems with steel joist and engine exhaust systems. Exterior support systems for the Driver Training Facility include, wash aprons with pollution control, 2-38'x68' shelters with concrete floors, fencing and lighting, pavement, site improvements, fording pit, interior and exterior utility connections. Provide miscellaneous improvements to steam, water, sewer and electrical utilities.

11. REQUIREMENTS:

PROJECT: Construct an Academic/Applied/Vehicle Maintenance Facility as permanent facilities for the East Coast Consolidated Driver Training School.

REQUIREMENT: Provide adequate facilities for training military personnel in the operation of various types of organizational vehicles along with first and second echelon maintenance. The East Coast Consolidated Driver Training School maintains over 400 pieces of rolling stock and employs approximately 110 instructions and 20 vehicle maintenance workers. The school provides academic instruction for 3,334 students annually in the following courses:

Motor Vehicle Operator's Course (MVOC)	249 Hours
Automotive Organizational Maint.Course (AOMC) (Driver Training portion only)	118 Hours
Tractor Trailer Operator Course (TTOC)	168.65 Hours
Semi-Trailer Refueler Operator Course (SROC)	67 Hours
Vehicle Recovery Course (VRC)	189 Hours

The applied instruction section provides training of personnel on first and second echelon maintenance utilizing 100 vehicles at any given time.

CURRENT SITUATION: The MVOC is a new mission and no facilities exist in the Camp Johnson Area that can be utilized in support of this mission. Existing inadequate facilities in the Camp Geiger area will be utilized until new construction is completed.

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IMPACT IF NOT PROVIDED: The training of Marine Corps personnel will continue in facilities which are not conducive to a good learning experience which will continue to impair the effectiveness of the training program.

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SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement and Control: This project will not cause additional air or water pollution.

2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.

3. Environmental Impact: The project Environmental Impact Assesssment will be reviewed, and where required, the design concepts given consideration to eliminating adverse enviroinmental effects consistent with applicable directives.

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

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

6. Use of Air conditioning: Ceiling "U" factors will be made to conform with DOD 4270.1-11.

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.

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FACILITY STUDY

1. Project: Provide 116,022 SF of Applied/Academic/Vehicle Maintenance Shopo Facilities for the East Coast Consolidated Driver Training School at Camp Johnson.

2. Current and Planned Future Workload with Regard to this Project: The percentage of usage for this facility is 100% of the time, and the duration of need is indefinite. It can only be anticipated that the future workload will increase as the East Coast Consolidated Driver Training School is established.

3. Description of Proposed Construction:

a. Type of Construction:

(1) Construct a permanent masonry academic instruction facility of reinforced concrete foundation and floors, structural steel framing, masonry walls, built up roof and insulation, steel joist, and interior support systems (i.e.: HVAC system, communication and fire alarm systems, etc.) Construct a vehicle maintenance shop with high bays of structural steel framing and reinforced concrete foundation and floors with masonry wallls and bult-up roof and insulation. Interior support systems(i.e.: HVAC, communication and fire alarm system, compressed air, central lube system, hydraulic vehicle lifts, overhead bridge crane, engine exhaust systems, etc.) storage for POL, hazardous and flammable storage.

(2) Provide and erect four 70'x250' pre-engineered buildings for applied instruction to include reinforced concrete foundation and floors, structural steel framing, metal walls and roof systems with steel joist and engine exhaust systems.

(3) Exterior support systems for the Driver Training Facility includes wash aprons with pollution control, 2-38'x68' shelter s with concrete floors, fencing and lighting, pavement site improvements, fording pit, interior and exterior utility connections, driver maneuver skills road test. Provide miscellaneous improvements to steam, water, sewer and electrical utilities.

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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: Permanent reinforced concrete/steel/masonry academic instruction building with built-up roof and insulation, HVAC. A reinforced concrete/steel/masonry vehicle maintenance shop with high bays built-up roof and insulation, engine exhaust systems, hydraulic vehicle lifts, central lube systems, compressed air, overhead bridge crane, HVAC. Provide and erect four pre-engineered buildings 70'x250' for applied instruction with metal walls and roof systems, engine exhaust systems, reinforced concrete foundation and floors. 2-38'x68' shelters with concrete floors and metal roof systems; other supporting facilities include, driver maneuver skills road test, wash aprons with pollution control, fencing and lighting, pavements, site improvements, fording pit interior and exterior utility connections, and utility improvements to water, steam, sewer and electrical.

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

(3) Collateral Equipment: See Enclosure (1).

(4) Supporting Facilities: Special piling, foundation collateral equipment, site improvements, and pollution abatement utility connections.

4. Cost Estimate: Area cost factor for Camp Lejeune, NC is 0.86, cost data derived from the Military Construction Cost Review Guide, FY-84 (DOD 4270.1-CG), and escalated to FY-91. See enclosure (2).

5. Justification for Project and for Scope of Project:

(1) Project: Project is required to provide adequate applied and academic instructional facilities for the East Coast Consolidated Driver Training School (Motor Transport

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School). Proposed complex will include total facilities in support of the MVOC; i.e., applied/academic facilities; administrative space, and supply requirements. The number of students to receive training per year at this facility will be approximately 3,334 persons. Two branches of the U. S. Marine Corps Motor Transport School is to exist, one will be located here at Marine Corps Base, Camp Lejeune and the other at Camp Pendleton, California.

(2) Current Situation: The Motor Vehicle Operators Course (MVOC) is a new mission and no facilities exist in the Camp Johnson area that can be utilized in support of this mission. Existing inadequate facilities in the Camp Geiger area will be utilized until new construction is completed.

(3) Impact if not Provided: Operation of the MVOC in inadequate facilities will result in impaired teaching capabilities.

b. Justification for Scope of Project: The project scope (116,022 SF) is the minimum size facility that can meet the schedule of classes for the Motor Transport School needs. The indicated scope was taken from the "Outline of Instruction Motor Transport Formal Courses prepared for Fiscal Year 1987, by the Marine Corps Service Support Schools (MCSSS), Marine Corps Base, Camp Lejeune, and the Schedule of Classes for Fiscal Year 1987 (first revision). See Item 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: This project will require increased O&MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. Proposed construction will be responsive to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977, and implemented by NAVFACINST 4100.5A.

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9. Siting of the Project: The project will be located in the Camp Johnson area of Camp Lejeune. See enclosure (2).

10. Other Graphic Presentations, including Photographs: See Facility Planning Document, enclosure (3).

11. Economic Analysis: This facility is being constructed on an undeveloped site in the Camp Johnson area. Economic savings will be in nominal energy consumption 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:

Facilities Square Footage

I. Classroom Spaces:

a. General Academic (Cat Code 171-10) In accordance with NAVFAC P-80:

Classroom Space Requirement Computation

Course	Duration in days (DD)	Annual % (AF)	Pupils p/Class (S)	Annual Input (AI)	Student AOB*	NSF/SF Student (NSF)	Reqmt Net Area**
MVOC	34	29	50	1450	198	19.5	5791.5
AOMC	15	38	40	1520	92	20.0	2760.0
TTOC	24	7	30	210	21	21.0	661.5
VAC	26	3	30	90	10	21.0	315.0

*Student Avg on Bd (AOB) = $\frac{\text{Duration (DD) x Annual Input (AI)}}{\text{250 (Classroom Days Per Year)}}$

**Required NSF Area = AOB x NSF x 1.5

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Round all fractions to the next highest whole number
School year = 250 class days

NSF = Select proper SF/student from Table 171-A according to type of installation
CDP = Course Data Processing Code
AF = Number of times course is taught per year
AI = Number of students trained annually AI = (AF) x (S)

1.5 = A utilization factor required to compensate for the inability to completely schedule classes and fully use class-room capacity.

Number of Classrooms Required:

MVOC 4;	50 PN classes @ 1447.87 NSF	=	5,791.5 NSF
AOMC 3;	40 PN classes @ 920 NSF	=	2,760.0 NSF
TTOC 1;	30 PN class @ 661.5 SF	=	661.5 NSF
VRC 1;	30 PN class @ 315.0 SF	=	315.0 NSF
Total: 9 Classrooms		=	9,528.0 NSF

b. Modified Academic space (Cat Code 171-10):

Defensive Drivers Course & Licensing Class

50 Students @ 30 NSF = 1,500 NSF

c. Hands-On Mock Up Spaces (Cat Code 171-20):

In accordance with NAVFAC P-80:

Planning Formula for Determining Floor Requirements for Hands-on Mock-up space.

Formula: A = B (CD + E)

Definitions:

A = Area of classroom in net SF.

B = Number of items of practice equipment required. This figure is obtained by dividing C into the average number of students in each class session.

C = Number of students assigned to each item of practice equipment.

D = Net SF of floor area required for one student working on an item of practice equipment.

E = Net SF of floor area occupied by one item of practice equipment. Includes clearances and aisles. Human engineering factors, including safety, must be considered. In cases where student working areas (Item D) partially overlap equipment clearance areas, insure that the space requirements are not duplicated.

(1) Motor Vehicle Operators Course:

A = 25 [(2 x Ø) + *7ØØ]
A = 17,5ØØ NSF Typical for 1 class.

17,5ØØ x 4 classes = 7Ø,ØØØ NSF Total Required.

*This figure includes student working area, equipment clearance area, aisles and safety factor.

(2) Tractor Trailer Course & Vehicle Recovery Course:

A = [(3Ø x Ø) + *2,584]
A = 2,584 NSF

(3) Semi-Trailer Refueler Operators Course:

A = [(3Ø x Ø) + *2,584]
A = 2,584 NSF

(4) Tire Repair Shop/Class:

A = [(2 x 2Ø) + 35]
A = 1,875 NSF

*This figure includes student working area, equipment clearance area, aisles and safety factor.

Total Hands-On Mock-Up space:

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II. Support Spaces:

a. Instructor's Work Space

12 Instructors @ 60 NSF = 720 NSF

b. Instructors Lounge:

450 NSF Fixed Allowance

c. Student Break Area:

Maximum number of students to break at a given time = 100 PN.
100 PN x 6 NSF = 600 NSF

d. Library:

(1) Reading Area

12 PN (Instructors @ 25 NSF) = 300 NSF

(2) Stack Area

(700 Volumes ÷ 100) x 6.6 NSF = 46 NSF

(3) Film/Video Tape Storage

(100 reels ÷ 50) x 9 NSF = 18 NSF

(4) Fiilm/Video Tape Viewing Room

100 NSF fixed allowances

(5) Staff Area: This library will be for Instructor's therefore no additional space is required.

Total Library space: 464 NSF

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e. Administrative Space: (Cat Code 610-10):

Officer in Charge	100 NSF
Assistant Officer in Charge	100 NSF
License Officer	100 NSF
Clerical Positions = 2 @ 60 NSF	120 NSF
Conference Room (15 PN)	375 NSF
File Area = 25 Legal @ 7 NSF	175 NSF
Total Administrative Space	970 NSF

f. Training Aid Storage:

380 Students x 1.5 NSF ..... 570 NSF

g. Other Support Spaces:

(1) Tool Rooms: One tool room required to support each Motor Vehicle Operators Course Class (4 total).

4 Tool Rooms @ 216 NSF = 864 NSF

(2) Storage (OVE):

Storage space is required to store all vehicle organic equipment for the Driver's Training School. The School's table of equipment indicates over 400 pieces of rolling stock assigned.

The school has indicated a requirement of 3,200 NSF.

(3) Dispatch Office: (171-20)

15'x 15' = 225 NSF

(4) Classified Storage: A classified storage area is required for storing student personnel records.

12' x 12' = 133 NSF

Total Support Space = 4,433 NSF

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III. Circulation and Service Areas:

(1) Classroom Space:

a.	General Academic	9,528 NSF
b.	Modified Academic	1,500 NSF
c.	Hands-On Mockup	*77,043 NSF
	Total Class Space:	95,460 NSF

(2) Support Spaces:

a.	Instructor's Work Space	720 NSF
b.	Instructor's Lounge	450 NSF
c.	Studen Break Area	600 NSF
d.	Library	464 NSF
e.	Administrative Space	970 NSF
f.	Training Aid Storage	570 NSF
g.	Other Support Spaces	4,433 NSF
		8,207 NSF

(9,528 NSF + 1,500 NSF + 8,207 NSF) 1.33 = 25,583 SF

*Hands-On Mock-up class space was not used in this calculation since circulation and service areas had already been considered.

Total Requirement: 77,043 + 25,583 = 102,626 SF

IV. Automotive Vehicle Maintenance Shop (Cat Code 214-20):

In accordance with NAVFAC P-80:

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MT School Company T/E

Motor Transport Class VII

Nomenclature	TAMCN	Eqpt Cost Code	T/E Allow	Prod. Space Factor	Rpr Bay Reqmt
Steam Cleaner, TRLR MTR4D	D0090	0800	5	.016	.080
Lubrication and Servicing Unit	D0910	0800	3	.016	.048
Semitrailer, Refueler M970	DO215	0300	4	.023	.092
*LVS Front Unit MK48	DO209	0300	20	.023	.460*
Semitrailer XM1000	DO225	0800	1	.016	.016
Semitrailer, Stake M127	DO260	0800	12	.016	.192
Trailer, Cargo 1/4 Ton, M416	DO480	0800	26	.016	.416
Trailer, Cargo, 1-1/2 Ton, M105	DO860	0800	25	.016	.400
Trailer, Tank, Water 1-1/2 Ton M149	DO880	0800	2	.016	.032
Container Hauler, MK14 (LVS)	DO876	0800	6	.016	.096
Wrecker, MK15 (LVS)	DO877	0300	4	.023	.092
Fifth Wheel, MK16 (LVS	DO878	0300	4	.023	.092
Dropside Crane, MK17 (LVS)	DO879	1100	6	.020	.120
Truck, Ambulance M718	DO890	0102	1	.015	.015
Truck, Ambulance M1035 (HMMWV)	D100Z	0102	1	.015	.015
Truck, cargo, 1 1/4 Ton, M10087 (CUCV)	D1016	0300	23	.023	.529
Truck, Cargo, 5T, 6x6, M923/M925/ M813/M810	D1059	0300	128	.023	2.944
Truck, Shelter Carrier, M1028 (HMMWV)	D1105	0300	2	.023	.046
Truck, Tank, Fuel Servicing M49	D110	0300	4	.023	.092
Truck, Tractor, 5T, 6x6, M931	D1134	0300	14	.023	.280
Truck, Utility, Cargo M998 (HMMWV)	D1158	0300	92	.023	2.116
Truck, Utility, Cargo, M151	D1160	0300	61	.023	1.403
Truck, Wrecker, M543	D121D	0300	1	.023	.023
Truck, Wrecker, M936	D1212	0300	2	.023	.046
			447		9.188

Total number of Repair Bays (rounded) = 10

1. COMPONENT	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		27 Aug 87

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

4. PROJECT TITLE	5. PROJECT NUMBER
DRIVER TRAINING SCHOOL	P-807

In order for repair bays to be functional for all variations of the indicated vehicles and equipment, a 16'x35' (typical) bay is required.

10 bays x 560 SF = 5,600 SF

*Repair space for support of the LVS (MK-48) was not included. A separate drive-thru repair bay of 1,120 SF (16' x 70') is required.

Total Vehicle Maintenance Shop Requirement:

10 Repair Bays (16' x 35')	= 5,600 SF
1 Drive Thru (LVS) (16'x70')	= 1,120 SF
Administrative and Indirect Support (From table 214-20D for 10 bays)	= 3,100 SF
Direct Support (From table 214-20D for 10 bays)	= 4,270 SF
	14,090 SF

Summary:

Facilities:

Academic Instruction Bldg (171-10)	24,664 SF
Applied Instruction Facilities (171-20)	77,043 SF
Dispatch Bldg. (171-20)	225 SF
Vehicle Maintenance Shop (214-20)	14,090 SF
Total Requirement	116,022 SF

14. Maintenance Facilities: Not appliable.

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

16. Relocation Facilities: Not applicable.

17. Storage Facilities: Not applicable.

1. COMPONENT	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		27 Aug 87

3. INSTALLATION AND LOCATION	
MARINE CORPS BASE, CAMP LEJEUNE, NC 28542	
4. PROJECT TITLE	**5. PROJECT NUMBER**
DRIVER TRAINING SCHOOL	P-807

18. Hazard Identification, Assessments 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

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

DATE 29 Jul 87

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

2. PROJECT TITLE
DRIVER TRAINING FACILITY FY 91

P. NO. P-807

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:	*Compressed Air System		Sys		
	*Sprinkler System		Sys		
	*Telephone, Intercom and Fire Alarm		Sys		
	*Ceiling Mounts for ITV Monitors		Sys		
	*Instructor Platforms for 6 Lecture Type classrooms (raised)		Ea		
	*Public Address Sys in the 4 Driver Training Shelters and Maintenance Shop		Sys		
	*Deep sinks/Lavatories throughout facility		Ea		
	*Exhaust Gas Removal System for all vehicles Trng Bays and Shop Maintenance Bays		Ea		
	*Tier arrangement for seating in 6 classrooms		Sys		
	*Chalkboards, wall mounted		Ea		
	*Deluge Shower and Eye Wash CW (for battery shop)		Ea		
	*Steam cleaning System for Maintenance Shop Wash rack w/50' hose		Sys		
	*High pressure water system for cleaning vehicles at all wash racks w/high pressure hose		Sys		
	*External Storage for Lubricants, hazardous material and paint		Ea		
	*Overhead Crane (for LVS)		Ea		

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

DATE JUL 29 1987

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

2. PROJECT TITLE
DRIVER TRAINING FACILITY

P. NO. P-807

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	*Lift, floor hydraulic	Ea			
1. Built-In Equipment to be MCON Funded: (cont'd)	*Overhead Lube and Air Sys. for Maintenance Shop		Sys		
	*Overhead Drop Light, HD for Maintenance Shop Bays		Ea		
	*Drainage system for Vehicles Lubricants, in floor for Maint Shop		Sys		
	*Ventilation System (for battery room)				
	*Issue window for all tool rooms and dispatch office		Ea		
	*Hand wash, Round w/foot control (for maint. shop)		Ea		
	*Lockers (small) and showers in lavatories of Maint Fac.		Ea		
	*Bins for handout material 11"x12"x6" (20 classrooms) (fabricate)		Ea		
	*Front wall of classroom 1 & 2 should have a smooth dry white surface to be used as projection screen		Ea		
Equipment with associated installation cost.					
2. Expense Items:					
4910-00-543-7772	Work bench	38	ea	204.13	7,757
7240-00-160-0440	Can, trash garbage	57	ea	16.70	952
6645-00-530-3342	Clock, wall electric	25	ea	8.55	214
5120-00-293-1439	Vice, machinist's bench	11	ea	58.00	638
3415-00-517-7754	Grinder, bench mounted	3	ea	80.12	240
4940-00-449-6689	Parts cleaner-degreaser	4	ea	441.00	1,764

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

DATE JUL 2 0 1987

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

2. PROJECT TITLE
DRIVER TRAINING FACILITY

P. NO.
P-807

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
3920-01-113-0117	Truck, hand, 2 wheeled	1	ea	85.19	85
7125-00-285-2420	Cabinet, storage	8	ea	136.58	1,093
7125-00-269-8534	Cabinet, storage	4	ea	139.93	560
7110-00-740-8931	Desk, single ped	21	ea	262.00	5,502
7110-00-082-6226	Chair, straight w/o arms	228	ea	31.81	7,253
7110-00-143-0821	Office table, 45"x34"	1	ea	164.00	164
7110-00-286-3798	Cabinet, file, 5 dwr	14	ea	135.51	1,897
7520-00-285-5416	Waste paper basket	26	ea	2.40	62
7520-00-292-9421	File, horizontal, desk	29	ea	13.97	405
7195-00-912-9445	Bulletin Board (small)	4	ea	10.12	41
7195-01-099-3444	Bulletin Board (large)	2	ea	361.25	723
7110-00-601-9822	Bookcase 32x13	20	ea	82.92	1,658
7110-00-177-4902	Office table 60"x30"	156	ea	125.00	19,500
7125-00-297-3795	Rack, storage, drum	4	ea	508.17	2,033
4110-99-001-0984	Refrigerator	1	ea	329.00	329
7110-00-132-6554	Desk, typist	3	ea	173.00	519
7110-00-089-6791	Chair, rotary w/arms	24	ea	63.03	1,513
4910-00-190-5235	Tire tube leak detector (tank testing tire & tube) S/S B-14	2	ea	849.00	1,698
7430-00-461-9536	Typewriter, electric	4	ea	405.00	1,620
7420-00-989-1605	Adding Machine, electric	3	ea	151.20	454
7520-00-162-6178	Sharpener, pencil	11	ea	3.45	38
6230-00-299-7771	Desk, lamp	21	ea	53.00	1,113
7195-00-262-6647	Coat rack	10	ea	21.45	215
7110-01-192-6173	Desk, computer	1	ea	430.00	430

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

DATE 29 Jul 87

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

2. PROJECT TITLE
DRIVER TRAINING FACILITY

P. NO. P-807

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)					
7110-00-958-8044	Chair, rotary w/o arms	4	ea	57.72	231
7110-00-177-4901	Office, table 36"x24"	11	ea	90.00	990
7110-00-758-6146	Desk, double pedestal	4	ea	411.00	1,644
7110-01-157-8296	Couch, lounge	4	ea	330.00	1,320
6230-01-C00-0001	Lamp, table	4	ea	37.80	151
7125-00-297-3393	Rack, Tire storage	4	ea	40.00	160
7240-00-256-7700	Waste Can, flammable mat'l	5	ea	19.00	95
7125-01-C00-3832	Cabinet, flammable storage	2	ea	454.80	910
5120-00-234-1372	Vise, bench (small)	26	ea	9.00	234
4910-00-204-2448	Safety cage, tire repair (for 1400 x 20 tire)	25	ea	898.06	22,452
7195-00-C00-0049	Lecturn w/wheels	12	ea	95.00	1,140
4910-00-675-1478	Mounter/demounter (tire machine auto changer) pneumatic tire, floor mounted, power capacity range 7-1 through 14-24, motor elect. 2HP capacitor type 60HZ, 230V, 12.6 amp requires 30 amp circuit breaker. Installation Installation req'd 11'dia. working space. Non-definitive spec/std data type 3, RN difference capacity differentiated by tire, type and size range, Part #931A	1	ea	3164.00	3,164
4210-00-720-1815 S9C	Fire Extinguisher, fire 2-1/2 gal, water, s/s w/hanging bracket	12	ea	29.08	349
4210-01-202-7858	Extinguisher, fire, 15 lb cap. CO2, carbon monoxide, hand operated w/hanging bracket	10	ea	91.98	920

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

DATE JUL 20 1987

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

2. PROJECT TITLE
DRIVER TRAINING FACILITY

P. NO. P-807

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)					
Brodhead-Garrett Co.	Shelving, closed 8 shelves per unit #461260 36x24x85 (102)	8	ea	267.00	2,136
	Add on units for above #461282 (C102A)	60	ea	245.00	14,700
McMaster-Carr POB 440 New Brunswick, NJ 08903	Charger, multiple charging station, 10 charging circuits can handle up to 10-12V or 20-6V batteries at once or any combination of sizes for charges up to 50 Amps. #7047K5, pg 1284, cat 90	2	ea	416.44	833
	Charging Stand #7239K1	2	ea	124.08	248
	Charging lead set (24" #10 leads) pg 1284, cat 90	20	ea	12.17	243
	Steel Shelving, industrial #4586T16, closed shelf unit	50	ea	112.69	5,635
	Shelf quick clips	100	ea	.22	22
OP	Draperies & hardware	8	ea	90.00	720
	Total Expense Items:				118,767

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

DATE 29 Jul 87

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

P. NO P-807

PROJECT TITLE
DRIVER TRAINING FACILITY

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
APA Equipment:	Not Applicable.				
Training Eqpt:					
6730-LL-323-0232	Projector, 35mm slide	7	ea	145.00	1,015
6730-LL-C00-3889	Projector, Overhead	7	ea	263.00	1,841
5820-01-C00-1049	Player, videocasestte	7	ea	996.00	6,972
5820-01-C00-1058	Monitor, ITV (ceiling mtd)	13	ea	475.00	5,395
6730-01-C00-1098	Projector Stand	7	ea	109.00	763
6730-01-C00-1400	Projector Stand	7	ea	165.00	1,155
6760-00-514-2384	Projector Stand	14	ea	108.00	1,512
	Total				19,433

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 27 Aug 87

SHEET 1 OF 4

ACTIVITY AND LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: P-807

ESTIMATED BY: W. L. BRANT

CATEGORY CODE NUMBER: 171-10

PROJECT TITLE: DRIVER TRAINING SCHOOL

JOB ORDER NUMBER:

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (Specify) Project

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
FACILITIES:								
ACADEMIC INSTRUCTION BUILDING	26,539	SF					64.00	1,698,500
APPLIED INSTRUCTION FACILITIES:								
PRE-ENGINEERED BLDG (4/70'X250')	70,000	SF					32.50	2,275,000
COVERED SHELTERS (2/38'X68')	5,168	SF					22.50	116,280
VEHICLE MAINTENANCE SHOP	14,090	SF					61.00	859,490
DISPATCH BLDG. (15'X15')	225	SF					64.00	14,400
BUILT-IN EQUIPMENT:								
HVAC SYSTEM	1	LS						280,000
ENGINE EXHAUST SYSTEMS	76,720	SF					2.90	222,488
HYDRAULIC VEH LIFTS (34,000 lb)	2	EA					17,000	34,000
BRIDGE CRANE	10	TN					4,000	40,000
COMPRESSED AIR SYSTEM	8,595	SF					1.35	11,600
CENTRAL LUBE SYSTEM	8,595	SF					2.10	18,050
PUBLIC ADDRESS SYSTEM	1	LF					10,000	10,000
WASTE OIL SYSTEM (UNDERGROUND)	1	LF					50,000	50,000
FIRE ALARM & COMM	38,715	SF					1.50	58,073
OMSI	1	LS						48,000

ENCL (2)

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 27 Aug 87

ACTIVITY AND LOCATION: MARINE CORPS BASE
CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: P-807

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STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (Specify) Project

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
SUPPORTING FACILITIES:								
SPECIAL CONSTRUCTION FEATURES	1	LS						100,000
SITE IMPROVEMENTS & CLEARING	25	AC						100,000
WASH APRONS (20/20'x40')	30	EA						225,000
(10/20'x60')	-	-						-
STORAGE: POL, HAZARDOUS WASTE	800	SF					32.50	26,000
FLAMMABLE, PAINT, ETC.	-	-						-
DRIVE ON RAMP	1	EA					10,000	10,000
UNDERGROUND FUEL STORAGE (DIESEL)	10,000	GA					4.50	45,000
UNDERGROUND FUEL STORAGE (GAS)	2,000	GA					4.50	9,000
FUEL PUMPS; TWIN OUTLET	5	EA					5,000	25,000
PAVEMENT: REINFORCED CONCRETE	2,000	SY					31.00	62,000
PAVEMENT: BITUMINOUS PAVEMENT	51,312	SY					17.35	890,263
PAVEMENT: CRUSHED STONE	42,435	SY					7.60	322,506
FORDING PIT (100'LX15'WX4'D)	1	EA					12,000	12,000
FENCING	4,000	LF					16.20	64,800
	-	-					-	-

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 27 Aug 87

SHEET 3 OF 4

ACTIVITY AND LOCATION: MARINE CORPS BASE
CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: P-807

ESTIMATED BY: W. L. BRANT

CATEGORY CODE NUMBER: 171-10

PROJECT TITLE: DRIVER TRAINING SCHOOL

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (Specify) Project

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
UTILITY CONNECTIONS;								
ELECTRICAL DISTRIBUTION	1,200	LF					185.00	222,000
WATER DISTRIBUTION	1,000	LF					33.35	33,350
STEAM DISTRIBUTION	600	LF					124.15	74,490
SANITARY SEWER	1,000	LF					89.30	89,300
COMMUNICATIONS	1,200	LF					50.00	60,000
STORM DRAINAGE	2,400	LF					28.00	67,200
UTILITY IMPROVEMENTS:								
STEAM AND CONDENSATE	800	LF					124.15	99,320
UPGRADE EXIST'G OH STEAM DIST	2,200	LF					172.00	378,400
SANITARY SEWER:								
REPL. FILTER PUMPS AT M-136	3	EA					10,000	30,000
PROVIDE COMMINUTOR (15"DRUM)	1	EA					20,000	20,000
SEWER PIPING	1,200	LF					32.30	38,760
WATER:								
ELEVATED STG TANK 250,000 GA	1	GA					400,000	400,000
ALTITUDE VALVE AT S-TT-40 TANK	1	EA					10,000	10,000

S/N 0105-LF-010-1335

* U.S. Government Printing Office: 1982—505-106/6911 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 27 Aug 87

SHEET 4 OF 4

ACTIVITY AND LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

PROJECT TITLE: DRIVER TRAINING SCHOOL

CONSTRUCTION CONTRACT NO.:

ESTIMATED BY: W. L. BRANT

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ XX Other (Specify) Project

IDENTIFICATION NUMBER: P-807

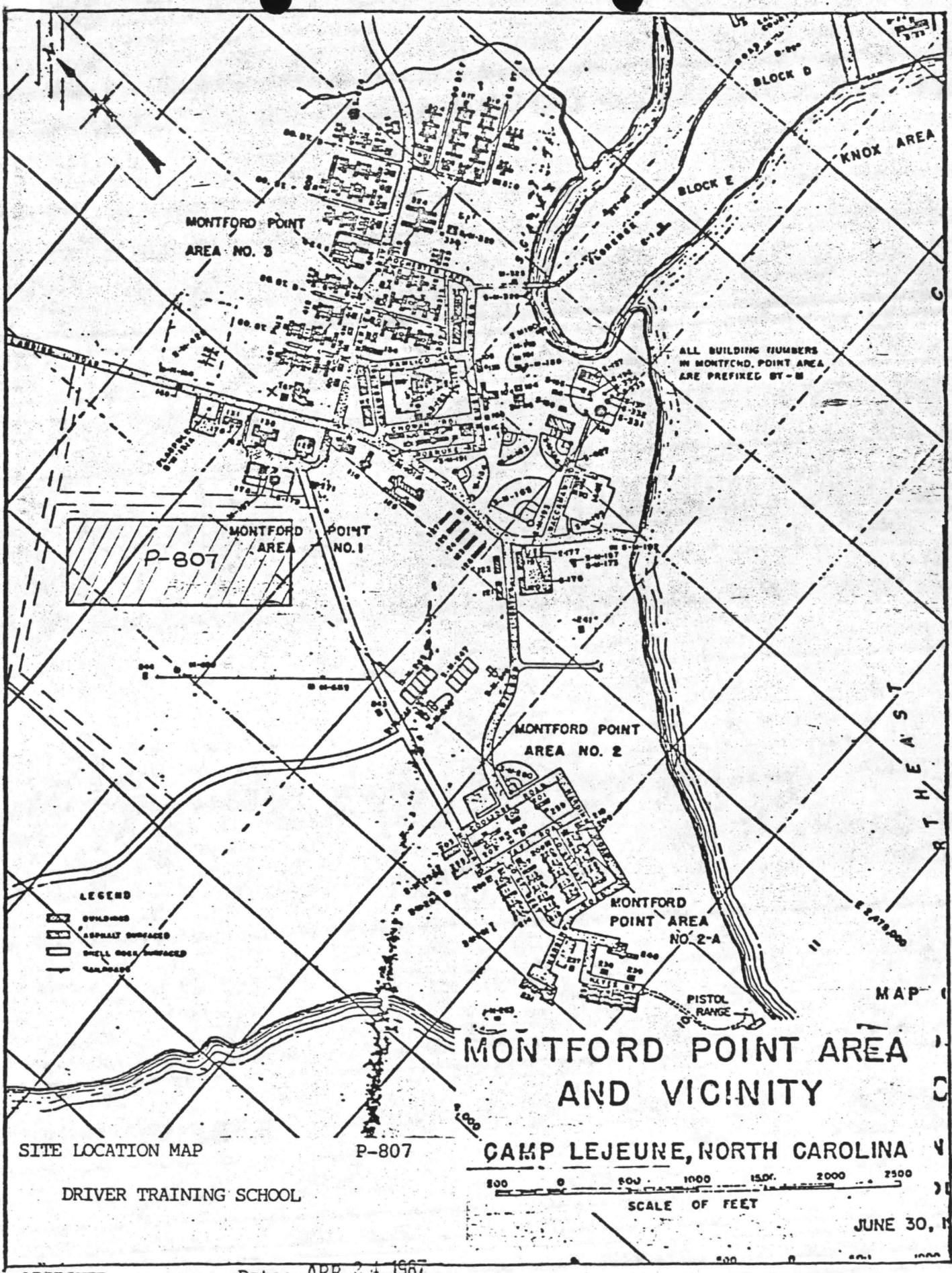
CATEGORY CODE NUMBER: 171-10

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY NUMBER	QUANTITY UNIT	MATERIAL COST UNIT COST	MATERIAL COST TOTAL	LABOR COST UNIT COST	LABOR COST TOTAL	ENGINEERING ESTIMATE UNIT COST	ENGINEERING ESTIMATE TOTAL
PUMP CONTROLS TO BLDG 670	1	LS					50,000	50,000
WATER PIPING	600	LF					33.25	19,950
SUBTOTAL								9,220,220
CONTINGENCY - 5%								461,011
TOTAL CONTRACT COST								9,681,231
S.I.O.H. - 5.5%								532,468
TOTAL REQUEST								10,213,699
TOTAL REQUEST (ROUNDED)								10,200,000

S/N 0105-LF-010-1335

★U.S. Government Printing Office: 1982—506-166/6911 2-1



SITE LOCATION MAP P-807

DRIVER TRAINING SCHOOL

APPROVED: Date: APR 24 1967

T. J. DALZELL. By direction

ENCL (2)

F A C I L I T I E S P L A N N I N G D O C U M E N T

TIME: 06.10.46 DATE: 04/24/87

ACTIVITY UIC....M67001 NAME....MCB CAMP LEJEUNE NC

SPEC AREA.....FA NAME....MONTFORD POINT

CATEGORY CODE...17120 DESCRIPTION...APPLIED INSTRUCTION BLDG

RQMT DATE.. 23 APR 87 LATEST CHG DATE.. 23 APR 87 RQMT APPRVL DATE.. 24 SEP 85

BASIC FAC RQMT	UM	FACILITY ASSETS ADEQUATE	DATA SUBSTNRD	INADEQUATE	OTHER	QUANTITY DEFICIENT	QUANTITY SURPLUS
208277	(SF)	10732		165959		197545	
	PN	142		2120			2262

O R E F A C I L I T I E S P L A N N I N G

FACILITY DETAIL

FAC NO	U	EE	C	ADEQUATE	SUBSTNRD	INADEQTE	DEF CODES	ACTION ID	SATISFACTION OF D	DEF/SURP SCOPE	NT
M203	N	80	P			9333	A30E03	USE	0	9333	
M113	N	80	P			9333	A30C30E03	USE	0	9333	
M326	N	80	P			9394	A30C30B03	USE	0	9394	
M520	N	80	P			2000	A30C30B03	USE	0	2000	
M122	N	80	S			6118	A30C30E03	USE	0	6118	
M219	N	76	P			3392	A30E03	USE	0	3392	
M202	N	80	P			12908	D30A30E03	USE	0	12908	
M411	N	80	P			3240	A30C30B04	USE	0	3240	
M422	N	80	P			8592	A30C32B03	USE	0	8592	
M255	N	80	P			9333	A30E03	USE	0	9333	
M409	Y	80	P			6444	A30C30B10	USE	0	6444	
M327	N	80	P			9394	A30C30B03	USE	0	9394	
M101	N	80	S			12760	A30C30B03	USE	0	12760	
M102	N	80	S			3072	A30C30B03	USE	0	3072	
M324	Y	80	P			20632	A30C30B03	USE	0	20632	
M132	Y	80	P			4400	A30C30B03	USE	0	4400	
SM329	N	80	S			3601	A30	USE	0	3601	
M-90	N	80	P	9132				USE	+	9132	
M-341	N		S	1600				USE	+	1600	
M211	N	80	P			3240	D30A30E03	USE	0	3240	
M212	N	80	P			3240	D30A30E03	USE	0	3240	
M213	N	80	P			3240	A30D30E03	USE	0	3240	
M214	N	80	P			3240	A30C30E03	USE	0	3240	
M217	N	80	P			3240	E04Q30E03	USE	0	3240	
M223	N	80	P			3240	E04A30E03	USE	0	3240	
M112	N	80	S			9333	A30C30B01	USE	0	9333	
M220	N	76	P			3240	D30A30E03	USE	0	3240	
ACQ								CONSTR P808	+	26961	01
ACQ								CONSTR P809	+	47700	02
ACQ								CONSTR P810	+	34009	03
ACQ								CONSTR P807	+	89483	04

TOTAL PROPOSED ADEQUATE ASSETS = 208885

NOTES FOR CATEGORY CODE.. 17120

STD NOTES: PENDING CMC APPROVAL

GEN NOTES: PROVIDE A LIST OF THE COURSES GIVEN, THE NUMBER OF CLASSES OF

Encl (4)

ACTIVITY UIC....M67001 NAME....MCB CAMP LEJEUNE NC
SPEC AREA.....FA NAME....MONTFORD POINT

CATEGORY CODE...17120 DESCRIPTION...APPLIED INSTRUCTION BLDG
CONTINUES

EACH. AND THE FREQUENCY OF EACH SESSION. PROVIDE AN EXPLANATION OF THE TRAINING AND OR MOCK-UP REQUIREMENTS.

FPD ACTION NOTES:

01 P808 FY86 PROPOSED MILCON WILL CONSTRUCT THE 1ST. INCR. OF A PLANNED 3 INCREMENT MECHANICS TRAINING BLDG. OF 26961 SF.

02 P809 FY 88 PROPOSED MILCON WILL CONSTRUCT THE 2ND. INCR. OF A PLANNED 3 INCREMENT MECHANICS TRAINING BLDG. OF 47700 SF.

03 P810 FY 90 PROPOSED MILCON WILL CONSTRUCT THE 3RD. INCR. OF A PLANNED 3 INCREMENT MECHANICS TRAINING BLDG. OF 34009 SF.

04 P807 FY 91 PROPOSED MILCON WILL CONSTRUCT 24,400SF OF ACADEMIC INSTRUCTION SPACE AND 89,483SF OF APPLIED INSTRUCTION SPACE FOR THE DRIVER TRAINING SCHOOL AT CAMP JOHNSON. ^R

END DATA FOR CATEGORY CODE 17120

F A C I L I T I E S P L A N N I N G D O C U M E N T

DATE: 04/24/87

TIME: 05.56.49
ACTIVITY UIC....M67001 NAME....MCB CAMP LEJEUNE NC
SPEC AREA.....FA NAME....MONTFORD POINT

CATEGORY CODE...17110 DESCRIPTION...ACADEMIC INSTRUCTION BLDG
RQMT DATE.. 23 APR 87 LATEST CHG DATE.. 23 APR 87 RQMT APPRVL DATE.. 29 SEP 86

BASIC FAC RQMT	UM	FACILITY ASSETS ADEQUATE	DATA SUBSTNRD	INADEQUATE	OTHER	QUANTITY DEFICIENT	QUANTITY SURPLUS
146602	(SF)		4840	110377		146602	
	PN		100	1524			1624

FACILITY DETAIL

FAC NO	U	EE	C	ADEQUATE	SUBSTNRD	INADEQTE	DEF CODES	ACTION ID	SATISFACTION OF DEF/SURP D	SCOPE	NT
M123	N	80	P			3240	A30C30E03	USE	Ø	3240	
M127	N	80	P			3240	A30C30E03	USE	Ø	3240	
M124	N	80	P			3240	A30C30E03	USE	Ø	3240	
M125	N	80	P			3240	A30C30E03	USE	Ø	3240	
M126	N	80	P			3240	A30C30E03	USE	Ø	3240	
M403	N	80	P			8592	A30E03B10	USE	Ø	8592	
M405	N	80	P			3240	A30C30E04	USE	Ø	3240	
M406	N	80	P			3240	A30C30B03	USE	Ø	3240	
M307	N	80	P			4449	A30C30B06	USE	Ø	4449	
M201	N	80	P			4440	A30E03	USE	Ø	4440	
M412	N	80	P			3240	A30C30B04	USE	Ø	3240	
M413	N	80	P			4480	A30C30B26	USE	Ø	4480	
M420	N	80	P			8592	A30C30B03	USE	Ø	8592	
M521	Y	80	P			1458	A30E03	USE	Ø	1458	
M323	N	80	P			3240	A30C30B02	USE	Ø	3240	
M104	N	76	S			13010	A30C30E03	USE	Ø	13010	
M132	Y	80	P			8276	A30C30B03	USE	Ø	8276	
M216	N	80	P			3240	A30C30E03	USE	Ø	3240	
M238	N	80	P			2000	A30	USE	Ø	2000	
M205	Y	80	P		400			USE	+	400	
M208	Y	80	P		400			USE	+	400	
M209	Y	80	P		400			USE	+	400	
M210	Y	80	P		400			USE	+	400	
M221	N	80	P			3240	E04A30E03	USE	Ø	3240	
M222	N	80	P			3240	E04A30E03	USE	Ø	3240	
M224	N	80	P			3240	E04A30E03	USE	Ø	3240	
M226	N	80	P			3240	E04A30E03	USE	Ø	3240	
M227	N	80	P			3240	A30E03E04	USE	Ø	3240	
M228	N	80	P			3240	A30E03E04	USE	Ø	3240	
M229	N	80	P			3240	A30E03E04	USE	Ø	3240	
M225	N	80	P		3240		E04A30E03	USE	+	3240	
ACQ								CONSTR P807	+	24400	01

TOTAL PROPOSED ADEQUATE ASSETS = 29240

NOTES FOR CATEGORY CODE.. 17110
STD NOTES: PENDING CMC APPROVAL

F A C I L I T I E S P L A N N I N G D O C U M E N T

DATE: 04/24/87

ME: 05.56.49
CTIVITY UIC....M67001 NAME....MCB CAMP LEJEUNE NC
PEC AREA.....FA NAME....MONTFORD POINT

ATEGORY CODE...17110 DESCRIPTION...ACADEMIC INSTRUCTION BLDG
ONTINUES

EN NOTES: PROVIDE A LIST OF THE COURSES GIVEN. THE NUMBER OF CLASSES OF EACH. THE NUMBER OF MEN IN EACH CLASS AND THE FREQUENCY OF EACH CLASS SESSION.

I L I T I E S P L A N N I N G

PD ACTION NOTES:
1 P807 FY 91 PROPOSED MILCON WILL CONSTRUCT 24,400SF OF ACADEMIC INSTRUCTION SPACE AND 89,483SF. OF APPLIED INSTRUCTION SPACE FOR THE DRIVER TRAINING SCHOOL AT CAMP JOHNSON.

END DATA FOR CATEGORY CODE 17110